



MAHATMA GANDHI UNIVERSITY

Vol. II-B

**Evaluative Report of the Centres/
Constituent Colleges/Institutions**

Submitted to

National Assessment and Accreditation Council
for Re-accreditation

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INTERNATIONAL AND INTER UNIVERSITY CENTRE FOR NANOSCIENCE AND NANOTECHNOLOGY

| | | | | | | |
|-----|--|---|---|------------|--------|------------------------------|
| 1. | Name of the Department | : | International and Inter University Centre for Nanoscience and Nanotechnology | | | |
| 2. | Year of establishment | : | 2009 | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes <ul style="list-style-type: none"> • Faculty of the Science • Faculty of Technology and Applied Sciences | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc.) | : | <ul style="list-style-type: none"> • MS in Nanoscience and Nanotechnology • M.Phil. in Nanoscience and Nanotechnology • Integrated Ph.D in Nanoscience and Nanotechnology • Ph.D in Nanoscience and Nanotechnology | | | |
| 5. | Interdisciplinary programmes and departments involved | | The programmes in the centre are interdisciplinary nature. The courses in Nanosciences and Nanotechnology involve Physics, Chemistry, Biology, Polymer Science, Material Science and Engineering Sciences | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc. | | Yes, <ul style="list-style-type: none"> • Students undertake project work in National and International institutions (MS students go for One year project work in abroad and Integrated M.Sc.-Ph.D students have 6 month project work abroad as specified in the syllabi • MOOC course in collaboration with North Carolina state University .USA | | | |
| 7. | Details of programmes discontinued, if any, with reasons | | Yes, Integrated M.Sc.-Ph.D and M.Phil programmes were discontinued due to less number of permanent faculties in the centre. MS programme has been modified as a new technological programme entitled M.Tech course in Nanoscience and Nanotechnology. This is based on the direction of UGC. | | | |
| 8. | Examination System | | Semester (Choice Based Credit System) | | | |
| 9. | Participation of the department in the courses offered by other departments | | Open Course on Nanoscience and Nanotechnology is offered as interdisciplinary course for all students from the campus | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/ Associate Professors/Asst. Professors/ others) | | | Sanctioned | Filled | Actual (including CAS & MPS) |
| | | | Professor | Nil | Nil | Nil |
| | | | Associate Professors | Nil | Nil | Nil |
| | | | Asst. Professors | Nil | Nil | Nil |
| | | | Others Adjunct faculty from other departments | 3 | 3 | 3 |



11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance.

| Name | Qualification | Designation | Specialization | No. of years of Experience | No.of Ph.D./M.P hil. Students guided for the last 6 years |
|---------------------------|-----------------------------------|-------------------------|--|----------------------------|---|
| Prof. Dr. Sabu Thomas | B.Tech, Ph.D, D.Sc., FRSC, C.Chem | Hon. Director Professor | <ul style="list-style-type: none">- Polymer blends- Fiber filled polymer composites- Particulate filled polymer composites- Interpenetrating polymer systems- Scaffolds for tissue engineering- Nanocomposites for water purification- Nanocomposites for electronic application | 30 | Ph.D-2 M Phil-12 |
| Dr. Nandakumar Kalarikkal | Ph.D | Associate Professor | <ul style="list-style-type: none">- Nanomultiferroics- Nanosemiconductors and Nanophosphors- Nanoferroelectrics- Nanoferrites- Nanomedicine- Nanosensors- Ion beam irradiation effects & Phase transitions | 20 | Ph.D - 2 M Phil - 8 |
| Dr.Raji V. | Ph.D | Asst. Professor | Cancer Biology Nano Drug Delivery | 5 | M Phil –3 |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:

| Sl. No | Name | Visiting Fellows/Adjunct faculty/ Emeritus professors | Specialization |
|--------|----------------------------------|---|---|
| 1. | Prof. C.N. R. Rao | Visiting Professor | Nanoscience and Technology |
| 2. | Dr.Rameshwar Adhikari | Visiting Professor | Fracture Mechanics, Polymer Blends and Composites |
| 3. | Dr.Vijayamohanan K Pillai | Visiting Professor | Material Science |
| 4. | Dr.Baldev Raj | Visiting Professor | Material Science |
| 5. | Prof.SreckoValic | Visiting Professor | Material Science |
| 6. | Prof.Abderrahim Boudenne | Visiting Professor | Polymer Science |
| 7. | Prof. B.A Wolf | Visiting Professor | Polymer Science |
| 8. | Dr.Ashish K Lele | Visiting Professor | Polymer Rheology |
| 9. | Prof. Suresh Valiyaveetil | Visiting Professor | Nanocomposites |
| 10. | Prof R Damodharan | Visiting Professor | Material Science |
| 11. | <u>Prof.JuergenPionteck</u> | Visiting Professor | Polymer Blends |
| 12. | Prof. Samuel Oluwatobi Oluwafemi | Visiting Professor | Chemistry, Nanoscience |
| 13. | Prof. Manfred Stamm | Visiting Professor | Polymer Physics, Nanoscience |
| 15. | Prof. Ajay K. Sood | Visiting Professor | Material Science |
| 16. | Dr. Dominique Durand | Visiting Professor | Material Science |
| 17. | Prof. Christopher Sinturel | Visiting Professor | Material Science |
| 18. | Dr.Latha M S | Adjunct Faculty | Drug Delivery |
| 19. | Dr. Geethamma V.G. | Adjunct Faculty | Polymer Technology |
| 20. | Dr. S. Anas | Adjunct Faculty | Organic Chemistry |
| 21. | Prof. ANil Kumar | Adjunct Faculty | Organic Chemistry |
| 22. | Prof. M. Padmanaban | Adjunct Faculty | Inorganic Chemistry |
| 23. | Prof. M.R Gopinathan Nair | Adjunct Faculty | Polymer Chemistry |
| 24. | Dr.Laly A Pothan | Adjunct Faculty | Polymer Chemistry |
| 25. | Prof Lovely Mathew | Adjunct Faculty | Polymer Chemistry |
| 26. | Prof. Sony C George | Adjunct Faculty | Nanoscience |



13. Percentage of classes taken by temporary faculty – programme-wise information:

| Programmes | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
|-----------------|---------|---------|---------|---------|---------|
| MS | 34 % | 42 % | 51 % | 52 % | 47 % |
| M.Phil. | 48% | 56 % | 43 % | 61 % | 51 % |
| Integrated Ph.D | -- | -- | -- | 50% | 49% |

14. Programme-wise Student Teacher Ratio:

| Programme | Student Teacher Ratio |
|------------------|-----------------------|
| MS | 3:1 |
| M.Phil. | 4:1 |
| Integrated Ph.D. | 4:1 |

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:

| | Sanctioned | Filled and actual |
|-----------------------------|------------|-------------------|
| Technical | 0 | 2 (contract) |
| Administrative Staff | 0 | 3 (contract) |

16. Research thrust areas as recognized by major funding agencies

Areas of Research:

- Polymer nanocomposites for water purification
- Polymer blends and composites
- Polymeric nanocomposites for electronic application such as sensing, EMI shielding, etc
- Elastomeric nanocomposites for neutron shielding application
- Polymeric nanocomposites for packaging application
- Nanostructured polymer blends and composites
- Biopolymeric material for wound healing application
- Polymer Quantum Dot for cell imaging application

- Synthesis and characterization of polysaccharides and various technological application
- Photovoltaic solar cell
- Cavitation Bubbling during Liquid Phase Laser Ablation
- Nano electronics

Fund received from: Aeronautics R & D Board, UGC, DST, DBT, BRFST, BRNS, MeitY, ISRO, CSIR, Indian Council of Medical Research, DRDO, MRF Tyres.

17. Number of faculty with ongoing projects from a) national- b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project – wise.

a) National

| Sl. No | Title of the Project | Duration | Funding Agency | Amount (₹ in Lakhs) |
|--------------------------|--|-----------------------------|--------------------|---------------------|
| Prof. Sabu Thomas | | | | |
| 1. | Rod-coil type block copolymers and their composites as functional nanostructured materials for soft electronics | 2016-2018 (3 Years) | DST-Kothari PDF | 17.00 |
| 2. | Development of a magnetic field sensor based on multiferroic laminar composite | 2016-2018 (3 Years) | DST-Kothari PDF | 17.00 |
| 3. | Poly(lactic acid) nanocomposites for packaging applications | 2015-2018 (3 Years) | DST-Kothari PDF | 17.86 |
| 4. | Development of ZnO based solar cells sensitized by dyes and biological molecules | 2015-2018 (2 years) | DST-Kothari PDF | 20.00 |
| 5. | Polymer Quantum Dot aptamer hybrid conjugate for hepatocellular carcinoma cell imaging application | 2015-2017 (2 years) | KSCSTE - PDF | 9.44 |
| 6. | Size dependent antimicrobial activity and mode of action of nanoparticles emphasized with Ag nanoparticles against multiple drug resistant pathogens | 2015-2018 (3 Years) | DST-Kothari PDF | 20.16 |
| 7. | Novel thermoplastic elastomer composition for neutron shielding applications | 2015 – 2017 (2 Years) | DAE, BRNS | 34.66 |
| 8. | Engineering biopolymeric twin skip patch (tsp) matrices for wound healing applications | 2015-2018 (3 Years) | DST-Kothari PDF | 17.00 |
| 9. | Hybrid nanocomposites of natural rubber/chlorobutyl rubber blends for automotive inner liners and inner tubes | 2014-2016 (3 Years) | DST-Kothari PDF | 18.20 |
| 10. | Engineering of nano-structured high performance epoxy/liquid rubber blends with controlled nanoparticle localization | 2014-2017 (3 Years) | CSIR | 14.92 |



| | | | | |
|---------------------------------|--|-------------------------|------------------|--------|
| 11. | Development of super tough Thermoset from self-assembled nanostructured block copolymer/epoxy resin blends | 2014-2017 (3 Years) | DRDO | 29.62 |
| 12. | Miscibility, morphology and properties of NR/SBR and BR based binary and ternary rubber blends and the influence of carbon black and silica filler distribution on blend properties | 2014-2017 (2.5Years) | MRF | 3.00 |
| 13. | Development of engineered nanostructured materials for high performance application | 2010-2013 | DST Nano Mission | 524.06 |
| 14. | Development of multi walled carbon nanotube filled polycarbonate/polypropylene double percolating conductive polymer blend nanocomposites for electromagnetic interference shielding Gaskets for mobile phones | 2012-2015 | MeitY | 41.82 |
| 15. | High performance nylon clay nanocomposites for dental applications | | ICMR | 25.00 |
| Dr.Nandakumar Kalarikkal | | | | |
| 16. | Design and applications of magnetically responsive self-assembled polymer nanocomposites | 2016-2019 (3 Years) | DST Nano Mission | 200.00 |
| 17. | Physics of Cavitation Bubbling and Hydrogen Generation during Liquid Phase Laser Ablation | (2015-2017) | BRFST-BRNS | 34.96 |
| 18. | Development of one-dimensional multi-ferroic nanocomposites for device applications | 2015 - 2017 | KSCSTE | 10.00 |
| Dr.Raji V | | | | |
| 19. | AuNP/LDH core shell nanoparticles a novel multifunctional candidate for gene delivery | 2016-2018 (2 Years) | KSCSTE | 15.00 |

b) International: Prof.Sabu Thomas

| Sl. No | Title of the Project | Duration | Funding Agency | Amount (Rupees in Lakhs) |
|--------|--|--------------------------|--|--------------------------|
| 1. | Studies on cellulose nanocrystals and their applications in nanocomposites with varying technological applications | 2014 – 2017 (3 Years) | DST (Indo-Brazil) International Bilateral co-operation | 27.29 |

Total grant received: ₹ 1096.99 Lakhs

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration

| SL.No | Project Title | Funding agencies | Total Fund in Lakhs (₹) |
|-------|---|------------------|-------------------------|
| 1. | DBT builder programme with School of Bio Sciences | DBT | 450.00 |

b) International collaboration

| SL No | Project Title | Funding agencies | Total Fund (₹ in Lakhs) |
|-------|---|--|-------------------------|
| 1. | Nano biomaterials water purification | Researcher Links scheme offered within the Newton Fund, the British Council & Royal Society of Chemistry, London | 5.00 |
| 2. | Crosslinked polyethylene nanocomposite for cable insulating application | University of Mara, Malaysia | 3.00 |

Total grants received: ₹ 458 Lakhs

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received:

| SL No | Funding Agency | Project | Grants received (₹ in lakhs) |
|-------|----------------------------|--|------------------------------|
| 1. | MeitY | Visvesvaraya Ph.D Scheme for Electronics and IT | 89.77 |
| 2. | SARD | KCSTE under SARD Project | 29.60 |
| 3. | Plan Fund, Govt. of Kerala | Nanoscale Materials for water purification and fabrication of nano composites for Biomedical application | 100.00 |
| 4. | | University-Industry Collaboration and Development of New Technologies | 40.00 |
| 5. | | Online course on Introduction to Nanoscience and Nanotechnology | 50.00 |

Total grants received: ₹ 309.37 Lakhs



20. Research facility / centre with

- State recognition :Yes
- National recognition :Yes
- International recognition :Yes

21. Special research laboratories sponsored by / created by industry or corporate bodies

Sponsored laboratory: 1 International Laboratory

An Ingenuity Lab Research Hub was set up in collaboration with International and Inter University Centre for Nanoscience Nanotechnology (IIUCNN) at Mahatma Gandhi University in Kottayam, Kerala India. The focus of this new, unique, and collaborative facility is to implement applied research to fight for good health, good water and good environment. Ingenuity Lab is an initiative established by the province of Alberta at university of Alberta in Canada, led by Professor Carlo Montemagno, to bring the best minds together to address global challenges. Ingenuity Lab is selected as the Best Nanotechnology Research Organization in 2014 by “The New Economy” (www.ingenuitylab.ca). IIUCNN at Mahatma Gandhi University, led by Professor Sabu Thomas, carries a strong vision to perform and coordinate academic and research activities in the frontier areas of Nanoscience and Nanotechnology by incorporating physical, chemical, biological and environmental aspects. Dr. Babu Sebastian, Honorable Vice Chancellor of Mahatma Gandhi University inaugurated the ingenuity lab of University of Alberta at IIUCNN in the presence of Prof. Carlo, Director, Ingenuity lab. Vice chancellor also signed an MoU on the same day to intensify mutual collaboration between Mahatma Gandhi University and Ingenuity lab.

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 269 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 23 |
| 4. | Chapters in Books | 43 |
| 5. | Edited Books | 52 |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| 9. | Total | 387 |

23. Details of patents and income generated: Nil

| SL No | Patent details |
|-------|--|
| 1. | Biodegradable, Biocompatible Wound Healing Dressing Film and ointment from the Biocomposite of Marine Origin, Indian Patent application: 840/DEL/2013, M. Kurup and Sabu Thomas |
| 2. | Method for improving the comparative tracking index of polymer composites, Indian patent Application No:4239/CHE/2014, Harinarayanan Puliyaalil, Uros Cvelbar, MiranMozetic, Sabu Thomas. |
| 3. | A polymer Nanocomposite, Process And Application thereof, WIPO Publication number: WO2016142848 A1, Publication date: Sep 15, 2016, and Indian patent Application No: 638/DEL/2015 Mohammed Arif P, Sabu Thomas, Nandakumar Kalarikkal |

24. Areas of consultancy and income generated:

| SL. No | Description | Income generated (in Lakhs) |
|--------|---|-----------------------------|
| 1. | Student projects (1 month to 12 months) | 0.95 |
| 2. | Testing and analysis of polymeric samples | 10.00 |
| 3. | Consultancy with industry (Plant Lipids) | 3.50 |
| | Total | 14.45 |

- Plant Lipids India Ltd. consults our centre quite often for the development of nanoparticle and plant derived medicine.
- Several colleges in Kerala and outside consult our centre for project work

25. Faculty selected nationally / internationally to visit other laboratories / institutions/ industries in India and abroad:

Nationally : Prof. Sabu Thomas: Invited Lecture

| Name of Programme | Institute | Date |
|--|---|------------------------------|
| National Seminar on Nanotechnology and renewable Energy | K.E College, Kottayam | Oct 30-31 st 2013 |
| National Seminar on Current trends Chemistry(CTric 2014) | Cochin University of Science and Technology | 2014 |
| National Seminar on Perspectives | Marthoma College of Science and | 7 th November |



| | | |
|---|--|--|
| in Material Science | Technology Ayur | 2014 |
| National Seminar on Recent Approaches in Biochemical Research (RABR -2014) | Department of Biotechnology, Thiruvanthapuram, Kerala. | 2014 |
| National Seminar on Recent Advances in Nanoscience RANSS 14 | Auxillum College Vellore Tamil Nadu | 21-22 November 2014 |
| Advances in Biotechnology 2014 (CUSAT) | Cochin University of Science and Technology | 15 TH -16 TH December 2014 |
| UGC Sponsored National Seminar "Advanced topic in Chemistry-ATC 2015 | Sree Narayana College Nattika | 19-20 August 2015 |
| Recent Advances in Spectroscopy: A Chemical and Biological perspective –II | Newman College ,Thodupuzha | 14-15 September 2015 |
| Recent Advance in Spectroscopy a chemical and Biological perspective -2 | Newman College Thodupuzha | 14-15 Sep 2015 |
| Emerging Nanomaterials NSEN - 2015 | Deva MATHA College ,Kuruvilangad | 6 th January 2015 |
| International CONFERENCE ON Understanding Contemporary India | ICCS, Mahatma Gandhi University | 14-15 January 2016 |
| International Conference on Advances in applied Mathematics, Materials Science and Nanotechnology for Engineering and Industrial application.IC-AMMA-2K16 | Federal INSTITUTE OF Science and Technology (FISAT) | JANUARY 2016 |

Dr. Nandakumar Kalarikkal : Invited lecture

| Name of Programme | Institute | Date |
|--|---|----------------------|
| National Conference on Recent Advances in Correlated Electron Systems | Indian Institute of Technology, Guwahati | 18-20 January 2010 |
| International Conference on Nanomaterials; Synthesis, characterization and applications | Mahatma Gandhi University, Kottayam, Kerala | 27-29 April 2010 |
| Second International Conference on natural polymers, bio-Polymers, biomaterials, their composites, Blends, IPNs and Gels, Polyelectrolytes and Gels: | Mahatma Gandhi University, Kottayam, Kerala | 24-26 September 2010 |



| | | |
|--|--|---|
| Macro to Nano Scales-ICNP-2010 | | |
| First International Conference on Composites and Nanocomposites-ICNC-2011 | Mahatma Gandhi University, Kottayam, Kerala | 7-9 January 2011 |
| Theme meeting on Utilization of National Facility for Neutron Beam Research (NFNBR) | Bhabha Atomic Research Centre, Mumbai | October 17-18, 2011 |
| Third International Conference on Frontiers in Nanoscience and Technology-Cochin Nano-2011 | Cochin University of Science and Technology, Cochin | 14-17 August 2011 |
| Deakin India Research Initiative (DIRI) Symposium 2011 – Frontiers in Science’ | TERI Deakin Nano Bio Research Centre, Gurgaon, Haryana | 21-23 November, 2011 |
| First International Conference on Plasma Processing of Organic Materials and Polymers-PPOMP-2011 | Mahatma Gandhi University, Kottayam | 25-27 November 2011 |
| UGC Sponsored National Seminar on Current Developments in Nano Materials | Catholicate College, Pathanamthitta | 7-9 December 2011. |
| 28th National Symposium on Plasma Science & Technology (PLASMA – 2013) | KIIT University, Bhubaneswar. | 3rd December to 6 th December 2013 |
| International Conference on Energy Harvesting Storage and Conversion (IC-EEE 2015) | Cochin University of Science and Technology, Cochin | 4-7 Feb 2015 |
| Deakin India Research Initiative-Symposium-2015 | The Energy and Resources Institute, Delhi. | December 6-9, 2015 |
| Three day lecture in ‘Key Parameters in Science Park Management’ | Iran | December 18-20, 2015 |

International

| Sl. No. | Name of the university/industry | Date | Purpose |
|--------------------------------------|---|--------------------------|---------------------------|
| Prof. Sabu Thomas (2010-2016) | | | |
| 1 | Distinguished Professorship, Josef Stefan Institute, Slovenia | 2010 October to 2010 Nov | Visiting professor |
| 2 | University Technology Mara (UiTM), Malaysia | 2010 Dec | Senior Visiting Professor |
| 3 | University of Strasbourg, Strasbourg, France | 2011 April- 2011 June | Visiting Professor |
| 4 | University of Burgos, Burgos, Spain | 2011 July 2011 July | Visiting Speaker |
| 5 | University Technology Mara (UiTM), Malaysia | 2011 Dec. 2011 Dec | Senior Visiting Professor |



| | | | |
|----|---|-----------------------|---------------------------|
| 6 | Changwon University, Pusan, Korea | 2012 Feb | Invited Guest Professor |
| 7 | Universite Lorraine, Nancy, France | 2012 April- May | Visiting Professor |
| 8 | University of Strasbourg, France | 2012 June | Visiting Professor |
| 9 | University of Paris, France | 2012 July | Visiting Professor |
| 10 | Adam Mickiewicz University, Poznan, Poland | 2013 Feb | Visiting Professor |
| 11 | University Technology Mara (UiTM), Malaysia | 2013 October | Senior Visiting Professor |
| 12 | University Technology Mara (UiTM), Malaysia | 2013 December | Senior Visiting Professor |
| 13 | University Technology Mara (UiTM), Malaysia | 2014 April | Senior Visiting Professor |
| 14 | Warsaw University of Technology, Warsaw, Poland | 2014 June | Visiting Professor |
| 15 | LIMATB, France | 2015 March | Visiting Professor |
| 16 | Institute of Chemistry, University of GRAZ, Austria | 2015 May | Visiting Professor |
| 17 | University of Armenia | 2015 September | Visiting Professor |
| 18 | Qilu University of Technology, Jinan, China | 2015 December | Visiting Professor |
| 19 | Hong Kong Polytechnique, Hong Kong | 2016 August/September | Visiting Professor |
| 20 | Federal University of Uberlândia, Brazil | 2016 September | Visiting Professor |
| 21 | Institute of Biophysics of Russian Academy of Science, Siberian Federal University, Russia. | 2016 October | Visiting Professor |

| Dr. Nandakumar Kalarikkal (2010-2016) | | | |
|--|---|---|--------------------|
| 1 | Key Parameters in Science Park Management | INTER ISLAMIC NETWORK ON SCIENCE AND TECHNOLOGY PARKS(INSTP) AND THE OIC Standing Committee on Scientific and Technological cooperation (COMSTECH),IRAN | Visiting professor |



26. Faculty serving in a) National committees b) International committees c) Editorial Boards d) any other (please specify)

a) National committees

Prof. Sabu Thomas: Conference advisory committee

| Name of conference/Seminar | Institute | Date |
|--|--|--|
| National Seminar on Nanotechnology and renewable Energy | K.E College, Kottayam | Oct 30-31 st 2013 |
| National Seminar on Current trends Chemistry(CTric 2014) | Cochin University of Science and Technology | 2014 |
| National Seminar on Perspectives in Material Science , | Marthoma College of Science and Technology, Ayur | 7 th Novemeber 2014 |
| National Seminar on Recent Approaches in Biochemical Research (RABR -2014) | Department of Biotechnology, Thiruvanthapuram, Kerala. | 2014 |
| National Seminar on Recent Advances in Nanoscience RANSS 14 | Auxillum College Vellore Tamil Nadu | 21-22 November 2014 |
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| Emerging Nanomaterials NSEN - 2015 | Deva MATHA College, Kuruvilangad | 6 th January 2015 |
| International CONFERENCE ON Understanding Contemporary India | ICCS, Mahatma Gandhi University | 14-15 January 2016 |
| International Conference on Advances in applied Mathematics, Materials Science and Nanotechnology for Engineering and Industrial application. IC-AMMA-2K16 | Federal institute of science and Technology (FISAT) | January 2016 |



Dr. Nandakumar Kalarikkal : Conference advisory committee

| Name of conference/seminar | Institute | Date |
|---|--|---|
| National Conference on Recent Advances in Correlated Electron Systems | Indian Institute of Technology, Guwahati | 18-20 January 2010 |
| International Conference on Nanomaterials; Synthesis, characterization and applications | Mahatma Gandhi University, Kottayam, Kerala | 27-29 April 2010 |
| Second International Conference on natural polymers, bio-Polymers, biomaterials, their composites, Blends, IPNs and Gels, Polyelectrolytes and Gels: Macro to Nano Scales-ICNP-2010 | Mahatma Gandhi University, Kottayam, Kerala | 24-26 September 2010 |
| First International Conference on Composites and Nanocomposites-ICNC-2011 | Mahatma Gandhi University, Kottayam, Kerala | 7-9 January 2011 |
| Theme meeting on Utilization of National Facility for Neutron Beam Research (NFNBR) | Bhabha Atomic Research Centre, Mumbai | October 17-18, 2011 |
| Third International Conference on Frontiers in Nanoscience and Technology-Cochin Nan0-2011 | Cochin University of Science and Technology, Cochin | 14-17 August 2011 |
| Deakin India Research Initiative (DIRI) Symposium 2011 – Frontiers in Science’ | TERI Deakin Nano Bio Research Centre, Gurgaon, Haryana | 21-23 November, 2011 |
| First International Conference on Plasma Processing of Organic Materials and Polymers-PPOMP-2011 | Mahatma Gandhi University, Kottayam | 25-27 November 2011 |
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| 28th National Symposium on Plasma Science & Technology(PLASMA – 2013) | <u>KIIT University, Bhubaneswar.</u> | 3rd December to 6 th December 2013 |
| International Conference on Energy Harvesting Storage and Conversion (IC-EEE 2015 | Cochin University of Science and Technology, Cochin | 4-7 Feb 2015 |
| Deakin India Research Initiative-Symposium-2015 | The Energy and Resources Institute, Delhi. | December 6-9, 2015 |

b) International committees

| Name of the faculty | Details |
|---------------------|---|
| Prof. Sabu Thomas | <ul style="list-style-type: none"> • Visiting Professor at University of Armenia(2015 September) • Course titled “Key parameters in Science Park Management” organized by Inter-Islamic Network on Science and Technology parks (INSTP) Guilan, Iran.(2015 December) • 2014 March, Plenary Speaker, University of Basra, Iraq • 2014, April, Invited Speaker, University Technology, Mara, Malaysia |



| | |
|---------------------------|--|
| | <ul style="list-style-type: none"> • 2014 July, Invited Speaker, Durban University of Technology, Durban, South Africa • 2015 June, ICMAT2015 & IUMRS-ICA2015, 8th International Conference on Materials for Advanced Technologies of the Materials Society of Singapore and 16th IUMRS - International Conference in Asia together with 4th Photonics Conference 2015 • 2015, August 9th National Affinity Techniques Symposium” (AFFTECH 2015); “4th Nanomedicine World Congress (NANOMED 2015)” and “2nd International NanoBioTechnology Symposium” focusing also Nanomedicine (NANOBIOTECH 2015), Dalaman, Turkey & AFFTECH 2015. • 2015, Invited Speaker, Durban University of Technology, Durban, South Africa • 2016 April, Plenary speaker for “XXI IUPAC CHEMRAWN - Solid Urban Waste Management, Rome, Italy., • 2016 April, Invited speaker for (The World Academy of Sciences) TWAS Research Grants Conference - Shaping Careers in Science, Trieste, Italy, 19th to 22nd • 2016 May, Plenary speaker for WasteEng2016, Conference, Albi, France, 23rd to 26 Albi France • 2016 June, Invited speaker for the seminar entitled “King Mongkut’s University of Technology, Bangkok, Thailand. • 2016 October, Institute of Biophysics of Russian Academy of Science, Siberian Federal University, Russia. • 2016 October The International Rubber Conference 2016 Kitakyushu, Japan (IRC2016 Kitakyushu) |
| Dr. Nandakumar Kalarikkal | <ul style="list-style-type: none"> • INTER ISLAMIC NETWORK ON SCIENCE AND TECHNOLOGY PARKS (INSTP) AND THE OIC Standing Committee on Scientific and Technological cooperation (COMSTECH), IRAN |

c) Editorial Boards: Editor

| Name of the faculty | Details |
|---------------------|--|
| Prof. Sabu Thomas | <ul style="list-style-type: none"> • Editor, Nano structures and Nano objects, Elsevier |

Editorial Board Memberships: Prof. Sabu Thomas

- SM Journal of Nanotechnology and Nanomedicine
- Nano Advances
- Materials Science and Engineering (Editorial Key Reviewers Committee)



- International Journal Of Advances In Engineering Research
- World Journal of Biotechnology
- Journal of Emerging Materials Technology
- Associate Editor, Bulletin of Materials Science
- Regional Editor of the journal "Current Smart Materials

Academic Referee for Universities and Funding Agencies: Prof. Sabu Thomas

- University of Sains, Malaysia
- University of Calcutta, Calcutta, India
- University of Rajasthan, Jaipur, India
- DST, India
- DBT, India
- CSIR, India
- NRF, South Africa
- EU Projects
- NSF-DST Projects

d) Any other (Reviewer for international journals)

| Name of the faculty | Details | Journal Name |
|----------------------------|-------------------|--|
| Prof. Sabu Thomas | ACS Journals | Macromolecules, Langmuir, Biomacromolecules, Industrial Engineering chemistry, JACS, ACS Nano |
| | RSC Journals | Soft matter, RSC Advances, Polymer chemistry, PCCP, |
| | Elsevier Journals | Polymer, Industrial crops and products |
| | Wiley Journals | Journal of Applied Polymer Science, Composite science and Technology, Journal of Thermal Analysis, Polymer and Polymer composites, Journal of Polymer science Part B: Polymer Physics, Composites Part A and Part B, Polymer composites, Polymer Engineering and sciences, European Polymer journal, Journal of Material Science, Applied clay science |
| Dr. Nandakumar Kalarikkal | Springer | Journal Of Sol-Gel Science and Technology, Journal of Material Science |
| | RSC Journals | RSC Advances |
| | Elsevier Journals | Journal of Magnetism and Magnetic Materials |

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

We have organized number of National and International Conferences and Workshops:

1. International conference on Macromolecules: Synthesis, Morphology, Processing, Structure, Properties and Applications (ICM-2016) 13-15 May 2016
2. First International Conference on Advanced Materials for Power Engineering , 11-13 December 2015
3. International Conference on Nanostructured Polymeric Materials and Polymer Nanocomposites (ICNPM 2015) on 13, 14 and 15 November 2015
4. World Congress on Microscopy: Instrumentation, Techniques and Applications in Life Sciences and Materials Sciences
5. Fourth International Conference on Natural Polymers (ICNP 2015) : 10-12 April 2015
6. Second International Conference on Nanostructured Materials and Nanocomposites (ICNM 2014): 19 – 21 December 2014.
7. International Conference on Plasma & Nanotechnology and 29th National Symposium on Plasma Science & Technology (PLASMA-2014)
8. Third International Conference on Polymer Processing and Characterization (ICPPC 2014) : 11-13 October 2014
9. First World Conference on Fracture and Damage Mechanics (FRACTURE 2014): 9-11 August 2014
10. Third International Conference on Recycling and Reuse of Materials (ICRM 2014): 11-13 April 2014
11. International Conference on Advanced Polymeric Materials (ICAPM 2013) : 11-13 October 2013
12. Third Euro-India International Conference on Nanomedicine and Tissue Engineering (ICNT 2013) : 9-11 August 2013
13. First International Conference on Advanced Nanocomposite for Construction Materials : 12-14 March 2013
14. India-Israel Meet on Material Science and Nanoscience, February 1, 2013.
15. Third International Conference on Natural Polymers (ICNP2012): 26-28 October 2012.
16. First Indo- US International Conference on Polymers for Packaging Applications (ICPPA 2012) 31st March – 2nd April 2012
17. Third International Multicomponent Polymer Conference (ICMPC-2012) 23-25 March-2012.
18. International Conference on Nanomaterials: Synthesis, Charecterisation and Application (ICNM-2012) February- 1-3, 2012
19. Second International Conference on Nanomaterials: Synthesis, Characterization and Applications-ICN 2012 held during 12-15 January 2012
20. International conference on Nanoscience and nanotechnology-2011, November, 12-15, 2011.
21. International conference of waste management-2011(International Conference on Composites and Nanocomposites (ICNC-2011).



Workshops:

1. One Day Outreach Program on Facilitating Innovation and Patent Filing’ organized by the MHRD Chair on IPR and Inter University Centre for IPR studies (IUCIPRS), Cochin University of Science and Technology (CUSAT) on 29th February 2016,
2. One Day Outreach Program on Facilitating Innovation and Patent Filing’ organized by the MHRD Chair on IPR and Inter University Centre for IPR studies (IUCIPRS), Cochin University of Science and Technology (CUSAT) on Friday, 19th of August 2016.

28. Student projects

| | |
|--|------|
| Percentage of students who have done in-house projects including inter-departmental projects | 0% |
| Percentage of students doing projects in collaboration with other universities/ industry / institute | 100% |

29. Awards / recognitions received at the national and international level

• **by Faculty**

| | |
|--------------------------|---|
| Prof Sabu Thomas | <ol style="list-style-type: none"> 1. Awarded Doctorat Honoriscausa-LIMATB, University of South Brittany, France 2015 2. Awarded Society For Educational & Scientific Research. (SESR) Nanotech Scientist Award- 2014, 3. Awarded Bronze Medal of Chemical Research Society (CRSI) of India, 2013 4. Awarded Materials Research Society of India Award (MRSI), 2013 5. Fellow of the Royal Society of Chemistry, London, FRSC, 2012 6. Distinguished Professorship Award, Josef Stefan Institute, Slovenia,2010 |
| Dr Nandakumar Kalarikkal | <ol style="list-style-type: none"> 1. Visiting Fellow, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, India 2. Visiting Professor, Gulbarga University, Gulbarga, Karnataka under SAP scheme of UGC |

• Doctoral / Post-doctoral fellows –

| Name | Award |
|----------------------|--|
| Robin Augustine | <ol style="list-style-type: none"> 1. Best poster award, International Conference on Membranes (ICM-2013), MGU 2. Best poster presentation in Second International Conference on Nanomaterials: Synthesis, Characterization and Application India-2013, MGU. 3. Best Poster Presentation Award -International Conference on Advanced Nanocomposite for Construction Materials (ICNC-2013), MGU 4. Best oral presentation award -International Conference on Tissue Engineering and Regenerative Medicine (ICAPM-2013) National Institute of Technology, Rourkela, Odisha 5. Best poster award-Bioradiance 2014 (National level seminar), organized by the Pushpagiri Research Centre, Tiruvalla, Kerala. 6. Third prize for poster presentation ,2nd International Conference of Nano Materials(ICNM)2014, MGU |
| Jemy James | Best Oral Presentation - International Conference On Plasma Science And Nanotechnology, & 29 th National Symposium On Plasma Science And Technology, MGU |
| Preetha Balakrishnan | Best Oral Presentation Award -National Seminar on Material Science and Modern Analytical Techniques on 26 th & 27 th of March 2014 |
| Dr.Praveen.G | <ol style="list-style-type: none"> 1. Best Oral Presentation Award, National Seminar On Biopolymers And Green Composites (BPGC-14) 2. Best Oral Presentation Award, National Seminar On Nanochemistry And Nanobiotechnology (Nanochembio-14) 3. Best Poster Presentation Award (Prof. D.M. Vasudevan Award),In Bioradiance-2015 'National Conference On Frontiers In Diabetic Research And Treatment' 4. Best Oral Presentation Award , UGC Sponsored National Seminar On “Emerging Trends In Nanomaterials” 5. Best paper award ,28th Kerala Science Congress,2016 |
| Jiji Abraham | <ol style="list-style-type: none"> 1. Best Paper Award - National Seminar on Nanostructured Materials (NSM2014),5 2. Best Paper Award, National Seminar On Advanced Polymer Materials(Hesperos 2015), MGU |
| Blessy Joseph | Best Poster Prize International Conference On Holistic Medicine - ICHM 2015, MGU |
| Aneesa .P | Best poster award -Deakin India Research Initiative – International Symposium on Translational Research 2015, New Delhi |



30. Seminars/ Conferences/Workshops organized and the source of funding (national/ international) with details of outstanding participants, if any.

| Year | Seminars/ Conferences/Workshops | Source of funding | outstanding participants |
|---------|--|--|--|
| 2015-16 | First International Conference on Advanced Materials for Power Engineering (ICAMPE 2015) : 11-13 December, 2015 | DRDO, New Delhi DST, New Delhi | B. Rožič, M. Lavrič, M. Trček, G. Cordoyiannis, Z. Kutnjak, S. Kralj (Slovenia) M. Saad Alam(India) Judy Wu (USA) |
| | International Conference on Nanostructured Polymeric Materials (ICNPM 2015) : 13-15 November, 2015 | ICMR, New Delhi KSCSTE, Trivandrum | Manfred Stamm (Germany) |
| | World Congress on Microscopy (WCM 2015): 9-11 October, 2015 | DST New Delhi | Leszek A. Dobrzański, M. (Poland) |
| | Fourth International Conference on Natural Polymers (ICNP 2015) : 10-12 April 2015 | CSIR, New Delhi | Kohzo Ito(Japan) |
| 2014-15 | Second International Conference on Nanostructured Materials and Nanocomposites (ICNM 2014) : 19 – 21 December 2014 | DST, New Delhi | Prof. C.N.R.Rao (India) Vijayamohan K. Pillai(India) |
| | Third International Conference on Polymer Processing and Characterization (ICPPC 2014) : 11-13 October 2014 | MG University KSCSTE, Trivandrum | H. Münstedt (Germany) Graham J. Leggett(UK) |
| | First World Conference on Fracture and Damage Mechanics (FRACTURE 2014): 9-11 August 2014 | DRDO, CSIR New Delhi | S. Wang and C. M. Harvey(UK) |
| | Third International Conference on Recycling and Reuse of Materials (ICRM 2014): 11-13 April 2014 | CSIR, New Delhi DST, New Delhi INSA, New Delhi KSCSTE, Trivandrum | A.V. Ratna Prasad*, K. Ramanaiah, K. Mohana Rao, K.M.V Ravi Teja(India) Abdeen Omer(UK) Abitha V K , K Rajkumar, Dr. P. Thavamani(India) |



| | | | |
|---------|--|--|--|
| 2013-14 | International Conference on Advanced Polymeric Materials (ICAPM 2013) : 11-13 October 2013 | DST New Delhi | Abraham J. Domb, Neeraj Kumar, Wahid Khan, Diana Surendra Kulkarni(India) |
| | Third Euro-India International Conference on Nanomedicine and Tissue Engineering (ICNT 2013) : 9-11 August 2013 | CSIR, New Delhi DRDO, New Delhi DST, New Delhi ICMR, New Delhi INSA, New Delhi | Animesh Jha, M S Duggal, Tom Vancoillie, Richard Hoogenboom(Belgium) |
| | First International Conference on Advanced Nanocomposite for Construction Materials (ICNC 2013): 12-14 March 2013 | AERB, Mumbai CSIR New Delhi DRDO, New Delhi DST, New Delhi ICMR, New Delhi | D.A. Koleva(Netherlands) Paulo Cachim, André Monteiro, Pedro Costa(Portugal) |
| 2012-13 | Third International Conference on Natural Polymers (ICNP2012): 26-28 October 2012 | CSIR, New Delhi DBT, New Delhi DRDO, New Delhi DST, New Delhi INSA, New Delhi | James Jacob (India) Anna Kucinska and Jerzy P. Koh (South Korea) Sandipan Chatterjee(India) |
| | Third International Multicomponent Polymer Conference (IMPC-2012) 23-25 March-2012, Conducted by Center for Nanoscience, M. G. University, Kerala, INDIA | DST, New Delhi DRDO, New Delhi | Richard J. Spontak (USA) José Roberto Tozoni (Brazil) A.P. Uthirakumar(India) |
| | (ICNM-2012) International Conference on Nanomaterials: Synthesis, Characterization and Application-2012 Kottayam, Kerala, India, February- 1-3, 2012 | CSIR, New Delhi DRDO, New Delhi; DST, New Delhi INSA, New Delhi | Lukaszewicz (Poland) Santosh Kumar and Joonseok |
| | Second International Conference on | DST New Delhi MG University | Brown, M Routledge(UK) Samarendra Maji, Gertjan |



| | | | |
|---------|---|--|--|
| | Nanomaterials: Synthesis, Characterization and Applications-ICN 2012 to be held at Mahatma Gandhi University, Kottayam, Kerala, India during 12-15 January 2012 | | |
| | First Indo-US International Conference on Polymers for Packaging Applications (ICPPA 2012) | CSIR, New Delhi DRDO, New Delhi | Ickowich, Moran Haimzada(Israel) |
| 2011-12 | International conference on Nanoscience and nanotechnology-2011, Kottayam, Kerala, India November, 12-15, 2011 | ICMR, New Delhi KSCSTE, Trivandrum | Sandipan Chatterjee(India) |
| | (PPOMP 2011) First International Conference on Plasma Processing of Organic Materials and Polymers 25-27 November 2011, Kottayam, Kerala, India | CSIR, New Delhi DST, New Delhi KSCSTE, Trivandrum | François Rossi (Italy) Abhijit Majumdar, H.C. Thejaswini, Rainer Hippler (Germany) |
| | International conference of waste management-2011, Conducted by Center for Nanoscience, M. G. University, Kerala, INDIA | DST, New Delhi | Mariusz Walkowiak |
| | ICNC-2011- International Conference on Composites and Nanocomposites-2011 Conducted by Center for Nanoscience, M. G. University, Kerala, INDIA | CSIR, New Delhi DST, New Delhi KSCSTE, Trivandrum DRDO, New Delhi INSA, New Delhi | Shakeel Ahmed Ansari and Qayyum Husain(India) (Poland) |

31. Code of ethics for research followed by the departments

- (a) Plagiarism: It's mandatory for all Master and Ph.D students to strictly adhere to plagiarism before submitting any manuscript to a journal. Since last year the doctoral thesis of all researchers at Mahatma Gandhi University needs to submit a plagiarism report in the thesis which should be less than 20%. Nevertheless,

research scholars and master students are also given special training to use plagiarism software.

- (b) Animal ethical committee: An animal ethical committee has been constituted under University to probe in to the ethical issues involved while performing animal trials at out centre. The committee formulate rules and regulations for performing animal studies in conjunction with other national Animal ethical committees.
- (c) Software. All the software such as windows and other mathematical software such as Matlab, Chem Draw installed at our center are genuine.

32. Student profile programme-wise:

| Name of the Programme (refer to question no. 4) | Applications received | Selected | | Pass percentage | |
|--|-----------------------|----------|--------|-------------------------------|-------------------|
| | | Male | Female | Male | Female |
| M.Phil | 150 | 9 | 18 | 100 | 100 |
| MS | 176 | 12 | 12 | 100 | 100 |
| Ph.D | 95 | 5 | 22 | 40% (3- About to complete) | About to complete |

33. Diversity of students

| Name of the Programme | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|-----------------------|--|--|---|------------------------------------|
| M.Phil | 80 | 20 | 0 | 0 |
| MS | 65 | 30 | 5 | |
| Ph.D | 67 | 33 | | |

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, and other competitive examinations? Give details category-wise.:

Nil



35. Student progression

| Student progression | Percentage against enrolled |
|--|--------------------------------|
| UG to PG | NA |
| PG to M.Phil. | NA |
| PG to Ph.D. | 60% |
| Ph.D. to Post-Doctoral | 100 % (only two Ph.D awarded) |
| Employed <ul style="list-style-type: none"> • Campus selection • Other than campus recruitment | 40% |
| Entrepreneurs | |

36. Diversity of staff

| Percentage of faculty who are graduates | |
|--|------|
| of the same university | |
| from other universities within the State | 50% |
| Universities from other States | 50 % |
| from universities outside the country | |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period

| Name of the Faculty | Degree awarded | Details |
|---------------------|----------------|---|
| Prof. Sabu Thomas | D.Sc | University of South Brittany, LIMATB, France, 2014-2015 |

38. Present details of departmental infrastructural facilities with regard to:

| | |
|---|--|
| a) Library | 268 |
| b) Internet facilities for staff and students | available |
| c) Total number of class rooms | No permanent class room, sharing with SPAP and SCS |
| d) Class rooms with ICT facility | No permanent class room, sharing with SPAP and SCS |

| | |
|---------------------------|--|
| e) Students' laboratories | sharing with SPAP and SCS |
| f) Research laboratories | <ul style="list-style-type: none"> • Bio Lab • Synthesis Lab • Fabrication Lab • Characterization and testing lab • Advanced material Lab |

The centre is equipped with many sophisticated instruments which have procured through various projects funded by different agencies. The following instruments are available for performing high quality research in different areas of nanoscience and nanotechnology.

1. Atomic Force Microscope
2. Autoclave
3. Brabender
4. Carbon Dioxide Incubator
5. Compression Moulder
6. Cooling Centrifuge
7. Dielectric Measurement System
8. Differential Scanning Calorimeter
9. Dynamic Contact Angle Meter
10. Electrospinning Unit
11. High Resolution Transmission Electron Microscope
12. Laminar Air Flow System
13. Lyophilizer
14. ME Coupling Set up
15. Nd:YAG Laser
16. Plasma Ablation
17. Pulsed Laser Deposition
18. Z-Scan
19. Spin Coater
20. Ultrasonicators
21. UV-Visible-NIR Spectroscope
22. Vector Network Analyzer
23. X-ray Diffractometer



39. List of doctoral, post-doctoral students and Research Associates

| Name of Guide | Doctoral Fellow | Postdoctoral Fellows |
|---|---|--|
| Prof. Sabu Thomas | Jiji Abraham Blessy Joseph Mohammed Arif P | 1. Dr. Angulakshmi 2. Dr Obey Koshi 3. Dr Praveen G 4. Dr Jiya Jose 5. Dr Hanna J M 6. Dr Ajith kumar M P 7. Dr Aparna T 8. Dr. Jayalakshmy M. S. |
| Dr. Nandakumar Kalarikkal | Arunima R Lakshmi Priya S Shabina Kappadan Rajakumari R Dr.Sandhya Gopalakrishnan Dr. Indu Raj | |
| Dr. Geethamma V G (Adjunct faculty) | Ajitha A R Preetha Balakrishnan Anu Surendran Bicy K | |
| Dr. Sony George (Adjunct faculty) | Sahrika T Maya M.G | |
| Dr. MR Gopinathan Nair (Adjunct faculty) | Akhina | |
| Dr.M Padmanaban (Adjunct faculty) | Aswathi M K | |
| Dr. Laly A Pothan (Adjunct faculty) | Joshy KS | |
| Prof. Lovely Mathew (Adjunct faculty) | Jithin Joy | |
| Dr. Radhakrishnan (Adjunct faculty) | Snigtha S Deepa P Mohanan | |
| Dr. Jayachandran (Adjunct faculty) | Rakhi Mol KR | |

40. Number of post graduate students getting financial assistance from the university.

| Total no. of students | No. of students sanctioned fellowship | |
|-----------------------|---------------------------------------|---------------|
| | State Govt | MG university |
| 28 | 4 | 24 |

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

Yes, Whenever the Centre takes initiative to start a new program, at first feedback is collected from stakeholders (Alumni, Experts from academia and Industry, Research Institute). This is discussed thoroughly in the faculty council. The recommendations of faculty council are submitted for further action.

42. Does the department obtain feedback from?

| | |
|---|---|
| a) Faculty on curriculum as well as Teaching-Learning-Evaluation? If yes, how does the department utilize the feedback? | Yes, the department collects feedback from Faculty and discussions are conducted in the faculty council Meeting. The deliberations of faculty council meeting are used to improve the Teaching-Learning – Evaluation process. |
| b) Students on staff, curriculum and Teaching-Learning-Evaluation and how does the department utilize the feedback? | Yes, the department collects feedback from students and discussions are conducted in the faculty council Meeting. If the students have any problems faculty members always take steps to solve the problems in the teaching learning – evaluation process |
| c) Alumni and employers on the programmes offered and how does the department utilize the feedback? | Alumni meetings are conducted annually and the feedback is obtained. The alumni members are our ambassadors. |

43. List the distinguished alumni of the department (maximum 10)

| Sl. No | Name | Current Position |
|--------|------------------------|--|
| | Dr. Robin Augustine | National Postdoctoral Fellow, NIT Calicut |
| | Aruni Shaji | Doctoral Fellow, IPF Dresden, Germany |
| | Chithira Kartha | Research Associate Freiburg, Germany |
| | Shibin Thomas | Doctoral Fellow, University Paris 6, France |
| | Anu AS | Analytical Engineer, IIUCNN, Mahatma Gandhi University, Kottayam |
| | Anu K John | Assistant Professor, Bharata Mata College, Trikkakara, Kerala |
| | Dr. Muhammed Ashik U P | Post doc. Japan |
| | Ansuja Mathew | Ph.D, South Korea |

44. Details of student enrichment programmes (special lectures / workshops /seminar) involving external experts.

International and Inter University Centre for Nanoscience and Nanotechnology has organised many national and international conferences, seminars and invited lectures for



the students. The Centre also organises two seminars a week which help the scholars to improve their presentation skills and also give them exposure to the latest findings in the field of Nanoscience and Nanotechnology.

- Seminars twice a week for the students
- Erudite lectures
- Workshops
- Showcasing of research activities.
- Sensitization programmes

International and National invited talk at IIUCNN (2011-2016)

| Date | Name | Title of the talk |
|-------------|--|---|
| 31.10.2016 | Dr. Habeeb Muhammed MA, Department of Physics and Center for NanoScience (CeNS), Ludwig-Maximilians-Universität München, Munich (Germany) | "Hierarchical Gold-Copper Chalcogenide Core Shell Nanoparticle Clusters with Selectable NIR Metal/Semiconductor Plasmon Resonances". |
| 20.10.2016 | Dr. Shiju Raveendran, University of Amsterdam, Netherlands. | "Heterogeneous catalysis and its Applications". |
| 03.10.2016 | Prof. Dr. Clement Sanchez (University of Pierre and Maria Currie, France) | Applications of Hybrid materials |
| 01.10.2016 | Dr. Vivek K Srivastava and Dr. Ganesh C. Basak ,Reliance industries, Vadodara, Gujarat | Recent trends in rubber technology |
| 25.07.2016 | Prof. Dr. Wim Dehaen, University of Leuven, Belgium. | "Hyper branched Polymers based on Isatin and Electron Rich Arenes: Synthesis and Applications". |
| 16.07.2016 | Camille Thevenot, University of de Lorraine in Nancy, France | A piezoelectric polymer material P(VDF-TrFE): elaboration, characterization and applications |
| 14.07.2016 | Dr.Kajal Ghosal, Assistant Professor, Dr. B C Roy College of Pharmacy and AHS, Durgapur, India (currently affiliated to CEITEC,MU, Czech Republic) | Electrospinning: Can polymeric films be plasticized without Plasticizers". |
| 08.07.2016 | Prof. Dr. Dinesh Kumar Kotnees, Head of the Department of Materials Science and Engineering, Indian Institute of Technology (IIT) Patna | "Preferentially fixing nanoclays in the phases of incompatible polymer blend using thermodynamic approach and its effect on physico mechanical properties " |
| 18.06.2016 | Dr Nishar Hameed, Swinburne University of Technology, Australia | " Carbon Fibre – the Material of the Future". |

| | | |
|------------|--|--|
| 18.06.2016 | Dr. Sami Hage-Ali , Associate professor with the micro-nanosystems group (MNS) at Institute Jean Lamour, France | "Applications of silicone based elastomers to flexible radio frequency devices and sensors". |
| 10.06.2016 | Dr. Rosana Maria Assuncao Birth, Institute of the Federal University of Uberlandia, Brazil | Physico chemical properties of starch NR-blends |
| 08.06.2016 | Dr. Daniel Pasquini, Institute of the Federal University of Uberlandia, Brazil | Nano crystals from starch and cellulose |
| 31.05.2016 | Prof. Dr. Zakiah Ahmad (Director, Institute for Infrastructure Engineering and Sustainable Management, Mara) from Malaysia | New frontiers of material science in civil engineering |
| 01.04.2016 | Prof. Dr. Joseph Arul of the University of Laval, Canada | Preservation fresh fruits and vegetables |
| 28.03.2016 | Prof. Nathalie Gontard (Professor, INRA Research Director, Food & Packaging Scientist) from France | Next generation of packaging to increase full system sustainability. |
| 19.02.2016 | Prof. Florian Mormann, MD, Ph.D, Department of Epileptology, University of Bonn, Germany | "The Building Blocks of Memory- The Marilyn Monroe Neuron" |
| 08.02.2016 | Prof. Dr. Joanna Ewa Izdebska Warsaw University of Technology, Poland | Printing On Polymers |
| 20.01.2016 | Prof Francis Lewu, Head of Department, Department of Agriculture, Faculty of Applied Sciences, Cape Peninsula University of Technology, Western Cape, South Africa | Crop and medicinal species conservation, production and utilization |
| 12.01.2016 | Dr. Aji.P.Mathew, Professor, Division of Manufacturing and Design of Wood and Bionanocomposites, Luleå University of Technology, SE 97187, Luleå, Sweden, | Nanocellulose Research |
| 08.12.2015 | Dr Apala Majumdar, Associate Professor (Reader) and EPSRC Career Acceleration Fellow, Department of Mathematical Sciences, University of Bath, Claverton Down Bath BA2 7AY, United Kingdom | Problems in nonlinear elasticity, colloidal systems and nanoparticles systems. |
| 01.12.2015 | Dr. K.I. Suresh (Principal Scientist, Polymers & Functional Materials Division, CSIR- Indian Institute of Chemical Technology, Hyderabad) on the topic | "The Emulsion Polymerization :The Green Approach to Functional Polymers" |



| | | |
|-------------|---|--|
| 12.10.2015 | Prof. Georgi, from Russia | |
| 14.09.2015 | Dr. Venkata Gopal Reddy Chada (Chief Manager- Technology), Asian Paints | Paints and Colours |
| 24.08.2015 | Dr. Gregor Filipič from Slovenia | Plasma for controllable surface modifications and nanosynthesis |
| 09 .07.2015 | Dr. Vinayan B P, Helmholtz Institute Ulm, Karlsruhe Institute of Technology, Germany | Development of suitable electrolyte for metal sulfur battery, fabrication of high capacity and long cyclic stability sulfur electrode materials and different electrochemical phenomenon within this system. |
| 22.06.2015 | Dr. Jacob John | Impact of globalization on national and international affairs. |
| 30.04.2015 | Prof .Vijaya Mohanan Pillai Director, CSIR-CECRI , Central Electrochemical Research Institute, Karaikudi-630003, Tamil Nadu, India | Nanomaterials for Energy Applications |
| 29.04.2015 | Dr. Praveen G. L (University of Kerala) on the topic at 3.00 pm at SCS seminar hall | "Nanocomposites for Biomedical Applications" |
| 21.04.2015 | Volker Ribitsch (University of Graz. Austria) | Modification of Nanocellulose |
| 06.03.2015 | Mohamed Mehdi CHEHIMI Research Director at French CNRS, Leader of the Surface & Interface research team, Université Paris, France | Surface modification clay |
| 30.01.2015 | Dr. Maciej Jaroszewski (Head of High Voltage Laboratory Wroclaw University of Technology, Poland) | Impedance Spectroscopy |
| 26.01.2015 | Prof. Suryasarathi Bose, (IISC, Bangalore) | Advanced Polymer Blends |
| 20.01.2015 | Prof. Benjamin S Hsiao (Department of Chemistry, Stony Brook University, New York) | "Breakthrough Water Purification Technologies based on Nanofibrous Membranes" |
| 22.12.2014 | Prof. Taofik Shittu , Nigeria | Agriculture |
| 11.12.2014 | "Prof. (emerit.) Dr. Werner Mormann, Universität Siegen" | Ionic liquids and cellulose – a perfect green combination |
| 19.11.2014 | AASHISH ROY (Postdoctoral Fellow, Department of Materials Engineering Indian Institute of Science) | Conducting polymers for Sensor applications |
| 1.10.2014 | Prof. Renata Dantas, University of Campinas, Sao Paulo, Brazil | "Ozonation for water and waste water purification" |

| | | |
|------------|--|--|
| 17.09.2014 | Prof. P.M.G.Nambissan, Saha Institute of Nuclear Physics Kolkata | " The Indian legacy of the evolution of science" |
| 22.08.2014 | Dr.Rajesh A. Sheno, University of British Columbia, Vancouver BC, Canada | "Designing multifunctional dendritic polymers for macromolecular therapeutics" |
| 13.08.2014 | Dr. Suresh.S. Pillai of Environmental Nanotechnology Division, Institute of Technology, Sligo, Ireland | "Nano materials for Environmental Application" |
| 31.07.2014 | Dr.T.Sidhu, Dean, Professor, Faculty of Engineering and Applied Science, University of Ontario Institute of Technology, Canada | "Research Opportunities at University of Ontario Institute of Technology, Canada" |
| 24.07.2014 | DR. Ali Kareem al-lami, Misan University, Iraq | "Preparation and Mesomorphic characterization of supramolecular hydrogen bonding dimer liquid crystals" |
| 22.07.2014 | Dr. Salim Albukhaty | "Transfection of NSCs Neural Stem Cells by BDNF gene using Nano Carrier System" |
| 18.07.2014 | Dr.Bharath Rajaram –Application Scientist –TA USA | Recent Trend in Rheological Characterization using Rheometer & DMA |
| 15.07.2014 | Dr. Burkhard Fechner, Coherent GmbH on | "Recent trends in Excimer lasers in PLD and Nano applications" |
| 20.06.2014 | Dr. Chaitanya Lekshmi Indira, Associate Professor, Department of Chemistry, CMR Institute of Technology, Bangalore, | " Nanoscale Heterostructures: Material Design & Functional Property Understanding for Nanoelectronic Applications" |
| 07.04.2014 | Dr. Maya Padivattathu | Multiscale Material Modelling- Approach and Application |
| 27.03.2014 | Dr. Abjith Saha , UGC- DAE Kolkata Centre | Material Sciences |
| 25.03.2014 | Prof. Tamio Endo Mie University, Japan | "Fabrication of La(Ba,Sr)MnO ₃ /ZnO Heterostructures and Electrical Junction/Switching Characteristics" |
| 14.03.2014 | Dr. A. V. Ravikumar, Indian Institute of Plasma Research | "Applications of Accelerators" |
| 28.02.2014 | Dr. Chan Chin Han, University Technology MARA, Malaysia | "Natural Rubber based polymer blends: Thermal and Mechanical properties; and morphologies." |
| 25.02.2014 | Dr. Tamilselvan, Institute of Chemistry, Division of Surface and Interface Science, University of Graz, Austria | "Advanced polysaccharides Composites" |



| | | |
|------------|--|---|
| 22.02.2014 | Dr. Arup Chandra, Apollo tyres | Tyre Engineering |
| 28.01.2014 | Dr. Suresh. G. Adwani, Associate Director, Center for Composite Materials, University of Delaware, USA, | Multi-scale Modeling and Simulation of Composite Manufacturing Processes” |
| 21.01.2014 | G S Murthy (GM, Forevision Instruments, Hyderabad) | Talk on AFM |
| 27.12.2013 | Mr. Shyam Panamoottil, Centre for Advanced Composite Materials (CACM), Auckland, New Zealand | “Multiscale modelling to predict the failure behaviour of flax-fibre composites from fibre, matrix and interface properties” |
| 01.08.2013 | Dr.Nguyen Van Son | "Dispersion of nanoparticles in solution" |
| 25.06.2013 | A K Sinh, Anton Paar, India | "Rheology and its applications" |
| 22.06.2013 | Prof. (Dr) C M. Narayan, Profssor of Chemical Engineering, National Institute of Technology, Durgapur,India | "Biodiesel Synthesis from Micro- Algae oil" |
| 20.06.2013 | Dr. Shams Khwaja, Adjunct Professor of Law, Constitutional Law Lab, USA | "Discovering a Road Map for Nanotechnology law and Regulation for India" |
| 17.06.2013 | Dr. Ramesh | "NMR of Carbon Skeleton" |
| 19.06.2013 | Dr.Achutha Prabhu | "Irreversible aggregation of patchy colloidal particles: A computer simulation study" |
| 18.05.2013 | Dr. Rajan Babu (The Ohio State University U S A) | “Asymmetric Catalyzed Reactions of Alkenes and Small Ring Compounds” |
| 06.07.2012 | Dr. Aji P Mathew, Division of wood and Bionanocomposites, Lulea university, Sweden | Bionanocomposites |

45. List the teaching methods adopted by the faculty for different programmes.

Flipped classroom lectures, online class room, Lecture, discussion, demonstration, simulation, industrial visit and seminars.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

The department conducts exams consisting of two internal and an external every semester which is carefully evaluated by the teachers. Moreover surprise quizzes and viva voce based on their laboratory experiments are also conducted.

47. Highlight the participation of students and faculty in extension activities.

- Prof Sabu Thomas has delivered a series of lectures on green farming catering to the need of nanotechnology for enhancing crop productivity. The lectures were organised specifically for the farmers in Kaduthuruthi Village , Kottayam district.
- Another lecture series on plastic waste recycling was organised for creating awareness of plastic waste disposal and reuse of plastic materials for other day to day applications, Kaduthuruthi Village , Kottayam district
- Prof Thomas has given special lectures to school students at Kendriya Vidyalaya Kottayam so as to make the students understand about the basics of nanotechnology.
- Prof Nandakumar has also proactively delivered lectures on Nanotechnology and Nanoscience for various schools in Kottayam district and Thrissure District
- Visited old age home and orphanage at Kottayam

48. Give details of “beyond syllabus scholarly activities” of the department.

1. Conducted a competition for college students on paper presentation.
2. Professor Sabu Thomas, Dr. Nandakumar Kalarikkal, faculties of International and Inter University Centre for Nanoscience and Nanotechnology had conducted many lectures in colleges and schools in India as a part of promoting Nanoscience and Nanotechnology.
3. Conducted student outreach programme at KE School Mannanam for promoting research in Science.
4. Centre regularly conducting workshops, National and International Conferences
5. Erudite lectures and talks by visitors are also beyond syllabus scholarly activities of centre
6. We are offering MOOC programs for the college students

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.: No

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied: The centre is conducting high level advance research in the following areas

- Polymer nanocomposites for water purification
- Polymer blends and composites
- Polymeric nanocomposites for electronic application such as sensing, EMI shielding, etc
- Elastomeric nanocomposites for neutron shielding application
- Polymeric nanocomposites for packaging application
- Nanostructured polymer blends and composites
- Biopolymeric material for wound healing application



- Polymer Quantum Dot for cell imaging application
- Synthesis and characterization of polysaccharides and various technological application
- Photovoltaic solar cell

All these studies lead to large number of international refereed journal articles and patents. Some of our research lead to the development of devices. The high impact publication, patent and products are the best examples for our contribution towards knowledge production both basic and applied. The Centre also collaborate with MRF Tyre, Apollo Tyre, Surface Treat, Czech Republic and General Cables, USA to commercialise our research findings

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strength:

- Multidisciplinary subjects and faculty.
- Students from multidisciplinary subjects.
- Sophisticated instrument facility
- Strong teacher pupil relationships and Community extension activities.
- High impact publications and International collaborations

Weakness:

- Deficiency in Permanent Faculty. Right now Centre is running by faculty from physics, chemistry and post.doc. Request has been made to the university and Govt. of Kerala for the permanent faculty.
- Lack of enough space. Right now centre is running at the premises of School of Pure and Applied Physics (SPAP) and School of Chemical Sciences (SCS). A permanent building (Convergence Academia Complex) is under construction and is expected to complete within one year

Opportunities:

- There are enormous opportunities for the students to specialize in the areas of Nanoscience and Nanotechnology (Nano medicine, Nanocomposites, Nanoscience for Environment, Nano-catalysts, Nano-scaffold etc.)
- Students of the Centre have numerous opportunities for doing Ph.D and Post Doc. studies abroad
- Excellent opportunities for international networking and collaborations

Challenges

- Dual Ph.D and dual master degree programme with universities abroad.
- International ranking of the centre.
- Full time international students for master and Ph.D programme.
- Elevation of the Centre into a full-fledged school having five different division

- Division on Nanomaterials and Hybrid Composites
- Division on Nano for Energy
- Division on Nano Food Security
- Division on Nano for Health and Medicine
- Division on Nano for Environment
- Division on Ethical and Toxicity aspects of Nanoscience and Nanotechnology

52. Future plans of the department:

- Fabrication of large number of nano devices in collaboration with industries.
- Start-up of Incubation centre.
- Large scale consultancy activities for nanoscience and nanotechnology.



ADVANCED CENTRE OF ENVIRONMENTAL STUDIES AND SUSTAINABLE DEVELOPMENT (ACCESSD)

| | | | |
|-----|--|---|--|
| 1. | Name of the Centre | : | Advanced Centre of Environmental Studies and Sustainable Development (ACCESSD) |
| 2. | Year of establishment | : | 2009 |
| 3. | Is the Department part of a School/Faculty of the university? | : | Yes, Faculty of Environmental and Atmospheric Sciences & Faculty of Science |
| 4. | Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) | : | Ph. D Programme |
| 5. | Interdisciplinary programmes and departments involved | : | Interdisciplinary Scientific Research including Chemistry, Environmental Science, Forestry, Human Ecology, Social Sciences and Life Sciences. |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc. | : | Nil |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil |
| 8. | Examination System | : | N.A |
| 9. | Participation of the department in the courses offered by other departments: | : | 1. Teaching MSc, MPhil and Ph.D programmes in School of Environmental Sciences 2. Teaching MPhil Human Ecology & Natural History in School of Social Sciences |
| 10. | Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | : | The Centre is functioning with an Honorary Director and two Research Coordinators. |


11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./ M.Phil. students guided for the last 6 years |
|--------------------|---------------|--|---|----------------------------|--|
| Prof. A. P. Thomas | Ph.D | Hon. Director | Environmental Science, Life Sciences | 45 | 7 Ph.D awarded, 9 Ph.D students working and 7 M.Phil completed |
| Dr. K.Usha | Ph.D | Research Coordinator (Science) | Environmental Chemistry, Analytical Chemistry | 18 | 2 Ph.D awarded and 8 students working, 3 M.Phil completed |
| Dr. G. Christopher | Ph. D | Research Coordinator (social Sciences) | Human Ecology, Ethnobiology | 18 | 2 M.Phil completed 5 Ph.D students working |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

| SL. No | Visiting Fellows, adjunct faculty, emeritus professors | Specialization |
|--------|---|---|
| 1. | Prof. Yoram Oran, Department of Desalination and Water Treatment, Zuckerberg Institute for Water Research, Blaustein Institutes for Desert research, Ben-Gurion University of the Negev, Israel | Membrane filtration, water treatment, ion exchange, electrochemical treatment |
| 2. | Prof. Mark Weisner, Centre for Environmental Implication of Nanotechnology, Duke University, Durham | Membranes, fuel cell, nanotechnology, nanoparticles in water |
| 3. | Prof. Len Reitsman, Plymouth State University, New Hampshire, USA | Conservation Biology, Avian Ecology |
| 4. | Dr. Mark Green, Plymouth State University, New Hampshire, USA | Watershed management and Forestry |
| 5. | Dr. Sally Nhomy, Honalulu, Hawaii, USA | Tribal Education, Child welfare |
| 6. | Prof. Vladimir Teplyakov, Russian Academy of Sciences, Russia | Membranes, energy, gas separation |



| | | |
|-----|--|--|
| 7. | Dr. Whitney, Plymouth State University, USA | Medieval History |
| 8. | M.R. Hoffman, California Institute of Technology, USA | Advanced oxidation process, sanitation, free radical chemistry |
| 9. | G.M. Anilkumar, Noritake Company Ltd, Japan | Membranes, energy, fuel cell |
| 10. | Dr. J. M. Julka, Former Principal Scientist, Zoological Survey of India | Earthworm Taxonomy and Biodiversity |
| 11. | Dr. Sulthan Ahmed Ismail, Ecoscience Research Foundation, Chennai | Environmental Conservation, Vermi culture and Earthworms |
| 12. | Dr. K.V. Lazar, Department of Environmental Science, Central University of Kerala | Biotechnology, Genomics |
| 13. | Dr. Anand Krishnan Plapally, Dept. of Mechanical Engineering, IIT, Jodhpur. | Water treatment, Indigenous technology |
| 14. | Dr. A. A. Mohamed Hatha, Cochin University of Science and Technology, Cochin | Microbiology |
| 15. | Dr. Anitha Pius, Dept. of Chemistry, Gandhi Gram Rural Institute, Deemed University, Tamil Nadu. | Membranes, water, sanitation |
| 16. | Dr. Pushpito Ghosh, Director CSMCRI, Gujarat | Membrane processes, RO and NF, Water treatment, Solar energy |
| 17. | Dr E. J. James, Director, Water Institute, Karunya University, Coimbatore, Tamil Nadu | Water, Watershed management, Rivers and Wetlands |
| 18. | Dr. Sabu Joseph, University of Kerala, Trivandrum | Environmental Science |
| 19. | Babu Alappat, IIT Delhi, India | Waste management |
| 20. | Dr. Girish Kumar, Cochin university of Science and Technology, Cochin | Sensors, photochemistry |
| 21. | Dr. A.P. Pradeepkumar, University of Kerala, Trivandrum | Geoscience, Disaster management |
| 22. | Dr. C.T. Aravindakumar, School of Environmental Sciences, M.G. University | Advanced oxidation process, mass spectrometry, water chemistry and air |
| 23. | Dr. E.V. Ramasamy, School of Environmental Sciences, M.G. University | Environmental Biotechnology, Waste Management |
| 24. | Dr. Mahesh Mohan, School of Environmental Sciences, M.G. University | Environmental Science, Pollution studies |
| 25. | Dr. Syllas V.P., School of Environmental Sciences, M.G. University | Environmental Science, Biofuels, Wetland studies |



- 13. Percentage of classes taken by temporary faculty – programme-wise information:**
Not Applicable

14. Programme-wise Student Teacher Ratio:

| Programme | Student Teacher Ratio |
|-----------|-----------------------|
| Ph.D | 7:1 |

- 15. Number of academic support staff (technical) and administrative staff (sanctioned, filled and actual):**

| | Sanctioned | Filled and actual |
|----------------------|------------|-------------------|
| Technical | 1 | 1 |
| Administrative Staff | 1 | 1 |

16. Research thrust areas as recognized by major funding agencies

- Climate Change Studies
- Green Chemistry and Technology
- Pollution Studies and Management
- Earthworm Studies
- Human Ecology and Conservation
- Biodiversity and Natural History
- Sustainable Development

- 17. Number of faculty with ongoing projects from a) national b) international funding Agencies and c) Total grants received. Give the names of the funding agencies, Project title and grants received project-wise:**

a) National

| Sl. No. | Funding Agencies | Project title | Total Fund in Lakhs(₹) |
|---------|-------------------------|--|------------------------|
| 1. | KSCSTE, Govt. of Kerala | Polyelectrolyte multilayer membrane for the treatment of paper mill effluent | 26.00 |
| 2. | DST | Nano skinned coir matrix for the removal of biological contaminants from water | 31.09 |

b) International: Nil

c) Total grants received: ₹ 57.09 Lakhs



18. Inter-institutional collaborative projects and associated grants received

- a. National collaboration: Nil
b. International collaboration :

| No. | Collaboration | Project title | Total Fund in Lakhs |
|-----|---|---|------------------------|
| 1. | Obama-Singh 21 st Century Knowledge Initiative programme - between US Universities (Duke University & Plymouth state University) and Mahatma Gandhi University | An interdisciplinary and community oriented innovative approach towards sustainable development | 42.00 |
| 2. | Network project between Department of Energy Conversion and Storage, Technical University of Denmark (DTU) and Mahatma Gandhi University (MGU) (for five years) | Nanofiber structures for efficient enzyme immobilization in membrane applications | 4.26 (For one year) |

Total grants received: ₹ 46.26 Lakhs

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received:

Nil

20. Research facility / centre with

- **State recognition:** Yes
- **National recognition:** Yes
- **International recognition:** Nil

21. Special research laboratories sponsored by / created by industry or corporate Bodies: Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|---|------------|
| 1. | Refereed Journal Publications | 61 |
| 2. | Monographs | 0 |
| 3. | Conference Proceedings (international/national) | 196 |
| 4. | Chapters in Books | 3 |
| 5. | Edited Books | 13 |
| 6. | Books authored with ISBN | 8 |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| 9. | Total | 281 |

Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) Nil

Citation Index – range / average : 300-650

Impact Factor – range / average : 1-7

h-index : 6-14

23. Details of patents and income generated: Nil

24. Areas of consultancy and income generated:

1. Chemical Analysis
2. Biodiversity Survey
3. Training programme in analytical Instrumentation

Income generated

| Sl. No. | Year | Income in Lakhs (₹) |
|---------|-------------|---------------------|
| 1. | 2011 - 2015 | ₹ 1.20 |

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad:

| Sl. No. | Name of the faculty | Laboratory/ Research area |
|---------|---------------------|--|
| 1. | Prof. A. P. Thomas | 1. Natural History Museum, London (2012) 2. Pondicherry Central University (2011) 3. Bharathiyar University, Coimbatore (2012) |
| 2. | Dr. K. Usha | 1. National centre for Antarctic and Ocean Research, Goa, 2016 2. Indian Institute of Technology, Delhi, 2013 3. Thaper University, Punjab, 2013 4. Karunya University, Tamilnadu, 2012 5. University of Paris (S) / AOP, 2012 6. University of Rouen, Membrane Technology, France, 2012 7. Thonburi, Thailand, .2012 / Water purification 8. University of Copenhagen 2015 / Mass spectrometry |
| 3. | Dr. G. Christopher | 1. Natural History Museum, University of California at Santa Barbara (2015) 2. Hubbard Brook Experimental Forest Outdoor Laboratory, New Hampshire (2015) 3. Department of Engineering and Innovation, Brown University, Rhode Island (2015) 4. Centre for Cellular and Molecular Biology, Hyderabad (2025) 5. National Institute of Animal Welfare (2016) |



26. Faculty serving in

a. National committees

| Sl. No. | Name of the faculty | Committee |
|---------|---------------------|--|
| 1. | Prof. A. P. Thomas | Member, Expert Committee, Association of Indian Universities (2011) |
| | | Chairman, Indian Leadership Team, 'Rainwater for Humanity' (International Collaborative Programme) |
| 2 | Dr. K. Usha | Member: Indian membrane Society (Life Member) |
| 3 | Dr. G. Christopher | Govt. of India Nominee in the Committee for the Purpose of Control and Supervision of Experiment on Animals (CPCSEA) |

b. International committees

| Sl. No. | Name of the faculty | Committee |
|---------|---------------------|--|
| 1 | Prof. A. P. Thomas | Member, Bat Conservation International |
| 2 | Dr. K. Usha | Nil |
| 3 | Dr. G. Christopher | Nil |

c. Editorial Boards

| Sl. No. | Name of the faculty | Journal |
|---------|---------------------|---|
| 1 | Prof. A. P. Thomas | <ul style="list-style-type: none"> • Member, Editorial Board, <i>Journal of the Zoological Society of Kerala</i> • Managing Editor, '<i>Bulbul</i>' (an environmental bimonthly) • Member, Editorial Board, '<i>Tree India</i>' (An Environment Journal) • Editor of 4 books published by ACESSD, M.G. University. • General Editor of 13 books (Eco book series) published by the Tropical Institute of Ecological Sciences (TIES). |
| 2. | Dr. K. Usha | Reviewer in: <ul style="list-style-type: none"> • Journal of Membrane Science • Colloids & Surfaces A., • J. Biomaterial Science • Langmuir • Biosensor Bioelectronics |
| 3. | Dr. G. Christopher | Nil |



d. Any other

| Sl. No. | Name of the faculty | Committee |
|---------|---------------------|---|
| 1 | Prof. A. P. Thomas | <ul style="list-style-type: none"> • Expert member, District Environmental Impact Assessment Authority • Member, Kerala State Pollution Control Board • Member, Planning Board, Pondicherry Central University • Member, Academic council, Pondicherry Central University • Member, Environment Commission of KCC • Member, Director Board, Leptospirosis Institute of Kerala • Patron and Member of Director Board, Tropical Institute of Ecological Sciences • Chief, Employment Information and Guidance Bureau, M. G. University • Member, Expert Committee, Association of Indian Universities • Member, Academic Council, CMS College Kottayam (Autonomous) • Member, PG Board of Studies, Calicut, Kerala, Cochin, Bharathiyar Universities • Member, Committee for revamping the research sector in universities of Kerala. |
| 2 | Dr. K. Usha | <ul style="list-style-type: none"> • Member, Technical Committee, Suchithwa Mission, Government of Kerala |
| 3 | Dr. G. Christopher | <ul style="list-style-type: none"> • Member, International Ethnobiological Society • Member, Board of studies for Forestry, Kannur University • Member, IBCN – Indian Bird Conservation Network • Expert Member, Madras Naturalists Society • Life Member, Malabar Natural History Society |

27. Faculty recharging strategies (UGC, ASC, Refresher/orientation programs, workshops, training programs and similar programs)

Nil



28. Student projects:

| | |
|--|----------------|
| <ul style="list-style-type: none"> percentage of students who have done in-house projects including interdepartmental projects: | Not applicable |
| <ul style="list-style-type: none"> percentage of students doing projects in collaboration with other universities / industry / institute: | Not applicable |

A number of students from colleges within and outside Kerala and from different departments in the university campus have done short term projects using the advanced facilities in ACESSD. The list is given below:

| SL. No. | Name | Course | Institution | Title of the Project | Year |
|---------|--------------------|--------|--|---|------|
| 1. | Renuka R. | M.Phil | School of environmental Sciences, M. G. University | The role of earthworms in soil carbon dynamics under a microcosm study | 2012 |
| 2. | Anand Raj | M.Phil | IITMK Thiruvanthapuram | Vegetation carbon pool assessment of tree outside forest in Kottayam district, Kerala, India. | 2011 |
| 3. | Ashalakshmi C N | M.Phil | School of environmental Sciences, M. G. University | A study on the stress effect of organophosphorus pesticide, ethion on earthworm <i>Perionix excavatus</i> : a molecular approach | 2014 |
| 4. | Sethulakshmi Bhai | M.Phil | School of environmental Sciences, M. G. University | Studies on the antibacterial and antifungal potentialities of local earthworms | 2013 |
| 5. | Soumya Lakshmi P.S | M.Sc. | School of environmental Sciences, M. G. University | A study on the role of two earthworm species, <i>Perionix ceylanensis</i> and <i>Pontoscolex corethrusus</i> on the decomposition of rubber leaf litter | 2014 |
| 6. | Athira S. Kumar | M.Sc. | School of environmental Sciences, M. G. University | A study on the role of two earthworm species, <i>P. corethrusus</i> and <i>M. konkanensis</i> on soil fertility | 2014 |
| 7. | Feba Merin | M.Sc. | School of | Soil carbon dynamics of | 2013 |



| | | | | | |
|-----|---|-------|--|--|------|
| | Chacko | | environmental Sciences, M. G. University | multiple landuse categories | |
| 8. | Jeeva M. Philip, Pravya Jayaraj C.V. and Thafna K.K | M.Sc. | School of environmental Sciences, M. G. University | Household Consumption Pattern of Selected Resources in Ernakulam and Kannur districts – A Comparative Assessment | 2012 |
| 9. | Sruthy S, Thafna K.K, Pravya Jayaraj C.V. | M.Sc. | School of environmental Sciences, M. G. University | Household consumption of water: a study conducted in selected areas in Kerala | 2012 |
| 10. | Mary Jency | M.Sc. | School of environmental Sciences, M. G. University | Household Consumption Pattern of Selected Resources in Ernakulam and Kottayam districts - A Comparative Assessment | 2013 |
| 11. | Charusree C.S, Ambily V | M.Sc. | School of environmental Sciences, M. G. University | Status of plantation crops in India and Kerala: Production and consumption | 2012 |
| 12. | Febby Payva, Raisa Kabeer | M.Sc. | School of environmental Sciences, M. G. University | Food consumption pattern in India and Kerala – A comparative assessment | 2012 |
| 13. | Renuka R, Neethu Joy | M.Sc. | School of environmental Sciences, M. G. University | Electrical energy consumption in India and in Kerala - A sustainability assessment | 2012 |
| 14. | John Richard Thomas, Prveen | M.Sc. | School of environmental Sciences, M. G. University | Rural household consumption pattern in Pathanamthitta and Alapuzha districts – A Comparative Assessment | 2012 |
| 15. | Mary Lidiya Mathew | M.Sc. | School of environmental Sciences, M. G. University | An Investigation on the Removal of Reactive Dyes using Polysaccharide Based Membranes | 2013 |
| 16. | Athullya M. K. | M.Sc. | School of environmental Sciences, M. G. University | Investigation of food additives in soft drinks | 2014 |
| 17. | Bijon | M.Sc | School of environmental Sciences, M. G. University | Analysis of the Possible Presence of Endocrine Disrupting Chemicals from Packaged Beverages | 2014 |



| | | | | | |
|-----|-------------------|--------------------------|--|--|------|
| 18. | Anjali Venukumar | M.Sc | School of environmental Sciences, M. G. University | An Assessment on Feasibility of Toilet Linked Biogas System as a Zero Septage Approach | 2014 |
| 19. | Group Project | B.Tech | SCMS School of Engineering and Technology, Karukutty | Development of composite membranes based on different polyelectrolytes, their post treatment morphological changes | 2014 |
| 20. | Karthika Bose | M.Tech Civil Engineering | SCMS School of Engineering and Technology, Karukutty | Development of polyelectrolyte membrane as proton exchange membrane for fuel cell application | 2015 |
| 21. | Irene Anna | M.Tech Civil Engineering | SCMS School of Engineering and Technology, Karukutty | Enhancement of membrane property for the removal of reactive dyes from textile effluent | 2015 |
| 22. | Nigitha Jacob | M.Phil | St. Joseph's College, Trichy | Development of heterogeneous multilayers on PVDF membranes | 2015 |
| 23. | Revathi | M.Sc | Baselius College, Kottayam | Multi spectroscopic study of human serum albumin with tuberculosis drug para amino salicylic acid and its n-acetyl metabolite | 2015 |
| 24. | Sreelakshmi | M.Sc | Baselius College, Kottayam | Wettability of PEI/PSS multilayer coated hydrophobic PVDF membranes | 2015 |
| 25. | Ashalakshmi C. N. | M.Phil. | School of environmental Sciences, M. G. University | A study on the toxic effects of ethion, an organophosphorous pesticide on earthworm Perionyx ceylanensis Michaelson 1903: An analytical approach | 2015 |
| 26. | Anjali Venugopal | M.Phil. | School of environmental Sciences, M. G. University | Assessment on Viral Outbreaks, Dengue and Chikungunya in Kottayam District for the Past Four Years and their Environmental Causes | 2016 |
| 27. | Athullya M. K. | M.Phil. | School of environmental Sciences, M. G. | Grey Water Production, Occurance of Micropollutants and its | 2016 |



| | | | University | Removal using Multilayer Membranes | |
|-----|-----------------|------|-------------------------------------|--|------|
| 28. | Ann Mary Antony | M.Sc | St. Stephen's College, Pathanapuram | Preliminary studies on calcium mineralization using nanostructured multilayer's | 2016 |
| 29. | Akshaya Jose | M.Sc | St. Stephen's College, Pathanapuram | Surface coated microfiltration membrane in the removal of modern emerging contaminants from water | 2016 |
| 30. | Aneesh Danam | M.Sc | St. Stephen's College, Pathanapuram | UPLC-Q-ToF/MS Analysis of Sediment Samples of a Selected Backwater Canal of Kottayam District for the Possible Presence of Weedicides and its Metabolites. | 2016 |
| 31. | Ajay S | M.Sc | St. Stephen's College, Pathanapuram | Sonochemical degradation of Beta Blockers, propranolol; A model Compound in Aqueous Medium | 2016 |

29. Awards / recognitions received at the national and international level by

- Faculty

Nil

- Doctoral / post doctoral fellows:

| Doctoral Fellow | Details |
|-----------------|--|
| Jisha C | Best paper in the International conference on Nano -biomaterials, Kottayam, 2014. |
| G. Akhil | Young scientist award, in the 26 th Kerala Science congress. 2014 |
| | Best paper award in the 5 th Asian Conference on Colloid and Interface Science, University of North Bengal, Darjeeling. 2013 |
| | Best paper award in the International Conference on Water: from pollution to purification, Kottayam, Kerala, Jan. 23-26, 2015. |
| Sijumon V.A | Best poster award in the National symposium on radiation and photochemistry, NSRP-2013, Shillong, March 20-22, 2013 |
| | Best poster award in the National seminar on sustainable development: recent trends in meeting the challenges, NSSD-2012, Kottayam, 2012 |
| | Best poster award in the National seminar on green chemistry-The ultimate tool for pollution control, Kottayam, 2012. |



30. Seminars/ Conferences/Workshops organized and the source of funding (national/ international) with details of outstanding participants, if any

| Year | Seminars/ Conferences/Workshops | Source of funding | outstanding participants |
|------|---|--|--|
| 1. | International Conference on Advanced Oxidation Process in collaboration with Centre for Environment Education and Technology (CEET), (AOP-2010)-September 18-21, 2010, Kottayam | MoEF, BRNS, CSIR | <ul style="list-style-type: none"> • M.R. Hoffmann, California Institute of Technology, USA • Ramaiah D, NIIST, Kerala • Belloni J, University Paris South, France |
| 2. | National Conference on Native Livestock breeds and their sustainable uses in collaboration with Vechoor Conservation Trust and National Biodiversity Authority, September 27- 28, 2010, Kottayam) | Vechur Conservation Trust, Kerala | <ul style="list-style-type: none"> • Dr. Sosamma Iype, Kerala Agricultural University • Dr. Azim Bhattobyal, Joint Commissioner, Department of Animal Husbandry, Dairying & Fisheries • Pramod G. Krishnan, IFS, UNDP |
| 3. | International conference on membranes: Environmental and biological applications-(ICM-2011) September 16-19, 2011, Kottayam | CSIR, DST, BRNS | <ul style="list-style-type: none"> • Ashok M. Raichur, Indian Institute of Science, Bagalore • F. Thominette ENSAM, Paris • G. Pugazhenth, IITG, Guwahati, India |
| 4. | Workshops on Science and Traditional Practices Marma Vaidya (April 30th and May 1st, 2011) | IUCSSRE (Inter University Centre for Social Science Research and Extension | <ul style="list-style-type: none"> • Dr. P.K. Sasidharan, Sreesankara University, Kalady • Dr. Prakasan Gurukkal, Athmaraksha Kalari gurukulam, Kollam • Dr. Sanal Mohan, IUCSSRE, M.G. University • Dr. Amruth M., Scientist, KFRI. |
| 5. | Workshops on Science and Traditional Practices b) Shelters- the relevance of Vastu (May 16, 2011) School of Environmental Sciences, Mahatma Gandhi | ACESSD | <ul style="list-style-type: none"> • Dr. P.V. Ouseph, department of Vastu Vidhya, Sreesankara university, Kalady • Sri. R.V. Achari, |



| | | | |
|----|---|--|--|
| | University, Kottayam, Kerala. | | <p>Fellow, Indian Institute of Structural Engineers, Bangalore</p> <ul style="list-style-type: none"> • Dr. G. Gopikuttan, Chairman, Working group on Housing for 11th five year plan • Prof. Kesavan Veluthat, Former Professor, Delhi University. |
| 6. | National conference on Disaster risk and vulnerability, School of Environmental Sciences, Mahatma Gandhi University, Kottayam, Kerala, 2011 | National Disaster management Authority, MoES, DST | <ul style="list-style-type: none"> • Dr. T.V. Ramachandra, IISC Bangalore, • Bhattacharya R, Atomic Energy Regulatory Board, Mumbai • Ansari j, NIIST, Trivandrum |
| 7. | Second International conference on Advanced Oxidation Process, October 5-8, 2012, Kottayam. | Board of Research in Nuclear Science (BRNS) ISRO, CSIR | <ul style="list-style-type: none"> • W. Choi, Pohang University of Science and Technology, South Korea • D. Bahnemann, Leibniz University of Hannover, Germany • S.K. Sarkar, BARC, Mubai |
| 8. | National Conference on Conservation and Management Of Wetland Ecosystems, In Association with SES, MGU, Kottayam, November 6-9, 2012. | CSIR, MoES, MoEF, DoECC, KSCSTE | <ul style="list-style-type: none"> • Dr. T.V. Ramachandra, IISC Bangalore, • Dr. V.S Vijayan, Former Director SACON • Dr. S. Narendraprasad, International Institute of Information Technology, Hyderabad |
| 9. | National seminar on sustainable development – recent trends in meeting the challenges, School of | Directorate of Environment and Climate Change, | <ul style="list-style-type: none"> • Dr. T.V. Ramachandra, IISC Bangalore, |



| | | | |
|----|--|---|--|
| | Environmental Sciences, Mahatma Gandhi University, Kottayam, Kerala, January 20-21, 2012, Kottayam. | Govern of Kerala | <ul style="list-style-type: none">• Dr. Sultan Ahmed Ismail, Ecoscience Research Foundation, Chennai• Dr. R. Ajaykumar Varma, Scientist, NCESS, Trivandrum |
| 10 | International conference on membranes (ICM-2013), October 3-6, 2013, Kottayam. | CSIR, DRDO, BARC | <ul style="list-style-type: none">• Mark R. Weisner, Duke University, USA• Quang Trong nguyen CNRS-Rouen University, France• Takeo Yamaguchi, Tokyo Institute of Technology, Japan |
| 11 | Seminar on Conservation of Western Ghats, School of Environmental Sciences, Mahatma Gandhi University, Kottayam, Kerala, 16th December 2013. | ACESSD | <ul style="list-style-type: none">• Dr. V.S. Vijayan, Former Director, SACON• Prof. Jose J. Ozhukayil, Nirmala college, Muvattupuzha• Dr. A.V. George, Former V.C., M.G. University |
| 12 | Third International Conference on Advanced Oxidation Processes (AOP 2014) Sept. 25-28, 2014, Munnar, Kerala. | DoECC, CSIR, DST | <ul style="list-style-type: none">• J.P. Mittal, BARC, Mumbai• L. Gomathi Devi, Bangalore University, Bangalore• Minjoong Yoon, Chungnam National University, Korea |
| 13 | International Conference on Water: from pollution to purification (ICW - 2015) Jan. 23-26, 2015, Kottayam, Kerala | Defense and Development Organization (DRDO), Board of Research in Nuclear Science (BRNS) | <ul style="list-style-type: none">• Dipankar Chakraborti, Jadavpur University, Kolkata, India• Dayanthi Nugegoda, RMIT University, Australia• Olfa Mahjoub, National Research Institute for Rural Engineering, Water and Forestry, Tunisia |



| | | | |
|----|---|---|--|
| 14 | National workshop on applications of membranes in energy and water purification (NWM2015) Aug. 20-21, 2015 | Toshniwal, India Defense and Development Organization (DRDO) | <ul style="list-style-type: none"> • Andreas Kaiser, Technical university of Denmark, Denmark • Jacelyn Rice, Duke University, USA |
| 15 | International Conference on Membranes (ICM - 2015) Aug. 21-24, 2013, Kochi, Kerala | Anton Paar, India Toshniwal, India Defense and Development Organization (DRDO) | <ul style="list-style-type: none"> • Vladimir Teplyakov, Russian Academy of Science, Russia • Gianni Golemme, University of Calabria, Italy • Balagopal Nair, Noritakeco, Ltd, Aichi, Japan |
| 16 | National Workshop on Mass Spectrometry and Raman Microscopy, March 27-28, 2015, Kottayam | ThermoFisher Scientific Waters India | <ul style="list-style-type: none"> • S. Prabhakar, ICT, Hyderabad • Hitesh Mamgain, Toshniwal Pvt Ltd, Bangalore |
| 17 | International Conference on Mass Spectrometry, December, 11-14, 2015, Kottayam | DRDO, DST-SERB, KSCST, Thermofischer | <ul style="list-style-type: none"> • Michael W. Linscheid, Humboldt University, Berlin, Germany • Laurent Debrauwer, University of Toulouse, France • Venkateswarlu Panchagnula, NCL |
| 18 | National Workshop on Mass Spectrometry, December 10-11, 2015, Kottayam | Thermo Fisher Scientific, Indian Space Research Organisation (ISRO) | <ul style="list-style-type: none"> • Mahesh J. Kulkarni, National Chemical Laboratory, Pune • V. Nadaraju, Baba Atomic Research Centre, Mumbai. |
| 19 | International Conference on Water: from pollution to purification (ICW - 2016) Dec. 12-15, 2016, Kottayam, Kerala | Kerala State Council for Science, Technology and Environment (KSCSTE), Defense and Development Organization (DRDO), Board of Research in Nuclear Science (BRNS) | <ul style="list-style-type: none"> • Jacob de Boer, Professor VU University, The Netherlands, • S. Vigneswaran, University of Technology, Sydney, Australia • G.G Pandit, BARC, Mumbai, India |



31. Code of ethics for research followed by the departments:

- Plagiarism will be assessed before thesis submission and submission of research papers for publication.
- The guidelines of the ethical committee of the University are being strictly followed (e.g. Animal Ethical Committee for all kind of research related to living organisms)

32. Student profile programme-wise:

| Name of the Programme (refer question no. 4) | Applications received | Selected | | Pass percentage | |
|---|---|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| Ph.D | Direct entry after clearing JRF, M.Phil and other qualifying examinations | 16 | 15 | 37% | 20% |

33. Diversity of students

| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|--|--|--|---|------------------------------------|
| Ph.D | 40 | 60 | Nil | Nil |

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise:

| Sl.No. | Name of Student | Test Qualified | Specify (State/National/International) |
|--------|--------------------|-----------------|---|
| 1. | Dr. Disha V.J | CSIR- JRF | National |
| 2. | Akhil G | CSIR- NET, GATE | National |
| 3. | Subha Sasi | KSCSTE | State |
| 4. | Manjumol Mathew | CSIR- JRF | National |
| 5. | Shalumon C.S | UGC- NET | National |
| 6. | Mary Lidiya Mathew | KSCSTE | State |
| 7. | Elvin Thomas | CSIR- JRF | National |

35. Student progression :

| Student progression | Percentage against enrolled |
|---|-----------------------------|
| UG to PG | NA |
| PG to M.Phil. | NA |
| PG to Ph.D. | NA |
| Ph.D. to Post-Doctoral | Nil |
| Employed Campus selection Other than campus recruitment | 100% |
| Entrepreneurs | |

36. Diversity of staff

| Percentage of faculty who are graduates | |
|--|-----|
| of the same university | |
| from other universities within the State | 67% |
| from universities from other States | 33% |
| from universities outside the country | Nil |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: Nil**38. Present details of departmental infrastructural facilities with regard to**

| | |
|---|---|
| a) Library | 393 Books |
| b) Internet facilities for staff and students | Available for staff and students |
| c) Total number of class rooms | 1 |
| d) Class rooms with ICT facility | Yes |
| e) Students' laboratories | Nil |
| f) Research laboratories | 4 <ul style="list-style-type: none"> • Analytical Lab • Biodiversity Lab • Ecology and Climate change Lab • Molecular biology Lab |

List of major equipments

1. Field Spec Had Held Spectro-radiometer
2. Ion Chromatograph
3. Peristaltic Pump
4. Total Organic Carbon Analyzer
5. GPS GPSMAP76CSX
6. GPS eTrex 30
7. GPS eTrex 20
8. Canon EOS 7D DSLR
9. Binocular stereo Microscope
10. Membrane filtration Unit dead end
11. Membrane filtration unit Cross flow
12. Chilled Water Circulator
13. Trinocular Stereo Zoom Microscope
14. Vacuum Oven
15. Impedance analyzer
16. Microbalance
17. COD Meter
18. Nikon Trinocular Stereo Zoom Microscope with Digital Camera and Drawing Tube
19. Automated Soil Respiration System and Accessories
20. Invitrogen – VERITI 96W Thermal Cycler Gradient PCR



21. Elcometer 4340 Motorised
Film Applicator
22. Cooling Centrifuge

23. Gel electrophoresis system
24. CO₂ incubator

39. List of doctoral, post-doctoral students and Research Associates

| Name of Guide (with contact no.) | Name of Scholar | Subject/ Specialization |
|---|--|---|
| Dr. K. Usha | Disha V.J (Ph.D Awarded) | Chemistry |
| | Divyalakhmi T.V (Ph.D Awarded) | Chemistry |
| | Nikhil Chandra P. | Chemistry |
| | Akhil G | Chemistry |
| | Subha Sasi | Environmental Science |
| | Manjumol Mathew | Chemistry |
| | Misha T. Elias | Chemistry |
| | Shalumon C.S | Environmental Science |
| | Dr. Sathish Kumar | Environmental Science (Rheumatology) |
| | Lidiya Mary M. | Environmental Science |
| Dr. G Christopher | Veena George M | Environmental Science |
| | Banazair O.A | Environmental Science |
| | Binu N. Kamalolbhavan | Forestry |
| | Malik Fasil M | Forestry(wildlife science) |
| | Aneesh K.S. | Forestry |
| Prof. A.P. Thomas | Prasanth Narayanan (Ph.D Awarded) | Environmental Science |
| | Koshy P.M (Ph.D Awarded) | Environmental Science |
| | Sukumaran T.C. (Ph.D Awarded) | Environmental Science |
| | Johnykutty J. Ozhukayil (Ph.D Awarded) | Environmental Science |
| | Sreekanth N.P. (Ph.D Awarded) | Environmental Science |
| | Shanthi prabha V. (Ph.D Awarded) | Environmental Science |
| | Sreedharan K. (Ph.D Awarded) | Environmental Science |
| | Babu Padmakumar | Environmental Science |
| | Jojo Joseph Vellanikaran | Environmental Science |
| | Vijo Thomas Kurian | Environmental Science |
| | Poornima Baby | Environmental Science |
| | Sethulakshmi Bhai K.C. | Environmental Science |
| | Deepthi S | Environmental Science |
| | Cinnie Susan Antony | Environmental Science |
| | Anuja R. | Environmental Science |
| Elvin Thomas | Environmental Science | |
| Dr. Harsha H.T. (Post Doctoral Fellow) | Environmental Science | |

40. Number of post graduate students getting financial assistance from the university:

Nil



41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

Yes. The faculty council carried out a series of discussions and consulted external experts to initiate the various research divisions of the Centre

42. Does the department obtain feedback from

| | |
|---|--|
| a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? | Not applicable |
| b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? | Regular feedbacks obtained from Ph.D scholars helped fine tuning the programme |
| c) Alumni and employers on the programmes offered and how does the department utilize the feedback? | Alumni extend support for the running activities of the Centre |

43. List the distinguished alumni of the department (maximum 10):

| S.No | Name | Current Position |
|------|-----------------------------|--|
| 1. | Dr, T.U. Sukumaran | Prof. of pediatrics, Pushpagiri Medical College, Thiruvalla. |
| 2. | Dr. Johntkutty J. Ozhukayil | Head of the Department of Physics, MES College, Nedumkadam |
| 3. | Dr. Koshy P.M | Associate Professor, St Stephens College, Pathanapuram |
| 4. | Dr. Shijo Joseph | Scientist, Kerala Forest Research Institute, Thrissur |
| 5. | Dr. Disha U J | Assistant Professor, Henry Baker College Melukavu, Kerala, India |

44. Give details of student enrichment programmes (special lectures / workshops /seminar) involving external experts:

There are periodic workshops and training programmes organized by the Centre. Special lectures of many visiting scholars from India and abroad were organized. Students are also encouraged to attend special lectures organized in other departments and schools.

| Student enrichment programmes | Number of programmes |
|---|----------------------|
| Special lectures (Erudite, national and international talk) | 15 |
| Workshops | 14 |
| Seminar | 12 |

45. List the teaching methods adopted by the faculty for different programmes:

- Field work in Ph.D programmes
- Operational demonstrations for instrumentation training



46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

There are two mandates for the Centre (1) Interdisciplinary Research (2) Societal applicability in sustainable manner. Faculty council regularly monitors and assesses the progress of the Centre. In addition, an Executive Committee and an Academic Committee have been constituted by the University which oversee the functioning of the Centre.

47. Highlight the participation of students and faculty in extension activities.

- Consultancy service in chemical analysis.
- Voluntary participation in biodiversity surveys and bird studies organized by various conservation groups and State Forest Department.

48. Give details of “beyond syllabus scholarly activities” of the department.

- A series of workshops on ‘Science and Traditonal Knowledge’ with community participation
- Short term training programmes for researchers, faculty members and students from within and outside the university.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.

Nil

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

- The biodiversity group of the Centre has identified and reported new species of earthworms from different habitat types across Kerala.
- Developed sustainable green technology solutions like membrane technology for water purification
- Generated new information on the impact of landuse changes in climate change
- Furnished new information on the impact of pesticides in Cardamom plantations
- Brought out the environmental status of selected tribal communities in Idukki District
- Contributed to the ecology of avifauna in Vembanad Wetlands
- Application of biochar in paddy cultivation and climate change management
- Provided information on the environmental predisposing factors of bronchial asthma

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:

Strength:

1. The Advanced Centre of Environmental Studies and Sustainable Development (ACESSD) stands for interdisciplinary research which involves generation and integration of knowledge aiming at evolving sustainable development strategies.

2. ACCESSD is envisaged as a Centre where all branches of Science, Social Science as well as Humanities converge.
3. Presence of adjunct faculty members from various disciplines to support the research activities of the centre.
4. Healthy work culture and maintenance of good relationship between faculty, researchers and administrative staff.
5. ACCESSD has seven research divisions where interdisciplinary research programmes are carried out. It runs Ph.D. programme and at present there are 22 research students.

Weakness:

1. Lack of adequate research staff.
2. Insufficient number of research supervisors.
3. Constraints for transferring research funds from funding agencies as there are no permanent faculty in the Centre.
4. Many research scholars are not supported by proper fellowships.
5. Lack of adequate space, expert technicians to operate sophisticated instruments, sufficient provision for capacity building and advanced training for the staff

Opportunities:

1. As the centre envisages interdisciplinary /multidisciplinary studies there is ample provision for interactions, collaborations and linkages with various institutions within India and abroad.
2. Students from other disciplines can be attracted for studies in interdisciplinary dimension, an emerging trend all over the world.
3. Opportunities to provide extension services in the local and regional levels.
4. Establishing provision for better student placements and furthering of research activities with the linkages already established.
5. Potentiality for collaborating with society oriented sustainable activities of local bodies and government.

Challenges:

1. Generation of better output with the available resource and facilities.
2. Implementation of the norms in the Government regulations for enriching the research activities to generate the envisaged output (*Scientist in the tenure track mode, Ph.D guideship, streamlining the transfer of Govt. funds to the University etc.*)
3. Lack of sufficient space, infrastructure and research staff.
4. Need for additional facilities for research in frontier areas.
5. Utilizing effective linkages with industries.
6. Strengthening capacity building programme of the faculty and research groups.



52. Future plans of the department.

1. Proposed Projects

- Polyelectrolyte multilayer membranes for the treatment of paper and pulp industry waste water.
 - Innovative Nano filtration membranes and improved membrane processes for textile dye removal and salt recovery from dye bath waste water.
 - A study on the communities, resource use patterns and conservation issues in the cardamom hills of Southern Western Ghats.
 - A study on the impacts of agrochemicals including pesticides in the Cardamom Hill Reserves and plantations in Idukki district, Kerala.
 - Development of self-assembled multilayer and their application in the removal of low molecular organic compounds.
 - Biodiversity status and Human – ecological assessment of the proposed High range Biodiversity park at Nedumkandam and adjacent areas.
 - Watershed development programme in Mahatma Gandhi University campus.
2. Conduct of International / National conferences.
 3. Strengthening of training programmes.
 4. Starting research projects under the Post-Doctoral Fellowship scheme.
 5. Better facilitation of student exchange programmes.

INTER UNIVERSITY CENTRE FOR BIOMEDICAL RESEARCH & SUPER SPECIALTY HOSPITAL

| | | | |
|----|---|---|--|
| 1. | Name of the Department | : | Inter University Centre for Biomedical Research & Super Specialty Hospital |
| 2. | Year of establishment | : | 2015 |
| 3. | Is the Department part of a School/ Faculty of the University? | : | An independent Institute created as an act of Govt. of Kerala Regulation in 2013, and mentored by MG University |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | Ph.D; No other programme is initiated yet. |
| 5. | Interdisciplinary programmes and departments involved | : | Inter- and Intra-University; Inter-institutional programs with multidisciplinary aspects |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | Under discussions and negotiation with: (i) AcSIR, New Delhi, for academic affiliation; (ii) EURON a conglomerate of 13 Universities with Head-Quarters in University of Maastricht, The Netherlands, for academic affiliation; (iii) Swinburne University of Technology, Melbourne for academic affiliation; (iv) Center of Excellence in Drug Discovery (National Facility for Drug Discovery & Development), Saurashtra University, Rajkot for drug discovery programs; (v) CSIR-IICB, Jadavpur, Kolkata for co-development of a drug molecule. (vi) Bangur Institute of Neurology, Kolkata for collaborative clinical research in the area of neurological disease |
| 7. | Details of programmes discontinued, if any, with reasons | : | NA |
| 8. | Examination System | : | NA |



| 9. | Participation of the department in the courses offered by other departments | : NA | | | | | | | | | | | | | | | | | | | | |
|-------------------|---|--|------------------------------|------------|--------|------------------------------|----------|---|---|---|-------------------|---|---|--------|-----------------|---|---|--------|------------|---|-----|---------------|
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | <table border="1"> <thead> <tr> <th></th> <th>Sanctioned</th> <th>Filled</th> <th>Actual (including CAS & MPS)</th> </tr> </thead> <tbody> <tr> <td>Director</td> <td>1</td> <td>1</td> <td>1</td> </tr> <tr> <td>Senior Scientists</td> <td>2</td> <td>2</td> <td>Joined</td> </tr> <tr> <td>Inspire Faculty</td> <td>1</td> <td>1</td> <td>Joined</td> </tr> <tr> <td>Scientists</td> <td>2</td> <td>---</td> <td>Under Process</td> </tr> </tbody> </table> | | Sanctioned | Filled | Actual (including CAS & MPS) | Director | 1 | 1 | 1 | Senior Scientists | 2 | 2 | Joined | Inspire Faculty | 1 | 1 | Joined | Scientists | 2 | --- | Under Process |
| | Sanctioned | Filled | Actual (including CAS & MPS) | | | | | | | | | | | | | | | | | | | |
| Director | 1 | 1 | 1 | | | | | | | | | | | | | | | | | | | |
| Senior Scientists | 2 | 2 | Joined | | | | | | | | | | | | | | | | | | | |
| Inspire Faculty | 1 | 1 | Joined | | | | | | | | | | | | | | | | | | | |
| Scientists | 2 | --- | Under Process | | | | | | | | | | | | | | | | | | | |

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./ M.Phil. students guided for the last 6 years |
|---------------------|---------------|-----------------------|--|----------------------------|--|
| Dr. K P Mohanakumar | Ph.D. | Director | Molecular Pharmacology/Neurosciences | 35 years | 12 |
| Dr. Usha Rajamma | Ph.D. | Senior Scientist | Genetics, Molecular Biology, Neuroscience | 21 years | 4 |
| Dr. Rajesh A Shenoi | Ph. D. | Senior Scientist | Polymer Chemistry, Macromolecular Therapeutics, Drug Design and Development | 12 years | - |
| Dr. Resmi Anand | Ph.D. | Inspire Faculty (DST) | Polymer-based Drug Delivery Systems, Drug-Carrier Interactions and Biomaterials for Tissue Engineering and Regenerative Medicine | 2 years | - |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

- Nil

13. Percentage of classes taken by temporary faculty – programme-wise information:

- Nil

14. Programme-wise Student Teacher Ratio

- NA

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

: Academic Support staff

- Nil

: Admin. Staff

- Four

16. Research thrust areas as recognized by major funding agencies:

(i) Drug Development, (ii) Viral Disease Research, (iii) Developmental Disabilities, (iv) Geriatric Diseases

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

a) national

| SL.No | Project Title | Period | Funding agencies | Total Fund in Lakhs (₹) |
|---------------------|---|----------------------------------|---|--------------------------------------|
| Dr. Usha Rajamma | | | | |
| 1. | Association of Monoamine Transporter Genes with Autism: Special Reference to Equilibrative Nucleoside Transporter 4 (ENT4 or SLC29A4) and Vesicular Monoamine Transporter-2 (VMAT-2 or SLC18A2) genes | 3 Years, Feb 2015 – Jan 2018 | Indian Council of Medical Research (ICMR), Govt. of India | 27.70 |
| 2. | Exploratory investigation on the role of folate system in childhood onset neurodevelopmental disorders. | 3 Years, Feb 2015 - Jan 2018 | Indian Council of Medical Research (ICMR), Govt. of India | 57.00 |
| Dr. Resmi Anand | | | | |
| 1. | Development of injectable hydrogel-based delivery system for cartilage tissue repair | 5 Years, 2017-2022 | Department of Science & Technology, Govt. of India (under DST-INSPIRE Faculty Scheme) | . 83.00 |
| Dr. K P Mohanakumar | | | | |
| 1. | Dysregulated circulating melatonin in pathophysiological processes in Parkinson's disease (PD): a study on experimental Parkinsonism in animals and in PD patient population from eastern India | 3 Years, April 2017 - March 2020 | Indian Council of Medical Research (ICMR), Govt. of India | 43.90 Lakhs (Final approval awaited) |



b) international: Nil

c) Total grants received: 167.7 Lakhs

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration

1. Between IUCBR & SSH and Bangur Institute of Neurology, Kolkata - Rs. 44 lakhs
2. Between IUCBR & SSH and Manovikas Kendra, Kolkata (Two projects) - Rs. 84.70 lakhs

b) International collaboration : Nil

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.

| SL. No | Project Title | Funded by | Amount (₹ in Lakhs) |
|--------|---------------------------|-----------|---------------------|
| 1. | Drugs from Ayurveda herbs | DBT | 20.00 |

Total grants received: ₹ 20 Lakhs

20. Research facility / centre with

- State recognition : Yes
- National recognition : Yes
- International recognition : Under consideration

21. Special research laboratories sponsored by / created by industry or corporate bodies : Under discussions/negotiations

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 177 |
| 2. | Monographs | - |
| 3. | Conference Proceedings | - |
| 4. | Chapters in Books | 3 |
| 5. | Edited Books | 3 |
| 6. | Books authored with ISBN | - |
| 7. | Books authored without ISBN | - |
| 8. | Articles in popular publications | - |
| 9. | Total | 183 |

| Sl. No. | Name of the Faculty | SNIP (Cumulative for all & last 5 years) | SJR (Cumulative for all & last 5 years) |
|---------|----------------------------|--|---|
| 1. | Dr. K P Mohanakumar | 94.008/33.107 | 149.872/52.756 |
| 2. | Dr. Usha Rajamma | 32.288/16.925 | 55.987/32.656 |
| 3. | Dr. Rajesh A Shenoi | 27.931/23.543 | 56.67/51.072 |
| 4. | Dr. Resmi Anand | 8.25/7.424 | 11.108/10.071 |

* Impact Factor – range / average; * h-index; *Citation Index – range / average (Total)

| Name of the Faculty | Total no. of publications | Cumulative Impact Factor | Citations (as on January 2017) | h-index | i-10 index |
|----------------------|---------------------------|--------------------------|--------------------------------|------------|------------|
| Mohanakumar KP | 114 | 376 | 3555 | 35 | 64 |
| Usha Rajamma | 36 | 107 | 635 | 16 | 20 |
| Rajesh Shenoi | 17 | 115 | 232 | 9 | 9 |
| Resmi Anand | 10 | 33 | 163 | 8 | 7 |
| Total for all | 177 | 636 | 4585 | --- | --- |

23. Details of patents and income generated : Nil

24. Areas of consultancy and income generated : Nil

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad

| Sl. No. | Name of the faculty | Laboratory/ Research area with year |
|---------|---------------------|--|
| 1. | Dr. Usha Rajamma | 1. International Society for Autism Research (for IMFAR-2010), Genetics of Autism, Philadelphia, USA - 2010 2. Cornell University at Ithaca, One-week visit at the lab of M. Belmonte for acquiring ADOS program for the benefit of Autistic individuals in India - 2010 3. Society for Neuroscience, 2011 |
| 2 | Dr. Rajesh A Shenoi | 1. University of British Columbia, Vancouver, Canada, Macromolecular Therapeutics - 2008; 2010 2. American Chemical Society: Intl Meeting - Anaheim, CA - 2011 3. American Society of Hematology, San Diego, CA, 2011 4. Gordon Research Conference - Polymers, Boston, MA – 2011 |
| 3. | Dr. KP Mohanakumar | Only for the last Five Years 1. Intl Brain Research Organization (IBRO) - Intl School on Mitochondria: As Faculty - (i) at Punjab University, Oct 2015; (ii) Sri Lanka, Dec 2015; (iii) Ibadaan, Nigeria 2014; 2. International Society for Neurochemistry (i) Yearly Twice : Selection Committee Meetings for Grant in Aid for Conferences (ii) Once in two years: Young Scientists Award |



| | | |
|--|--|--|
| | | <p>Selection Committee Meetings</p> <p>(iii) Yearly once anywhere in the world for attending the International Society for Neurochemistry (ISN) as ISN elected member during 2011-2015.</p> <p>(iv) ISN-IBRO Fellowship Institution Committee</p> <p>3. Review member of the NIH, USA for project review: on-line reviewer or by attending meeting at designated locations in the USA.</p> |
|--|--|--|

26. Faculty serving in

a) National committees - Two

| Sl. No. | Name of the faculty | Committee |
|---------|---------------------|--|
| 1. | Dr. KP Mohanakumar | 1. DBT Neuroscience Taskforce 2. Coordinator, MIND (CSIR-2011-2015) |

b) International committees - One

| Sl. No. | Name of the faculty | Committee |
|---------|---------------------|---|
| 1 | Dr. KP Mohanakumar | 1. International Society for Neurochemistry (ISN), Conference Committee 2. Faculty Member of International Brain Research Organization (IBRO) for teaching at Neuroscience Schools |

c) Editorial Boards Five international HIF Journals; One Indian Journal

| Sl. No. | Name of the faculty | Journal |
|---------|---------------------|--|
| 1 | Dr. KP Mohanakumar | 1. Journal of Neurochemistry (Handling Editor), John Wiley & Sons; http://onlinelibrary.wiley.com/journal/10.1111/%28ISN%291471-4159 2. Neurochemistry International, Elsevier Press; http://ees.elsevier.com/nci/ 3. Neurochemical Research, Springer; http://www.springer.com/biomed/neuroscience/journal/11064 4. Anatomy and Cell Biology; http://www.acbjournal.com . 5. Neuroscience & Medicine; www.scirp.org/journal/nm 6. Journal of Cell & Tissue Research (Editor); http://tcjournals.com/tr_journalcms.php |



d) any other (please specify)

| Sl. No. | Name of the faculty | Committee |
|---------|---------------------|---|
| 1 | Dr. KP Mohanakumar | <ul style="list-style-type: none"> Faculty Selection Committees of NBRC, Gurgaon; University of Calcutta, Kolkata; Central Universities including Kerala Central University Kasargode; CDRI, Lucknow; Jadavpur University, Kolkata, etc. Board of Examiners for Ph.D: Several Universities, AcSIR, and IITs |

27. Faculty recharging strategies (UGC, ASC, Refresher/ orientation programs, workshops, training programs and similar programs).

Conducted One International seminar and two national level conferences in the area of neuroscience during 2016-17 (Financial Year)

28. Student projects

Percentage of students who have done in-house projects including inter-departmental / Programmes

NA

Percentage of students doing projects in collaboration with other universities / industry / institute

NA

29. Awards / recognitions received at the national and international level by

- Faculty

| Name of Faculty | Research awards received by the faculty |
|--------------------|---|
| Dr. KP Mohanakumar | 1. Prof. DP Burma Oration, Life Time Achievements in Neurochemistry, 2016 |

- Doctoral / post doctoral fellows: Nil**
- Students: Nil**



30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

| Year | Seminars/ Conferences/Workshops | Source of funding | outstanding participants |
|------|---|--|--------------------------|
| 1. | Symposium on “Neural Functions of the Aging Brain (NFAB)”, September 27-28, 2016 at Rajiv Gandhi Centre for Biotechnology, Thiruvananthapuram | Department of Higher Education, Government of Kerala. | |
| 2. | Neurocon-2017, A Biennial International Meeting of Neuroscientists | by Govt of India Agencies, and iCARE Hospitals, Haldia, West Bengal | |
| 3. | NeuroUpdate-2016 An Annual Meeting of Neurologists and Neuroscientists | Drug Companies and NeuroUpdate-Forum of neurologists and neurobiologists | |

31. Code of ethics for research followed by the departments:

To keep the research efforts and output at International Standards the institute has in place or currently formulating strict guidelines for checking plagiarism; statutory human ethics and animal ethics committees; students-mentoring committees; hand-holding advisory programs and students-self-help programs.

32. Student profile programme-wise: NA

33. Diversity of students: NA

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise. : NA

35. Student progression : NA

36. Diversity of staff :

| Percentage of faculty who are graduates | |
|--|-----|
| of the same university | 25% |
| from other universities within the State | nil |
| from universities from other States | 50% |
| from universities outside the country | 25% |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: Nil

38. Present details of departmental infrastructural facilities with regard to

- a) Library Books purchased during the period : About 10 Books (by way of Donation)
- b) Internet facilities for staff and students : Available
- c) Total number of class rooms : NA
- d) Class rooms with ICT facility : NA
- e) Students' laboratories : NA
- f) Research laboratories : About 06 - Under Development

39. List of doctoral, post-doctoral students and Research Associates

- a) from the host institution/university : NA
- b) from other institutions/universities : One

40. Number of post graduate students getting financial assistance from the university:
One from DBT.

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology

- New programmes are always under taken with after having the thorough discussion with stake holders.

42. Does the department obtain feedback from

- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? - NA
- b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? - NA
- c. Alumni and employers on the programmes offered and how does the department utilize the feedback? - NA

43. List the distinguished alumni of the department (maximum 10) :

NA

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. :

Two national and one international seminar were conducted



45. List the teaching methods adopted by the faculty for different programmes.

- Chalks & Black Boards/White Boards and colour sketch pens for outreaching programs;
- Group discussions and debates for mentoring programs

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored? For the institute alone there is an Academic committee formed with eminent scientists from biomedical sciences including basic scientists and clinicians. The institute has plans to conduct six monthly projects-progress monitoring committee with external members, possibly from the funding agencies. Divisional (Sub-centres) assessment of progress are planned every 4 months.

47. Highlight the participation of students and faculty in extension activities.

- a. Provide state-of-the-art, advanced knowledgebase by giving invited talks at major Universities and Institutes of higher learning
- b. Provide occasional mentoring programs at other institutes and colleges for selected category of students.

48. Give details of “beyond syllabus scholarly activities” of the department.

- a. Conduct medical camps and population-based research-surveys
- b. Deliver plenary/special lectures as per the need of other institutions
- c. Scientific knowledge dissemination by outreaching by publications, leaflets and other modes of communications amongst the masses
- d. By volunteering review of articles submitted to peer reviewed journals
- e. By evaluating Projects submitted to National agencies such as DST/ DBT/ ICMR/UGC/DRDO, etc. for funding
- f. By evaluating MD/MS/MTech/MPharm/Ph.D theses

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. -NA

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

- a. By publishing the data in peer reviewed journals
- b. By reviewing and publishing state-of-the-art knowledgebase that has reached a certain height
- c. Accumulation of knowledgebase from a discipline by generating compilation of articles

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths

1. High-end Faculty Expertise: Faculty in the Institute is with 8-35 years experience in biomedical research in specialty areas such as neurochemistry/ neurobiology/



- neuropharmacology, neurogenetics, polymer therapeutics, drug design and development.
2. Availability of infra structure (Building) for establishment of advanced laboratory facilities
 3. Financial grant / Funds available for specialty laboratory establishment
 4. Interdisciplinary nature of expertise, conducive to the amalgamated programmes of biomedical research
 5. Advanced State of the art instrumentation facility being created

Weaknesses

1. Difficulty in communication: The institute being far away from the national/international airports, communication with national/international research community has become difficult.
2. Lack of opportunities/infrastructure for taking the discoveries to translational level
3. De-recognition of Temporary/Adhoc Faculty as Registered Guides/Mentors for higher degrees as per the new UGC regulations

Opportunities

1. Being a new institute, opportunities galore
2. Excellent opportunities for higher studies India and abroad

Challenges

1. Getting academic recognition from national/international bodies
2. Establishment of multidisciplinary projects/facilities
3. Continued funding for research and development activities
4. To attract competitive talents to join the institute
5. Meeting the expectations of translational outcome

52. Future plans of the department.

| Infrastructure (Buildings) | |
|---|---|
| Building | i. Registration of Phase I, Block A,B,C ii. Completion of Phase I C iii. Taking up construction Phase II, Block A, |
| Building | a. Animal House b. Quarters c. Guest House d. Student Hostels |
| Establishment of Laboratories | |
| Centre for Communicable Diseases: Control & Prevention (CCDCP) | |
| CCDCP | i. Recruitment of personnel ii. Infrastructure development (Virus research laboratory, Immunology, Viral genetics lab iii. Approval from Regulatory authorities |



| | |
|---|--|
| | <ul style="list-style-type: none"> iv. Epidemiological Survey v. Diagnosis (Nucleic acid based, Immunology based) vi. Therapeutics (Vaccine development) |
| Centre for Development & Aging Research (CDAR) | |
| Developmental Disabilities | <ul style="list-style-type: none"> a. Epidemiology b. Identification of risk factors c. Molecular diagnostics and therapeutics d. Mechanistic investigations e. Stem cell research facility f. Transgenic facility g. Cybrids facility |
| Geriatrics | <ul style="list-style-type: none"> i. Epidemiology ii. Identification of risk factors iii. Molecular diagnostics and therapeutics iv. Mechanistic investigations v. Stem cells/Transplantation research facility vi. Transgenic facility vii. Cybrids facility viii. Biobehavioral laboratory facilities |
| Centre for Drug Discovery (CDD) | |
| | i. Interdisciplinary efforts |
| | ii. Synthetic efforts |
| | iii. Complimentary medicine |
| | iv. Toxicology |
| | v. Drug formulation |
| | vi. Pharmacology |
| | vii. ISO/GLP/GMP certification |
| Library & Information | |
| Establishment of Library | <ul style="list-style-type: none"> • Constitution of Library committee |
| Information dissemination | <ul style="list-style-type: none"> • 'Words Worth Society': Publication of What's Life, BMC |
| Academic Activities | |
| | i. Ph D and Short-term courses |
| | ii. Establishment of collaborations, MoU (National and International) |
| | iii. Major grant applications |
| | iv. Five Year Plan Programme from Government of Kerala |
| | v. Collaborative activities with Department of Health |
| | vi. Yearly planned programmes with Higher Education Department |
| | vii. Organization of international and national symposia/conferences |
| | viii. Training programmes |

INTER UNIVERSITY CENTRE FOR DISABILITY STUDIES

| | | | | | | |
|----------------------|--|----------------------|--|--------|------------------------------|--|
| 1. | Name of the Department | : | Inter University Centre for Disability Studies | | | |
| 2. | Year of establishment | : | 2010 | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, Faculty of Behavioural Sciences | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | M.Phil in Disability Studies | | | |
| 5. | Interdisciplinary programmes and departments involved | : | Inter disciplinary research including Psychology, special education, technology, clinical psychology and social work | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | NA | | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil | | | |
| 8. | Examination System | : | Semester (Choice Based Credit System) | | | |
| 9. | Participation of the department in the courses offered by other departments | : | Teaching M.Sc Disability Studies, M.Sc. Psychology and M.Phil Rehabilitation medicine courses in School of Behavioural Sciences. | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | | Sanctioned | Filled | Actual (including CAS & MPS) | |
| Professor | | | | | | |
| Associate Professors | | | | | | |
| Asst. Professors | | | | | | |
| Others | | 04 Contract basis | 02 | | | |



11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./ M.Phil. students guided for the last 6 years |
|-------------------|--|------------------------------|-------------------------------|----------------------------|--|
| Dr.P.T Baburaj | Msc. MA,MEd. PhD | Hon. Director | Auditorilly Handicapped | 25 | |
| Mrs.Hena N.N | M.Sc (Health &Behavioural Sciences), M.Phil (Psy.) | Research Associate /Lecturer | Health & Behavioural Sciences | 10 | M.Phil-4 |
| Mrs.BilgyK.George | M.Sc(Psy.), M.Phil (LD), NET | Research Associate /Lecturer | Psychology | 7 | M.Phil-3 |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professor

| |
|--|
| 1. Mr.Vijesh P.V, Physiotherapist, Sree Chithira Institute of Medical Sciences, Thiruvananthapuram |
| 2. Dr. Rahul Lekshman, Department of Palliative Care, AIMS, Edappally |
| 3. Mr. Mathew Kanamala, Head of the Department of Social Work, St. Josephs College, Moolamattom. |
| 4. Dr. A.P. Varma, Occupational Health Physician, Adithya Birla Group. |
| 5. Ms.Suseela, Certified Yoga Trainer |
| 6. Ms. Aswathy P.V, Clinical Psychologist, Co-operative Medical College, Cochin. |
| 7. Dr. Roshan Bijly, Director, CRC, Kozhikode. |
| 8. SujithBabu, Clinclal Psychologist, Kottayam |
| 9. Dr. Babu George, Child Development centre, Thiruvananthapuram |
| 10. Mamman Joseph C, Ast. Professor Central University Karnataka |
| 11. Dr. Sebastian Rupert Mampulli, Prof. School Of Management Studies, Cochin University of science and technology, Ernakulam. |
| 12. Dr. Anilakumari, Assistant Professor, CUTEC, Vadakara, Calicut. |
| 13. Mr. V.Sriram, Chief Librarian, Centre for Development Studies (CDS), Trivandrum. |
| 14. Mr. Vinod S.S, Clinical Psychologist, IUCDS, Guest faculty |
| 15. Ms. Priya Varghese, Clinical Psychologist, Pushpagiri Medical College,Thiruvalla |
| 16. Vipin Chandralal, Clinical Psychologist, Pushpagiri Medical College, Thiruvalla |
| 17. Dr. M.R. Gopalakrishnan, Social worker, counsellor, yoga master and Pranic Healer, Gurukulam Training centre, Pampady |

| |
|--|
| 18. Adv. Amal Kasha, High court , Ernakulam |
| 19. Mrs. Divya Paul, Speech Therapist, Kusumagiri Mental Hospital, Kakkanad |
| 20. Mrs. Anitta Paul, Special educator , Vigyan valley Learning Centre, Ernakulam |
| 21. Sr. Jyothi, Special educator , Kusumagiri Mental Hospital, Kakkanade |
| 22. Mr. Ramesh B. Nair, Jt. Director, Statistics and Planning department, Rubber board ,Kottayam |
| 23. Prof. Dr. M.S. Razeena Padmam, Director ,School of Behavioural Sciences, M.G. University |
| 24. Dr. Sandhya E, Associate Professor Prajyithi Nikethan College, Puthukkad, Trissure |
| 25. Dr. Jasmine, Assistant Professor, Law college, Gandhinagar |
| 26. Dr. Suresh Kumar. M, Assistant professor, Clinical Psychology, CRC, Kozhikode. |
| 27. Dr. Sunish T.V, Assistant professor in special education, CRC, Kozhikode. |
| 28. Subeesh Gopi, Performance Coach, Caliber ,Kottayam |
| 29. George Babu, Director, Caliber, Kottayam |
| 30. Dr. Suresh S, Assistant professor, Dept. of Pediatrics, Medical College Hospital. Kottayam |
| 31. Dr. P. Savidha, Professor and head of Pediatrics, Medical College Hospital Kottayam |
| 32. DR. Jiji Mary- Associate professor in Pediatrics, Medical College Hospital Kottayam. |
| 33. Dr. Rincy Joseph, Director, ALAN T21 Welfare Trust, Changanassery |
| 34. Sri. Sudheer Sakthan, Assistant professor in pediatrics, Medical college hospital, Kottayam |
| 35. Dr. K. Manikandan, Associate Professor & HOD, Dept. of Psychology, Calicut University |
| 36. Dr. Neeradha Chandramohan. Associate Professor. Department of Clinical Psychology. |
| 37. Dr. J Vijayalakshmy, Lecturer (Medical Sciences), NIEPMD |
| 38. Dr. K. Bala Baskar, Lecturer, Department of Adult Independent Living, NIEPMD |
| 39. Rev. Father Thomas Felix, Director of Central Institute on Mental Retardation, Trivandrum, Kerala |
| 40. Dr. Himangshu Das, Director of National Institute for Empowerment of Persons with Multiple Disabilities, Chennai (NIEPMD). |
| 41. Dr. M.K Jayaraj, State Institute for the Mentally Challenged, Trivandrum. |

13. Percentage of classes taken by temporary faculty – programme-wise information:

No temporary faculty



14. Programme-wise Student Teacher Ratio:

MPhil - 4:3

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

- Administrative staff -04
- Sanctioned -04
- (Coordinator Post Vacant -01, Field Messenger Post Vacant -01)

16. Research thrust areas as recognized by major funding agencies:

Funding agency: Department of higher education, Govt of Kerala.

1. Inclusion and inclusive education.
2. Aging and disability management.
3. Tool development for persons with disabilities.
4. Community based rehabilitation programmes and policies.
5. Disability inclusive disaster management.

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise: Nil

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration

Community based intervention projects in association with Santhigiri Rehabilitation Institute, Vazhithala P.O, Thodupuzha- 685583 and Theeradesa Raksha Social Welfare Society (TRSWS), Reg. No. 566/2001, Sidco building, Beach Road, West Hill P.O, Calicut- 673005.

IUCDS granted an amount of Rs.2 Lakhs each to the agencies.

| Sl. No | Topic | Institution |
|--------|---|--|
| 1. | “Empowerment of Persons with Disabilities (PWDs) through Community Integration” | Santhigiri Rehabilitation Institute, Vazhithala P.O, Thodupuzha- 685583 |
| 2. | “Skill development training programme to the persons with disabilities” | Theeradesa Raksha Social Welfare Society (TRSWS), Reg. No. 566/2001, Sidco building, Beach Road, West Hill P.O, Calicut- 673005. |

b) International collaboration: Nil**19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received: Nil****20. Research facility / centre with**

- State recognition: Yes, IUCDS is a centre established by the Dept. of higher education, Govt. of Kerala
- National recognition Nil
- International recognition Nil

21. Special research laboratories sponsored by / created by industry or corporate bodies- Nil**22. Publications:**

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 14 |
| 2. | Monographs | 0 |
| 3. | Conference Proceedings | 11 |
| 4. | Chapters in Books | 2 |
| 5. | Edited Books | 0 |
| 6. | Books authored with ISBN | 0 |
| 7. | Books authored without ISBN | 0 |
| 8. | Articles in popular publications | 0 |
| 9. | Total | 27 |

23. Details of patents and income generated : Nil**24. Areas of consultancy and income generated :**

| Sl No | Programme | Income (₹ in Lakhs) |
|-------|---|---------------------|
| 1. | Income generated from consultancy (DREAMS) – (Remedial coaching, counselling, Speech therapy, Physiotherapy and Psychological consultation) | 2.02 |
| 2. | Income generated from Certificate programmes , Workshops, Seminars and conferences | 3.15 |
| 3. | Total | ₹ 5.17 |



25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad –Nil

26. Faculty serving in

1. National committees –

| Sl. No | Name of the faculty | Committee |
|--------|---------------------|--|
| 1. | Hena N.N | Member : Dementia Friendly Community initiative (DFC- initiative, Research and development centre, Alzheimer’s and Related disorders society of India (ARDSI), India |
| | | Member, PAC, DIET, Ernakulum, |
| | | Member Institutional Ethical Committee, Alzheimer’s and Related disorders society of India (ARDSI) |

b) International committees

c) Editorial Boards: 01

d) any other

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs):

| SI No | Programme | Number |
|-------|-----------------------|--------|
| 1. | Orientation programme | 0 |
| 2. | Workshops | 12 |
| 3. | Seminars | 06 |
| 4. | Certificate courses | 16 |

Research Methodology, 3/6/10 days workshop /CRE training –NIEPMD etc.

28. Student projects

- percentage of students who have done in-house projects including inter-departmental projects : 100%
- percentage of students doing projects in collaboration with other universities /industry / institute

29. Awards / recognitions received at the national and international level by

- Faculty: Nil
- Doctoral / post-doctoral fellows: Nil
- Students:
 - UGC NET -1
 - RNGF -1

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

- List of short term programmes conducted at IUCDS

| Sl. No | Programme | Duration | Date | Funding | Level | Participants |
|--------|--|----------|--------------------------|-------------------------|-------------|--|
| 1. | Certificate course in Ageing and Disability Management | 5 days | 06.06.2011 to 10.06.2011 | Participants & DDF fund | State level | Students & Professionals |
| 2. | Training programme in management of behavioural problem among children | 5 days | 18.07.2011 to 22.07.2011 | Participants | State level | Students , Research scholars & Professionals |
| 3. | Certificate programme in counselling | 1 month | 17.10.2011 to 22.11.2011 | Participants | State level | Students , Research scholars & Professionals |
| 4. | Certificate programme in management of behavioural problems | 1 month | 04.01.2012 to 03.02.2012 | Participants | State level | Students , Research scholars & Professionals |
| 5. | Certificate programme in Early intervention for childhood disabilities | 10 days | 16.04.2012 to 27.04.2012 | Participants | State level | Students , Research scholars & Professionals |
| 6. | Certificate programme in counselling | 1 month | 09.05.2012 to 08.06.2012 | Participants & DDF fund | State level | Students & Professionals |
| 7. | Certificate programme in counselling | 1 month | 17.09.2012 to 16.10.2012 | Participants | State level | Students & Professionals |
| 8. | Workshop on classroom management and soft skills training | 3days | 17.10.2012 to 19.10.2012 | Participants | State level | Students , Research scholars & Professionals |
| 9. | Workshop on learning disabilities | 5 days | 30.10.2012 to 03.11.2012 | Participants | State level | Students , Research scholars & Professionals |



| | | | | | | |
|-----|---|---------|--------------------------|---|-------------|--|
| 10. | Workshop on research methodology | 5 days | 28.01.2013 to 01.02.2013 | Participants | State level | Students , Research scholars & Professionals |
| 11. | Workshop on project proposal writing | 1 day | 10.05.2013 | Participants | State level | Students , Research scholars & Professionals |
| 12. | Training on Learning Disabilities | 5 days | 13.05.2013 to 17.05.2013 | Participants | State level | Students , Research scholars, Professionals and disabled persons |
| 13. | Counselling – Advanced course | 10 days | 20.05.2013 to 31.05 2013 | Participants | State level | Students , Research scholars & Professionals |
| 14. | Management of behavioural problem among children | 10 days | 22.07.2013 to 02.08.2013 | Participants | State level | Students , Research scholars & Professionals |
| 15. | Continuous Rehabilitation Education (CRE) programme | 5 days | 07.10.2013 to 11.10.2013 | Participant, National Institute for the Empowerment of Persons with Multiple Disabilities (NIEPMD), Chennai | State level | RCI registered professionals |
| 16. | Certificate course in counselling | 1 month | 25.11.2013 to 23.12.1013 | Participants | State level | Students , Research scholars & Professionals |
| 17. | Certificate programme on parenting of children with special needs | 5 days | 17.03.2014 to 21.03.2014 | Participants | State level | Parents, Research scholars & Professionals |
| 18. | Workshop on Autism spectrum disorder | 3 days | 24.04.204 to 26.04.2014 | Participants | State level | Students , Research scholars & Professionals |

| | | | | | | |
|-----|---|--------|--------------------------|--|-------------|--|
| 19. | Workshop on project design and proposal writing | 2 days | 26.05.2014 to 27.05.2014 | Participants | State level | Research scholars & Professionals |
| 20. | Continuous Rehabilitation Education (CRE) programme | 3 days | 25.06.2014 to 27.06.2014 | Participants, National Institute for the Empowerment of Persons with Multiple Disabilities (NIEPMD), Chennai | State level | RCI registered professionals |
| 21. | Workshop on Research Methodology | 2 days | 28.08.2014 to 29.08.2014 | Participants | State level | Students , Research scholars & Professionals |
| 22. | Workshop on Research Methodology | 3 days | 16.09.2015 to 18.09.2015 | Participants | State level | Students , Research scholars & Professionals |
| 23. | Workshop on Learning Disability | 1 day | 15.02.2016 | Participants | State level | Students , Research scholars & Professionals |
| 24. | Certificate programme on Commemoration of World Zero Discrimination Day | 1 day | 01.03.2016 | DDF fund, National Service Scheme (NSS) & Department Students Union (DSU) | State level | Students & Professionals |
| 25. | World Down Syndrome Day | 1 day | 21.03.2016 | DDF fund, Alan T 21 Welfare Trust, Changanassery | State level | Students & Professionals |



• List of seminars conducted at IUCDS

| Sl. No | Topic | Duration | Associations | Date | Funding | Level | Participants |
|--------|--|----------|--|--------------------------|---|---------------|---|
| 1. | State level seminar on management and empowerment of persons with multiple disabilities | 2 days | National Institute for the Empowerment of Persons with Multiple Disabilities (NIEPMD), Chennai | 13.09.2012 to 14.09.2012 | Participants | State level | Students , Research scholars, parents & Professionals |
| 2. | International seminar on Emerging trends in disability studies management | 1 day | | 08.01.2013 | Participants & DDF fund | International | Students & Professionals |
| 3. | Legal rights of persons with disabilities | 1 day | | 25.04.2013 | Participants & DDF fund | State level | Parents, disabled persons, Professionals |
| 4. | National seminar on “Technology: A boon for persons with disabilities | 1 day | State institute for the Mentally challenged | 03.12.2014 | Participants , DDF fund & State institute for the Mentally challenged | National | Students, Professionals |
| 5. | National conference on “ Vision 2020” in association with C.H MuhammedKoya State Institute of for the Mentally challenged (SIMC), Trivandrum | 2 days | C.H Muhammed Koya State Institute of for the Mentally challenged (SIMC), Trivandrum | 20.04.2015 to 23.04.2015 | DDF fund | National | Students, Professionals |
| 6. | National conference on “Models of best practices in rehabilitation for the empowerment of persons with disabilities” | 2 days | National Institute for the Empowerment of Persons with Multiple Disabilities (NIEPMD), Chennai | 16.10.2015 to 17.10.2015 | NIEPMD | National | Students, research Scholars, Professionals |

31. Code of ethics for research followed by the departments :

Plagiarism will be assessed before the submission of dissertation.

32. Student profile programme-wise:

| Name of the programme | % of students from the same University | % of students from outside state | % of students from other countries |
|---------------------------|--|----------------------------------|------------------------------------|
| M.Phil Disability Studies | 78% | 22% | Nil |

33. Diversity of students : M.Phil Disability studies -100%**34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

NET-01

35. Student progression:

- Other than campus recruitment 16
- Entrepreneurs 16

36. Diversity of staff :

| | |
|--|-----|
| Percentage of faculty who are graduates | 02 |
| Of the same university | 02 |
| From other universities within the State | 02 |
| From universities from other States | 02 |
| From universities outside the country | NIL |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period

- Ph.D- Sunish T.V, Research Associate / Lecturer

38. Present details of departmental infrastructural facilities with regard to

a) Library -Yes.

At present library is functioning at the office itself- Total Books: 219

- b) Internet facilities for staff and students. -Yes
- c) Total number of class rooms -01
- d) Class rooms with ICT facility -01
- e) Students' laboratories -01
- f) Research laboratories -NA



39. List of doctoral, post-doctoral students and Research Associates

- a) From the host institution/university - Nil
- b) From other institutions/universities - Nil

40. Number of post graduate students getting financial assistance from the university.

-NA

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology:

The centre was established by the Department of Higher education, Govt. of Kerala. A core committee was formed with Dr. K.N. Panicker, Vice Chairman, Kerala State Higher education council as Chairman and Dr. G. N. Karna, School of International Studies, New Delhi and G.C. Reddy, Professor & Dean, School of education and HRD, Dravida University, Sreenivasavanam, Kuppam, Andhra Pradesh as members to study the need and significance of the establishment of the centre.

As per the report of the Core Committee the centre Inter University Centre for Disability Studies was established in 2010. M.Phil disability studies started as full time academic programme.

42. Does the department obtain feedback from

- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?
Yes, it will used for the updation of curriculum
- b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?
Regular feedback from students
- c. Alumni and employers on the programmes offered and how does the department utilize the feedback?
Regular feedback from alumni

43. List the distinguished alumni of the department (maximum 10):

| Sl.No | Name of the Alumni | Designation |
|-------|--------------------|---|
| 1 | Preethy K.Kumar | Principal, Jainy College of Special Education , Vitila, Ernakulam |
| 2 | Bobby Mathew | Chief Executive Officer , Ushus Centre for exceptional Children, Hubli, Karnataka |
| 3 | Farasha K.A | Physiotherapist New Dar Al Shifa Hospital Hawally, Kuwait |
| 4 | Deepu C.B | Lecturer, Department of Physiotherapy, SME, Gandhinagar, Kottayam |

| | | |
|---|---------------|--|
| 5 | Annamma J | Chief Nursing Officer St. Gregarious International Cancer Care Centre & Mission Hospital, Parumala P.O, Pathanamthitta |
| 6 | Shiby Mol C.B | Assistant Professor Department of Psychology Little Flower Institute of Social Science and Health, Calicut. |
| 7 | Sasikala L. | Vice principal, KVM College of Special Education , Cherthala |
| 8 | Princy George | Counsellor, Sidhartha Central School, CBSE , Puthoor P.O |

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

| Sl. No | Special lectures / workshops / seminar | Resource Persons |
|--------|--|---|
| 1 | Aging and Disability Management | <u>WORKSHOPS</u> 1. Mr. Vijesh P.V, Physiotherapist, Sree Chithira Institute of Medical Sciences, Thiruvananthapuram. 2. Dr. Rahul Lekshman, Department of Palliative Care, AIMS, Edappally 3. Mr. Mathew Kanamala, Head of the Department of Social Work, St. Josephs College, Moolamattom. 4. Dr. A.P. Varma, Occupational Health Physician, Adithya Birla Group. |
| 2. | Management of behavioural problem among children | 1. Ms. Aswathy P.V, Clinical Psychologist, Co-operative Medical College, Cochin. 2. Dr. Roshan Bigly, Director, CRC, Kozhikode 3. Sujith Babu, Clinical Psychologist, Kottayam |
| 3. | Counselling Course | 1. Prof.(Dr.) M.S Razeena Padmam, Hon. Director, IUCDS 2. Dr. C.S Ambika Devi, Co-ordinator, IUCDS 3. Dr. Sunish T.V, Lecturer, IUCDS 4. Ms. Hena N.N, Lecturer, IUCDS |
| 4. | Management of behavioural problems | 1. Dr. Rahul Lekshman, Department of Palliative Care, AIMS, Edappally 2. Sujith Babu, Clinical Psychologist, Kottayam 3. Ms. Aswathy P.V, Clinical Psychologist, Co-operative Medical College, Cochin |
| 5. | Early intervention for childhood disabilities | 1. Dr. Babu George, Child Development centre, Thiruvananthapuram 2. Mr. Vijesh P.V, Physiotherapist, Sree Chithira Institute of Medical Sciences, Thiruvananthapuram 3. Sujith Babu, Clinical Psychologist, Kottayam 4. Dr. Rahul Lekshman, Department of Palliative Care, AIMS, Edappally |



| | | |
|----|---|---|
| 6. | Counselling Course | <ol style="list-style-type: none">1. Prof.(Dr.) M.S Razeena Padmam, Hon. Director, IUCDS2. Dr. C.SAmbika Devi , Co-ordinator ,IUCDS3. Dr. SunishT.V,Lecturer, IUCDS4. Ms .HenaN.N,Lecturer, IUCDS |
| 7. | Counselling Course | <ol style="list-style-type: none">1. Prof.(Dr.) M.S RazeenaPadmam, Hon.Director, IUCDS2. Dr.C.SAmbika Devi ,Co-ordinator, IUCDS3. Dr.SunishT.V,Lecturer, IUCDS4. Ms.HenaN.N,Lecturer, IUCDS |
| 8. | Classroom management and soft skills training | <ol style="list-style-type: none">1. Prof.(Dr.) M.S RazeenaPadmam, Hon.Director, IUCDS2. Dr.C.SAmbika Devi, Co-ordinator, IUCDS3. Dr.SunishT.V,Lecturer, IUCDS4. Ms.HenaN.N,Lecturer, IUCDS |
| 9. | Learning disabilities | <ol style="list-style-type: none">1. Dr. Babu George, Child Development centre, Thiruvananthapuram2. Dr. Anilakumari, Assistant Professor, CUTEC, Vadakara, Calicut |
| 10 | Research methodology | <ol style="list-style-type: none">1. Mr. V.Sriram, Chief Librarian, Centre for Development Studies (CDS),2. Dr. Anilakumari, Assistant Professor, CUTEC, Vadakara, Calicut |
| 11 | Project proposal writing | <ol style="list-style-type: none">1. Dr. Anilakumari, Assistant Professor, CUTEC, Vadakara, Calicut |
| 12 | Training on Learning Disabilities | <ol style="list-style-type: none">1. Dr. Anilakumari, Assistant Professor, CUTEC, Vadakara, Calicut.2. Ms. AswathyP.V, Clinical Psychologist, Co-operative Medical College, Cochin. |
| 13 | Counselling Advanced course | <ol style="list-style-type: none">1. Ms. AswathyP.V, Clinical Psychologist, Co-operative Medical College, Cochin.2. Mr. Vinod S.S, Clinical Psychologist, IUCDS, Guest faculty3. Mamman Joseph C, Asst. Professor Central University Karnataka |
| 14 | Management of behavioural problem among children | <ol style="list-style-type: none">1. Mamman Joseph C, Ast. Professor Central University Karnataka.2. Ms. Priya Varghese, Clinical Psychologist, Pushpagiri Medical College,Thiruvalla3. VipinChandralal, Clinical Psychologist ,Pushpagiri Medical College ,Thiruvalla4. Mr. Mathew Kanamala, Head of the Department of Social Work, St. Josephs College, Moolamattom. |
| 15 | Continuous Rehabilitation Education (CRE) programme | <ol style="list-style-type: none">1. Resource persons from National Institute for Empowerment of Persons with Multiple Disabilities, Chennai (NIEPMD) |



| | | |
|----|--|---|
| 16 | Certificate course in counselling | <ol style="list-style-type: none"> 1. Mamman Joseph C, Ast. Professor Central University Karnataka 2. Ms. Aswathy P.V, Clinical Psychologist, Co-operative Medical College, Cochin. |
| 17 | Parenting of children with special needs | <ol style="list-style-type: none"> 1. Ms. Priya Varghese, Clinical Psychologist, Pushpagiri Medical College, Thiruvalla 2. Dr. M.R. Gopalakrishnan, Social worker, counsellor, yoga master and pranic Healer, Gurukulam Training centre, Pampady 3. Adv. Amal Kasha, High court, Ernakulam |
| 18 | Autism spectrum disorder | <ol style="list-style-type: none"> 1. Mrs. Divya Paul, Speech Therapist, Kusumagiri Mental Hospital, Kakkanade 2. Mrs. Anitta Paul, Special educator, Vigyan valley Learning Centre, Ernakulam 3. Sr. Jyothi, Special educator, Kusumagiri Mental Hospital, Kakkanade |
| 19 | Project design and proposal writing | <ol style="list-style-type: none"> 1. Dr. Anilakumari, Assistant Professor, CUTEC, Vadakara, Calicut |
| 20 | Research Methodology | <ol style="list-style-type: none"> 1. Mr. Ramesh B. Nair, Jt. Director, Statistics and Planning department, Rubber board, Kottayam |
| 21 | Research Methodology | <ol style="list-style-type: none"> 1. Prof.(Dr.) M.S Razeena Padmam, Hon. Director, IUCDS 2. Dr. Anilakumari, Assistant Professor, CUTEC, Vadakara, Calicut 3. Dr. Sandhya E, Associate professor, Prajyithi Nikethan College, Puthukkad, Trissure |
| 22 | Learning Disability | <ol style="list-style-type: none"> 1. Dr. Anilakumari, Assistant Professor, CUTEC, Vadakara, Calicut |
| 23 | Commemoration of World Zero Discrimination Day | <ol style="list-style-type: none"> 1. Dr. Jasmine, Assistant Professor, Law college, Gandhinagar |
| 24 | World Down Syndrome Day | <ol style="list-style-type: none"> 1. Dr. Suresh Kumar. M, Assistant professor, Clinical Psychology, CRC, Kozhikode. 2. Dr. Sunish T.V, Assistant professor in special education, CRC, Kozhikode. 3. Subeesh Gopi, Performance Coach, Caliber, Kottayam 4. George Babu, Director, Caliber, Kottayam |



SEMINARS

| Sl. No | Special lectures / workshops / seminar | Resource Persons |
|--------|--|--|
| 1. | Management and empowerment of persons with multiple disabilities | Dr. J Vijayalakshmy, Lecturer (Medical Sciences), NIEPMD |
| 2. | Emerging trends in disability studies management | Dr. M.K Jayaraj ,State Institute for the Mentally Challenged, Trivandrum |
| 4. | National seminar on “Technology: A boon for persons with disabilities | Sri. Sudheer Sakthan, Assistant professor in paediatrics, Medical college hospital, Kottayam |
| 5. | National conference on “Vision 2020” in association with C.H Muhammed Koya State Institute of for the Mentally challenged (SIMC), Trivandrum | <ol style="list-style-type: none"> 1. Dr. M.K Jayaraj ,State Institute for the Mentally Challenged, Trivandrum 2. Dr. J Vijayalakshmy, Lecturer (Medical Sciences), NIEPMD 3. Prof.(Dr.) M.S Razeena Padmam, Hon. Director ,IIUCDS |
| 6. | National conference on “Models of best practices in rehabilitation for the empowerment of persons with disabilities” | <ol style="list-style-type: none"> 1. Dr. Himangshu Das, Director of National Institute for Empowerment of Persons with Multiple Disabilities, Chennai (NIEPMD). 2. Dr.Neeradha Chandramohan, Associate Professor, Department of Clinical Psychology, NIEPMD. 3. Dr. J Vijayalakshmy, Lecturer (Medical Sciences), NIEPMD 4. Dr. K. BalaBaskar, Lecturer, Department of Adult Independent Living, NIEPMD 5. Rev. Father Thomas Felix, Director of Central Institute on Mental Retardation, Trivandrum, Kerala 6. Ms. GeethaGopi. B.M. R, M. A (Psy), P.G. Diploma in Child Care and Psychology |

45. List the teaching methods adopted by the faculty for different programmes:

Smart classroom teaching using Audio visual aids. Use of ICT, Social media network.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

- Concurrent evaluation
- Seminars
- Assignments
- Class tests

47. Highlight the participation of students and faculty in extension activities:

- Students and faculty conduct various awareness programmes on disabilities.
- Students participate in the assessment and intervention process in the early intervention centre, DREAMS.

Students and faculty initiates activities in connection with the commemoration of important days related to disabilities with various programmes such as Seminars, Pamphlet Distribution, Debates and Group Discussions.

- World No Tobacco Day – 31st May
- World Mental Health Day - 10th October
- World Alzheimer’s Day – 21st September
- World Geriatric Day – 30th September
- World White Cane Day – 6th October
- World Mental Health Day – 10th October
- World Arthritis Day – 12th October
- World Disability Day – December 3rd

IUCDS showed their concern towards the disabled victims of Endosulfan tragedy.

**48. Give details of “beyond syllabus scholarly activities” of the department:
Social responsibility activities.**

- Students are encouraged to take up activities in the community using their professional knowledge and skills. The activities include – community education on disabilities.
- Student trainings.
- conducting awareness programmes and workshops.
- Need based intervention programmes etc.

**49. State whether the programme/ department is accredited/ graded by other agencies?
If yes, give details:**

The centre is established by the Department of Higher education, Govt. of Kerala.

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied :

Inter University Centre for Disability Studies is a unique centre established to generate new knowledge and conduct research activities. The centre produced more than 18 dissertations as part of the curriculum. The dissertations are aimed to develop new knowledge and apply the same for persons with disabilities. The details of the contributions are given below.



| Sl. No | Name | Name of the Contributors |
|--------|--|---|
| 1. | Effectiveness of Video Assisted Reminiscence Therapy on Subjective Well-Being of the Institutionalized Elderly | Sanish A.Thomas, M.Phil 2014 -15 student, IUCDS Ms.Hena N.N, Lecturer, IUCDS |
| 2. | Parental Awareness and Effectiveness of Parent – Focused Multi-Sensory Training on Management of Children with ADHD | Sasikala L. M..Phil 2015 -16 student, IUCDS Dr.P.TBaburaj, Hon.Director, IUCDS Ms. Bilgy K. George, Lecturer, IUCDS Ms.Hena N.N, Lecturer, IUCDS |
| 3. | Effectiveness of Attention Improving Multimedia package on selective Attention of Children with ADHD | Princy George., M..Phil 2015 -16 student, IUCDS Dr.P.TBaburaj, Hon.Director, IUCDS Ms.Hena N.N, Lecturer, IUCDS Ms. Bilgy K. George, Lecturer ,IUCDS |
| 4. | Effectiveness of Video Assisted Orientation Programme on Awareness about Childhood Disabilities and related Stress among Mothers of Toddlers | Mitzy Maria J, M..Phil 2015 -16 student, IUCDS Dr.P.TBaburaj, Hon.Director, IUCDS Ms.Hena N.N, Lecturer, IUCDS Ms. Bilgy K. George, Lecturer, IUCDS |

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:

Strengths:

- **Unique Centre**

Inter University Centre for Disability Studies is one of its kinds in India established in 2010 with a noble vision to ensure inclusion and complete participation of Persons with Disabilities. The centre has involvement and active participation of academicians, Rehabilitation professionals, medical professionals, scholars from different fields who contributes to the field of disability and rehabilitation of persons with disabilities in a trans disciplinary approach. The centre promotes transdisciplinary research and extension activities. IUCDS conducts M.Phil programme in disability studies for students from various disciplines. Besides, the centre conducts short term training programmes, workshops, seminars, conferences and certificate programmes.

- **Inter disciplinary team of professionals**

IUCDS has Inter disciplinary team of professionals from various fields. The centre has academicians, Rehabilitation professionals viz, speech therapist, physiotherapist and clinical psychologist. The centre has a team of volunteers who are experts from various fields.

- **Disability related services under one roof**

IUCDS provide various services for persons with disabilities under one roof. The centre has an extension centre names Disability Rehabilitation Early Assessment and Management Services (DREAMS) which has the following services.

- Physiotherapy

- Audiological assessment and speech therapy unit
- Remedial coaching
- Counselling services
- Psychological assessment.
- **Academic, Research training and extension activities**

IUCDS provide various academic programmes. IUCDS offers fulltime M.Phil programme in disability studies and various short term training programmes, workshops, seminars and conferences.

Students of IUCDS conducts research as part of their curriculum promote transdisciplinary research to support persons with disability

Weaknesses

- Registration as per RCI Act, 1992

Since IUCDS was conceived as a place where professionals from various discipline involved, the centre has its objectives to promote transdisciplinary research activities. The centre may fail to fit in to the existing policies as per the guidelines of RCI, act, 1992 which emphasises the accreditation by Rehabilitation Council of India. The centre needs to initiate activities to consider it as a special case and avail RCI accreditation for its complete functioning.
- Lack of adequate space to function
- Staff turn over
- Insufficient fund

Opportunities

- As the centre envisages inter disciplinary / multidisciplinary/ trans disciplinary research and academic activities, there are ample opportunities for interactions/collaborations with various institutions within India and abroad.
- Students from other disciplines can be attracted for studies in Interdisciplinary dimensions.
- Excellent opportunities for students for placement.
- The centre has potential to provide extension activities in the area of disability rehabilitation across the nation.
- Extension of outreach programmes for the differently abled.

Challenges

- Income generation to ensure sustainability of the centre.
- Implementation of the norms in the Government regulations for enriching the activities of the centre to fulfill its objective of inclusion and complete participation of persons with disabilities.



- Establish additional facilities and infrastructure for better provision of services to the persons with disabilities.
- Create capacity building programmes for students and staff of the centre to empower them in participating rehabilitation activities and research.
- Creating opportunities for students to be in the part of the rehabilitation programmes.

52. Future plans of the department.

- **Extension and expansion of DREAMS:** DREAMS started its functioning with the objective of providing early identification and intervention services to all types of disabilities under one roof. To fulfill this, the centre needs the following units to cater the services to the neediest.
 - Extension of the services of DREAMS to various districts in Kerala.
 - Ophthalmology Unit
 - Occupational therapy unit
 - Vocational Rehabilitation Centre
 - Placement Cell
 - Counseling Centre for the caregivers of PWD.
- **Information center and Data-bank:** IUCDS is planning to start an information centre for disseminating information regarding various aspects of disability, rehabilitation services to parents, caregivers and professionals. IUCDS is also planning to form a databank of disability rehabilitation services.
- **To develop Assessment tools and Equipment:** The centre proposed a plan to develop quality assessment tools and equipment for the proper identification of various disabilities.
- **Interdisciplinary study center**

IUCDS is keen on starting an interdisciplinary study centre to promote interdisciplinary studies and to develop quality professionals in the field of disability studies. The centre has plans to conduct the following;

 - Student Exchange Programmes
 - Faculty Exchange Programmes
- **Formation of Self Help Groups in different districts:** The centre proposes to form self-help groups of parents/caregivers.
- **Formation of Team of Volunteers in the name “FRIENDS OF IUCDS”:** To pool the services of experts and well-wishers of IUCDS, the centre is planning to form a team of volunteers in the name “Friends of IUCDS”.



INTER UNIVERSITY INSTRUMENTATION CENTRE (IUIIC)

| | | | |
|-----------|---|----------|--|
| 1. | Name of the Department | : | Inter University Instrumentation Centre (IUIIC) |
| 2. | Year of establishment | : | 2011 |
| 3. | Is the Department part of a School/Faculty of the University? | : | Faculty of Science & Faculty of Applied Science and Technology |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | Ph. D. |
| 5. | Interdisciplinary programmes and departments involved | : | Interdisciplinary Scientific Research from Chemistry, Physics, Biology, Environmental Science and Nanoscience. |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | Nil |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil |
| 8. | Examination System | : | Not Applicable |
| 9. | Participation of the department in the courses offered by other departments | : | Nil |



| | | | | |
|--|----------------------|------------|--------|-----------------------------|
| 10. Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | | Sanctioned | Filled | Actual(including CAS & MPS) |
| | Professor | - | - | - |
| | Associate Professors | - | - | - |
| | Asst. Professors | - | - | - |
| | Others | - | - | - |

The following are the regular faculty members involved in the Centre.

1. Prof. C. T. Aravindakumar (School of Environmental Sciences) (Hon. Director)
2. Dr. Prakashkumar B. (School of Biosciences) (Joint Director)
3. Prof. Sabu Thomas (Polymer Technology)
4. Prof. N. V. Unnikrishnan (Pure and Applied Physics)
5. Prof. G. Sudarshanakumar (Pure and applied Physics)
6. Dr. Jayachandran K. (Biosciences)
7. Dr. E.V. Ramasamy (Environmental Sciences)
8. Dr. Nandakumar Kalarikkal (Nanotechnology)
9. Dr. Anilkumar G. (Organic Chemistry)
10. Dr. Radhakrishnan E. K. (Microbiology)

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./ M.Phil. students guided for the last 6 years* |
|---------------------------|---------------|---------------------|---------------------------------------|----------------------------|---|
| Prof. C. T. Aravindakumar | Ph. D. | Professor | Physical Organic Chemistry | 23 | 2 Ph. D. Students Currently working |
| Dr. Prakashkumar B. | Ph. D. | Associate Professor | Biochemistry | 16 | |
| Prof. Sabu Thomas | Ph. D. | Professor | Polymer Chemistry | 30 | |
| Prof. N. V. Unnikrishnan | Ph. D. | Professor | Material Science, Solid State Physics | 30 | |



| | | | | | |
|---------------------------|--------|---------------------|-----------------------------|----|--|
| Prof. G. Sudarshanakumar | Ph. D. | Professor | Physics | 22 | |
| Dr. Jayachandran K. | Ph. D. | Associate Professor | Biosciences | 18 | |
| Dr. E.V. Ramasamy | Ph. D. | Professor | Environmental Biotechnology | 16 | |
| Dr. Nandakumar Kalarikkal | Ph. D. | Associate Professor | Nano technology | 21 | |
| Dr. Anilkumar G. | Ph. D. | Associate Professor | Synthetic Chemistry | 10 | |
| Dr. Radhakrishnan E. K. | Ph. D. | Assistant Professor | Biosciences | 6 | |

*These faculty members have their own Ph. D. students at the respective departments, but utilizing the facilities in the Centre.

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:

Visiting Scientist

1. Dr. K. P. Madhusudanan (Former Head, SAIF, CDRI, Lucknow)

| Other distinguished Scientists Visited the Centre for the last 4 years | | |
|--|-----------------------------|---|
| 1. | Prof. Renato Falcao Dantas | University of Campinas – UNICAMP, Brazil |
| 2. | Dr. Despo Fatta Kassinos | Department of Civil and Environmental Engineering, Nireas International Water Research Center, University of Cyprus, Nicosia-Cyprus |
| 3. | Dr. Urška Lavrenčič Štangar | University of Nova Gorica, Nova Gorica, Slovenia |
| 4. | Prof. Yoram Oran | Department of Desalination and Water Treatment, Zuckerberg Institute for Water Research, Blaustein Institutes for Desert research, Ben-Gurion University of the Negev, Israel |
| 5. | Dr. S. Prabhakar | National Center for Mass Spectrometry, CSIR-IICT, Hyderabad |
| 6. | Dr. Murali Chilakapati | Advanced Center for Treatment, Research & Education in Cancer (ACTREC), Kharghar, Mumbai |
| 7. | Dr. M. Vairamani | SRM University, Tamil Nadu |
| 8. | Dr. R. Srinivas | National Center for Mass Spectrometry, CSIR-IICT, Hyderabad |
| 9. | Prof. Athula Attygalle | Stevens Institute of Technology, USA |
| 10. | Dr. Marc J-F Suter | Eawag, Switzerland |
| 11. | Dr. Laurent Debrauwer | Université de Toulouse, France |
| 12. | Prof. Olivier Laprevote | Paris Descartes University, France |



13. Percentage of classes taken by temporary faculty – programme-wise information:
Not Applicable

14. Programme-wise Student Teacher Ratio: Not Applicable

15. Number of academic support staff (technical) and administrative staff (sanctioned, filled and actual): Temporary Staff: 2

16. Research thrust areas as recognized by major funding agencies:

- Water pollution monitoring
- Air pollution monitoring
- Advanced oxidation processes
- Environmental and biological application of mass spectrometry
- Nanoscience and nanotechnology
- Membrane science and technology
- Phytochemistry & Natural Product Research
- Bioremediation
- Environmental biotechnology
- X-ray crystallography

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise:

Nil

18. Inter-institutional collaborative projects and associated grants received:

a. National collaboration

- National Centre of Free Radical Research, Pune
- National Center for Ultrafast Processes, Chennai
- Bhabha Atomic Research Centre, Mumbai

b. International collaboration

- California Institute of Technology, USA
- University of Paris East Marne-la-valee, France
- Pohang University of Science and Technology, Korea

The above are collaborative programmes where financial support is being extended from the respective institutions, but not as specific funding.



19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received:

- DST (SAIF) Rs. 6.5 crores, (sanctioned); Rs. 2 Crores (Received)

20. Research facility / centre with

- State recognition
- National recognition
- International recognition

No recognition yet; but planning to apply for National recognition

21. Special research laboratories sponsored by / created by industry or corporate Bodies: Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 307 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 100 |
| 4. | Chapters in Books | 3 |
| 5. | Edited Books | 13 |
| 6. | Books authored with ISBN | 8 |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| 9. | Total | 431 |

- Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- Citation Index – range / average
- SNIP
- SJR
- Impact Factor – range / average : 1-7
- h-index : 20 (Prof. C. T. Aravindakumar)
21 (Dr. G. Anilkumar)
78 (Prof. Sabu Thomas),
11 (Dr. Nandakumar Kalarikkal)
14 (Dr. E.V. Ramasamy)



23. Details of patents and income generated : Nil

24. Areas of consultancy and income generated :

The Center provides advanced analytical instrumental facility which is accessible to the academic/research community in the country. The beneficiaries include the various research organizations, state/central universities and colleges. The Center generates income from the analysis (LC-Q-ToF-MS, FTIR, HPLC, UV-visible spectrophotometer).

| Sl. No | Year | Income (₹) in Lakhs |
|--------|-------|---------------------|
| 1 | 2013 | 0.22 |
| 2 | 2014 | 1.24 |
| 3 | 2015 | 2.33 |
| 4 | 2016 | 1.67 |
| | Total | 5.46 |

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad:

| Sl. No. | Name of the faculty | Laboratory/ Research area |
|---------|------------------------|---|
| 1 | Dr. C.T. Aravindakumar | (1) University of Paris (S) / Pulse radiolysis, 2011 &, 2012 (2) Norwegian University of Science and Technology, Trondheim, Norway / Membrane Science, 2012 (3) University of Paris (East, MIV) 2013 & 2015 / Advanced oxidation Process (4) Technical University of Denmark, Denmark 2015 / Membrane science (5) Hanoi University of Science & Technology, Vietnam, 2013/ Water purification technology (6) King Mongkut's University of Technology Thonburi, Thailand, .2012 / Water purification (7) University of Copenhagen 2015 / Mass spectrometry |


26. Faculty serving in:
a. National committees

| Sl.No | Name of the faculty | Committee |
|-------|--------------------------|--|
| 1 | Dr. C.T. Aravindakumar | Expert Panel of the <i>Water Technology Initiative (WTI)</i> of the Department of Science & Technology, Govt. of India-2015-2019 |
| | | Antarctic Selection Committee – 2016 |
| | | Arctic selection committee - 2015 |
| | | Group leader in Environmental Science, Polar science policy deduction for Ministry of Earth Science, 2016 |
| | | Member and Secretary: Society of Environmental Chemistry and Allied Sciences |
| | | Member: Indian Society of Radiation and Photochemical Sciences |
| 2 | Prof. N. V. Unnikrishnan | Indian Laser Association (Life member) |
| | | Resource group (Shashtra poshini) |
| 3 | Prof. Sabu Thomas | Member of Indian Membrane Society |
| | | Member of Polymer Society of India |
| | | Member of Society of Disordered Materials |
| | | Member of Society of Polymer Technologists, University of Cochin |
| | | Member of Mahatma Gandhi University Chemical Society |
| 4 | Prof. G. Sudarshanakumar | Life Member of Indian Crystallographic Association (2005-) |

b. International committees

| Sl. No. | Name of the faculty | Committee |
|---------|--------------------------|---|
| 1 | Dr. C.T. Aravindakumar | Oslo Governance Forum (UNDP 2012), Norway |
| 2 | Prof. N. V. Unnikrishnan | American chemical society- St.Columbus, USA |
| 3 | Prof. Sabu Thomas | (1)Member of American Chemical Society (Rubber Division), (2) Fellow of New York Academy of Sciences, USA |
| 4 | Prof. G. Sudarshanakumar | Member of the American Chemical Society, USA (2016-) |
| | | Member of the American Crystallographic Association, USA (1998-2001) |
| | | Member of the Institute of Physics, USA (1998-2001) |



c. Editorial Boards

| Sl. No. | Name of the faculty | Journal |
|---------|-------------------------|--|
| 1 | Dr. C.T. Aravindakumar | International Journal of Chemistry (ISSN: 2249-2119) |
| 2. | Dr. Radhakrishnan E. K. | Journal of Food & Industrial Microbiology International Journal of Advanced Research and Review |
| 3. | Prof. Sabu Thomas | <ul style="list-style-type: none"> • SM Journal of Nanotechnology and Nanomedicine • Nano Advances • Materials Science and Engineering (Editorial Key Reviewers Committee) • International Journal of Advances In Engineering Research • World Journal of Biotechnology • Journal of Emerging Materials Technology • Associate Editor, Bulletin of Materials Science • Regional Editor of the journal "Current Smart Materials". • Editor in-Chief of Editorial Board-International Journal of Science World (IJSW) |

d. Any other

| Sl. No. | Name of the faculty | Committee |
|---------|--------------------------|---|
| 1 | Dr. C.T. Aravindakumar | Governing Council and Executive Committee of Institute of Climate Change, Govt of Kerala High power committee, SAIF, Cusat-Cochin Member Board of Studies- Department of Environmental Studies, CUSAT, Kochi |
| 2 | Dr. E.V. Ramasamy | Member, Technical Committee, Suchithwa Mission, Government of Kerala |
| 3 | Dr. Radhakrishnan E. K. | Board of studies for Microbiology, Kerala University Board of studies for Microbiology, SB College, Changanassery |
| 4 | Prof. N. V. Unnikrishnan | High power committee, SAIF, Cusat-Cochin |
| 5 | Prof. G. Sudarshanakumar | Member, Board of Studies – Physics, C.M.S.College, Kottayam Member Board of Studies- Department of Physics, CUSAT, Kochi. Member Board of Studies- Department of Instrumentation, CUSAT, Kochi. Chairman, BOS 2014(MSc, MPhil), SPAP, M. G. University, Kottayam Member Board of Studies- Subject Expert, S.B.College, Changanassery. |



27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs): Nil

28. Student projects:

- Percentage of students who have done in-house projects including interdepartmental projects: NA
- Percentage of students doing projects in collaboration with other universities / industry / institute: NA

29. Awards / recognitions received at the national and international level by

- Faculty

| A | Research awards received by the faculty |
|-----------------------|---|
| Dr.C.T. Aravindakumar | <ul style="list-style-type: none"> • Invited member of the Oslo Governance Forum (OGF), Oslo (UNDP) 2011 • Visiting Professor (with full Professor status) at the University of Paris-East (Department of Geology and Environment) 2013 • Visiting Professor at the University of Paris-East with full professor status, 2015 • Team Leader in Environmental Science to formulate the research policy of the Ministry of Earth Science in India's Polar Research (Arctic/Antarctic/Southern Ocean/Himalaya) for the next 10 years. The Brainstorming Meeting on Polar Sciences and Global Water Cycle was held at the National Center for Antarctic and Ocean Research (NCAOR), Goa during April 13-14, 2016. • Governing Council member and Executive Committee member of the Kerala State Institute of Climate Change Studies-2014 • Expert for identifying research proposals for the India's 36th Antarctic Expedition 2016. The workshop was held during June 9-10, 2016 • Expert Panel of the Water Technology Initiative (WTI) of the Department of Science & Technology, Govt. of India 2015 |
| Dr.E. V. Ramasamy | <ul style="list-style-type: none"> • Member of the State Waste Management Policy Committee by the Local Self Government Department, Govt. of Kerala (November 14, 2012) • Member of the Special Board of Studies in Pollution Control and Environmental Engineering of Pondicherry University (October 26, 2012) |



| | |
|---------------------------|---|
| | <ul style="list-style-type: none">• Member of the State Waste Management Policy Committee by the Local Self Government Department, Govt. of Kerala , attended several meetings of the committee during 2014-15• Member of the Technical Committee of Suchitwa Mission , Local Self Government Department, Govt. of Kerala , attended several meetings of the committee during 2014-15• Participation in the selection committee meeting of the CWRDM (Centre for Water Resources Development and Management), Kozhikode as a subject expert in the interview board for the selection of Scientist-B during July 02- 03, 2015.• Participation as the member of Board of Studies for the the B. Voc. Programme on Environmental Assessment and Remediation on Monday the 14th September, 2015, at Virudhunagar Hindu Nadars'; Senthikumara Nadar College, (Autonomous), Virudhunagar, Tamil Nadu.• Participation in the Technical Committee meeting for evaluating the technical presentations of the organisations who have short listed for New Technologies on 28.11.2015 at 10.30 A.M onwards at the Office of State Institute of Health and Family Welfare, Thycaud, Thiruvananthapuram, organised by Suchitwa Mission, Local Self Governance Department (LSGD), Govt. of Kerala |
| Dr. E. K Radhakrishnan | <ul style="list-style-type: none">• Honoured presentation of “Bharat Gaurav Award” by India International Friendship Society, May 2016. |
| Prof. Sabu Thomas | <ul style="list-style-type: none">• Distinguished Professorship Award, Josef Stefan Institute, Slovenia,2010• Fellow of the Royal Society of Chemistry, London, FRSC,2012• Awarded Bronze Medal of Chemical Research Society (CRSI) of India, 2013• Awarded Materials Research Society of India Award (MRSI), 2013• Awarded Society For Educational & Scientific Research. (SESR) Nanotech Scientist Award- 2014,• Awarded Doctorat Honoris causa-LIMATB, University of South Brittany, France 2015 |
| Dr. Nandakumar Kalarikkal | <ul style="list-style-type: none">• Visiting Fellow, Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore, India• Visiting Professor, Gulbarga University, Gulbarga, Karnataka under SAP scheme of UGC• Visiting Professor, Alemaya University & Mekkele University, Ethiopia |



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|----------------------------------|---|
| | <ul style="list-style-type: none"> Conference Fellowship Award of the Seventh International Conference on Phonon Scattering in Condensed Matter held at Cornell University, USA |
| B | Research awards received by the students |
| Doctoral / Post-doctoral fellows | <ul style="list-style-type: none"> Jisha C, Muneer Muhammed, U. K. Aravind and C. T. Aravindakumar, Transport studies of lysine through CHI/PSS multilayers, Proceeding of the International conference on Nano -biomaterials, Kottayam, 2014 (best paper) |

30. Seminars/ Conferences/Workshops organized and the source of funding (national/ international) with details of outstanding participants, if any:

| Sl. No. | Name of the conference/workshop | Funding agency | Details of outstanding participants |
|---------|---|----------------|---|
| 1. | National Workshop on Frontiers of Spectroscopy and Microscopy, Sept 10-12, 2012 | DST-PURSE | <ul style="list-style-type: none"> Prof. K.V.Ramanathan, IISc, Bangalore (NMR Spectroscopy) Dr. Venkat Manohar, IICMS, Chennai (MS- Proteomics) Dr. Unnikrishnan Warriar C. CWRDM, Calicut (Isotopes ratio - MS) Prof. P.M.G. Nambissan, SINP, Kolkata (Positron Annihilation) |
| 2. | National Seminar on "Uptrends in Chemical Sciences and Technology"- 2013 March 15-16, 2013 | UGC | <ol style="list-style-type: none"> Dr. T. Pradeep, IIT Chennai Prof. A. Ajayaghosh, CSIR- O Scientist & Dean, Academy of Scientific And Innovative Research, Niist, Trivandrum Prof. Santhanu Bhattacharya, IISc, Bangalore Prof. A.K. Mishra, IIT Chennai Dr. Y.S. Mayya, BARC, Mumbai |
| 3. | National Workshop on Mass Spectrometry Sept. 5-6, 2013 | DST | <ol style="list-style-type: none"> Dr. M. Vairamani, SRM University Dr. Nagarjuna Nagaraj, Max-Planck-Institut für Biochemie, Germany Dr. K. P. Madhusudanan, Visiting Scientist, IUIC Dr. Gopal Vaidyanathan, Waters India Pvt. Ltd. Dr. Jitendra Kelkar, Shimadzu |



| | | | |
|----|---|---|---|
| | | | <p>Analytical (India) Pvt. Ltd.</p> <p>6. Dr. Ajit Datar, Shimadzu Analytical (India) Pvt. Ltd.</p> <p>7. Mr. K. Mohan, Spinco Biotech Pvt Ltd.</p> <p>8. Mr. Vivek Dhyani, Ageilent Technologies</p> |
| 4. | <p>International Conference on Mass Spectrometry, ICMS-2013 Sept. 6-9, 2013</p> | <p>KSCSTE, BRNS, CSIR, M. G. University</p> | <p>1. Dr. Olivier Laprevote, Paris Descartes University, France</p> <p>2. Dr. Mahesh J. Kulkarni, National Chemical Laboratory, Pune, India</p> <p>3. Prof. Kentaro Yamaguchi, Tokushima Bunri University, Japan</p> <p>4. Dr. Venkateswarlu Panchagnula, National Chemical Laboratory, Pune</p> <p>5. Dr. R. Srinivas, National Center for Mass Spectrometry, India</p> <p>6. Dr. S. K. Gupta, Bhabha Atomic Research Centre, Mumbai, India</p> <p>7. Dr. Nagarjuna Nagaraj, Max-Planck-Institut für Biochemie, Germany</p> |
| 5. | <p>National Colloquium on Mass Spectrometry, Chemical, Biological and Environmental applications Aug. 29-31, 2014</p> | <p>KSCSTE</p> | <p>1. Dr. K. P. Madhusudanan, Visiting Scientist, IUIC, MGU</p> <p>2. Dr. S.K. Raza, Institute of Pesticide Formulation Technology, Gurgaon</p> <p>3. Dr. M.V. Jagannadham, CSIR-CCMB, Hyderabad</p> <p>4. Dr. Abdul Jaleel K. A., RGCB, TVM),</p> <p>5. Dr. Thomas Biju Mathew, College of Agriculture, Vellayani, Thiruvananthapuram</p> <p>6. Dr. Prabhakar Sripadi, Indian Institute of Chemical Technology, Hyderabad</p> <p>7. Prof. Ramaswamy Babu Rajendran, Bharathidasan University, Tiruchirappalli</p> |
| 6. | <p>International Conference on Advanced Oxidation Processes, AOP- 2014 Sept. 25-28, 2014</p> | <p>DST, KSCSTE, BRNS, ISRO</p> | <p>1. Dr. Michael R. Hoffmann, California Institute of Technology, USA</p> |



| | | | |
|-----------|---|------------|--|
| | | | <ol style="list-style-type: none"> 2. Prof. Mehmet A. Oturan, Universite Paris-Est, Marne-la-Vallee, France 3. Dr. Collin G. Joseph, Universiti Malaysia Sabah, MALAYSIA 4. Prof. D. Fatta-Kassinou, School of Engineering, University of Cyprus, Cyprus\ 5. Prof. Minjoong Yoon, Chungnam National University, Daejeon, South Korea 6. Dr. Renato Falcao Dantas, University of Campinas – UNICAMP, Paschoal Marmo, Limeira SP, Brazil 7. Dr. Christophe Colbeau-Justin, CNRS - Universite Paris-SudOrsay – France 8. Dr. Urška Lavrenčič Štangar, University of Nova Gorica , Nova Gorica, Slovenia 9. Dr. Randolph P. Thummel, University of Houston, USA 10. Dr. Vincent Goetz, Rambla de la Thermodynamique, Perpignan, France 11. Dr. Isabel Oller Alberola, Plataforma Solar de Almería-CIEMAT, Spain 12. Dr. Indira Priyadarshini, BARC, Mumbai |
| <p>7.</p> | <p>International Conference on Water, ICW-2015 Jan. 23-26, 2015</p> | <p>DST</p> | <ol style="list-style-type: none"> 1. Prof. Mark R. Weisner, Duke University, USA. 2. Prof. Yoram Oren, Zukerberg Institute for Water Research, Israel. 3. Dr. Anne M. Hansen, Mexican Institute of Water Technology, Mexico. 4. Dr. Martina Zelenakova, Technical University of Kosice, Slovakia. 5. Prof. Matthews Theo F. A. Goosen, Alfaisal University, Saudi Arabia. 6. Dr. Dayanthi Nugegoda, RMIT University, Australia. |



| | | | |
|-----|---|------------------|---|
| | | | <p>7. Dr. Tasuma Suzuki, Yamaguchi University, Japan.</p> <p>8. Dr. A. H. Essadki, Hassan II University, Morocco.</p> |
| 8. | National Workshop on Mass Spectrometry and Raman Microscopy, NWMR-2015 March 27-28, 2015 | M.G. University | <p>1. Dr. S. Prabhakar, Senior Scientist, IICT, Hyderabad</p> <p>2. Mr. Arghya Acharjee, Senior Application specialist, Waters India Pvt. Ltd.</p> <p>3. Dr. Murali Chilakapati, Advanced Center for Treatment, Research & Education in Cancer (ACTREC), Kharghar, Mumbai</p> <p>4. Mr. Hitesh Mangain, Application Scientist, Toshniwal Bros (SR) Pvt. Ltd.</p> |
| 9. | Third International Conference on Membranes, ICM-2015 Aug. 21-24, 2015 | DRDO | <p>1. Prof. Y. Oren, Zuckerberg Institute for Water Research, Israel</p> <p>2. Prof. Vladimir Teplyakov, Russian Academy of Sciences, Russia</p> <p>3. Prof. Andreas Kaiser, Technical University of Denmark, Denmark</p> <p>4. Dr. Thomas Luxbacher, Anton Paar GmbH, Austria</p> <p>5. Dr. Nobuo Hara, AIST, Japan</p> <p>6. Dr. Mikihiro Nomura, Shibaura Institute of Technology, Japan</p> <p>7. Dr. Sébastien Balme, Institut Européen des Membranes, France</p> <p>8. Dr. Sylvie Condom, Institut Européen des Membranes de Montpellier, France</p> <p>9. Dr. G. Golemme, University of Calabria, Italy</p> <p>10. Dr. Joëlle Bassil, Université de Lorraine, France</p> <p>11. Dr. Hassini Noureddine, University of Oran, Algeria</p> |
| 10. | National Workshop on Mass Spectrometry (NWMS-2015), Dec. 10-11, 2015 | M. G. University | <p>1. Dr. M. Vairamani, SRM University, Chennai</p> <p>2. Dr. K. Madhusudan, IUIC, M. G. University</p> <p>3. Dr. R. Srinivas, National Center for Mass Spectrometry, CSIR-IICT, Hyderabad</p> |



| | | | |
|-----|--|-------------------------|---|
| | | | 4. Prof. Athula Attygalle , Stevens Institute of Technology, USA. |
| 11. | International Conference on Mass Spectrometry, ICMS-2015 Dec. 11-14, 2015 | DST, KSCSTE, DRDO | 1. Dr. Marc J-F Suter , Eawag, Switzerland 2. Prof. Athula Attygalle , Stevens Institute of Technology, USA 3. Dr. R. Srinivas , National Center for Mass Spectrometry, India 4. Dr. Keshava Prasad , Institute of Bioinformatics, India 5. Prof. Olivier Laprevote , Paris Descartes University, France 6. Prof. Evgeny Nikolaev , The Institute for Energy Problems of Chemical Physics Russian Academy of Sciences, Russia 7. Dr. Suman S. Thakur , Centre for Cellular & Molecular Biology, Hyderabad 8. Dr. Laurent Debrauwer , Université de Toulouse, France 9. Dr. M. Joseph , Indira Gandhi Centre for Atomic Research, Kalpakkam 10. Dr. Pierangela Palma , Università di Urbino, Italy 11. Dr. Achilles Cappiello , Università di Urbino, Italy 12. Prof. Michael W. Linscheid , Humboldt-Universitaet zu Berlin, Germany |

31. Code of ethics for research followed by the departments:

(1) Plagiarism will be assessed before thesis submission (2) The guidelines of the ethical committee of the University are being strictly followed (e.g. Animal Ethical Committee for all kind of research related to living organisms)

32. Student profile programme-wise:

| Name of the Programme (refer to question no. 4) | Applications received | Selected | | Pass percentage | |
|--|---|----------|--------|-----------------|---------------|
| | | Male | Female | Male | Female |
| Ph.D. | Direct entry after clearing JRF and MPhil | -- | 2 | -- | Not completed |



33. Diversity of students:

| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|--|--|--|---|------------------------------------|
| --- | -- | 100 | --- | --- |

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise:

Nil

35. Student progression : Not applicable

36. Diversity of staff:

| Percentage of faculty who are graduates | |
|--|-----|
| of the same university | Nil |
| from other universities within the State | 50% |
| from universities from other States | 50% |
| from universities outside the country | Nil |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: Nil

38. Present details of departmental infrastructural facilities with regard to

- a. Library : 70 books
- b. Internet facilities for staff and students: Complete
- c. Total number of class rooms: Nil
- d. Class rooms with ICT facility: Nil
- e. Students' laboratories : 5
- f. Research laboratories: 5

39. List of doctoral, post-doctoral students and Research Associates:

- a. from the host institution/university: Dr. Baburaj M. S. (2010-2015), Dr. Krishnaraj K.U. (2012-2015) (Post-doctoral)
- b. from other institutions/universities: Jisha C., Reena P. S. (Doctoral Students), Dr. Jinu John (2012-2015) (Post-doctoral)

40. Number of post graduate students getting financial assistance from the university: Nil

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. All new programmes were started after having a thorough feedback from all stakeholders

**42. Does the department obtain feedback from**

- i. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback: Not applicable
- ii. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback: Not applicable
- iii. Alumni and employers on the programmes offered and how does the department utilize the feedback: Not applicable

43. List the distinguished alumni of the department (maximum 10): Nil**44. Give details of student enrichment programmes (special lectures / workshops /seminar) involving external experts:**

There are periodic workshops and training programmes organized by this centre. Special lectures from many visiting scholars from India and abroad were organized.

| Sl. No. | Name of the conference/workshop | Details of External Experts |
|---------|--|--|
| 1 | Short term training programme in analytical instrumentation, May 13-15, 2013 (HPLC, GC, FT-IR, IC) | In house faculty members |
| 2 | National Workshop on Mass Spectrometry, Sept. 5-6, 2013 | <ol style="list-style-type: none"> 1. Dr. M. Vairamani, SRM University 2. Dr. Nagarjuna Nagaraj, Max-Planck-Institut für Biochemie, Germany 3. Dr. K. P. Madhusudanan, Visiting Scientist, IUIIC 4. Dr. Gopal Vaidyanathan, Waters India Pvt. Ltd. 5. Dr. Jitendra Kelkar, Shimadzu Analytical (India) Pvt. Ltd. 6. Dr. Ajit Datar, Shimadzu Analytical (India) Pvt. Ltd. 7. Mr. K. Mohan, Spinco Biotech Pvt Ltd. 8. Mr. Vivek Dhyani, Agilent Technologies |
| 3 | National Seminar on Recent Advances in Photochemistry, Dec. 5-6, 2013 | In collaboration with St-Michaels college, chertala |
| 4 | National Seminar on "Uptrends in Chemical Sciences and Technology", March 15-16, 2014 | <ol style="list-style-type: none"> 1. Dr. T. Pradeep, IIT Chennai 2. Prof. A. Ajayaghosh, CSIR- O Scientist & Dean, Academy of Scientific And Innovative Research, Niist, Trivandrum |



| | | |
|---|---|--|
| | | <ol style="list-style-type: none">3. Prof. Santhanu Bhattacharya, IISc, Bangalore4. Prof. A.K. Mishra, IIT Chennai5. Dr. Y.S. Mayya, BARC, Mumbai |
| 5 | National Colloquium on Mass Spectrometry, Chemical, Biological and Environmental applications, Aug. 29-31, 2014 | <ol style="list-style-type: none">1. Dr. K. P. Madhusudanan, Visiting Scientist, IUIIC, MGU2. Dr S.K. Raza, Institute of Pesticide Formulation Technology, Gurgaon3. Dr. M.V. Jagannadham, CSIR-CCMB, Hyderabad4. Dr. Abdul Jaleel K. A., RGCB, TVM),5. Dr. Thomas Biju Mathew, College of Agriculture, Vellayani, Thiruvananthapuram6. Dr. Prabhakar Sripadi, Indian Institute of Chemical Technology, Hyderabad7. Prof. Ramaswamy Babu Rajendran, Bharathidasan University, Tiruchirappalli |
| 6 | National Workshop on Mass Spectrometry and Raman Microscopy (NWMR), March 27-28, 2015 | <ol style="list-style-type: none">1. Dr. S. Prabhakar, Senior Scientist, IICT, Hyderabad2. Mr. Arghya Acharjee, Senior Application specialist, Waters India Pvt. Ltd.3. Dr. Murali Chilakapati, Advanced Center for Treatment, Research & Education in Cancer (ACTREC), Kharghar, Mumbai4. Mr. Hitesh Mamgain, Application Scientist, Toshniwal Bros (SR) Pvt. Ltd. |
| 7 | National Workshop on Mass Spectrometry, Dec. 10-11, 2015 | <ol style="list-style-type: none">1. Dr. M. Vairamani, SRM University, Chennai2. Dr. K. Madhusudanan, IUIIC, M. G. University3. Dr. R. Srinivas, National Center for Mass Spectrometry, CSIR-IICT, Hyderabad4. Prof. Athula Attygalle, Stevens Institute of Technology, USA |



45. List the teaching methods adopted by the faculty for different programmes: Only Ph. D. programme.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored:

There are two mandates for the Centre (1) Advanced Level Research (2) Facility provider (sophisticated analytical equipment). There is a faculty council comprises of faculty members from all the disciplines. This faculty council regularly assesses the progress of the centre. In addition, there is an Executive Committee constituted by the University which oversees the entire functioning of the centre.

47. Highlight the participation of students and faculty in extension activities:

Consultancy service in chemical analysis. The analytical facility of the centre is being utilised by many research centres in the country on payment basis. The following are the number of users of this facility in the past

- | | |
|-------------------------------------|-------|
| a. From Schools of M. G. University | : 146 |
| b. From State/Central Universities | : 93 |
| c. From NIT/IIT/IISER | : 27 |
| d. From Research Centres | : 54 |
| e. From Industry | : 1 |

48. Give details of “beyond syllabus scholarly activities” of the department:

Conduct of international conferences, workshops and short term training programmes.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details: No

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:

A number of research groups produced excellent publications utilizing the facilities of the Centre in very reputed journals. These publications are of both basic and applied in nature.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:

Strength:

- State of the art facilities for advanced level research,
- Interdisciplinary nature of research,
- Involvement of researchers from all the Universities in the state,
- Support from both State Government and University,
- Excellent research output within a short span of 4 years

Weakness:

- Lack of sufficient manpower,



- New UGC rule restricts intake of Ph.D students.
- Lack of enough space.
- Lack of enough publicity on the availability of instruments and service despite efforts through cyber publicity.
- Lack of permanent faculties restricts applications to many Departmental Projects (eg. FIST (DST), SARD (KSCSTE) etc.

Opportunities:

- Research in major inter disciplinary areas of science,
- Access to utilize the entire facilities of the centre by any researcher in the state,
- Man power training in advanced instrumentation,
- Possibility for young researchers to interact with experts from within and outside India,
- Facility for short term projects for post graduate students

Challenges:

- Strengthening the consultancy service with insufficient man power, particularly technical man power,
- Supply of continuous (24 hr) electricity to some of the major equipment against power failure, more involvement of faculties from research centres in affiliated colleges.
- Up keeping the instruments in full working condition
- Collection of data on users acknowledgements in publications

52. Future plans of the department:

- Resetting the centre in the new “Convergence Academy Complex”.
- Centre of Excellence in Mass Spectrometry and Material Science.
- Accredited Laboratory for Food/beverage/water/air/soil testing.
- Procurement of more sophisticated analytical instruments.
- Certificate/diploma courses in analytical instrumentation.
- Online diploma in Analytical Instrumentation.



**INTER UNIVERSITY CENTRE FOR SOCIAL SCIENCE
RESEARCH AND EXTENSION IUCSSRE**

| | | | | | | |
|-----|--|---|--|------------|--------|-----------------------------|
| 1. | Name of the Department | : | Inter University Centre for Social Science Research and Extension (IUCSSRE) | | | |
| 2. | Year of establishment | : | 2010 | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, Faculty of Social Science | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | Ph.D | | | |
| 5. | Interdisciplinary programmes and departments involved | : | Nil | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | Nil | | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil | | | |
| 8. | Examination System | : | Nil | | | |
| 9. | Participation of the department in the courses offered by other departments | : | Our PhD students have participated in training workshops and methodology courses offered by other social science institutions in India | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | : | | Sanctioned | Filled | Actual(including CAS & MPS) |
| | | | Professor | - | - | - |
| | | | Associate Professors | - | - | - |
| | | | Asst. Professors | - | - | - |
| | | | Others | - | - | - |



11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance :

| Name | Qualification | Designation | Specialization | No. of years of Experience | No. of Ph.D./ M.Phil. students guided for the last 6 years* |
|-----------------------|---------------|---------------------|--|----------------------------|---|
| Dr. P Sanal Mohan | PhD | Hon. Director | History and Ethnography, Dalit Studies, Christianity, Modernity, Social Movement. | 23 Yrs | |
| Ms. Radhika P | M.Phil | Hon. Joint Director | Medieval social history, Kerala History, Social theory, Gender studies & Human geography | 18 Yrs | |
| Dr. P Madhu | PhD | Associate Fellow | Social theory, Social praxis & Tribal studies | 4 Yrs | |
| Ms. Mini Sukumar | M.Phil | Assistant Fellow | Women's studies | 1 Yr | |
| Ms. Elizabeth Abraham | M.Phil | Research Fellow | Gender studies, Political Sciences Oral history & Caste studies | 5 Yrs | |
| Ms. Susan Simon | M.Phil | Research Fellow | Human Geography | 3 Yrs | |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:

- Dr. Kavitha Philip
- Dr. Meera Velayudhan
- Dr. K V Kunhikrishnan

13. Percentage of classes taken by temporary faculty – programme-wise information:

90%

14. Programme-wise Student Teacher Ratio: 4:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:

Sanctioned: 3

Filled: 2

Work arrangements: 1

16. **Research thrust areas as recognized by major funding agencies:** Minority Studies, Gender Studies, Human Ecology and Human Geography
17. **Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise:** National -6 (ICSSR-1, Higher Education Council-5)

| Sl No. | Project | Funding Agency | Amount in Lakhs(₹) |
|--------|--|-------------------------------|--------------------|
| 1. | Writing Dalit lives: Anthology of Women's Voices from Kerala | ICSSR, New Delhi | 7.50 |
| 2. | Trans-formation of Land and Landscapes of Kerala: Locality Studies | Higher Education Council, GoK | 75.00 |
| 3. | Women's Struggle: A Documentation of Feminist Movement in Kerala | Higher Education Council, GoK | |
| 4. | Traditional Healing in a 'Modern Society: A Study on Policy, Practices and Pedagogy of Selected Healing Traditions in Kerala | Higher Education Council, GoK | |
| 5. | Human Ecological Studies Of Indigenous Communities in the Southern Western Ghats | Higher Education Council, GoK | |

Total grants received: ₹ 82.5 Lakhs

18. Inter-institutional collaborative projects and associated grants received

- a) National collaboration: Nil, Writing workshops in collaboration with Kannur and Calicut University
- b) International collaboration: Small maritime community project - 'The Kerala Maritime Community Projects

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received :

Nil

20. Research facility / centre with

- State recognition : Yes



- National recognition : Yes
- International recognition: Yes

21. Special research laboratories sponsored by / created by industry or corporate bodies: Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 7 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 0 |
| 4. | Chapters in Books | 6 |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | 2 |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | 9 |
| | Total | 24 |

- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) :
- Citation Index : 27
- SNIP :
- SJR:
- Impact factor :
- H-index : 4

23. Details of patents and income generated : Paid to University ₹ 56,000/- (ICSSR Project)

24. Areas of consultancy and income generated: Functioning as Panchayath desk for consulting with the Local Self Government representatives.

25. Faculty selected nationally / internationally to visit other laboratories / institutions/ industries in India and abroad : Dr. P Sanal Mohan has visited many national and international reputed institute

26. Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any other (please specify) :

- International committee: Dalit Literature and/in translation, International network

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) : NA

28. Student projects:

- percentage of students who have done in-house projects including inter-departmental projects : 75 %
- percentage of students doing projects in collaboration with other universities / industry / institute — Nil

29. Awards / recognitions received at the national and international level by

- Faculty – 5 (one international Research award and 4 International Post Doc awards)
- Doctoral / Post-doctoral fellows
- Students

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any:

| SI No. | Year | Seminars/ Conferences/Workshops |
|--------|---------|--|
| 1. | 2011-12 | Two Gender Studies Workshops for research students. (one national level and one regional level) |
| 2. | | Two academic writing workshops |
| 3. | | Marma vaidhyam consultancy workshop in association with Kalady Sanskrit Universit |
| 4. | | Panel discussion on science technology and society |
| 5. | | Panel discussion on science technology and society |
| 6. | | Two consultancy meetings with Kerala Grama Panchayath association |
| 7. | | Three day workshop for curriculum designing for elected members of the local self-governing bodies |
| 8. | | Two day seminar on local knowledge systems in association with ACESSD, M G University |
| 9. | 2012-13 | Two day Gender Studies Workshop for research students. |
| 10. | | Two day Gender Studies Workshop for research students |
| 11. | | National Seminar on 'New History' with the support of ICHR; Theme Discussion (1) |
| 12. | 2013-14 | Five day Gender Studies Workshop for research students |
| 13. | | Five day workshop on Political participation and women's development for members of the Local Self |



| | | |
|-----|---------|---|
| | | Government bodies |
| 14. | 2014-15 | Five day workshop on Political participation and women's development for representative of local self-governing bodies in February 2014 (17-21) |
| 15. | | Three day workshop on development and panchayath programmes SCP/TSP in November 2014 (5-7). |
| 16. | | Three day workshop on social justice and women/ panchayath jagratha samithies in December 2014. |
| 17. | 2015-16 | Five day Social Science Methodology Workshop, |
| 18. | | One day workshop on Clean Kumily Green Kumily documentation project |
| 19. | | One day Manual Labourers workshop on Clean Kumily Green Kumily documentation project |
| 20. | | Three day Panchayath training programme Funded by the Government of Kerala (Grant) |

31. Code of ethics for research followed by the departments:

The centre insists on following internationally recognized practices in creating original social science knowledge which include among others watching the monster of plagiarism and keeping away pirated versions of software etc. As far as plagiarism is concerned we are very much aware of the fact that in cases it is the inability of students to write on their own that creates the problem. Therefore the best remedy is not the final checking, though it is a powerful deterrent, but the most fundamental thing is to train students to read think and write. Our writings workshops were aimed at achieving this particular goal. We need to do a lot in this regard as our education system has a huge deficit in this particular are of creativity.

32. Student profile programme-wise:

| Name of the Programme (refer to question no. 4) | Applications received | Selected | | Pass percentage | |
|--|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| PhD | 4 | 3 | 1 | NA | NA |
| PhD | 10 | 4 | 4 | NA | NA |

33. Diversity of students:

| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|--|--|--|---|------------------------------------|
| PhD | 100% | Nil | Nil | Nil |



34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise:

NET - 3

SET - 2

35. Student progression: NA

| Student progression | Percentage against enrolled |
|--|-----------------------------|
| UG to PG | NA |
| PG to M.Phil. | NA |
| PG to Ph.D. | NA |
| Ph.D. to Post-Doctoral | Nil |
| Employed | |
| <input type="checkbox"/> Campus selection | |
| <input type="checkbox"/> Other than campus recruitment | Nil |
| Entrepreneurs | Nil |

36. Diversity of staff:

| Percentage of faculty who are graduates | |
|--|------|
| of the same university | Nil |
| from other universities within the State | 80 % |
| from universities from other States from | 20% |
| from universities from other States from | |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : Nil

38. Present details of departmental infrastructural facilities with regard to

- Library — 1474 Books
- Internet facilities for staff and students — Provided
- Total number of class rooms — Nil
- Class rooms with ICT facility — Nil
- Students' laboratories — Nil
- Research laboratories — Computer Lab



39. List of doctoral, post-doctoral students and Research Associates

- a) from the host institution/university — 12 PhD Students
- b) from other institutions/universities

40. Number of post graduate students getting financial assistance from the university: 1

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology: Yes. We assess the feasibility and future prospects of the programme before the development of new programmes.

42. Does the department obtain feedback from

- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback : Nil
- b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback : Nil
- c. Alumni and employers on the programmes offered and how does the department utilize the feedback : Nil

43. List the distinguished alumni of the department (maximum 10) : NA

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

- National Seminar : 1
- Feminist/ Gender methodology National Workshop:4
- Academic Writing Workshop: 3
- Two day Workshop :1
- One day Workshop :4
- Panel Discussion :2
- Project Workshops :8
- Public Lectures:12
- Colloquium :1
- Theme Discussion :1

45. List the teaching methods adopted by the faculty for different programmes:

Seminar presentations part of coursework for PhD students. The Faculty of IUCSSRE usually organizes reading group meetings and discuss the pre-circulated papers/ book chapters. We also organize periodic presentation by PhD students in which all researchers participate and discuss research problems. We also use web based materials for the course work as well as for regular reading.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored: Students are encouraged to attend methodology workshops to make them aware of the recent trends in theories and methodologies and provide them a platform for interaction with external experts and resource persons. The PhD students have to make a working progress presentation every six months. As part of the Course Work, PhD students have to write formal examinations. We make it mandatory for students to take special examinations in their respective areas of enquiry.

47. Highlight the participation of students and faculty in extension activities : All the students and faculty of the Centre actively participate in the process of organizing and academically interacting in the extension activities of the Centre such as Panchayath Development activities for documentation

48. Give details of “beyond syllabus scholarly activities” of the department: Most of the scholarly activities of the Centre are “beyond syllabus”.

Our students participate in workshops and seminars organized by other ICSSR institutions and Universities in India. Similarly some students have participated/presented papers in Indian History Congress Annual Session, 2016 South Indian History Congress Annual session, 2017 as well as Kerala History Congress Annual Session, 2016. They also attend Erudite Lectures and other special academic events

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details : Nil

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied: We have been engaged in praxis intervention research among marginalized communities, enabling research on everyday life. We have been conducting Gender Studies workshops for developing the research capacity of young researchers.

- Sanal Mohan Published two books in 2015; *Modernity of Slavery: Struggles Against Caste Inequality in Colonial Kerala*, New Delhi: Oxford university Press, 2015, ISBN 0-19-809976-2
- *Viswasavum Vimochanavum: Kypetta Habel*, Tiruvalla: CSS,2015, ISBN978-81-7821-693-5
- Sanal Mohan, Creation of Social Space through Prayers among Dalits in Kerala in *Journal of Religious And Political Practice: Special Issue:Prayer and Politics*; Guest Editor; Peter van der Veer, Volume 2, Issue 1 February 2016, London: Routledge, ISSN: 2056-6093 (Print) 2056-6107 (Online) Journal homepage: <http://www.tandfonline.com/loi/rfrp20>
- *Creation of Social Space through Prayers among Dalits in Kerala in Prayer and Politics* (ed) Peter van der Veer London, Routledge, 2017 ISBN-13: 978-1138289215



- Sanal Mohan, Emotions in the Context of Caste Slavery: Exploring the Missionary Writings on Kerala, in Studies in Humanities and Social Sciences, Vol. XXII, Number 2, Winter 2015, PP.34-54. IAS Shimla ISBN-10: 1138289213

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths

- Interdisciplinary research in Gender Studies, Praxis Intervention Research and Human Ecology and Human Geography
- The first Inter University Centre for Social Science Research in Kerala
- Academic contacts with other institutions in India and abroad

Weakness

- Shortage of Faculty
- Shortage of Space
- Unwanted bureaucratic delay

Opportunities

- We have lot of opportunities provided the centre is able to work without above mentioned hurdles.
- We had expression of interest regarding collaboration but we were reluctant to accept the offers.

52. Future plans of the department:

- Integration of other interdisciplinary themes with the current areas of research
- To initiate units - Unit for Study of Social Exclusion, Unit for Social History, Unit for Policy Studies, Unit for Local Development Studies
- Integrating academic capability programmes and remedial teaching and research.



INTER UNIVERSITY CENTRE FOR STUDIES IN SCIENCE OF MUSIC (IUCSSM)

| | | | | | | |
|-----|--|---|---|------------|--------|-----------------------------|
| 1. | Name of the Department | : | Inter University Centre for Studies In Science Of Music (IUCSSM) | | | |
| 2. | Year of establishment | : | 2012 | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, Faculty of Science | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | Nil | | | |
| 5. | Interdisciplinary programmes and departments involved | : | Steps are being initiated to carry out interdisciplinary research in the field of calibration of indigenous musical instruments and improvement of the quality of the instruments .The research activity includes the collaborative approach from various departments of the University | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | Nil | | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil | | | |
| 8. | Examination System | : | N.A | | | |
| 9. | Participation of the department in the courses offered by other departments | : | Nil | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | : | | Sanctioned | Filled | Actual(including CAS & MPS) |
| | | | Professor | - | - | - |
| | | | Associate Professors | - | - | - |
| | | | Asst. Professors | - | - | - |
| | | | Others | - | - | - |



- 11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance: No permanent faculty
- 12. List of senior Visiting Fellows, adjunct faculty, emeritus professors :

| SI No | Name | Visiting Fellows, adjunct faculty, emeritus professors |
|-------|---|--|
| 1. | Dr. Jayachandran.K | Honorary Director |
| 2. | Prof. Dr.Sabu Thomas | Adjunct faculty |
| 3. | Prof. Dr. Aravindkumar | |
| 4. | Prof.Dr.K.Indulekha | |
| 5. | Dr. Nandakumar | |
| 6. | Dr. Prakashkumar.B | |
| 7. | Dr. Cyriac | |
| 8. | Dr. Biju P.R | |
| 9. | Prof Dr. James B Kinchen, Professor in Music, University of Wisconsin –Parkside | Visiting Fellows |
| 10. | Dr. Dileep Karanth, Department of Physics, University of Toledo, USA | Visiting Fellows |

- 13. Percentage of classes taken by temporary faculty – programme-wise information: Nil
- 14. Programme-wise Student Teacher Ratio: Nil
- 15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual: Nil
- 16. Research thrust areas as recognized by major funding agencies:
 - Construction of research studio-one crore eighty five lakhs ,Government of Kerala
 - Calibration of indigenous musical instruments-Submitted to Government of Kerala
 - Scientific studies on the performance and working of musical instruments
 - Design of new strategies for the sound quality improvement of musical instruments
 - Initiating new scientific approaches in music therapy

Inter University Centre for Studies in Science of Music (IUCSSM) of Mahatma Gandhi University broadly aims at conduct of research to understand everything about music: it's basic structure; it's biological, emotional and psychological effect on humans and the brain; it's healing and altering potential; and its function in the evolutionary process. By learning more about music, we can learn more about ourselves. Music helps scientists understand complex functions of the brain and opens up treatments for patients who are recovering from strokes or suffering with Parkinson's. Research even suggests that music may alter the structure of the brain. Studies in the science of music are almost an unknown activity in Indian academia. At IUCSSM, the traditional and known approaches to studies in music have

been given a go-by. This radical departure marks IUCSSM as the only one of its kind in this country. The centre serves as a platform for the convergence of experts from across the worlds that appreciates the larger import of such an interface and have made genuine attempts by exploring the scope of scientific understanding of music and its implications for common goods

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

Proposal submitted before Kerala state Government-Establishment of a calibration facility for indigenous Musical instruments

Inter-institutional collaborative projects and associated grants received

National collaboration

- A collaborative research project on Effect of Music on Embryonic Development- A study on Avian Model was successfully completed out at Dept. of Computational Biology & Bioinformatics
- Steps are being taken for collaboration with Kannur University and Rajive Gandhi Institute of Technology, Pambady for initiating research activities in science of music

b) International collaboration

Wisconsin University, USA has agreed to collaborate with IUCSSM on completion of the construction of research studio.

18. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received: Nil

19. Financial assistance from State government for the construction of research studio

- Steps are being taken for initiating the construction for which Mou has already been signed with Kerala State Nirmithi Kendra. The primary objective of the centre in the last four months was to initiate the construction of the government sanctioned Research studio. After detailed discussions and negotiations in both technical committee and executive committee, the construction work of the research studio was entrusted with Kerala state Nirmithi Kendra in collaboration with Chitranjali studio, Trivandrum. A MoU in this respect was signed between the Registrar of Mahatma Gandhi University and Chief Engineer of Kerala state Nirmithi Kendra on 29 th March 2016.

20. Research facility / centre

Interuniversity Research centre for science of Music

Science of music has been included in the faculty of science and application will be invited for research in the coming academic year.

- State recognition –Steps are being initiated for collaborative work with Kannur University,



- National recognition- Nil
- International recognition -On completion of research studio new initiatives with Wisconsin university will be started

21. Special research laboratories sponsored by / created by industry or corporate bodies: Nil

22. Publications:

- Monographs: Nil
- Edited Books : Nil
- Publications as Chapters in Books : Nil
- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- Citation Index – range / average : Nil
- SNIP : Nil
- SJR: Nil
- Impact Factor – range : Nil
- average h-index: Nil

23. Details of patents and income generated : Nil

24. Areas of consultancy and income generated : NA

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad: Nil

26. Faculty serving in

- a) National committees b) International committees c) Editorial Boards d) any other
- b)(please specify) : Nil

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

- One day workshop on classical music appreciation and Veena-Venu-Violin Concert was organized in association with Saakhya Village & CMS College, Kottayam on 18/12/2012, Tuesday. Lecture Demonstrations were given by eminent flutist Dr. P Padmesh, Vocalist Sri. K Veeramoney and Vainika Sri. V Soundararajan. The performance was scientifically analyzed by Dr. James, KN, Cochin University of Science and Technology
- Violin maestro Smt N Rajam presented a concert in the seminar hall of School of Environmental Sciences on 07/06/2014 which was analyzed scientifically during the performance



- A seminar on science of music Mathematical analysis of swaras in an octave- A talk by G S Paul on 30 th March 2016 was arranged along with demonstration and performance of Kudukka veena by Kavil Unnikrishna Varrier.

28. Student projects

- Percentage of students who have done in-house projects including inter-departmental projects: NA
- Percentage of students doing projects in collaboration with other universities / industry / institute : NA

29. Awards / recognitions received at the national and international level by

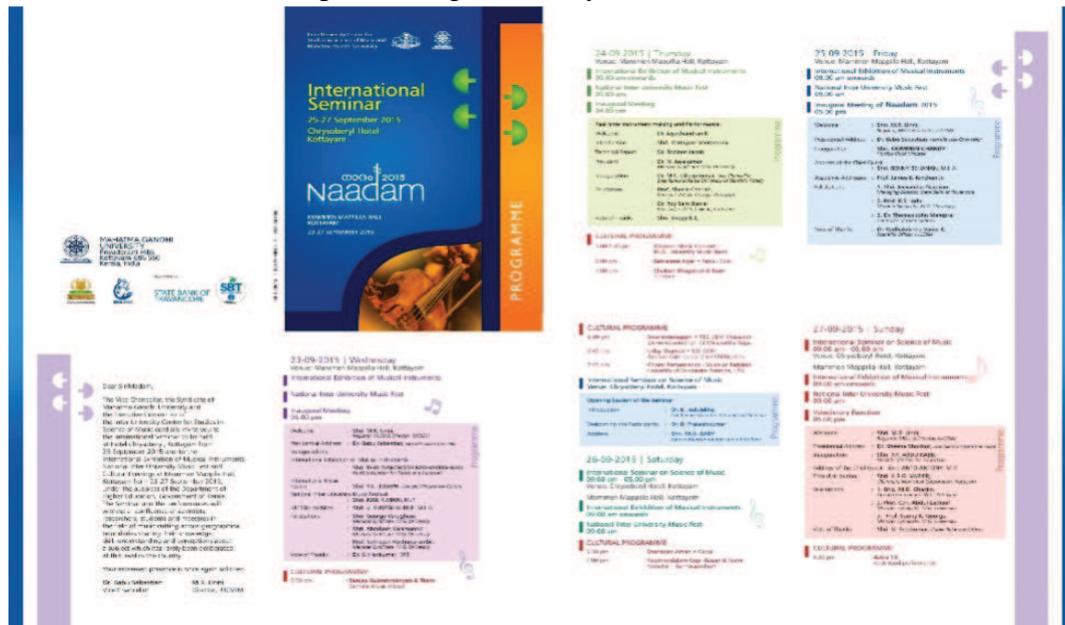
- Faculty: Nil
- Doctoral / Post-doctoral fellows: Nil
- Students: Nil

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

- ❖ International Seminar on Science of Music (ISSM) 2015 (25th – 27th Sept 2015)
A confluence of scientists, scholars, researchers and students cutting across geographical boundaries sharing their knowledge, understanding about a subject which has rarely been deliberated in the country.
 - Prof (Dr) James B Kinchen (Jr), Professor of Music, University of Wisconsin – Parkside and a team of sixteen choral performers participated in the Seminar organized by the centre at three as Erudite Scholar in Residence.
 - Dr. Dileep Karanth, Department of Physics, University of Toledo, USA also delivered key note address as Erudite Scholar in Residence.
 - Several key speakers, researchers, academicians and musicians participated in the seminar and presented papers on versatile topics
- ❖ **Exhibition of Musical Instruments**
 - A mind boggling variety of musical instruments was on display at the exhibition taking the visitor on a journey detailing the history, character and manufacturing process of each instrument.
 - Lending meaning and depth to it all were demonstrations on the making of selected musical instruments and performances with these. More than 600 musical instruments were displayed.
- ❖ **National Inter University Music Fest 2015**
 - A competitive event with prize money for the winners, featuring young talents who have amply displayed their artistry in national youth festivals and represent the sheer musical diversity of the country.
 - The fest showcased how music was achieved on national integration.
- ❖ **Cultural Events (Concerts)**



- Cultural events highlighting India’s rich musical heritage lending colour and charm to ISSM 2015 and living up to its focus on the science of music enriched the proceedings from day one.



31. Code of ethics for research followed by the departments:

Research programme in the Centre shall be initiated soon. The centre has been supporting research in science of music through centre in other universities like Kerala and Kannur. Care is taken to check plagiarism and also to ensure the involvement of the contributing musician.

32. Student profile programme-wise: NA

33. Diversity of students- NA

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise: Nil

35. Student progression- Nil

36. Diversity of staff- Nil

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: Nil

38. Present details of departmental infrastructural facilities

As an Interuniversity centre the facilities in other science departments can be used once research programme is initiated

39. List of doctoral, post-doctoral students and Research Associates- Nil

40. Number of post graduate students getting financial assistance from the university:

Nil

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

The centre has been supporting research activities in centre of other universities and is about to start its own research initiatives. The need to establish a research centre in science of music is consistently demanded by many musicians and music instrument performers. More than those studies on science of music is never being attempted in a serious way. Hence the initiatives taken by the centre is novel and sure to contribute to the field of science.

42. Does the department obtain feedback -NA

43. List the distinguished alumni of the department (maximum 10): Nil

44. Give details of student enrichment programmes (special lectures / workshops /seminar) involving external experts:

| Sl No. | Programmes | Date |
|--------|--|-------------|
| 1. | Live demonstration and lecture by Dr. Umayalpuram K Sivaraman and Dr. D Naresh on Sound and Science: measure for measure. Lectures were also delivered by Dr. Suvarna Nalappattu, Dr. Achuth Sankar S Nair and Sri. Thiruvizha Jayasankar | 24/04/2012 |
| 2. | Talk delivered by Dr. Suneesh George, Franhauser Institute of Integrated Circuits on Audio Quality Evaluation. | 8/06/2012 |
| 3. | A lecture demonstration on Acoustic Study on Veena by Veena Maestro Prof Puthukkottai R Krishnamurthi was conducted at CMS College, Kottayam. Lecture Demonstrations were given by eminent flutist Dr. P Padmesh, Vocalist Sri. K Veeramoney and Vainika Sri. V Soundararajan. The performance was scientifically analyzed by Dr. James, KN, Cochin University of Science and Technology | 18/12/2012 |
| 4. | A lecture demonstration was conducted by Dr. Pradeep Somasundaram, Princial, College of Applied Science, Vadakkancherry, Palakkad on in the seminar hall of School of Pure and Applied Physics | 08/03/2013 |
| 5. | Violin maestro Smt N Rajam presented a concert in the seminar hall of School of Environmental Sciences | 07/06/2014 |
| 6. | A seminar on science of music Mathematical analysis of swaras in an octave-A talk by G S Paul on was arranged along with demonstration and performance of Kudukka veena by Kavil Unnikrihna Varier | 30 /03/2016 |



45. List the teaching methods adopted by the faculty for different programmes: NA
46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored? NA
- 47 Highlight the participation of students and faculty in extension activities. NA
48. Give details of “beyond syllabus scholarly activities” of the department. NA
49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. : No
50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

The interuniversity centre for the studies in science of music is meant to be a convergence platform for blending every branch of knowledge with the science of music. The objective has been realized in large measure, considering the relatively recent inception of the centre in 2012. Many successful programme like Swathi Sudha and Sasthiya Sangeetha Aswadan. However the major event hosted by the centre was “Nadam 2015” which was really an international ensemble on the science of music. Nadam 2015 was a grant international event involving the participation of many national and international delegates. The event includes Musical instruments exhibition, Demonstration of making of musical instruments and mainly, the international seminar on science of music. The exhibition event was inaugurated by the then Honourable Minister Sri. Thiruvanchoor Radhakrishnan.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:

Strength:

- First of this kind in the state, may be in the country- Good support from various sectors
- Support from all Science Departments and Music Departments in various Universities in Kerala
- Collaboration with University of Kerala, CUSAT, PES University, Bangalore and University of Wisconsin-Parkside
- Intellectual capital developed during Nadam 2015 the International ensemble on Science of Music
- Even though we are studying the Science of Music, the music is taken to common man at the aesthetic level while studying scientifically

Weakness:

- Lack of experienced faculty members who are well versed in Science of Music
- Lack of space and infrastructure
- Lack of manpower in the centre
- Lack of a comprehensive structure- rules/regulations of research etc for the Inter University Centre

Opportunities:

- The Centre is planning to start Ph D programme in various scientific areas related to Music
- Scope for scientifically exploring the making of indigenous musical instruments
- Short term courses in conservation of technology and science behind the making of indigenous musical instruments of the state and the nation

Challenges:

- The area of Science of music is excellent- Bringing convergence-Bringing talented/ interested scientists/musicians to a single platform is absolutely challenging
- Bringing more scientists into the stream
- Establishing the research studio within one year and thereafter managing it
- To tap funds from the funding agencies to establish a research lab

52. Future plans of the department.

- To establish a research studio that can facilitate various research activities and recordings of international standards
- To collaborate with international organizations in the field of 'Science of Music'
- To promote innovative ideas (Scientific, technological and aesthetic aspects) in science of Music
- To conduct and support research in all possible areas in 'Science of Music'
- To conduct short term courses in Indian music, western music and also in various scientific aspects of the same.
- Research proposals are to be invited from interested groups and institutes and the Centre shall provide financial assistance to them, if found eligible
- To initiate a University Multi Media Research Centre (UMMRC) to facilitate better recording, storage and analyze new knowledge generated in various branches of academics and also to provide fast, extensive and promising transmission of new information generated



ADVANCED MOLECULAR MATERIALS RESEARCH CENTRE (AMMRC)

| | | | | | | |
|------------|--|---|---|------------|--------|-----------------------------|
| 1. | Name of the Department | : | Advanced Molecular Materials Research Centre (AMMRC) | | | |
| 2. | Year of establishment | : | November 2012 | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, Ph.D programmes are offered under the 1. Faculty of Engineering and Technology 2. Faculty of Sciences | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | Ph. D | | | |
| 5. | Interdisciplinary programmes and departments involved | : | Teachers from various science departments of the university and affiliated colleges are associated with the centre as Adjunct Faculties (For details see Item No.12). The research programmes are highly interdisciplinary. | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | Ph. D | | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil | | | |
| 8. | Examination System | : | N.A | | | |
| 9. | Participation of the department in the courses offered by other departments | : | Research scholars of AMMRC doing Ph.D course work at School of chemical Sciences | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | : | | Sanctioned | Filled | Actual(including CAS & MPS) |
| | | : | Professor | Nil | Nil | Nil |
| | | : | Associate Professors | Nil | Nil | Nil |
| | | : | Asst. Professors | Nil | Nil | Nil |
| | | : | Others | Nil | Nil | Nil |
| | | | No permanent teaching faculties in AMMRC | | | |

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

| Name | Qualification | Designation | Specialisation | No. of Years of Experience | No. of Ph.D./ M.Phil./M.Sc students guided (last 4 years) |
|---------------------|-------------------|---------------------------------|----------------------------|----------------------------|---|
| Prof. Suresh Mathew | MSc., Ph.D | Professor, and Adjunct Faculty | Inorganic chemistry | 20 years | Ph. D-0 M.Phil-3 M.Sc.-3 |
| Dr. S. Anas | MSc., B.Ed., Ph.D | Hon. Director & Adjunct faculty | Polymer/ Organic chemistry | 6 years | Ph. D-0 M.Phil-1 M.Sc-8 |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

| Sl. No | Name | Visiting Fellows/ Adjunct faculty/ Emeritus professors | Specialization |
|--------|--|--|---------------------------|
| 1. | Dr P.Radhakrishnan Nair | Visiting Professor & Adjunct faculty | Polymers & propellants |
| 2. | Prof.A.S. Padmanabhan, SCS, MGU | Adjunct faculty | Theoretical modeling |
| 3. | Prof. M. Padmanabhan SCS, MGU | Adjunct faculty | Inorganic chemistry |
| 4. | Dr. P.R.Biju. SPAP, MGU | Adjunct faculty | Physics |
| 5. | Dr. Linu Mathew SBS, MGU | Adjunct faculty | Biosciences |
| 6. | Dr. Thomas Varghese Nirmala College, Moovattupuzha | Adjunct faculty | Inorganic chemistry |
| 7. | Dr. Vibin Thomas CMS College, Kottayam | Adjunct faculty | Computational Chemistry |
| 8. | Dr. G.Anilkumar SCS, MGU | Adjunct faculty | Organic chemistry |
| 9. | Dr. Sunish K. S. CMS College, Kottayam | Adjunct faculty | Opto-electronic materials |

13. Percentage of classes taken by temporary faculty – programme-wise information:
Not Applicable



14. Programme-wise Student Teacher Ratio

| Programme | Student Teacher Ratio |
|-----------|-----------------------|
| Ph.D | 4:1 |

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:

| | Sanctioned | Filled and actual |
|----------------------|------------|-------------------|
| Technical | Nil | Nil |
| Administrative Staff | Nil | 1 (contract) |

16. Research thrust areas as recognized by major funding agencies:

Photocatalysis, Metal Organic Frame work solids, Nanofluids and High energetic materials

17. Number of faculty with on-going projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

a) National

| Sl. No | Project Title | Period | Funding agencies | Total Fund (₹ in lakhs) |
|--------|---|---------|------------------|-------------------------|
| 1. | “Propellant Burn rate modifiers (PI: Prof. Suresh Mathew, Co-PI: Dr. P. Radhakrishnan Nair) | 2016-18 | ISRO | 19.20 |

b) International

| Sl. No | Project Title | Period | Funding agencies | Total Fund (₹) |
|--------|---|---------|-----------------------|----------------|
| 1 | “Study of fundamental Chemical and Physical properties of magnetic ionic liquid nanofluids”. collaboration with Department of Physics, Rzeszow University of Technology, Poland (PI: Prof. Suresh Mathew) | 2015-17 | DST, Govt. of India & | 5.10 |

Total grants received: ₹ 24.30 Lakhs

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration: Nil

b) International collaboration: Nil

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.

Nil

20. Research facility / centre with

- State recognition: Yes
- National recognition: Yes

- International recognition: Yes

21. Special research laboratories sponsored by/created by industry or corporate bodies: Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-----------|
| 1. | Refereed Journal Publications | 10 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | Nil |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| 9. | Total | 10 |

- Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) - Nil
- Citation Index – range / average 373
- SNIP - Nil
- SJR - Nil
- Impact Factor – range / average – 2to 4.5
- h-index – 10 (Present)

23. Details of patents and income generated: Nil

24. Areas of consultancy and income generated: Nil

25. Faculty selected nationally / internationally to visit other laboratories/ institutions/industries in India and abroad:

| Sl. No. | Name of the faculty | Laboratory |
|---------|---------------------|---|
| 1 | Dr.Suresh Mathew | 1. Adjunct faculty visited Resezdow University, Poland in connection with the joint project in 2015 October |

26. Faculty serving in

- a) National committees b) International committees c) Editorial Boards d) any



other (please specify)

- a) National committees - Nil
- b) International committees - Nil
- c) Editorial Boards

| Sl. No. | Name of the faculty | Editor |
|---------|---------------------|---|
| 1 | Dr Suresh Mathew | Associate editor for Science Letters, published by Cognizure & Lognor |

- d) any other (please specify) - Nil

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) :

Faculty members have active participation as recourse persons in various seminars and workshops. Students are regularly presenting papers in seminar and conferences.

Invited Talks by faculties

Prof .Suresh Mathew

1. Invited Talk on “Phase stabilization of Ammonium Nitrate”- Suresh Mathew, Department of Inorganic Chemistry, Peking University, Beijing, China, September 30, 2013.
2. Invited talk on “Thermal studies of phase stabilization of ammonium nitrate”- Jisna Jos, Suresh Mathew in International autumn seminar on Propellants, Explosives and Pyrotechnics at Chengdu, Sichuan Province, China, September 24-27, 2013.
3. Invited Talk on “Photocatalysis by Nano Titania - a review of sustainable energy options”- Suresh Mathew, New York University of Abu Dhabi, May 17, 2015.
4. Invited talk on “Advanced thermo analytical techniques as a diagnostic tool for phase transition studies”- Suresh Mathew, National Conference on Advanced Technologies for material processing and diagnostics organized by Indian Society of Analytical Scientists (ISAS)- Kerala chapter, September 18-20, 2014.
5. Paper presented on “A nano Calcium metal organic framework constructed from 1, 2-phenylenediacetic acid: Synthesis, luminescence and thermal stability” - Seetharaj R, Vandana P.V, Tony Francis and Suresh Mathew in the National Seminar on Modern Trends in Chemistry organized by Department of Chemistry, St. Joseph’s college, Irinjalakuda, January 23-24, 2015.
6. Poster presented on “Photocatalytic Organic Pollutant Degradation in Iron based Nano Metal organic frameworks under U.V. light irradiation”- Vandana P. V. Seetharaj R. and Suresh Mathew in the National Conference on Materials Science and Technology organized by Department of Chemistry, Indian Institute of Space and Technology, Trivandrum, July 06-08, 2015.



7. Poster presented on “Catalytic Activity of Self Assembled Nano CuO on the Thermal Decomposition of Ammonium Nitrate” – Jisna Jos and Suresh Mathew in the National Conference on Materials Science and Technology organized by Department of Chemistry, Indian Institute of Space and Technology, Trivandrum, July 06-08, 2015.
8. Paper presented on “Synthesis and characterization of cerium metal organic frameworks constructed by pyridine 2, 6 dicarboxylic acid” - Vandana P.V, Seetharaj R, Sethulakshmi P and Suresh Mathew in the National Seminar on Modern Trends in Chemistry organized by Department of Chemistry, St. Joseph’s college, Irinjalakuda, January 23-24, 2015.

In addition Prof. Suresh Mathew has visited Poland and delivered lectures as part of faculty exchange programme

Invited Talks by Dr. S.Anas

9. Invited lecture by Dr. S. Anas on “Exploring the versatility of pentafulvenes at the national conference on recent advances in spectroscopy: chemical and biological perspective-II organized by Newman College, Thodupuzha, September, 2015, Abs-14
10. Invited talk by Dr.S.Anas on “Metals in Organic synthesis” at Govt. Brennen College, Thalassery, Kerala in a National Seminar on “Recent Advances in Chemistry (RAC-2015) on 15th December 2015.
11. Conducted a motivation class Dr. S.Anas on “Emerging Youth” for National Service Scheme (NSS) Volunteers of Govt. Devi vilasom HSS, Kudavechoor, Vaikom in connection with the training camp held at Gov. H.S.S. T.V. Puram, Vaikom on 22nd December 2015
12. Invited talk by Dr.S.Anas on “Applications of Palladium catalysis in Organic synthesis” at Devamatha College, Kuruvilangad, in a national seminar on “Recent trends in catalysis-2016” on 7th January 2016
13. Delivered a general talk by Dr.S.Anas on “*Teacher education and society*” on 13th January 2016 at Sobha College of Teacher Education, Mararikulam, Alappuzha as part of inauguration of various subject association activities of the college.
14. Invited talk by Dr. S.Anas on 4th February 2016 at St. Michaels College, Cherthala as part of inauguration of UGC sponsored national seminar on “New trends in material science”.

Invited Talk Dr P.Radhakrishnan Nair (Visiting Professor)

15. Invited talk in National Seminar on Indigenous Warships- Avenues & Opportunities for Indian Rubber Industry on 6th June 2014 at Rubber Research Institute of India, Kottayam on “Polyurethanes as corrosion resistant coatings for Defense applications”



Invited Talks by Dr. Sunish Sugunan(Research staff)

- 16. Tapping the most out of organic solar cells and light emitting diodes: paradigm shifting technologies, by Sunish K. Sugunan, 5th January, 2016, in Special Seminar organized by Department of Chemistry, CMS College, Kottayam.
- 17. Invited talk by Dr. Sunish on Fundamentals of material science, in the national work shop on material science organised by SRIBS, kottayam and AMMRC on March 4-6 , 2016 at Kottayam

28. Student projects

| | |
|---|------------|
| Percentage of students who have done in-house projects including inter-departmental projects | Nil |
| Percentage of students doing projects in collaboration with other universities / industry / institute | Nil |

29. Awards / recognitions received at the national and international level by

• Faculty

| Name of the faculty | Details |
|---------------------|---|
| Dr Suresh Mathew | Rodolph A Marcus award -2016 on chemical sciences by publishing division of by Cognizure & Lognor |

- **Doctoral / Post-doctoral fellows** – Nil
- **Students** – Nil

30. Seminars/Conferences/Workshops organized and the source of funding (National/International) with details of outstanding participants, if any:

| Sl No | Name of National/ International Conference | Funding agency | Eminent Scholars/Scientist who participated |
|-------|---|------------------------|---|
| 1 | National seminar on Current trends in Material Sciences on 15-11-2013 | MGU | 1. Dr. Vijayamohanan Pillai, CECRI, Karaikudi 2. Dr K.R.Dayas, CMET, Trichur 3. Dr Shaaijumon Cherian, IISER, TVM |
| 2 | National seminar on Recent trends in Inorganic-Organic Hybrid Materials on 26 - 27 February, 2015 | MGU | 1. Dr. J. N Behera (NISER, Orissa) 2. Dr. T.K. Maji (JNCASR, Bangalore) 3. Dr. S. Natarajan, (IISc,, Bangalore) 4. Dr. R. Murugavel, (IIT,Mumbai) |
| 3 | National workshop on Advances in Material Science on March 4-6 2016 | KSCSTE, Govt of Kerala | 1. Dr. Kuruvilla Joseph, IIST, Trivandrum 2. Dr. Santhosh Babu, NCL, Pune 3. Dr. Joshy Joseph, NIIST, Trivandrum 4. Dr. Manoj Namboothiri IISER, Trivandrum. |
| 4 | National Seminar on Recent Advances in Materials Sciences on November 18-19, 2016, funded by University | MGU | 1. Dr. Subi Jacob George, JNCASR, Bengaluru 2. Dr. Vinod Prabhakar, NCL, Pune 3. Dr. U. Hareesh, NIIST, Trivandrum 4. Dr. Jobin cyriac, IIST, Trivandrum |



31. Code of ethics for research followed by the departments:

Progress and novelty of the research work is assessed during the routine group meetings and assessment committees. Plagiarism software is being used to monitor the research articles and thesis.

32. Student profile programme-wise:

| Name of the Programme (refer to question no. 4) Ph.D | Applications received | Selected | | Pass percentage | |
|---|-----------------------|----------|--------|-----------------|--------|
| | | Male | female | Male | Female |
| 2012 | | | | | |
| 2013 | Nil | Nil | Nil | NA | NA |
| 2014 | 1 | Nil | 1 | NA | NA |
| 2015 | 7 | Nil | 4 | NA | NA |
| 2016 | Nil | Nil | Nil | NA | NA |

33. Diversity of students

| Name of the Programme (refer to question no. 4) | % of students from the same University | % of students from other Universities with in the state | % of students of students from Universities from Outside state | % of students of students from other countries |
|---|--|---|--|--|
| Ph.D | 0 | 40 | 60 | Nil |

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise:

| Sl.No | NET/ JRF Qualified | GATE | SET | Others |
|-------|--------------------|------|-----|--------|
| 1. | 1 | | | |

35. Student progression

| | Student progression | Percentage against enrolled |
|--------------------------|-------------------------------|-----------------------------|
| | UG to PG | NA |
| | PG to M.Phil. | NA |
| | PG to Ph.D | NA |
| | Ph.D. to Post-Doctoral | Ph.D. not yet awarded |
| | Employed | Nil |
| <input type="checkbox"/> | Campus selection | |
| <input type="checkbox"/> | Other than campus recruitment | |
| | Entrepreneurs | Nil |



36. Diversity of staff:

No permanent faculty in AMMRC details of others are

| Percentage of faculty who are graduates | |
|--|-----|
| Of the same university | 100 |
| From other universities within the State | Nil |
| From universities from other States | Nil |
| From universities outside the country | Nil |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period:

Nil

38. Present details of departmental infrastructural facilities with regard to

- a) **Library** : Total 25 books available
- b) **Internet facilities for staff and students** : Available
- c) **Total number of class rooms** : 2 rooms for AMMRC and sharing with SCS
- d) **Class rooms with ICT facility** : Nil
- e) **Students' laboratories** : Sharing with SCS laboratories
- f) **Research laboratories** : Sharing with SCS laboratories

39. List of doctoral, post-doctoral students and Research Associates

- a) from the host institution/university : Nil
- b) from other institutions/universities : 5

| Name of Guide | Name of Scholar | Post-doctoral |
|---|------------------------|----------------------|
| Dr.P. Radhakrishnan Nair Prof. Suresh Mathew (Co-guide) | Merilyn Mary Xavier, | Nil |
| | Sithara Gopinath | |
| | Sheeba V | |
| | Soorya Sasi | |

40. Number of post graduate students getting financial assistance from the university.
NA

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

After discussing with experts and stake holders in the area of proposed research

42. Does the department obtain feedback from

- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? **NA**
- b. Students on staff, curriculum and teaching-learning-evaluation and how does the

department utilize the feedback? **NA**

- c. Alumni and employers on the programmes offered and how does the department utilize the feedback? **NA**

43. List the distinguished alumni of the department:

No student passed out from the centre with Ph.D degree since its start in November 2012

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:

Conducting seminar/Talk/workshop for students and arranging weekly seminar series

(For more details about seminar and workshops refer item No. 30)

Other Lecture/talks arranged

1. Dr. K. N. Ninan, a senior scientist closely associated with “Mangalyaan” delivered a popular lecture on “Indian Journey to Mars” on 18th February, 2015.
2. Prof. Gawel of Department of Physics, Rzeszow University of Technology, Poland delivered a series of lectures at AMMRC and interacted with students for a period of two weeks in October 2015 in connection with Indo Poland joint project
3. Organised a lecture on “*Nanocatalyst Development for Fuels from Biomass*” by Prof. Debasish Kuila of North Carolina A&T State University, USA in association with IUIC on 22nd December, 2016

45. List the teaching methods adopted by the faculty for different programmes:

For Ph.D seminars and review presentations all faculty members and students are adopting modern teaching technologies such as audio visual aids.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored:

- We are conducting weekly review meeting of students and faculties to assess the progress of the research activities.
- Our students are undergoing 6 months Ph.D course work programme and examinations as a part of their curriculum.
- In addition the executive committee of AMMRC will monitor the overall performance of the centre at least twice in every year

47. Highlight the participation of students and faculty in extension activities:

The faculties are regularly giving popular and general lectures as given below.

General lectures by Dr. S. Anas is listed below



1. Dr. S. Anas Presented a paper on “*Alternative Energy Resources in Kerala*” in the New Kerala development forum organized by Solidarity Youth movement held at Ernakulam on 2011 March 11
2. Invited talk on “*Scientific Research: Methodology/Trends/Gaps*” at St. Joseph’s Training College, Mannanam, Kottayam on 28th February 2014 in connection with the National Science day celebrations.
3. Delivered the public lecture on “*Value based education*” in the education seminar organized at Govt. Higher Secondary School, T. V. Puram, Vaikom, Kottayam on 28th February 2014 in connection with the School annual day celebrations.
4. Invited talk on “*Scientific Research: Trends/Gaps*” at Kerala University College of Teacher Education, Kayamkulam, Kerala in the National Seminar on “*Acculturation of Scientific and Social Self*”: Nurturing Scientific Temper as a Way of Life” on 6th February 2014.
5. Paper presented entitled “*Our research practices: A re-search*” in the national seminar on “*Research Education in Kerala: Trends/Gaps*” organized by Society for Educational Research in connection with Kerala Education congress conducted by SIO Kerala Chapter held at Thiruvananthapuram on 16-17 November 2013.
6. Conducted an orientation class for high school students on “*Science and Society*” in connection with the inauguration of the school science club of Govt. Higher Secondary School, T.V.Puram, Vaikom, on 21st August 2013.
7. Conducted a motivation class on “*Time management*” for NCC cadets in connection with the 3 Kerala Air sqn NCC training camp held at VJHSS, Naduvathnagar, Cherthala, on 12th September 2014.
8. Delivered a general talk on 4th February 2016 at St. Michaels College, Cherthala as part of inauguration of UGC sponsored national seminar on “*New trends in material science*”.
9. Delivered a general talk on “*Teacher education and society*” on 13th January 2016 at Sobha College of Teacher Education, Mararikulam, Alappuzha as part of inauguration of various subject association activities of the college.
10. Conducted a motivation class on “*Emerging Youth*” for National Service Scheme (NSS) Volunteers of Govt. Devi vilasom HSS, Kudavechoor, Vaikom in connection with the training camp held at Gov. H.S.S. T.V. Puram, Vaikom on 22nd December 2015

Participation in Other Extension activities by Dr.S.Anas

1. Interview for JRF at KE College Mannanam 20th March 2014
2. As observer for JEE(main) 2014 exam at Kozhikode centre on 5th and 6th April 2014
3. Camp director, career guidance workshop organized by sio,thuravoor
4. As observer for JEE(main) 2015 exam at Kozhikkod centre on d 4th April 2015
5. Election duty as presiding officer for 2015 local body elections in Kerala
6. As observer for JEE(main) 2016 exam at Kozhikkod centre on 3rd April 2016

48. Give details of “beyond syllabus scholarly activities” of the department:

- Weekly review meeting of students and faculties.
- General seminars by students
- Arranging expert lectures
- Industrial and institution visits
- Festival and special day celebrations
- Open day for school students (in association with SCS)
- Arranging Lab/Field visits

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details: No

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:

AMMRC is involved in research activities in diverse areas of Material research.

The contributions and significance of the centre is reflected in the research output given below.

| | | |
|------------------------------------|---|---------------------|
| International Journal publications | : | 10 |
| Seminar/conference papers | : | 17 |
| Seminar/workshop organised | : | 3 |
| Invited lectures arranged | : | 3 |
| External funding | : | 2 (Rs. 24.3 Lacks) |
| M.Sc. Projects completed | : | 8 |
| Recognition/ award for faculty | : | 1 |
| New instruments procured | : | 7 |

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:

Strength

- Promoting advanced research in material science
- Procured good, supportive instrumentation
- Experienced research personnel
- Dynamic research scholars
- Motivating research environment



Weakness

Lack of the following

- Adequate office and lab space
- Technical / administrative staff
- Effective interschool participation
- Linkages/collaboration with industry
- research guides at AMMRC

Opportunities

- To do research in frontiers of material chemistry
- To carry out advanced research projects (UG /PG) in functional materials.
- To avail modern instrumentation facility for all researchers
- To familiarize with recent trends and developments in material science
- To interact with reputed material scientists
- To establish student/faculty exchange programs
- Capacity building programs for faculties and students

Challenges

- Adjust with the working space.
- Utilization of the Government grant sanctioned for establishment of the centre.
- Development of linkage with industries.

52. Future plans of the department.

- Diversification of research activities (Research networking)
- Offer research fellowships
- Procuring more equipment
- Induction of new research personnels
- International conferences in every year
- Bringing out more research publications in high impact journals
- Publishing books and Reviews
- Submission of more research proposals useful for industries
- Developing International collaborations
- AMMRC is planning MoU with Australian Institute of High Energetic Materials for active collaborations on high energy materials research. (With Prof. Alexander Lukin).
- Planning for a collaborative research with Dr. Carlos Rinaldi, Professor at J. Crayton Pruitt, Department of Biomedical Engineering and Department of Chemical Engineering, University of Florida, Gainesville, USA



- Extend the Collaborative research with Uppsala University, Sweden

Plans for tapping of external funds

- Proposal on Nanomaterials based micro electro mechanical systems (MEMS) is submitted to DST (PI. Prof Suresh Mathew and Dr. P.Radhakrishnan Nair).
- Proposal on Flexible Third Generation Solar Cells based on Solvent free Nanoliquids is submitted to DST. (PI. Prof Suresh Mathew and Dr. P.Radhakrishnan Nair).



CENTRE FOR ENGLISH LANGUAGE AND COMMUNICATION SKILLS

| 1. | Name of the Department | : | Centre for English Language and Communication Skills | | | | | | | | | | | | | | | | | | | | |
|----------------------|---|--------|--|--|------------|--------|-----------------------------|-----------|-----|-----|-----|----------------------|-----|-----|-----|------------------|-----|-----|-----|--------|-----|-----|-----|
| 2. | Year of establishment | : | 2009 | | | | | | | | | | | | | | | | | | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | No | | | | | | | | | | | | | | | | | | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | Certificate Course in English Communication (PGCEC) | | | | | | | | | | | | | | | | | | | | |
| 5. | Interdisciplinary programmes and departments involved | : | Students from different backgrounds and disciplines have joined and benefitted from the Open Course which we conducted. | | | | | | | | | | | | | | | | | | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | None | | | | | | | | | | | | | | | | | | | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | None | | | | | | | | | | | | | | | | | | | | |
| 8. | Examination System | : | Annual/Semester/Trimester/Choice Based Credit System Short Term course of two months duration. | | | | | | | | | | | | | | | | | | | | |
| 9. | Participation of the department in the courses offered by other departments | : | The centre has offered an open Course for other Schools | | | | | | | | | | | | | | | | | | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/ Associate Professors/Asst. Professors/others) | : | <table border="1" style="width: 100%; border-collapse: collapse; margin-bottom: 5px;"> <thead> <tr> <th style="width: 25%;"></th> <th style="width: 25%;">Sanctioned</th> <th style="width: 25%;">Filled</th> <th style="width: 25%;">Actual(including CAS & MPS)</th> </tr> </thead> <tbody> <tr> <td>Professor</td> <td>Nil</td> <td>Nil</td> <td>Nil</td> </tr> <tr> <td>Associate Professors</td> <td>Nil</td> <td>Nil</td> <td>Nil</td> </tr> <tr> <td>Asst. Professors</td> <td>Nil</td> <td>Nil</td> <td>Nil</td> </tr> <tr> <td>Others</td> <td>Nil</td> <td>Nil</td> <td>Nil</td> </tr> </tbody> </table> <p style="text-align: center;">This Centre has no permanent faculty</p> | | Sanctioned | Filled | Actual(including CAS & MPS) | Professor | Nil | Nil | Nil | Associate Professors | Nil | Nil | Nil | Asst. Professors | Nil | Nil | Nil | Others | Nil | Nil | Nil |
| | Sanctioned | Filled | Actual(including CAS & MPS) | | | | | | | | | | | | | | | | | | | | |
| Professor | Nil | Nil | Nil | | | | | | | | | | | | | | | | | | | | |
| Associate Professors | Nil | Nil | Nil | | | | | | | | | | | | | | | | | | | | |
| Asst. Professors | Nil | Nil | Nil | | | | | | | | | | | | | | | | | | | | |
| Others | Nil | Nil | Nil | | | | | | | | | | | | | | | | | | | | |



11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./ M.Phil. students guided for the last 6 years |
|----------------------------|---------------|---|--------------------------------------|----------------------------|--|
| Dr. Sherine Upot, Director | MA PhD | Professor, School of Distance Education Retd. | Literary Studies | 32 years | |
| Dr. K M Krishnan | M A PhD | Associate Professor, School of Letters | American Literature, Fiction Studies | 28 years | Ph D 2 M Phil 16 |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:

- Adjunct Faculty Prof Bhaskaran Nair, Pondicherry Central University
- Prof. Sherine Upot, School of Distance Education
- Dr. K M Krishnan
- Dr Saji Mathew, School of Letters
- Ms Canny Rachel, CMS College, Kottayam
- Guest Faculty: Ms. Anne Martha Varghese.

13. Percentage of classes taken by temporary faculty – programme-wise information:

All classes are handled by Adjunct or Guest faculty

14. Programme-wise Student Teacher Ratio:5:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual : Administrative Assistant:1, Office Assistant: 1

16. Research thrust areas as recognized by major funding agencies: None

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise: Nil.

18. Inter-institutional collaborative projects and associated grants received

- a) National collaboration b) International collaboration: None



19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received: None

20. Research facility / centre with

- State recognition: Nil
- National recognition: Nil
- International recognition: Nil

21. Special research laboratories sponsored by / created by industry or corporate bodies- Nil

22. Publications:

- Number of papers published in peer reviewed journals (national/international): Nil
- Monographs: Nil
- Chapters in Books : Nil
- Edited Books : Nil
- Books with ISBN with details of publishers: Nil
- Number listed in International Database (For *e.g.* Web of Science, Scopus,
- Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.): Nil
- Citation Index – range / average: Nil
- SNIP: Nil
- SJR: Nil
- Impact Factor – range / average: Nil
- h-index :Nil

23. Details of patents and income generated : Nil

24. Areas of consultancy and income generated : Nil

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad -1

26. Faculty serving in

- a) National committees - Nil
- b) International committees - Nil
- c) Editorial Boards



| Sl. No. | Name of the faculty | Editor |
|---------|---------------------|--|
| 1 | Dr. K M Krishnan | <ul style="list-style-type: none"> • Haritham, Journal of School of Letters • Editorial Committee of Dheemahi, Journal of CIFSS • Member Editorial Board of MG University e journal |

d) any other (Please specify) -Nil

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

Coordinated, attended, and gave plenary sessions, presentations and chaired sessions. See list

Dr. K M Krishnan Participation in Seminars Workshops etc.

2012-16

- 1) Felicitations as Joint Coordinator, International Seminar on English Studies, Catholicate College, Pathanamthitta January 2012
- 2) As Member of panel constituted by Government of Kerala to prepare Text Book for State Skill Development Programme SSDP for ASAP took part in Workshop in July 2012.
- 3) Presented a paper on Novel and Short Story Research at Seminar on Research methodology-Approaches and Possibilities 11-13 June 2013, Department of Malayalam, University of Kerala Karyavattom, Trivandrum.
- 4) As Joint coordinator offered felicitations and chaired a session at Seminar on “Event, Memory and Literature: Trauma Narratives of the indian Subcontinent at St Thomas College, Kozhencherry, 5, 6 September, 2013.
- 5) Presented a paper on “Janakeeya Sahithyam Sankalpanam Charithram” Muttath Varkey Centenary Seminar, organized by Sahitya Akademi, New Delhi and Muttath Varkey Foundation at SB College, Changanacherry. 13-15 December, 2013.
- 6) Gave the inaugural Lecture and made a plenary presentation on Space at Seminar on “Idam: Reflections on Space, Gender and Identity” at BCM College, Kottayam, 17, 18 January, 2014



- 7) Served as Coordinator of “National Seminar on Comparative Literature” in connection with the retirement of Prof. P P Raveendran 25, 26 and 27 March 2014.
- 8) Felicitations and Valedictory remarks as Joint Coordinator, Seminar on Art forms of Kerala, B K College, Amalagiri, August 2012.
- 9) Camp Director DSS Workshop on Poetry 25, 26 September 2012.
- 10) Camp Director DSS Workshop on Drama 27, 28, 29 September 2012.
- 11) Presentation on Western and Eastern literary Theory, Govt. Sanskrit College, Tripunithura, February 2013
- 12) Participated in Seminar on “Publishing” conducted by School of Letters and NBT, 12 January 2015.
- 13) Gave a plenary lecture on “Resistance of Forms: Forms of Resistance” Sree Vyasa N S S College, Vadakkancherry 5 February 2015.
- 14) Gave a plenary presentation on “Humour and the Nation” Assumption College Changanasseri 2 July 2015
- 15) Coordinated Kathakali demonstration organized by School of Letters in association with DSS, Mahatma Gandhi University, 11 August 2015.
- 16) Workshop on Malayalam Computing, in association with DSS, Mahatma Gandhi University, School of Letters, October 2015.
- 17) Gave a plenary lecture on “Passages to India Passages to America” BCM College, Kottayam 27 November 2015
- 18) Chaired session at Seminar on Padmarajan School of Letters, 2-4 February 2016.
- 19) Attended Seminar on Poetry in memory of D Vinayachandran, School of Letters 12 February 2016
- 20) Plenary Lecture on “Ways of Seeing: Reflections on Popular Culture” at National Seinar conducted by Department of English, Govt Arts College, Trivandrum on 1 March 2016.
- 21) Chaired a session at Seminar on Thirukkural, School of Letters, 2-4 March 2016.

28. Student projects

- percentage of students who have done in-house projects including inter-100%
- percentage of students doing projects in collaboration with other universities / industry / institute: Nil

29. Awards / recognitions received at the national and international level by

- Faculty Doctoral / post-doctoral fellows Nil Students:



30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any: Nil

31. Code of ethics for research followed by the departments: Though no research projects have been undertaken, strict vigil as far as the quality of software used in our training programmes is maintained. No plagiarism is being encouraged.

32. Student profile programme-wise:

| Name of the Programme (refer to question no. 4) | Applications received | Selected | | Pass percentage | |
|--|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| PG CEC | 135 | 26 | 42 | 77% | 81% |

33: Diversity of students

| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|--|--|--|---|------------------------------------|
| PGCEC | 80 | 18 | 2 | 0 |

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise:
Nil/NA

35. Student progression

| Student progression | Percentage against enrolled |
|---|-----------------------------|
| UG to PG | NA |
| PG to M.Phil. | 10 |
| PG to Ph.D. | 5 |
| Ph.D. to Post-Doctoral | Ph.D. not yet awarded |
| Employed <input type="checkbox"/> Campus selection <input type="checkbox"/> Other than campus recruitment | Nil |
| Entrepreneurs | Nil |

36. Diversity of staff: No permanent staff

| Percentage of faculty who are graduates | |
|--|------|
| Of the same university | Nil |
| From other universities within the State | 100% |
| From universities from other States | Nil |
| From universities outside the country | Nil |



37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period Nil

38. Present details of departmental infrastructural facilities with regard to

- | | |
|---|-------------------------|
| a) Library | : 1209 books and 51 CDs |
| b) Internet facilities for staff and students | : Yes |
| c) Total number of class rooms | : Nil |
| d) Class rooms with ICT facility | : 1 |
| e) Students' laboratories | : 1 |
| f) Research laboratories | : Nil |

39. List of doctoral, post-doctoral students and Research Associates:

- | | |
|---|-----|
| a) from the host institution/university | Nil |
| b) from other institutions/universities | |

40. Number of post graduate students getting financial assistance from the university: Nil

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology: new programmes are designed only after a thorough feedback from stakeholders. Demand from the public prompted the designing of a new diploma programme, yet to be implemented.

42. Does the department obtain feedback from

- Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback: No regular faculty. Yet the adjunct faculty and the guest faculty give significant inputs and give feedback.
- Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback: The feedback from students is of vital importance in designing the curriculum and syllabus of the centre.
- Alumni and employers on the programmes offered and how does the department utilize the feedback: The feedback from the Alumni is as important as the feedback from students, which give valuable directions in recognising areas requiring special attention.

43. List the distinguished alumni of the department (maximum 10): None

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

- Prof Bhaskaran Nair, Pondicherry University has given extension lectures to the students periodically

45. List the teaching methods adopted by the faculty for different programmes.

- Interactive method for reading, writing and listening skills while computer aided teaching is used in soft skill development.



46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

The course being currently offered, viz. POST GRADUATE CERTIFICATE IN ENGLISH COMMUNICATION (PGCEC) has so far elicited very positive feedbacks from students. This indicates that objectives are being met.

47. Highlight the participation of students and faculty in extension activities.

The students of the programme of short duration do not get much chance for extension activities though as members of the campus community they too make use of the opportunities.

48. Give details of “beyond syllabus scholarly activities” of the department: Extension lectures periodically being given by the adjunct and visiting faculty enhance the worldview of the students.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details: Nil

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

The department is basically concentrating on training in soft skills and developing communication skills. So in equipping the students to explore frontier areas of research the Centre imparts basic skills. This comes broadly within contributions in the applied fields of knowledge.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths

- The main strength of the Centre is its state of the art software for instruction.
- Excellent teaching faculty,
- . Excellent curriculum and syllabus prepared by faculty having international standing.

Weaknesses

- No permanent faculty
- The paucity of space

Opportunities

- Potential to develop to a centre for excellence in foreign languages
- Potential to develop into a research centre in foreign languages



Challenges

- The main threats faced by the Centre include the ones from numerous privately run coaching centres mushrooming all over. The main task is to make people realize the difference between them and the Centre

52. Future plans of the department.

- Diploma programme in Communicative English.
- PG Programme in Communicative English.



CENTRE FOR HIGH PERFORMANCE COMPUTING

| 1. | Name of the Department | : | Centre for High Performance Computing | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--|--------|---|--|--|--|------------|--------|-----------------------------|-----------|-----|-----|-----|----------------------|-----|-----|-----|------------------|-----|-----|-----|--------|-----|-----|-----|
| 2. | Year of establishment | : | 2010 | | | | | | | | | | | | | | | | | | | | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | Nil | | | | | | | | | | | | | | | | | | | | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | Nil | | | | | | | | | | | | | | | | | | | | | | |
| 5. | Interdisciplinary programmes and departments involved | : | School of Pure and Applied Physics, School of Chemical Sciences, School of Computer Science, School of Bio Science & School of Environmental Science | | | | | | | | | | | | | | | | | | | | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | Nil | | | | | | | | | | | | | | | | | | | | | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil | | | | | | | | | | | | | | | | | | | | | | |
| 8. | Examination System | : | N.A | | | | | | | | | | | | | | | | | | | | | | |
| 9. | Participation of the department in the courses offered by other departments | : | M.Tech in Computer Science , School of Computer Science | | | | | | | | | | | | | | | | | | | | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | : | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;"></th> <th style="width: 25%;">Sanctioned</th> <th style="width: 25%;">Filled</th> <th style="width: 25%;">Actual(including CAS & MPS)</th> </tr> </thead> <tbody> <tr> <td>Professor</td> <td style="text-align: center;">Nil</td> <td style="text-align: center;">Nil</td> <td style="text-align: center;">Nil</td> </tr> <tr> <td>Associate Professors</td> <td style="text-align: center;">Nil</td> <td style="text-align: center;">Nil</td> <td style="text-align: center;">Nil</td> </tr> <tr> <td>Asst. Professors</td> <td style="text-align: center;">Nil</td> <td style="text-align: center;">Nil</td> <td style="text-align: center;">Nil</td> </tr> <tr> <td>Others</td> <td style="text-align: center;">Nil</td> <td style="text-align: center;">Nil</td> <td style="text-align: center;">Nil</td> </tr> </tbody> </table> <p>No permanent teaching faculties in CHPC</p> | | | | Sanctioned | Filled | Actual(including CAS & MPS) | Professor | Nil | Nil | Nil | Associate Professors | Nil | Nil | Nil | Asst. Professors | Nil | Nil | Nil | Others | Nil | Nil | Nil |
| | Sanctioned | Filled | Actual(including CAS & MPS) | | | | | | | | | | | | | | | | | | | | | | |
| Professor | Nil | Nil | Nil | | | | | | | | | | | | | | | | | | | | | | |
| Associate Professors | Nil | Nil | Nil | | | | | | | | | | | | | | | | | | | | | | |
| Asst. Professors | Nil | Nil | Nil | | | | | | | | | | | | | | | | | | | | | | |
| Others | Nil | Nil | Nil | | | | | | | | | | | | | | | | | | | | | | |



11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D/ M.Phil students guided fo |
|----------------------|---------------|-------------|-------------------------|----------------------------|--|
| Dr. C Sudarsanakumar | Ph.D | Professor | Bio-Physics | 22 years | |
| Dr. A S Pdmanabhan | Ph.D | Professor | Computational | 28 years | |
| Dr. CT Aravindakumar | Ph.D | Professor | Environmental Chemistry | 23 years | |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors: NIL

13. Percentage of classes taken by temporary faculty – programme-wise information: NIL

14. Programme-wise Student Teacher Ratio : NA

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual :

| | Sanctioned | Filled and actual |
|----------------------|------------|-------------------|
| Technical | 2 | 1 |
| Administrative Staff | 1 | 1 |

16. Research thrust areas as recognized by major funding agencies :

- High Performance Computing, Applications in Physics, Chemistry & Biology

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. NIL

18. Inter-institutional collaborative projects and associated grants received

- a) National collaboration b) International collaboration NIL

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR,

- a) AICTE, etc.; total grants received : Nil

20. Research facility / centre

- State Recognition: Yes
- National Recognition: Yes
- International Recognition: Nil

21. Special research laboratories sponsored by / created by industry or corporate



bodies: Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-----------|
| 1. | Refereed Journal Publications | 16 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 05 |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 21 |

- Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.): Nil
- Citation Index – range / average: 8
- Impact Factor – range / average: 2-3
- h-index : 12

Total number of publications in International Journals

Dr. C Sudarsanakumar : 9

Dr. A S Padmanabhan : 2

Dr. C T Aravindakumar : 5

23. Details of patents and income generated : NIL

24. Areas of consultancy and income generated : NIL

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad: Nil

26. Faculty serving in a) National committees b) International committees c) Editorial Boards d) any other (please specify): Nil

National committees

Inter National committees

c) Editorial Boards any other (please specify)

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programmes, workshops, training programs and similar programs): Yes

28. Student projects:

| | |
|---|----|
| Percentage of students who have done in-house projects including inter-departmental projects | NA |
| Percentage of students doing projects in collaboration with other universities / industry / institute | NA |



29. Awards / recognitions received at the national and international level by

- Faculty: Nil
- Doctoral / post-doctoral fellows: Nil
- Students : NIL

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any: Nil

31. Code of ethics for research followed by the departments:

Original Licensed software are using

32. Student profile programme-wise: NIL

| Name of the Programme (refer to question no. 4) | Applications received | Selected | | Pass percentage | |
|--|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| Nil | Nil | Nil | Nil | Nil | Nil |

33. Diversity of students: NIL

| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|--|--|--|---|------------------------------------|
| Nil | Nil | Nil | Nil | Nil |

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise: NA

35. Student progression: NA

| Student progression | Percentage against enrolled |
|-------------------------------|-----------------------------|
| UG to PG | Nil |
| PG to M.Phil. | Nil |
| PG to Ph.D. | Nil |
| Ph.D. to Post-Doctoral | Nil |
| Employed | Nil |
| Campus selection | |
| Other than campus recruitment | |
| Entrepreneurs | Nil |

36. Diversity of staff : No permanent Faculty



37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : NIL

38. Present details of departmental infrastructural facilities with regard to

| | |
|---|----------------------|
| a) Library | Available, 390 books |
| b) Internet facilities for staff and students | Available |
| c) Total number of class rooms | 1 |
| d) Class rooms with ICT facility | Yes |
| e) Students' laboratories | Nil |
| f) Research laboratories | 3 |

39. List of doctoral, post-doctoral students and Research Associates

a) from the host institution/university:

b) from other institutions/universities

40. Number of post graduate students getting financial assistance from the university: Nil

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. Each student is encouraged to implement their programme as per their computational requirement.

42. Does the department obtain feedback from

| | |
|---|-----|
| a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? | Nil |
| b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? | Nil |
| c) Alumni and employers on the programmes offered and how does the department utilize the feedback? | Nil |

43. List the distinguished alumni of the department (maximum 10): NA

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. : Nil

45. List the teaching methods adopted by the faculty for different programmes.: Nil

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored? : Interaction with users

47. Highlight the participation of students and faculty in extension activities.: Computer education for the employees and faculties to promote free software usage.



48. Give details of “beyond syllabus scholarly activities” of the department.: Nil

49. State whether the programme/ department is accredited/ graded by other agencies? If Yes, give details: NIL

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

- Helps the students and Research Scholar of the University to perform Computational research effectively
- Software support
- Computer facility

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths

- Helpful for High Computing, Parallel computing and Network computing
- Plan for Interdisciplinary Research where intensive computation is essential
- Adequate support for computation and software
- Training to staff to encourage them to Office Automation

Weakness:

- No permanent Faculty
- Adequate funding
- Not conducting any courses

Opportunities:

- High and efficient computational facility is essential for industry and quality academic research
- There is great opportunities to interact with other schools and centres to work on theory, modelling and simulation

Challenges:

- Easy access to fast computing facility to the needy people
- Install various scientific software and train the users
- Make the facility available to industry



52. Future plans of the department.

- Setup Bio-Informatics Centre.
- Purchase new scientific software and adequate training for its effective use.
- Purchasing of super computer under state grants.



CENTRE FOR YOGA & NATUROPATHY (CYN)

| | | | |
|-----|--|---|---|
| 1. | Name of the Centre | : | Centre for Yoga & Naturopathy (CYN) |
| 2. | Year of establishment | : | 2015 |
| 3. | Is the Department part of a School/Faculty of the university? | : | Yes, Instituted in the School of Gandhian Thought & Development Studies, Mahatma Gandhi University |
| 4. | Names of programmes offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., D.Sc., D.Litt., etc.) | : | Scheme, Syllabus & Fee structure are submitted to the University for starting a new course (Post Graduate Diploma in Yoga Education-PGDYEd) |
| 5. | Interdisciplinary programmes and departments involved | : | Interdisciplinary Scientific Research Programmes including Dept. of Lifelong Learning & Extension, School of Behavioral Sciences, School of Gandhian Thought & Development Studies, Environmental Science, and School of Social Sciences. |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc. | : | Nil |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil |
| 8. | Examination System | : | NA |
| 9. | Participation of the department in the courses offered by other departments: | : | Nil |
| 10. | Number of teaching posts sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | : | Nil |

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./ M.Phil. students guided for the last 6 years* |
|---------------------------------|---------------|---------------|---|----------------------------|---|
| Dr.C.R. Harilakshmeendra Kumar. | MA, Ph. D | Hon. Director | Gandhian Studies, Field Work, Rural Development, Social Welfare, Yoga & Naturopathy | 9 years | Ph. D. : 11 M Phil. : 16 (Gandhian Studies) |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

| SL. No | Visiting Fellows, adjunct faculty, emeritus professors | Specialization |
|--------|--|--|
| 1. | Prof Dr. Dayaratna Edirisinge, Prof. Retd. (Philosophy) University of Kelania, Colombo, Sri Lanka. | Philosophy of Yoga |
| 2. | Shri Hira Ratan Manek | Surya Yoga |
| 3. | Dr. T. V. Padmanabhan, Coordinator University of Kannur | Scientific Basis and Evolution of Yoga |
| 4. | Shri. Subodh Tiwari, Kaivalyadhama Institute of Yoga, Pune. | Yoga expert |
| 5. | Sri M., Spiritual Guide, Social reformer and Educationalist | Meditation |
| 6. | Dr.T.S.Girishkumar, Prof. M.S. University, Vadodara, Gujarat | Yogic Philosophy. |
| 7. | Rev. Sr. Lucy Kurian, Executive Director, MAHER, Pune | Social Activist |

13. Percentage of classes taken by temporary faculty – programme-wise information:
Not Applicable

14. Programme-wise Student Teacher Ratio: NA

15. Number of academic support staff (technical) and administrative staff (sanctioned, filled and actual): NA

16. Research thrust areas as recognized by major funding agencies

- Evolution of Yoga
- Philosophy of Yoga
- Yoga & Meditation
- Yoga & Music
- Scientific approach to Yoga
- Yoga & Naturopathy



17. Number of faculty with ongoing projects from a) national b) international funding Agencies and c) Total grants received. Give the names of the funding agencies, Project title and grants received project-wise:

- a) National : Nil
- b) International : Nil
- c) Total grants received: Nil

18. Inter-institutional collaborative projects and associated grants received

- a. National collaboration: Kaivalya Dhama institute of Yoga (under process)
- b. International collaboration : University of Kelaniya, Sri Lanka (under process)

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received:

Total grants received : Nil

20. Research facility / centre with

- State recognition : Nil
- National recognition : Nil
- International recognition : Nil

21. Special research laboratories sponsored by / created by industry or corporate Bodies: Nil

22. Publications: Nil

23. Details of patents and income generated: Nil

24. Areas of consultancy and income generated: Nil

25. Faculty selected nationally / internationally to visit other / institutions / industries in India and abroad:

| Sl. No. | Name of the faculty | Name of Organization |
|---------|--------------------------------|-----------------------------------|
| 1. | Dr.C.R.Harilakshmeendra Kumar. | University of Kelaniya, Sri Lanka |

26. Faculty serving in

a. National committees

| Sl. No. | Name of the faculty | Committee |
|---------|---------------------------------|------------------------------|
| 1. | Dr.C.R. Harilakshmeendra Kumar. | Member IQAC, M.G. University |

b. International committees Nil

c. Editorial Boards

| Sl. No. | Name of the faculty | Journal |
|---------|-------------------------------|--|
| 1 | Dr.C.R.Harilakshmeendra Kumar | <ul style="list-style-type: none"> • Member, Editorial Committee, MG University online publication • Editor of 2 books published by NIRMID |

d. Any other

| Sl. No. | Name of the faculty | Committee |
|---------|--------------------------------|--|
| 1 | Dr.C.R. Harilakshmeendra Kumar | <ul style="list-style-type: none"> • Member, BOS, Calicut University • Coordinator UGC-CPES, MG University |

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs)

Attended one Orientation Course, One Refresher Course and one short term course organized by the UGC ASC, University of Kerala

28. Student projects: Nil

29. Awards / recognitions received at the national and international level by Faculty

Dr. C. R.Harilakshmeendra Kumar -GICSNA (Government of India Certified Senior Naturopath Association) National Award for the contributions rendered to the academic propagation of Yoga & Naturopathy in the national and international level.

30. Doctoral / post-doctoral fellows : Nil

31. Seminars/ Conferences/Workshops organized and the source of funding (national/ international) with details of outstanding participants, if any

| Sl. No. | Name of Programme | Source of funding | Details of outstanding participants |
|---------|---|-------------------|--|
| 01 | Inaugural seminar of CYN- National level 12 th January 2016 | M.G. University | <ul style="list-style-type: none"> • Shri. Subodh Tiwary, Kaivalyadhama Institute of Yoga, Lonawla, Mumbai, • Dr. Vinod Kool, State University of New York Polytechnic Institute, • Dr. Balarama Kaimal, Scientist, Pushpagiri Medical College, Thiruvalla. |
| 02 | Two days National Seminar on Relevance of Yoga in Modern Life on 18 th & 19 th March 2016 | M.G. University | <ul style="list-style-type: none"> • Shri. Hiara Ratan Manek, • Ms. Jessica Rani Bauer (Aix Marseille University, South France), • Prof. Dr. John Baby, • Dr.T.V.Padmanabhan, Kannur University |



| | | | |
|----|--|-----------------|---|
| 03 | Three days International Residential Seminar on Yoga for All for Health Promotion. On 10,11&12 th March 20127 | M.G. University | <ul style="list-style-type: none"> • Mrs. Murelle Ikareth, Saaram Centre for Ayurveda & Arts. • Prof.Dr.Dayaratna Edirisinghe, University of Kelaniya, Sri Lanka. • Dr. T. V. Padmanabhan, Co-ordinator, Centre for Yoga, Kannur University. • Dr.D.Nesy, Retd. Professor in Philosophy, University of Kerala. • Dr. Jobin K. Thomas DHH Pharmaceuticals, Karnataka. • Dr. Jacob Vadakkumcherry |
| 04 | Talk Series. 1 10/08/2016 | M.G. University | Sri M, Spiritual Guide, Social reformer and Educationalist |
| 05 | Talk Series 2 01/09/2016 | M.G. University | Sr. Lucy Kurian, Director, MAHER, Pune |
| 06 | Talk Series 3 14/02/2017 | M.G. University | Dr. C. Thomas Abraham, Senior Trainer, TCI International. |
| 07 | Observation of International Yoga Day on 21/06/2016 | M.G. University | Observed IYD by participating around 2000 NSS Volunteers at Baseliious College Kottayam. |

32. Student profile programme-wise: Nil

33. Diversity of students: Nil

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise: Nil

35. Student progression :

| Student progression | Percentage against enrolled |
|---|------------------------------------|
| UG to PG | NA |
| PG to M.Phil. | NA |
| PG to Ph.D. | NA |
| Ph.D. to Post-Doctoral | Nil |
| Employed Campus selection Other than campus recruitment | NA |
| Entrepreneurs | NA |

36. Diversity of staff

| Percentage of faculty who are graduates | |
|--|------|
| of the same university | 100% |
| from other universities within the State | Nil |
| from universities from other States | Nil |
| from universities outside the country | Nil |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: Nil

38. Present details of departmental infrastructural facilities with regard to : *Proposed*

39. List of doctoral, post-doctoral students and Research Associates: Nil

40. Number of post graduate students getting financial assistance from the university:
Nil

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

Yes. The executive committee carried out a series of discussions and consulted external experts to initiate the various research divisions of the Centre

42. Does the department obtain feedback from

| | |
|---|----------------|
| a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? | Not applicable |
| b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? | NA |
| c) Alumni and employers on the programmes offered and how does the department utilize the feedback? | NA |

43. List the distinguished alumni of the department (maximum 10): Nil

44. Give details of student enrichment programmes (special lectures / workshops /seminar) involving external experts:

There are periodic workshops and training programmes organized by the Centre. Special lectures of many visiting scholars from India and abroad were organized. Students are also encouraged to attend special lectures organized in other departments and schools.



45. List the teaching methods adopted by the faculty for different programmes: NA
46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?: NA
47. Highlight the participation of students and faculty in extension activities : NA
48. Give details of “beyond syllabus scholarly activities” of the department.: NA
49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. : No
50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.: Stress management strategies for teachers and students, impart Yoga training for NSS volunteers
51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:

Strength:

1. Centre for Yoga & Naturopathy (CYN) stands for interdisciplinary research which involves generation and integration of knowledge for holistic healthcare management.
2. CYN is envisaged as a Centre where all branches of Science, Social Science as well as Humanities converge.
3. Presence of adjunct faculty members from various disciplines to support the research activities of the Centre.

Weakness:

1. Lack of adequate research staff.
2. Insufficient number of research supervisors.
3. Lack of adequate space.
4. Lack of sufficient provision for capacity building and advanced training for the staff.

Opportunities:

1. As the centre envisages interdisciplinary /multidisciplinary studies there is ample provision for interactions, collaborations and linkages with various institutions within India and abroad.
2. Students from other disciplines can be attracted for studies in interdisciplinary dimension, an emerging trend all over the world.
3. Opportunities to provide extension services in the local and regional levels.

4. Establishing provision for better student placements and furthering of research activities with the linkages already established.
5. Potentiality for collaborating with society oriented sustainable activities of local bodies and government.

Challenges:

1. Generation of better output with the available resource and facilities.
2. Lack of sufficient space, infrastructure and research staff.
3. Need for additional facilities for research in frontier areas.
4. Utilizing effective linkages with industries.
5. Strengthening capacity building programme of the faculty and research groups.

52. Future plans of the department

1. To develop this new institute as a centre of convergence for alternative healthcare systems.
2. To organize international / national conferences involving alternative healthcare practitioners and researchers from various parts of the world.
3. To establish short term programmes in Yoga and Naturopathy.
4. To offer short term 'Semester in India' programmes for aspiring international students.



INSTITUTE FOR CONTEMPORARY CHINESE STUDIES (ICCS)

| | | | | | | |
|------------|---|---|---|------------|--------|-----------------------------|
| 1. | Name of the Department | : | Institute for Contemporary Chinese Studies (ICCS) | | | |
| 2. | Year of establishment | : | 2011 | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, Faculty of Social Sciences | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | NA | | | |
| 5. | Interdisciplinary programmes and departments involved | : | Nil | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | Nil | | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil | | | |
| 8. | Examination System | : | Semester | | | |
| 9. | Participation of the department in the courses offered by other departments | : | <ul style="list-style-type: none"> • Course modules on China Studies have been introduced at the Post Graduate level jointly with the School of International Relations and Politics as well as other academic departments. • M.Phil Programme on Chinese Studies has already been initiated and research programmes are being finalized. | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/ Associate Professors/ Asst. Professors/ others) | : | | Sanctioned | Filled | Actual(including CAS & MPS) |
| | | | Professor | Nil | Nil | Nil |
| | | | Associate Professors | Nil | Nil | Nil |
| | | | Asst. Professors | Nil | Nil | Nil |
| | | | Others | Nil | Nil | Nil |



11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance :

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./ M.Phil. /M.Phil students guided for the last 6 years |
|--------------|--------------------|-------------|--|----------------------------|--|
| Dr.C.Vinodan | M.A., M.Phil, Ph.D | Director | International Relations, China Studies and Development Studies | 12 | Ph.D-5 awarded 8 ongoing M.Phil-8 awarded |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:

| | |
|-----|--|
| 1. | Prof. Jia Haitao, Director, Institute for Chindian Studies, Jinan University, Guangzhou, China |
| 2. | Ambassador Vinod C. Khanna |
| 3. | Sri. Muraleedharan Nair, formerly Indian Counsel General, the Indian Mission at Guangzhou, Guangdong of China |
| 4. | Dr. Srikanth Kondapalli, Professor of Chinese Studies, Jawaharlal Nehru University, New Delhi |
| 5. | Mr. Yinghong Huang, Associate Professor, School of International Relations, Sun Yat-sen University, Guangzhou, China. |
| 6. | Li Mingquan, Professor & Vice –President, Sichuan Academy of Social Sciences (SASS), No. 155, West Section One, Ring One Road Chengdu, Sichuan Province, China |
| 7. | Alkha Acharya, Professor & Director, Institute of Chinese Studies, New Delhi. |
| 8. | Sanjay K. Jha is Professor and Dean, School of International Studies, Central University of Gujarat. |
| 9. | Yue Zhaomin, Associate Professor, Sichuan Academy of Social Sciences, China. Faculty and Secretary General of the "Centre for India Studies", SASS, China. |
| 10. | Chen Jinying, Associate Professor, School of International Relations & Public Affairs, Shanghai International Studies University 550 Dalian Road(West), Shanghai, China 200083 |
| 11. | Ji Mengxue, Sichuan Academy of Social Sciences (SASS), No. 155, West Section One, Ring One Road Chengdu, Sichuan Province, China |
| 12. | Amb. Rajiv Bhatia, Former Director , ICWA, New Delhi |



| | |
|-----|--|
| 13. | Mohan B. Pillai is Professor, Department of Politics and International Studies, Pondicherry University. |
| 14. | Li Jingfeng, Sichuan Academy of Social Sciences (SASS), No. 155, West Section One, Ring One Road Chengdu, Sichuan Province, China |
| 15. | Nie Wenjuan, Associate Professor, Institute of International Relations, China Foreign Affairs University. |
| 16. | Arvind Kumar, Professor and Head, Department Geopolitics and International Relations & Head, Manipal Centre for Asian Studies, Director, STUDY ABROAD PROGRAM, Manipal University, Manipal – 576104, Karnataka, India, |
| 17. | Chen Jixiang, Sichuan Academy of Social Sciences (SASS), No. 155, West Section One, Ring One Road Chengdu, Sichuan Province, China |
| 18. | Gopalji Malviya is former Professor and Head, Department of Defence and Strategic Studies, University of Madras. |
| 19. | Prof Nalini Kant Jha is Dean, School of Social Sciences & International Studies and Director, Southern Asia Studies Programme at Pondicherry University, Puducherry. |
| 20. | Prof. Tej Pratap Singh, Department of Political Science, Banaras Hindu University, Varanasi. |
| 21. | Mahesh Ranjan Debata, Centre for Inner Asian Studies, School of International Studies, Jawaharlal Nehru University, New Delhi. |
| 22. | W. Lawrence S. Prabhakar, Associate Professor, Department of Political Science, Madras Christian College, Chennai |
| 23. | Prof. M.J.Vinod, Department of Political science, University of Bangalore. |

13. Percentage of classes taken by temporary faculty : Nil

14. Program wise Student Teacher Ratio : Nil

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual : Nil

16. Research thrust areas as recognized by major funding agencies: Nil

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

Nil

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration: Nil

b) International collaboration:

- Jinan University, Guangzhou, China.
- Institute for Chindian Studies, Jinan University, Guangdong Province, China.



- Catholic University of Korea (CUK), Seoul.

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received :

- Rs. 25.00 Kerala Government
- Rs. 25.00 UGC

Total grants received: ₹ 50 Lakhs

20. Research facility / centre with : Nil

- ❖ State recognition
- ❖ National recognition
- ❖ International recognition

21. Special research laboratories sponsored by / created by industry or corporate bodies : Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-----------|
| 1. | Refereed Journal Publications | 17 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 15 |
| 4. | Chapters in Books | 9 |
| 5. | Edited Books | 4 |
| 6. | Books authored with ISBN | 4 |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| 9. | Total | 49 |

- Number listed in International Database (For *e.g.* Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) -- Nil
- Citation Index – range / average
* SNIP -- Nil
- SJR
- Impact Factor – range / average
- h-index Nil



23. Details of patents and income generated : Nil

24. Areas of consultancy and income generated : Nil

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad :

- Dr. C. Vinodan, Director, ICCS participated in the 2016 Sino-Indian Cross Cultural Dialogues held by the Institute of Advanced International Studies, **Sun Yat-sen University, Guangzhou, China** during 17-19 June ,2016.
- Dr. Raju K. Thadikkaran, Former Director ICCS jointly with Dr. K.M Seethi, Dean, Faculty of Social Sciences, Mahatma Gandhi University participated in the International Conference on Buddhism and World Culture organized by Jinan University, China as well as in a One Day Colloquium on the theme India and South Korea
- Dr. Raju K. Thadikkaran, Former Director of the ICCS visited Jinan University as well as Catholic University of Korea (CUK) during October-November 2011

26. Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any other (please specify) :

| Name of the Body/Society | Nature of Affiliation |
|--|------------------------|
| International : | |
| International Studies Association (USA) | Member |
| Human Security Institute(Canada) | Associate |
| International Journal of Public Policy (UK) | International Reviewer |
| National: | |
| Institute of Defence Studies and Analysis(New Delhi) | Associate Member |
| All India Political Science Association | Life Member |
| Indian Association for Canadian Studies | Life Member |
| Editorial Boards: | |
| Journal of Human Security(Canada) | Editorial Board Member |
| Journal of Challenges in Sustainability (Switzerland) | International Reviewer |
| South East Asian Journal of Social and Political Issues (Indonesia) | Editorial Board Member |
| Indian Journal of Politics and International Relations (India) | Associate Editor |



| | |
|--|------------------|
| Association of Asia Scholars | Associate Member |
| South Asian Journal of Diplomacy (India) | Associate Editor |
| Any other : | |
| Board of Studies in International Relations and Politics, Mahatma Gandhi University | Member |
| Board of Studies in Political Science, Kannur University | Member |
| Board of Studies in Political Science, Kerala University | Member |
| Board of Studies in Political Science, Maharajas College (Autonomous College), Ernakulum | Member |

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) :

- Organised a one day international symposium on Political Transformation and Development in India and China on 18 August 2016 under the auspices of ICCS &SIRP, Mahatma Gandhi University.
- The ICCS organized an International Symposium on the theme Political Transition in China and the United States – Implications for India on 28 February 2013 jointly with the KPS Menon Chair.

28. Student projects : NA

- percentage of students who have done in-house projects including inter-departmental projects:100%
- percentage of students doing projects in collaboration with other universities /industry / institute : Nil

29. Awards / recognitions received at the national and international level by : Nil

- Faculty
- Doctoral / Post-doctoral fellows
- Students

30. Seminars/ Conferences/Workshops organized and the source of funding (National/ International) with details of outstanding participants, if any:

Scholar-in-Residence

- Hosted Prof. Jia Haitao, Director, Institute for Chindian Studies, Jinan University, Guangzhou, China as the KSHEC sponsored Erudite Scholar-in-Residence during January 2011. Prof. Jia delivered a series of Lectures on the themes: Urbanisation and Social Development in China; Ethnic and Minority Question in China Today; Religion in the Contemporary China; Sino – Indian Relations: Issues and Challenges; One Country, Two Systems and the Taiwan Question.



Diplomat Lecture

- Invited Diplomat Lecture by Ambassador Vinod C. Khanna on the theme *Rise of China: Implications for the Rest of the World* jointly with the Public Diplomacy Division of Ministry of External Affairs (MEA), New Delhi.
- Invited Diplomat Lectures by Sri. Muraleedharan Nair, formerly Indian Counsel General, the Indian Mission at Guangzhou, Guangdong of China during November 2015.

Visiting Scholar

- Dr. Srikanth Kondapalli, Professor of Chinese Studies, Jawaharlal Nehru University, New Delhi associated with the ICCS as a Visiting Scholar for 10 days during March 2015.
- Prof. Jia Haitao, Director, Institute for Chindian Studies, Jinan University, China associated with the ICCS as a Visiting Scholar for 30 days during March 2015
- Visiting Scholar Prof. Jia Haitao, Director, Institute for Chindian Studies, Jinan University, China served Visiting Scholar at ICCS for 2 weeks during January 2016.

Special Lecture

- ICCS conducted series of Invited Special Lectures by Dr. Srikanth, a scholar from Peking University, China during November 2015
- **Seminars/Symposia/Conferences Organized by the Centre (Give details) recommendations and proposed follow-up**
- The ICCS organized a Symposium on the theme *China and the Emerging World Order: Is Peaceful Rise Possible?* on 23 December 2011 jointly with the KPS Menon Chair, School of International Relations and Politics, Mahatma Gandhi University
- The ICCS organized a major International Conference on China (CoC 2012) during 1-3 November 2012 on the theme **The Rise of China: Policy Parameters and Prospects** jointly with the Indian Council of World Affairs (ICWA), New Delhi, Association of Asian Scholars (AAS), New Delhi and the Institute of Chinese Studies (ICS), New Delhi
- The ICCS organized a major National Seminar on the theme “**Understanding China: Indian Perspectives**” jointly with the Nelson Mandela Chair for Afro-Asian Studies, SIRP and the Chennai Centre for Chinese Studies during February 2015. It was attended by around 20 invited scholars.
- The ICCS organized another major Conference on the theme “**Engaging Diaspora**” jointly with the Nelson Mandela Chair for Afro-Asian Studies, SIRP during March 2015.
- ICCS Associated with an International Conference on '**Understanding Contemporary India**' organized by the Rajiv Gandhi Chair for Public Policy Studies, School of International Relations and Politics & University Centre for International Co-operation, Mahatma Gandhi University during 14-15 January 2016.



- The ICCS organized a major International Conference on the theme “**India, China and The New Silk Road Initiatives: Challenges and Opportunities**” jointly with the School of International Relations and Politics during 11-12 November 2016. 8 Scholars from China and around 30 Scholars from different part of India participated and presented papers in the conference.

31. Code of ethics for research followed by the departments : Nil

32. Student profile programme-wise: NA

| Name of the Programme (refer to question no. 4) | Applications received | Selected | | Pass percentage | |
|--|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| Nil | Nil | Nil | Nil | Nil | Nil |

33. Diversity of students : NA

| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|--|--|--|---|------------------------------------|
| Nil | Nil | Nil | Nil | Nil |

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise : NA

35. Student progression:

| Student progression | Percentage against enrolled |
|--|-----------------------------|
| UG to PG | Nil |
| PG to M.Phil. | Nil |
| PG to Ph.D. | Nil |
| Ph.D. to Post-Doctoral | Nil |
| Employed | |
| <input type="checkbox"/> Campus selection | Nil |
| <input type="checkbox"/> Other than campus recruitment | |



36. Diversity of staff : Nil

| Percentage of faculty who are graduates | |
|--|-----|
| Of the same university | Nil |
| From other universities within the State | Nil |
| From universities from other States | Nil |
| From universities outside the country | |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: Nil

38. Present details of departmental infrastructural facilities with regard to: NA

- a) Library
- b) Internet facilities for staff and students
- c) Total number of class rooms
- d) Class rooms with ICT facility
- e) Students' laboratories
- f) Research laboratories

39. List of doctoral, post-doctoral students and Research Associates: Nil

- a) from the host institution/university
- b) from other institutions/universities

40. Number of post graduate students getting financial assistance from the university: Nil

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology : Nil

42. Does the department obtain feedback from :

- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? : NA
- b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? : NA
- c. Alumni and employers on the programmes offered and how does the department utilize the feedback? : NA

43. List the distinguished alumni of the department: Nil

44. Give details of student enrichment programmes (special lectures / workshops /



seminar) involving external experts:

Seminars/Symposia/Conferences Organized by the Centre :

- The ICCS organized a Symposium on the theme *China and the Emerging World Order: Is Peaceful Rise Possible?* on 23 December 2011 jointly with the KPS Menon Chair, School of International Relations and Politics, Mahatma Gandhi University
 - The ICCS organized a major International Conference on China (CoC 2012) during 1-3 November 2012 on the theme **The Rise of China: Policy Parameters and Prospects** jointly with the Indian Council of World Affairs (ICWA), New Delhi, Association of Asian Scholars (AAS), New Delhi and the Institute of Chinese Studies (ICS), New Delhi
 - The ICCS organized a major National Seminar on the theme “**Understanding China: Indian Perspectives**” jointly with the Nelson Mandela Chair for Afro-Asian Studies, SIRP and the Chennai Centre for Chinese Studies during February 2015. It was attended by around 20 invited scholars.
 - The ICCS organized another major Conference on the theme “**Engaging Diaspora**” jointly with the Nelson Mandela Chair for Afro-Asian Studies, SIRP during March 2015.
 - ICCS Associated with an International Conference on 'Understanding Contemporary India' organized by the Rajiv Gandhi Chair for Public Policy Studies, School of International Relations and Politics & University Centre for International Co-operation, Mahatma Gandhi University during 14-15 January 2016.
 - The ICCS organized a major International Conference on the theme “**India, China and The New Silk Road Initiatives: Challenges and Opportunities**” jointly with the School of International Relations and Politics during 11-12 November 2016. 8 Scholars from China and around 30 Scholars from different part of India participated and presented papers in the conference.
45. **List the teaching methods adopted by the faculty for different programmes:** Problem based learning, Flipped class rooms, group discussions, seminars etc..
 46. **How does the department ensure that programme objectives are constantly met and learning outcomes are monitored :** through student feedback system
 47. **Highlight the participation of students and faculty in extension activities:** Nil
 48. **Give details of “beyond syllabus scholarly activities” of the department :** The centre conducts awareness campaign on Chinese studies and collaborate with other institutions for conducting such programmes)
 49. **State whether the programme/ department is accredited/ graded by other agencies? If yes, give details:** UGC (The centre was established under the UGC area



study scheme. UGC conducts annual evaluation of the centre)

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:

The ICCS has been able to generate a very good awareness on the significance and rational of Chinese Studies among students, teachers and researchers. Further, the ICCS has been quite successful in initiating a dialogue among scholars, academics, diplomats and policy makers on the issues and concerns as well as opportunities associated with Chinese studies in general and Sino-Indian relations in particular.

The ICCS has been able to produce a number of papers presented by academics, policy makers and diplomats, reflective of their knowledge and expertise on China which will be of immense value to the students, research scholars, teachers and academics and will be of immense relevance to the policy making, as well. Most of these papers and presentations will be published shortly.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:

Strengths/Opportunities

- Leading centre in China studies in South India
- Only UGC approved centre for Chinese studies in South India
- Scope for more collaborative research programmes and MOUs
- More opportunities for Faculty and student exchange programmes
- Understanding the best practices in Chinas development models

Weaknesses/Challenges

- Absence of adequate support staff
- Shortage of Faculty and research staff
- Absence adequate trained Chinese language teachers and research staff
- Limited office space and classrooms
- Financial constraints

52. Future plans of the department.

- The ICCS proposes to enter into collaboration with few major institutions from China shortly.
- Semester Abroad Study Program whereby students from Mahatma Gandhi University will spend one semester in China and will specialize in course modules related to China. On the other hand, Chinese students will spend one semester in Mahatma Gandhi University, focusing on India studies.



-
- International Conference on the theme Internationalization of Higher Education in India and China: Challenges and Opportunities during 2016-17.
 - International Summer School on India and China on the theme The Rise of China and India: Socio-Cultural Milieu of India and China
 - Initiate M.Phil/Ph.D programs on Chinese studies in association with SIRP.
 - Collaborative research programs with reputed institutions from abroad
 - Initiate certificate and language courses in Chinese language for the Students, Faculty, Researchers and the Public;
 - Initiate various programs for creating awareness on China and Chinese Studies;
 - To initiate collaborative research programs in the areas of higher education reforms, development models, local governance, urbanization, Chinas global engagements etc. with Chinese and other foreign universities;



INSTITUTE FOR INTENSIVE RESEARCH IN BASIC SCIENCES (IIRBS)

| | | | | | | |
|---|---|---|--|------------|--------|-----------------------------|
| 1. | Name of the Department | : | Institute for Intensive Research in Basic Sciences (IIRBS) | | | |
| 2. | Year of establishment | : | 2008 | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, Faculty of Science | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc.) | : | 1. Integrated MSc. 2. Integrated PhD | | | |
| 5. | Interdisciplinary programmes and departments involved | : | 1. Integrated Interdisciplinary MS Programme 2. Integrated Interdisciplinary PhD Programme (MSc.+PhD) | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | Nil | | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil | | | |
| 8. | Examination System | : | Choice based Credit Semester System (CBCSS) | | | |
| 9. | Participation of the department in the courses offered by other departments | : | Nil | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/ Associate Professors/ Asst. Professors/others) | : | | Sanctioned | Filled | Actual(including CAS & MPS) |
| | | | Professor | Nil | Nil | Nil |
| | | | Associate Professors | Nil | Nil | Nil |
| | | | Asst. Professors | Nil | Nil | Nil |
| | | | Others | Nil | Nil | Nil |
| No permanent teaching faculties in IIRBS | | | | | | |

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./ M.Phil. students guided for the last 4 years |
|----------------------------------|---------------|---|-------------------------|----------------------------|--|
| Prof (Dr.) I. Ibnusaud | MSc, PhD | Professor & Director | Chemistry | 26 | 3- PhDs |
| Dr. Savitha Pillai. | MSc.PhD | Research Assistant Professor | Chemistry | - | - |
| Dr. Shine Joseph | MSc.PhD | Research Officer | Chemistry | 6 | - |
| Prof. (Dr.) Rajan Gurukkal P. M. | PhD | Former Vice Chancellor, M.G. University | Social sciences | 35 | - |
| Prof. J. G. Ray | MSc.PhD | Professor | Ecology & Ecotechnology | 30 | - |
| Dr. K. Indulekha | PhD | Professor | Astrophysics | 26 | - |
| Dr. Linu Mathew | PhD | Asst. Professor | Biosciences | 15 | - |

12. List of senior Visiting Fellows, Adjunct faculty, Emeritus professors:

Distinguished Consulting Research Professors

| Sl No | Name | University/Institute |
|-------|---------------------|---|
| 1 | Prof. Alain Berthod | Institute des Sciences Analytiques, Universite de Lyon – France |
| 2 | Prof. Anil J Elias | (Dept.Of Chemistry - IIT Delhi) - Awarded " INSA teachers awards 2012 " by Indian National Science Academy for excellence in teaching science & inspiring students. |



| | | |
|----|-----------------------------|---|
| 3 | Prof. Bakthan Singaram | Dept of Chemistry and Biochemistry - University of California, California |
| 4 | Prof. H. B. Khagan | Universite Paris-Sud, Orsay, France |
| 5 | Prof. Narayan S Hosmane | Dept. Of chemistry & Biochemistry - Northern Illinois University, USA |
| 6 | Prof. Vijay A. Singh | National Co-ordinator, Science Olympiads, Homi Bhabha Centre for Science Education, Mumbai |
| 7 | Prof. K. K. Balasubramanian | Professor, IIT Madras |
| 8 | Prof. I. N. N. Namboothiri | Professor, IIT Mumbai |
| 9 | Prof. P. J. Sebastian | Senior Scientist, Energy Research Center-UNAM, Mexico |
| 10 | Prof. M. S. Gopinathan | Professor, IISER, Trivandrum |
| 11 | Prof. Prasad L Polvarappu | Professor of chemistry - Vanderbilt University, Nashville |
| 12 | Dr. Thomas J Colacot | Research & Development Manager, Homogeneous catalysis - New Jersey, USA) awarded the RSC's Applied Catalysis Award – 2012 |
| 13 | Prof. Hassan Y. AboulEinen | National Research Centre, Cairo, Egypt 1-2-2014 |
| 14 | Prof. S. Chandrasekharan | IISc, Bangalore |
| 15 | Prof. Sankaran Subramanian | Rtd. Professor, IIT Madras |
| 16 | Prof. Radha V. Jayaram | ICT, Mumbai |
| 17 | Prof. Syed Akheel Ahmed | Dean, faculty of science and technology - University of Mysore, Mysore |
| 18 | Prof. K. G. Suresh | Dept. of Physics - IIT Mumbai |

Guest Faculty

| Sl No | Name | University/Institute/designation |
|-------|----------------------------------|---|
| 1 | Dr. A SalahuddinKunju | (Chemistry- PhD, Rtd.Professor) \ |
| 2 | Dr. C.S. Menon | (Physics - MSc.PhD - IIT, Madras) |
| 3 | Dr.Cyriac Thomas | (MA. Ph.D) Former Vice-Chancellor |
| 4 | Dr.G.Krishnan | (Chemistry- PhD, Rtd.Professor) |
| 5 | Dr. M. George | (Chemistry- MSc. Ph.D-IIT Madras) |
| 6 | Dr.Madhavan Pillai | (Chemistry - MSc.PhD, Wayne State University, Detroit) |
| 7 | Dr.Mankulam Krishnan Namboothiri | (Biology - MSc.Ph.D) |
| 8 | Dr. Manoj Ramavarma | (Physics - MSc.PhD, IIT, Madras) |
| 9 | Dr. N. Gopakumar | (Physics - MSc.Ph.D) |
| 10 | Dr.Nishanth Nair | (Chemistry-PhD, IIT Kanpur) |
| 11 | Ms . O. V Usha | (English - M.A) Poet and novelist (creative writing) |
| 12 | Dr. P. S. Anjana | (Physics - MSc.Ph.D) |
| 13 | Dr.PrathapanSreedharan | (Chemistry - Ph.D- IIT Kanpur) |
| 14 | Dr. S. Krishnakumar | (English- PhD, Rtd.Principal S.D College Alleppey) |
| 15 | Dr.ShereenRatnakar | (Archiology- Rtd. Professor Jawaharlal Nehru University) |
| 16 | Dr.Swaminathan | (Chemistry - Ph.D- IIT Kanpur) |
| 17 | Dr. T. Emilia Abraham | (Biology - MSc.Ph.D) Rtd. Director Grade scientist CSIR,TVM |
| 18 | Dr. T. N Vasudevan | (Physics- PhD, Rtd. Professor) |
| 19 | Dr. T. N. Suresh Kumar | (Chemistry - MSc. Ph.D , IIT Madras) |
| 20 | Dr. T.R. Sivakumar | (Mathematics - Ph.D, IIT, Madras) |
| 21 | Dr. V R Parameswaran | (Chemistry - Ph.D- IIT Madras) |
| 22 | Dr. Varghese Abraham | (English M.A.,MPhil, PhD) |
| 23 | Dr. Vineesh Vijayan | (Chemistry-PhD, IISER TVM) |



13. Percentage of classes taken by temporary faculty – programme-wise information:

| Programme | 2010-11 | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
|-----------------|---------|---------|---------|---------|---------|---------|
| Integrated MS | 80% | 80% | 80% | 80% | 80% | 80% |
| Integrated Ph.D | | | | | | |

14. Programme-wise Student Teacher Ratio

| | |
|---------------|---|
| Integrated MS | Most of the classes are managed by visiting/Guest/Temporary faculty |
|---------------|---|

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual: Administrative Staff: 2, Academic support staff: 6

16. Research thrust areas as recognized by major funding agencies:

Towards the utilization of regional resources for value added products following molecules have been identified from locally available plant sources and employed them in the broad area of Chirotechnology.

- Synthesis of Natural products
- Exploration of Chiral pool for industrially potential molecular entities like chiral stationary phases, chiral molecular sensors etc.
- Design and synthesis of chiral auxiliaries and catalysts.
- Self-assembling and replicating molecules-supra molecular chemistry.
- Chiral nano materials
- Chemistry of enedienes pertaining to the synthesis of anti-cancer drugs.
- Origin of chirality.
- Natural product exploration.

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

a) national

| SI No | Title of Project | Funding Agency | Grants received in Lakhs |
|-------|---|---|--------------------------|
| 1 | Synthesis of few Medicinally Important Chiral Molecules Derived from Renewable Resources | DST, Govt. of India, Project No.SR/S1/OC-98/2012–dated 07.03.2013 | 55.00 |
| 2 | Ex-chiral pool synthesis towards few molecules of Anticancer & Anti-tuberculosis Likeness | CSIR Project No.02(0101)/12/EMR – II dated 31.10.2012 | 30.0 |
| | | TOTAL | 85.00 |

b) International: Nil

c) Total grants received: ₹ 85.00 Lakhs

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration Nil

b) International collaboration Nil

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received :

| SI No | Title of Project | Funding Agency | Grants received |
|-------|--------------------------|---|-----------------|
| 1. | KCSTE under SARD Project | KCSTE under SARD Project Order No.524/2014/KCSTE dated 04.10.2014 | 30.00 |

Total grants received: ₹ 30 Lakhs

20. Research facility / centre with

- state recognition : Yes
- national recognition : Yes
- international recognition : Nil

21. Special research laboratories sponsored by / created by industry or corporate bodies: Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 08 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 04 |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| 9. | Total | 12 |



23. Details of patents and income generated : 2- Nil (2011-2015)

| Sl. No. | Details of the patent | Income Generated |
|---------|--|------------------|
| 1 | Ibrahim Ibnusaud and Sarath Muralidharan Pillai. Enatiopure total synthesis of indolizinoindole alkaloid (+)harmicine and (-) harmicine from (2S,3R)-Tetrahydro-3-hydroxy-5-oxo -2,3-furandicarboxylic acid (Hibiscus acid) and (2S,3S)-Tetrahydro-3-hydroxy-5-oxo -2,3-furandicarboxylic acid(Garcinia acid) Indian Patent No.3682/CHE/2016. | Nil |
| 2 | Synthesis of (R)-(+)- Crispine A and (S)-(-)- Crispine A from(2 S ,3 R)- and (2 S ,3 S)-Tetrahydro-3-hydroxy-5-oxo-2,3-furandicarboxylic acids, Divya Sadasivan Nair, Deenamma Habel and Ibrahim Ibnusaud, Indian Patent No.3484/CHE/2016 | Nil |

24. Areas of consultancy and income generated: Not offering any consultancy services.

25. Faculty selected nationally / internationally to visit other laboratories / institutions industries in India and abroad

International

| Sl. No. | Name of the university/industry/ meeting | Date | Details |
|---------|---|--|---|
| 1 | The State University of New Joursey, NJ, US | June 15 th -19 th 2014 | B NMR Spectroscopy Based Mechanistic Insight into Reduction Reactions of Hydroxyacid esters” BORON AMERICAS XIV (BORAM), Rutgers, to be held on. Chaired a session and presented a paper. |
| 2 | ACS Meeting Dallas, Texas | March 16-20, 2014 | “Synthesis of enantiopure 3-substituted, 3, 4-disubstituted pyrrolidinediones and related isoquinoline alkaloid”; Divya S. Nair, DeenammaHabel, Grace Thomas,and Ibrahim Ibnusaud, |
| 3 | 24 th International symposium on chiral Discrimination ISCD24, Fort Worth, Texas | June 10-13, 2012 | Ex-Chiral pool synthesis of Chiral 4-(2-Hydroxyethyl) pyrrolidine-3-ol: a potent anti-tuberculosis agent, Ibrahim Ibnusaud, |
| 4 | Boron Americas XIII, Purdue University USA | June 3-9 2012 | Semi synthetic production of potential enantiomerically pure molecules employing Boranes and Borohydride Reagents, I.Ibnusaud*, HSimimole, Divya S Nair and K.C Sachin Raj |



| | | | |
|---|---|---|---|
| 5 | University of Liverpool, Liverpool, UK, (ISCD – 2011) | 10 th July to 13 th July 2011 | A novel class of chiral phosphine ligand based on (2S,3S) – Tetrahydro-3-hydroxy-5-oxo-2,3,furan dicarboxylic acid, I.Ibnusaud, S. Anumol and AshnaShaji. |
|---|---|---|---|

26. Faculty serving in

a. National committees

| Name of the faculty | Committee |
|---------------------|---|
| Dr. I. Ibnu Saud | <ol style="list-style-type: none"> 1. Life Member, Indian Association of Chemistry Teachers, (IACT), Mumbai 2. Life Member, Chemical Research Society of India (CRSI), Bangalore. 3. Member Executive Council Indian Association of Chemistry Teachers, Homi Bhabha Centre for science Education (TIFR), Mumbai. (IACT). |

a) International committees: Nil

b) Editorial Boards: Nil

c) any other

| | |
|------------------|---|
| Dr. I. Ibnu Saud | <ol style="list-style-type: none"> 1. Member, Board of studies of MSc. Chemistry, School of Chemical Sciences, M. G. University. 2. Member, Board of studies of MSc. Chemistry (PG) in M. G. University |
|------------------|---|

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs): Nil

28. Student projects

- percentage of students who have done in-house projects including inter-departmental projects :100
- / percentage of students doing projects in collaboration with other universities industry / institute

29. Awards / recognitions received at the national and international level by

- Faculty

| Name of Faculty | Details |
|------------------------|--|
| Prof (Dr.) I. Ibnusaud | <ul style="list-style-type: none"> Invited as Distinguished Invited Scientist,(BrainKorea-21) by Functional Materials Division, Pusan National University, Busan, Korea(Oct.-Jan.2006) Scientific observer to the Indian team of 38th International Chemistry Olympiad held at Gyeongsan, Korea during July 2nd-11th, 2006 Best paper award for the paper presented in 'Chirality 2004' held at New York University, New York U.S.A.(2004). |



- Doctoral / Post-doctoral fellows : Nil
- Students

| Name of Students | Details |
|---|--|
| Students Achievements – Academic | <ul style="list-style-type: none"> • Indian Academy of Science (IAS) fellowship (SRF) • IAS Scholars -4 • NIUS Scholars - 8 • NIUS Chemistry Camp, (HBCSE,TIFR)-14 • INSPIRE -8 • KVPY -1 • S N Bose Scholarship-1 • (Indo-US) -1 |

30. Seminars/ Conferences/Workshops organized and the source of funding (national International) with details of outstanding participants, if any:

| Sl No. | Workshop/Seminar | Resource Person |
|--------|--|---|
| 1. | One day International Symposium on Concurrent methodologies in Organic Synthesis - in honour of Prof.Ei-ichiNegishi(2010 Chemistry Nobel Laureate, Purdue University , USA) on 13 th February 2016 | Prof.Ei-ichiNegishi (2010 Chemistry Nobel Laureate, Purdue University , USA) Prof. H. Junjappa, INSA – Senior Scientist, Dr. S. Chandrasekaran, IISC, Bangalore Dr. Ganesh Pandey, Director,CBMR, Lucknow Dr. T. V. RajanBabu, Professor, Ohio State University, USA Dr. A. Ajayagosh, Director, NIIST, Trivandrum Dr. Thomas J. Colocat, Johnson Matthey Co USA, Dr. H. Ila, JNCASR, Bangalore Dr.SrivariChandrashekar,Director, IICT, Hyderabad Dr. M. Periasamy, Vice chancellor, Hyderabad Central University Dr. I. N. N. Namboothiri, Professor, IIT , Mumbai |
| 2. | National Workshop on "NMR Spectroscopy", 10 th - 13 th September 2014. | Prof. C. L. Khetrapal (CBMR, Lucknow) Prof. S. Subramanian (IISER, Trivandrum) Prof. N. Chandrakumar (IIT, Madras) Prof. S. Ganapathy (NCL, Pune) Prof.Sankararaman (IIT, Madras) Prof. I. N. N. Namboothiri (IIT, Mumbai) Dr.Raghav G Mavinkurve (Bruker, Bangalore) Dr.Vineshvijayan (IISER, Trivandrum) Dr. Christy George (IIT, Madras) |
| 3. | Lecture series on "Liquid Chromatography", 9 th - 18 th December 2013. | Prof. Alain Berthod (Institute des Sciences Analytiques, Universite de Lyon - France) |



| | | |
|-----|---|---|
| 4. | Workshop on High Performance Liquid Chromatography (HPLC), 4 th & 5 th November 2013. | Dr. V. Gaitonde (Scientist, ProchromeLtd.,Mumbai) Prof. Hassan Aboul-Enein Y. (Dept. of Pharmaceutical & Medicinal Chemistry , National Research Centre , Egypt) Prof. Imran Ali (JamiaMilliaIslamia - Central University, New Delhi) |
| 5. | Lecture on "High Performance Liquid chromatography(HPLC), 4 th - 12 th November 2013. | Prof. Hassan Aboul-Enein Y. (Dept. of Pharmaceutical & Medicinal Chemistry, National Research Centre , Egypt) |
| 6. | Workshop on High Performance Liquid Chromatography (HPLC), 30 th April – 2 nd May 2013. | Dr.Gurubsavaraj H.M.(Waters, Bangalore) |
| 7. | Workshop on "Nuclear Magnetic Resonance: Theory and Application", 24 th - 26 th January 2013. | Dr. S. Ragothama Dr.Hanudatta S Atreya Prof. K.V. Ramanathan Prof. N. Suryaprakash (NMR Research Centre - Bangalore) |
| 8. | Lecture on "Boron based organic chemistry", 7 th - 19 th January 2013. | Prof. Bakthan Singaram (Dept of Chemistry and Biochemistry - University of California, California) |
| 9. | Lecture on "Boron and Gadolinium Neutron Capture Therapy for cancer treatment", 16 th -17 th December 2012. | Prof. Narayan S Hosmane (Dept. Of chemistry & Biochemistry - NorthernIllionis University, USA) |
| 10. | Lecture on "Organometalic and Bio-inorganic Chemistry", 10th-14th December 2012 | Prof. Anil J. Elias (Dept. of Chemistry - IIT Delhi) |
| 11. | Lecture on "Structural Topology Optimization with applications in structural engineering and biomechanics", 12 th December 2012. | Prof. Helder Rodrigues (Instituto Superior Tecnico, Dep. of Mechanical Engineering, Libon, Portugal) |
| 12. | Symposium on "Thoughts on Traditional and Genome based Human History" 6th November, 2012. | Prof.RjanGurukkal (Former Vice Chancellor, M. G. University) DR. R. M. Pitchappan (Director,CARE, Chennai) Shri. E. Kunjikkrishnan (Univeristy College, TVM) Dr. M. R. Rakhava Warrior (Rtd. Professor, Calicut University) |
| 13. | Advanced Materials Characterization Techniques, May 21st - 25th, 2012 | Prof. K. G. Suresh (IIT, Mumbai) Prof.UnnikrishnanNayar (IISER, Trivandrum) Dr. Manoj Ramavarma(NIIST, Trivandrum) |



| | | |
|-----|--|--|
| 14. | Seminar on Research and Development in Chemical Process Development, 22 nd Sept.,2012 | Prof. S.D Samanth, ICT, Mumbai |
| 15. | Application of Magnetic Resonance Spectroscopy in scientific research.,10 th Sept.2012 | Prof. K.V. Ramanathan, IISc, Bangalore |
| 16. | Seminar on Metal Mediated Organic Synthesis, 4 th Sept.2012 | Prof. I.N.N. Namboothiri, Dept. Chemistry, IIT Delhi |
| 17. | Patenting research findings, 10 th August.,2012 | Dr.Syriac Joseph, Palco consultants, UK |
| 18. | Seminar – A review on Renewable Energy Technologies, 17 th July., 2012 | Dr. P. J Sebastian, senior Scientist, CIE, UNAM, Mexico |
| 19. | Talk - Organic Chemistry and Pharmaceutical Industry, 24 th April, 2012 | Prof. K K. Balasubramaniam, IIT Madras (Retd.) |
| 20. | Seminar on Application of two dimensional NMR in the structural elucidation of biomolecule | Dr.Vineeshvijayan, IISER, TVM |
| 21. | Summer Workshop on Computational chemistry, May 28th - 31st, 2012 | Prof. R. B. Sunoj, Dept. of chemistry, IIT Mumbai Prof.Nishanth N. Nair, Dept. of chemistry, IIT Kanpur |
| 22. | Workshop on Advanced Materials Characterization Techniques, 21st - 25th May, 2012 | Prof .V.UnnikrishnanNayar, IISER, Trivandrum Dr. S. SavithaPillai, DST Fast track Research Scientist, NIIST, Trivandrum Dr. Manoj RaamaVarma, Principal Scientist, NIIST, Trivandrum Prof.K.G.Suresh, Department of Physics, IIT, Mumbai |
| 23. | Science Academies' Lecture Workshop on Quantum Mechanics, Molecular- Resonance Spectroscopy and Hands-on Experience in Spectroscopy, March 1 – 3, 2012 | Prof.M. S. Gopinathan, IISER, TVM Prof. K.L Sebastian, IISc, Bangalore Prof.Mangala Sunder, IIT, Madras Prof.Ramasesha, IISc, Bangalore Prof. T.N Vasudevan, Calicut University Prof. N. Chandrakumar, IIT, Madras Dr. Christy George, IIT, Madras Dr.AyanDatta, IISER, TVM |
| 24. | English Language Skill Workshop, December 22 – 23, 2011 | District Centre for English (DCE - Neyyattinkara) |
| 25. | Seminar on Genetic Structure of Indian Jewish | Dr. Mini Kariappa, Dept. Anatomy, Medical college, Kolencherry |

| | | |
|-----|--|---|
| | Diaspora, October 27 – 28, 2011 | |
| 26. | Workshop on Organometallic Chemistry, August 23- 26, 2011 | Prof. Anil J. Elias, IIT Delhi |
| 27. | Seminar associated with New student orientation programme, Sept.02, 2011 | Dr. Suresh Das, Director, NIIST, TVM Dr. Manoj Ramavarma , Scientist, NIIST, TVM |
| 28. | Workshop on Basic Principles and Applications of Computational Chemistry, May 23- 27, 2011 | Prof. R.B. Sunoj, IIT Mumbai Prof. A. Anoop, IIT Kharagpur Prof.AyanDutta, IISER Trivandrum |
| 29. | Seminar on Pharmaceutical Process Chemistry, May 17, 2011 | Dr.RajappaVaidyanathan, Chemical Research and Development Division, Pfizer, Groton, CT, USA |

31. Code of ethics for research followed by the departments:

(a) Plagiarism: It's mandatory for all master and PhD students to strictly adhere to plagiarism before submitting any manuscript to a journal. The central library of mahatma Gandhi University has most modern software to check plagiarism. Since last year the doctoral thesis of all researchers at mahatma Gandhi University needs to submit a plagiarism report in the thesis which should be less than 10%. Nevertheless, research scholars and master students are also given special training to use plagiarism software.

32. Student profile programme-wise:

| Name of the Programme (refer to question no. 4) | Applications received | Selected | | Pass percentage | |
|--|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| Integrated MSc | 534 | 7 | 7 | 100 | 100 |

33. Diversity of students

| Name of the Programme | % of students from the same university | % of students from other universities within the State | % of students from outside the State | % of students from other countries |
|---|--|--|--------------------------------------|------------------------------------|
| Integrated MSc (students are admitted after Higher Secondary) | NA | NA | 3% | Nil |
| Integrated PhD | | | | Nil |



34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise:

| Sl. No | Year | NET/ JRF Qualified | GATE | Kerala PSC | Others |
|--------|-----------|--------------------|------|------------|--------|
| 1 | 2010-2016 | 4 | 7 | Nil | Nil |

35. Student progression:

| Student progression | Percentage against enrolled |
|---------------------------------|-----------------------------|
| UG to PG | NA |
| PG to M.Phil. | NA |
| PG to Ph.D. | 60% |
| Ph.D. to Post-Doctoral | NA |
| Employed | |
| o Campus selection | Nil |
| o Other than campus recruitment | 20% |
| Entrepreneurs | Nil |

36. Diversity of staff:

| Percentage of faculty who are graduates | |
|--|-------------------------------|
| Of the same University | Nil |
| From other universities within the State from | 10% (Temporary faculty) |
| Universities from other States from universities | 70% (Guest/Temporary faculty) |
| Outside the country 0% | 20% (Guest faculty) |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: Nil

38. Present details of departmental infrastructural facilities with regard to

| | |
|---|---|
| a) Library | Available Total Number of Books - 535 |
| b) Internet facilities for staff and students | Yes, Internet facilities available for all staff and students |
| c) Total number of class rooms | 5 |
| d) Class rooms with ICT facility | Yes |
| e) Students' laboratories | Yes |



| | |
|---------------------------------|--|
| <p>f) Research laboratories</p> | <p>Laboratories equipped with:</p> <ul style="list-style-type: none"> • 400MHz BRUKER NMR • Nitrogen Gas Generator • Semi preparative HPLC with ELS Detector • Atomic Absorption Spectrophotometer • FT – IR • Microwave Digester • UV-Visible Spectrophotometer • High Speed Refrigerated Centrifuge • Low temperature bath • Lyophilizer • DC - Conductivity Measurement Facilities |
|---------------------------------|--|

39. List of doctoral, post-doctoral students and Research Associates

a) from the host institution/university

| |
|------------------------|
| Doctoral Fellow |
| Mr. Sarath, M |
| Mr. Prasanth C.P |
| Ms. Zabeera K.T |

b) from other institutions/universities : Nil

40. Number of post graduate students getting financial assistance from the university:

| Programme | E-Grants | RGNF |
|------------------|---|-------------|
| Integrated MSc | Nil (University is providing student assistantship for managing instrumental facilities and lab) | |

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology:

An expert faculty council meeting will study the needs of the academic community and formulate the curriculum as per the recent advances in basic sciences. The faculty council members also take views and ideas to formulate a good curriculum after having a series of discussions with national and international experts



42. Does the department obtain feedback from

| | | |
|----|--|---|
| a) | Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? | Yes, the department collects feedback from Faculty and discussions are conducted in the faculty council Meeting. |
| b) | Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? | Yes, the department collects feedback from students and discussions are conducted in the faculty council Meeting. |
| c) | Alumni and employers on the programmes offered and how does the department utilize the feedback? | Alumni meetings are conducted annually and the feedback is obtained. |

43. List the distinguished alumni of the department (maximum 10)

First batch of Integrated MSc Programme (2009 - 2014)

| Sl. No | Alumni Name | Current Position |
|--------|-------------------------|--|
| 1 | Dellamol Sebastian | PhD Programme - USA (CUNY Fellowship, USA). |
| 2 | Anumol S | PhD Programme -Indian Institute of Science, Bangalore |
| 3 | Ashna Shaji | PhD Programme - Indian Institute of Technology, Madras |
| 4 | Surya K | PhD Programme -Indian Institute of Technology, Mumbai |
| 5 | Sudheesh T. S | PhD Programme - Indian Institute of Technology, Mumbai |
| 6 | Manish Kumar | PhD Programme – Indian Institute of Science Education and Research, Mohali |
| 7 | Sachin Raj K.C | Scientist, Anthem Biosciences Pvt. Ltd, Bangalore |
| 8 | Arshad Sayed M. V. | Scientist, Anthem Biosciences Pvt. Ltd, Bangalore |
| 9 | Tharique Ahammed Ansari | Selected for PhD Programme, Louisville, Kentucky, USA |
| 10 | Harikrishnan Nambiar | Selected for PhD Programme Louisville, Kentucky, USA |

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:

| Sl. No. | Workshop/Seminar | Resource Person |
|---------|---|--|
| 1 | Workshop on Main group and Organometallic Chemistry on October 24 – 26, 2016 | <ul style="list-style-type: none"> • Prof. Anil. J. Elais, IIT, Delhi • Dr. Rajesh Kunjan Pillai, St. Albert's College, Ernakulam |
| 2 | One day International Symposium on Concurrent methodologies in Organic Synthesis - in honour of Prof. Ei-ichi Negishi (2010 Chemistry Nobel Laureate, Purdue University, USA) on 13 th February 2016 | <ul style="list-style-type: none"> • Prof. Ei-ichi Negishi (2010 Chemistry Nobel Laureate, Purdue University, USA) • Prof. H. Junjappa, INSA – Senior Scientist, • Dr. S. Chandrasekaran, IISc, Bangalore • Dr. Ganesh Pandey, Director, CBMR, Lucknow • Dr. T. V. Rajan Babu, Professor, Ohio State University, USA • Dr. A. Ajayagosh, Director, NIIST, Trivandrum • Dr. Thomas J. Colocat, Johnson Matthey Co USA, • Dr. H. Ila, JNCASR, Bangalore • Dr. Srivari Chandrashekar, Director, IICT, Hyderabad • Dr. M. Periasamy, Vice chancellor, Hyderabad Central University • Dr. I. N. N. Namboothiri, Professor, IIT, Mumbai |
| 3 | National Workshop on "NMR Spectroscopy", 10 th - 13 th September 2014. | <ul style="list-style-type: none"> • Prof. C. L. Khetrapal (CBMR, Lucknow) • Prof. S. Subramanian (IISER, Trivandrum) • Prof. N. Chandrakumar (IIT, Madras) • Prof. S. Ganapathy (NCL, Pune) • Prof. Sankararaman (IIT, Madras) • Prof. I. N. N. Namboothiri (IIT, Mumbai) • Dr. Raghav G Mavinkurve (Bruker, Bangalore) • Dr. Vinesh Vijayan (IISER, Trivandrum) • Dr. Christy George (IIT, Madras) |
| 4 | Lecture series on "Liquid Chromatography", 9 th - 18 th December 2013. | <ul style="list-style-type: none"> • Prof. Alain Berthod (Institute des Sciences Analytiques, Université de Lyon - France) |
| 5 | Workshop on High Performance Liquid Chromatography (HPLC), 4 th & 5 th November 2013. | <ul style="list-style-type: none"> • Dr. V. Gaitonde (Scientist, Prochrome Ltd., Mumbai) • Prof. Hassan Aboul-Enein Y. (Dept. of Pharmaceutical & Medicinal Chemistry, National Research Centre, Egypt) • Prof. Imran Ali (Jamia Millia Islamia - Central University, New Delhi) |



| | | |
|----|--|---|
| 6 | Lecture on "High Performance Liquid chromatography(HPLC), 4 th - 12 th November 2013. | <ul style="list-style-type: none">• Prof. Hassan Aboul-Enein Y. (Dept. of Pharmaceutical & Medicinal Chemistry , National Research Centre , Egypt) |
| 7 | Workshop on High Performance Liquid Chromatography (HPLC), 30 th April – 2 nd May 2013. | <ul style="list-style-type: none">• Dr.Gurubsavaraj H.M. (Waters, Bangalore) |
| 8 | Workshop on "Nuclear Magnetic Resonance: Theory and Application", 24 th - 26 th January 2013. | <ul style="list-style-type: none">• Dr. S. Ragothama• Dr.Hanudatta S Atreya• Prof. K.V. Ramanathan• Prof. N. Suryaprakash (NMR Research Centre - Bangalore) |
| 9 | Lecture on "Boron based organic chemistry",7 th - 19 th January 2013. | <ul style="list-style-type: none">• Prof.BakthanSingaram(Dept of Chemistry and Biochemistry - University of California, California) |
| 10 | Lecture on "Boron and Gadolinium Neutron Capture Therapy for cancer treatment",16 th -17 th December 2012. | <ul style="list-style-type: none">• Prof. Narayan S Hosmane (Dept. Of chemistry & Biochemistry - NorthernIllionis University, USA) |
| 11 | Lecture on "Organometalic and Bio-inorganic Chemistry",10th-14th December 2012 | <ul style="list-style-type: none">• Prof. Anil J. Elias (Dept. of Chemistry - IIT Delhi) |
| 12 | Lecture on "Structural Topology Optimization with applications in structural engineering and biomechanics",12 th December 2012. | <ul style="list-style-type: none">• Prof. Helder Rodrigues (Instituto Superior Tecnico, Dep. of Mechanical Engineering, Lisbon, Portugal) |
| 13 | Symposium on "Thoughts on Traditional and Genome based Human History" 6th November, 2012. | <ul style="list-style-type: none">• Prof.RajanGurukkal (Former Vice Chancellor, M. G. University)• DR. R. M. Pitchappan (Director,CARE, Chennai)• Shri. E. Kunjikkishnan (Univeristy College, TVM)• Dr. M. R. Rakhava Warrior (Rtd. Professor, Calicut University) |
| 14 | Advanced Materials Characterization Techniques, May 21st - 25th,2012 | <ul style="list-style-type: none">• Prof. K. G. Suresh (IIT, Mumbai)• Prof.UnnikrishnanNayar (IISER, Trivandrum)• Dr. Manoj Ramavarma(NIIST, Trivandrum) |



| | | |
|----|--|--|
| 15 | Seminar on Research and Development in Chemical Process Development, 22 nd Sept.,2012 | <ul style="list-style-type: none"> • Prof. S.D Samanth, ICT, Mumbai |
| 16 | Application of Magnetic Resonance Spectroscopy in scientific research.,10 th Sept.2012 | <ul style="list-style-type: none"> • Prof. K.V. Ramanathan, IISc, Bangalore |
| 17 | Seminar on Metal Mediated Organic Synthesis, 4 th Sept.2012 | <ul style="list-style-type: none"> • Prof. I.N.N. Namboothiri, Dept. Chemistry, IIT Delhi |
| 18 | Patenting research findings, 10 th August.,2012 | <ul style="list-style-type: none"> • Dr.Syriac Joseph, Palco consultants, UK |
| 19 | Seminar – A review on Renewable Energy Technologies, 17 th July., 2012 | <ul style="list-style-type: none"> • Dr. P. J Sebastian, senior Scientist, CIE, UNAM, Mexico |
| 20 | Talk - Organic Chemistry and Pharmaceutical Industry, 24 th April, 2012 | <ul style="list-style-type: none"> • Prof. K K. Balasubramaniam, IIT Madras (Retd.) |
| 21 | Seminar on Application of two dimensional NMR in the structural elucidation of biomolecule | <ul style="list-style-type: none"> • Dr.Vineeshvijayan, IISER, TVM |
| 22 | Summer Workshop on Computational chemistry, May 28th - 31st, 2012 | <ul style="list-style-type: none"> • Prof. R. B. Sunoj, Dept. of chemistry, IIT Mumbai • Prof.Nishanth N. Nair, Dept. of chemistry, IIT Kanpur |
| 23 | Workshop on Advanced Materials Characterization Techniques, 21st - 25th May, 2012 | <ul style="list-style-type: none"> • Prof .V.UnnikrishnanNayar, IISER, Trivandrum • Dr. S. SavithaPillai, DST Fast track Research Scientist, NIIST, Trivandrum • Dr. Manoj RaamaVarma, Principal Scientist, NIIST, Trivandrum • Prof.K.G.Suresh, Department of Physics, IIT, Mumbai |
| 24 | Science Academies' Lecture Workshop on Quantum Mechanics, Molecular- Resonance Spectroscopy and Hands-on Experience in Spectroscopy, March 1 – 3, 2012 | <ul style="list-style-type: none"> • Prof.M. S. Gopinathan, IISER, TVM • Prof. K.L Sebastian, IISc, Bangalore • Prof.Mangala Sunder, IIT, Madras • Prof.Ramasesha, IISc, Bangalore • Prof. T.N Vasudevan, Calicut University • Prof. N. Chandrakumar, IIT, Madras • Dr. Christy George, IIT, Madras • Dr.AyanDatta, IISER, TVM |



| | | |
|----|--|---|
| 25 | English Language Skill Workshop, December 22 – 23, 2011 | <ul style="list-style-type: none">• District Centre for English (DCE - Neyyattinkara) |
| 26 | Seminar on Genetic Structure of Indian Jewish Diaspora, October 27 – 28, 2011 | <ul style="list-style-type: none">• Dr. Mini Kariappa, Dept. Anatomy, Medical college, Kolencherry |
| 27 | Workshop on Organometallic Chemistry, August 23- 26, 2011 | <ul style="list-style-type: none">• Prof. Anil J. Elias, IIT Delhi |
| 28 | Seminar associated with New student orientation programme, Sept.02, 2011 | <ul style="list-style-type: none">• Dr. Suresh Das, Director, NIIST, TVM• Dr. Manoj Ramavarma , Scientist, NIIST, TVM |
| 29 | Workshop on Basic Principles and Applications of Computational Chemistry, May 23- 27, 2011 | <ul style="list-style-type: none">• Prof. R.B. Sunoj, IIT Mumbai• Prof. A. Anoop, IIT Kharagpur• Prof. Ayan Dutta, IISER Trivandrum |
| 30 | Seminar on Pharmaceutical Process Chemistry, May 17, 2011 | <ul style="list-style-type: none">• Dr.Rajappa Vaidyanathan, Chemical Research and Development Division, Pfizer, Groton, CT, USA |

45. List the teaching methods adopted by the faculty for different programmes:

- Power point presentation
- OHP teaching materials
- NPTEL lectures

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored:

- Feedback from students.
- Examination Evaluation reports
- Feedback from resource persons in conferences, special lectures

47. Highlight the participation of students and faculty in extension activities:

The Institute provides intellectual, instrumental as well as experimental support for pursuing excellence in all branches of sciences and is expected to contribute to the talent pool of researchers, specialized technicians and to the scientific community.

48. Give details of “beyond syllabus scholarly activities” of the department:

Arranging special coaching classes for cracking national level examinations like GATE NET CSIR etc.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details:

Yes, our institute is listed in the Nature Index in the Institution output – Weighted Fractional count : **0.14**.

The link for more details is

<http://www.natureindex.com/institution-outputs/india/institute-for-intensive-research-in-basic-sciences-iirbs-mg-university/57870361140ba0d6628b456d>

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:

The institute has applied for several national and international patents. The major contributions of the institution are in the following areas.

1. Importance of solvation in understanding the chiroptical spectra of natural products in solution phase: garcinia acid dimethyl ester.
2. A single chiroptical spectroscopic method may not be able to establish the absolute configurations of diastereomers: dimethylesters of hibiscus and garcinia acids.
3. Chiroptical spectroscopy of natural products: avoiding the aggregation effects of chiral carboxylic acids.
4. Enantiomerically pure compounds related to chiral hydroxy acids derived from renewable resources.
5. Synthesis of enantiopure furo [2, 3-b] pyrroles.
6. Palladium-Catalyzed α -Arylation Reactions in Total Synthesis.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:

Strengths

- Patents and Publications (National and International)
- Sophisticated Laboratories for research
- Resident learning programmes.
- Collaboration with national and international universities.
- The curriculum details, instrumentation facility and the inter-disciplinary centre are complementary and constitute the knowledge centre. Learning, knowledge creation and updating of curriculum and course structure are part of the centre's activities
- Empowerment of basic science education.
- Training programs for thematic and purposeful learning and research.
- Direct participation of the students in the operation and maintenance of the



instrumentation facility and laboratory.

- Self-evolving and auto catalytic mechanism of generation of knowledge and exploitation by the same system.
- Identifying the challenges and thrust areas, priorities of knowledge and tuning the learning process accordingly.
- Curriculum is linked with skill generation.
- Facilitator and catalyst for joint programs between different institutions of higher learning and research.
- The functioning of the centre is monitored and governed by eminent experts from outside the University.
- The centre continuously updates the knowledge base in line with international trends. The updated information is used as an input for planning and development. Training and management of IPR is part-and-parcel of the curriculum.

Weakness

- Deficiency of permanent faculty and staff.
- Lack of required infrastructure
- Non availability of Permanent power supply

Opportunities

- Prospects for higher studies and jobs are enormous for our students

Challenges

- Maintenance of the highly sophisticated instruments in time and the cost involved.

52. Future plans of the department:

- To start more academic programmes in Basic Sciences.
- To equip the institution with more sophisticated instruments.
- To generate more patents and publications in various areas of research.

K. N. RAJ CENTRE FOR PLANNING AND CENTRE-STATE RELATIONS (KNRC)

| | | | |
|----|---|---|---|
| 1. | Name of the Department | : | KN. Raj Centre for Planning and Centre-State Relations |
| 2. | Year of establishment | : | 2012 |
| 3. | Is the Department part of a School/Faculty of the University? | : | Faculty of Social Science |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | MA |
| 5. | Interdisciplinary programmes and departments involved | : | <ol style="list-style-type: none"> 1. The Centre pioneers in initiating innovation and incubation activities in the University under the institutional umbrella of Business Innovation and Incubation Studies. It focuses on technology and entrepreneurship (Technopreneurship) conducts programmes that involve the School of Biosciences, School of Computer Sciences, School of Chemical Sciences, School of Pure and Applied Physics, School of Environmental Sciences, Centre for Nanotechnology, etc. 2. Open Course is offered as interdisciplinary programme for P G students for all the Schools. 3. The Centre conducted training programme on 'Budgeting and Legislation' with the Gulati Institute of Finance and Taxation, Thiruvananthapuram. The programme equips students to comprehend the nuances of budget making process and a visit to State legislative assembly during budget session. The significant highlight is the programme is that it offers a plat form for the State Finance minister to have post-budget interaction with the University students and faculty. |



| | | | | | | |
|---|---|---|--|------------|--------|-----------------------------|
| | | | The entire programme is interdisciplinary and is premised upon Economics, Public Policy, Political Science and Constitutional Law. | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | The training programme conducted on Budgeting and Legislation is conducted with Gulati Institute of Finance and Taxation (GIFT), Trivandrum. It also includes selected students from colleges affiliated to Mahatma Gandhi University. | | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil | | | |
| 8. | Examination System | : | Annual/Semester/Trimester/Choice Based Credit System: Choice based Credit system –semester | | | |
| 9. | Participation of the department in the courses offered by other departments | : | Classes offered by faculties for the courses offered by other departments | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual Professors/ Associate Professors/ Asst. Professors/others) | : | | Sanctioned | Filled | Actual(including CAS & MPS) |
| | | | Professor | 0 | NA | NA |
| | | | Associate Professors | 0 | NA | NA |
| | | | Asst. Professors | 0 | NA | NA |
| | | | Others | - | - | - |
| Director (Hon.)- 1; Joint Director – 1 On Contract -3 | | | | | | |

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance:

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./M.Phil. Students guided for the last 6 years |
|-----------------------|----------------------|---------------------|--|----------------------------|---|
| Dr. Girish Kumar R | faculty MA, LLB, PhD | Hon. Director | International Political Economy, Entrepreneurship, International Law | 10 years | 8PhDs 10 M.Phils |
| Dr.V. Mathew Kurian | MA, PhD | Joint Director | International Trade Globalisation, Indian Economy Development | 44 years | 12 PhDs 8 PhDs produced 30 M.Phils produced |
| Dr. Jose J Naduthotty | MA, PhD | Faculty on Contract | Environment Macroeconomics Public Finance | 26 years | NIL |



| | | | | | |
|--------------------|------------|---------------------|--|----------|-----|
| N.C Jacob | MA, M.Phil | Faculty on Contract | Econometrics Mathematical Economics | 25 years | NIL |
| Mrs. Mrudula Mohan | MA | Faculty on Contract | Banking, Microeconomics International Economics | 1 year | NIL |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors : NIL

13. Percentage of classes taken by temporary faculty – programme-wise information:

M.A 90%

14. Programme-wise Student Teacher Ratio::

| Programme | Student Teacher Ratio |
|-----------|-----------------------|
| MA | 4:1 |

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual Technical Staff :

| | Sanctioned | Filled and actual |
|----------------------|------------|---------------------------------|
| Technical | 0 | 0 |
| Administrative Staff | 0 | 3 1 Permanent; 2 daily wages |

16. Research thrust areas as recognized by major funding agencies:

- Planning and Fiscal Federalism
- Decentralized Planning and Governance
- Plantation Economy of Kerala
- Health Economics
- Migration
- Free Trade and Agrarian Economy of Kerala
- Public Policy
- Political Economy
- Innovation
- Centre-State Relations
- Monitoring and evaluation of public policy



17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise :

a) National – 1

| | Project Title | Period | Funding agencies | Total Fund in Lakhs (₹) |
|----|--|-----------|--------------------------------|-------------------------|
| 1. | WTO, Public Health and South Asia: A study with particular reference to India | 2016-2018 | UGC major project | 8.89 |
| 2. | Business Innovation and student start up | 2016-2017 | Govt. of Kerala | 100.00 |
| 3. | Free Trade Agreement and Agrarian Economy of India: A study with special reference to Kerala | 2010-2012 | UGC major project | 7.00 |
| 4. | Role of Institutions in the development of Plantation Agriculture. A study of Rubber producers' societies in India | 2014 | Centre for Development Studies | 0.75 |

b) International - 1

| | Project Title | Period | Funding agencies | Total Fund (RS) |
|----|---------------------------------------|---------|--|-----------------|
| 1. | Asset Management in Local Governments | 2015-16 | World Bank/ Decentralisation and Analysis Cell , Govt. of Kerala | 2.50 |

Total grants received: ₹ 119.14 Lakhs

18. Inter-institutional collaborative projects and associated grants received
a) National collaboration :

| | Project Title | Period | Funding agencies | Total Fund (RS) |
|----|--------------------------------------|---------|--|------------------------|
| 1. | Conducting Training programmes | 2016-17 | Collaboration with Gulati Institute of Finance and Taxation, Trivandrum; | Collaborative projects |
| 2. | Participation in training programmes | 2015-16 | Institute for Studies in Industrial Development, New Delhi | |

b) International collaboration : Nil
19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received :

| SL.No | Project Title | Period | Funding agencies | Total Fund in Lakhs (₹) |
|-------|------------------------------------|--------|------------------------------------|-------------------------|
| 1. | ICSSR, Delhi | 2015 | ICSSR for holding national seminar | 2.5 |
| 2. | Institute of Parliamentary studies | 2015 | For conducting symposium on GST | 1 |

Total grants received: ₹ 3.5 Lakhs

20. Research facility / centre with

- State recognition -NA
- National recognition -NA
- International recognition NA

21. Special research laboratories sponsored by / created by industry or corporate bodies : Nil



22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-----------|
| 1. | Refereed Journal Publications | 23 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | Nil |
| 4. | Chapters in Books | 10 |
| 5. | Edited Books | 4 |
| 6. | Books authored with ISBN | 2 |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | 6 |
| | Total | 45 |

23. Details of patents and income generated: Nil

24. Areas of consultancy and income generated : Nil

25. Faculty selected nationally / internationally to visit other laboratories / institutions/industries in India and abroad:

| Sl. No. | Name of the faculty | Laboratory |
|---------|---------------------|---|
| 1. | Girish Kumar R | 1. Jean Monnat Fellow, European University Institute, Florence Italy 2. Delivered lectures at Central University of Gujarat. 3. Delivered lecture at Swansea University, UK 4. Paper presented at London School of Economics |

26. Faculty serving in

a) National committees

| Sl. No. | Name of the faculty | Laboratory |
|---------|---------------------|---|
| 1. | Girish Kumar R | 1. UGC nominee to Midnapore College, West Bengal (Autonomous) |

b. International committees: NIL

c. Editorial Boards



| Sl. No. | Name of the faculty | Committee |
|---------|-----------------------|--|
| 1. | Dr. Girish Kumar R | 1. Journal of Political Economy and Fiscal Federalism 2. International Journal of Politics and International Relations 3. South Asian Journal of Diplomacy |
| 2. | Prof. Mathew Kurian | 1. Journal of Political Economy and Fiscal Federalism |
| 3. | Prof. Jose Naduthotty | 1. Journal of Political Economy and Fiscal Federalism |

d. Others:

| Sl. No. | Name of the faculty | Committee |
|---------|---------------------|---|
| 1. | Girish Kumar R | 1. Member Syndicate, University of Kerala; 2. Covener, Syndicate Subcommittee on Academics and Research, University of Kerala; 3. Board of Studies, Political Science, Kannur University; 4. Dean, International Co-operation Central University of Kerala; 5. Chairman, Board of Studies (International Relations), Central University of Kerala 6. Director (Hon.), Business Innovation and Incubation Centre, Mahatma Gandhi University |

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) :

| Sl. No. | Name of the faculty | Name of the programme |
|---------|---------------------|---|
| 1. | Girish Kumar R | 1. Girish Kumar R., Refresher Course at JNU, Faculty Development Centre |

28. Student projects:

| | |
|---|-------------------------------|
| Percentage of students who have done in-house projects including inter-departmental projects | 100% (PG Dissertation) |
| Percentage of students doing projects in collaboration with other universities / industry / institute | Nil |



29. Awards / recognitions received at the national and international level :

e. Faculty :

| Name of the faculty | Details |
|---------------------|--|
| Girish Kumar R | 1. Jean Monnet Fellowship, European University, Florence, Italy 2010 (International Level) 2. Ministry of Trade and Commerce, WTO Chair Professor, Central University of Kerala(National Level) |

- Doctoral / post-doctoral fellows: Nil
- Student : Nil

30. Seminars/ Conferences/Workshops organized and the source of funding (national/ international) with details of outstanding participants, if any.

| Year | Seminars/ Conferences/ Workshops | Source of funding | outstanding participants |
|------|----------------------------------|------------------------------------|--|
| 2016 | Kerala Development Oxymora | ICSSR & Mahatma Gandhi University | CP Chandrasekhar MA Oommen Rajasekharan Nayar D Manoj Manju Nair |
| 2016 | Goods and Service Tax (GST) | Institute of Parliamentary Studies | R Mohan Anish Rajan CP Chandrasekhar |

31. Code of ethics for research followed by the departments :

The Centre at present is not conducting any research programmes. Nevertheless, the institutional etiquettes developed by the Faculty of Social Science/ Mahatma Gandhi University is applicable to all the research/academic activities of the University.

32. Student profile programme-wise:

| Name of the Programme (refer to question no. 4) | Applications received | Selected | | Pass percentage | |
|--|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| MA | 180 | 5 | 7 | 100% | 100% |

33. Diversity of students:

| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students From universities outside the State | % of students from other countries |
|--|--|--|---|------------------------------------|
| MA | 42 | 50 | | 8 |

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

1. SET/SLET : Nil
2. NET : 4

35. Student progression:

| Student progression | Percentage against enrolled |
|---|-----------------------------|
| UG to PG | Nil |
| PG to M.Phil. | 25% |
| PG to Ph.D. | 5% |
| Ph.D. to Post-Doctoral | Nil |
| Employed | |
| <ul style="list-style-type: none"> • Campus selection | |
| <ul style="list-style-type: none"> • Other than campus recruitment | 50% |
| Entrepreneurs | 2% |

36. Diversity of staff:

| Percentage of faculty who are graduates | |
|--|-----|
| of the same university | 25% |
| from other universities within the State | 75% |
| from universities from other States | Nil |
| from universities outside the country | Nil |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: Nil



38. Present details of departmental infrastructural facilities with regard to

- a) Library : Yes Number of Books : 1146
- b) Internet facilities for staff and students : Yes
- c) Total number of class rooms : 2
- d) Class rooms with ICT facility :1
- e) Students' laboratories : Nil
- f) Research laboratories : Nil

39. List of doctoral, post-doctoral students and Research Associates

- a) From the host institution/university : Nil
- b) From other institutions/universities : Nil

40. Number of post graduate students getting financial assistance from the university:

- e-grantz for 18 students

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology:

- a) Yes. Before starting the MA programme in Economics, a need assessment was made. The emphasis is to combine the domain knowledge in Economics and Public Policy, with special reference to Centre State relations and Fiscal federalism.
- b) The Centre also started a short training Programme on Legislation in collaboration with Gulati Institute of Finance and Taxation (GIFT), Trivandrum to impart training on Government Budget.

42. Does the department obtain feedback from

| | |
|---|--|
| a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? | Yes. The centre makes strenuous efforts to improve the quality of teaching by using the latest electronic gadgets. |
| b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? | Yes. Based on student feedback the faculty council offers courses that is much required. |
| c) Alumni and employers on the programmes offered and how does the department utilize the feedback? | The centre conducts alumni meeting annually and attempts to make to see constructive feedback to implemented |

43. List the distinguished alumni of the department (maximum 10)

| Sl No. | Name | Current Position |
|--------|------------------|---|
| 1. | AnsiyaRahiman | Assistant Professor |
| 2. | Adhila | Assistant Professor |
| 3. | Gireesh K Hari | Assistant Professor Govt. Arts College, Kattappana (contract) |
| 4. | Arun B | Railway |
| 5. | Binu V Varghese: | KSRTC |

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:

| Year | Name of the programme | Details (date) |
|------|---|------------------------------|
| 2014 | Manufacturing Sector in India – Challenges and opportunities | Speaker Dr.Jayan Jose Thomas |
| 2015 | Malnutrition among the Tribal Children : Myths and Reality | Speaker Manikandan A.D |
| 2015 | Overview of Forex Business in Commercial Banks in India | Speaker Mr. Pancha Devi Negi |
| 2016 | Indian Immigrants in the UK: Socio-Economic Implications of International Movements | Speaker Prof.Atreyi Majumdar |
| 2016 | Budget Accounting | Prof. D Narayana |

45. List the teaching methods adopted by the faculty for different programmes:

Power point presentations, Problem solving session, interactive sessions. Our class room is equipped with video conferencing facility and modern electronic gadgets that aid teaching.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored :

Assessment through internal test and seminars and assignments

47. Highlight the participation of students and faculty in extension activities:

- Two students participated in the workshop in Intellectual Property Rights at ISID, New Delhi.
- One student participated in the National Seminar on The New Rural Paradigm: Policies And Governance, National Institute of Rural Development & Panchayati Raj, Hyderabad.
- Eleven students presented papers in the National Seminar on Kerala Development Oxymora.
- Twelve students participated in the International seminar on ‘Globalisation and India’s Innovation Systems: Towards Creative Destruction



- All the students and faculty members volunteered in different capacities in the start-up exhibition project conducted by Business Innovation and Incubation Centre (BIIC), Mahatma Gandhi University.

48. Give details of “beyond syllabus scholarly activities” of the department:

- Students participate in programmes conducted by other institutions, participate in competitive cultural programs conducted by the University.
- All the faculty/students of KNRaj Centre in different capacities volunteered to conduct the student Business Innovation and Incubation Centre’s start-up exhibition programme

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details:

Different University bodies at different levels ensure quality.

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:

The centre proposal to establish Business Incubation and Innovation centre (BIIC) was accepted by Government of Kerala. The Centre facilitated the University teaching and research departments to formally engage with industry at various levels through its student start-up exhibition. Accordingly, the industrialists were invited as experts to evaluate the student start-up projects, encouraging university industry linkage.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strengths

- Capacity to win external funds (seminars, symposium) through external funding.
- Potential to raise money from external funding agencies through submission of socially relevant themes
- Potential to emerge as a research centre.

Weakness

- The centre is not having M.Phil and Ph.D Programmes, which thwart its emergence as a research centre.

Opportunities

- As the Department of Economics, the centre and its academic community have opportunities galore. Students passed out from the Centre are either employed or pursuing higher education.

Challenges

- The Centre is at its incipient stage. Creation of regular positions is still pending with the government.

52. Future plans of the department:

1. Resetting the centre in the new “Convergence Academy Complex”.
2. Initiating new emerging research areas.
3. Initiating M.Phil/ PhD programmes and MOOC course on Innovation.
4. Conducting short-term courses on Centre-state financial relations and Budgeting in association with Gulati Institute of Finance and Taxation (GIFT), Trivandrum; conducting short-term course on Industrial Development, R & D, and IPR in association with ISID, New Delhi.



NATIONAL INSTITUTE OF PLANT SCIENCE TECHNOLOGY

| | | | |
|-----|---|---|--|
| 1. | Name of the Department | : | National Institute of Plant Science Technology |
| 2. | Year of establishment | : | 2014 |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, Faculty of Science |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | Integrated M. Sc. Ph.D. programme. |
| 5. | Interdisciplinary programmes and departments involved | | School of Biosciences, Inter University Centre for Organic Farming and Sustainable Agriculture. Students are taking Open Courses from other Departments like Nanoscience, Environmental science, Physics etc |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | | NIL |
| 7. | Details of programmes discontinued, if any, with reasons | | NIL |
| 8. | Examination System | | Semester (Credit and semester System) |
| 9. | Participation of the department in the courses offered by other departments | | Nil |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/ Associate Professors/ Asst. Professors/ others) | | Nil |

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./ M.Phil. students guided for the last 4 years |
|---------------|---------------|---------------------------|----------------|----------------------------|--|
| Dr.Jisha M.S. | Ph. D. | Professor and Coordinator | Microbiology | 16 | Ph.D.- 9 M.Phil. -5 |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

| |
|---|
| • Dr. J. G. Ray, Professor, School of Biosciences, M.G. University, Kottayam. |
| • Dr.Valsalakumar. N, Retd. HOD Dept. Of Botany Govt. College, Nattakom |
| • Shri.Rajagopal.R, Retd. Associate professor, Department of Botany, SN College Kollam |
| • Shri.George Mathew Murikken, Retd. Associate Professor, Department of Botany, Devamatha College, Kuravilangad |
| • Dr.Marykutty Abraham, Retd. Associate professor, Department of Botany, St.Joseph College, Alappuzha |
| • Prof.C.GVargese, Retd. Associate professor, Department of Botany, St. Thomas College, Kozenchery |
| • Dr.K.Mary Varghese, Retd. Associate professor, Department of Botany, St. Thomas College, Kozenchery |
| • Dr.Domanic V.J, Retd. Associate professor, Department of Botany, S.H.Thevara |
| • Dr. Amith Abraham, Research Associate, Rubber Research Institute of India (RRII), Kottayam |
| • Dr.AjuK .Ashok, Research Associate, CTCRI, Thiruvananthapuram |
| • Dr.Sharrel Rebello, Research Associate, Unibiosis, Cochin |
| • Dr. Joy P Joseph, Rtd. Professor, Sacred Heart College, Thevara, Cochi |

13. Percentage of classes taken by temporary faculty – 90%

14. Programme-wise Student Teacher Ratio: M. Sc 2:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual: Technical Staff : 01, Administrative Staff : 01



16. Research thrust areas as recognized by major funding agencies

- Organic farming
- Algal technology
- Industrially important biocatalysts.
- Bio-fertilizers
- Bio-pesticides
- Phytochemistry and pharmacognosy
- Eco-technologies such as phytoremediation
- Bioremediation
- Biofuel
- Nutraceuticals
- Phytosynthesis of nanoparticles
- Technology for conservation of bio-resources and seed-technology

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

One (Coordinator Dr.Jisha M.S)

National:

| Sl. No | Project Title | Period | Funding agencies | Total Fund (₹) |
|--------|---|-----------|------------------|----------------|
| 1. | Bioremediation of Chlorpyrifos by autochthonous microbial consortia | 2016-2019 | KSCSTE | 25 Lakhs |

Total grants received: ₹ 25 lakhs

18. Inter-institutional collaborative projects and associated grants received: Nil

- a) National collaboration
- b) International collaboration

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received. : Nil

20. Research facility / centre with: Nil

- State recognition --Ten students completed their M.Sc research projects. At present 12 students from affiliated colleges are doing their dissertation works
- national recognition
- international recognition

21. Special research laboratories sponsored by / created by industry or corporate bodies: Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 29 |
| 2. | Monographs | - |
| 3. | Conference Proceedings | 23 |
| 4. | Chapters in Books | 2 |
| 5. | Edited Books | 1 |
| 6. | Books authored with ISBN | 1 |
| 7. | Books authored without ISBN | - |
| 8. | Articles in popular publications | - |
| 9. | Total | 56 |

23. Details of patents and income generated: Nil

24. Areas of consultancy and income generated: Nil

25. Faculty selected nationally / internationally to visit other laboratories / institutions /industries in India and abroad:

1. Invited participation with free registration at the 4th International Conference on Nanotechnology and Basic Science (ICN2016), 4-5 February 2016, Dubai. Emirates

26. Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any other (please specify)

Dr. Jisha. M.S. (Coordinator)

1. Chaired one session at the 4th International Conference on Nanotechnology and Basic Science (ICN2016), 4-5 February 2016, Dubai. Emirates
2. Invited participation with free registration at the 4th International Conference on Nanotechnology and Basic Science (ICN2016), 4-5 February 2016, Dubai. Emirates
3. Participated the International Conference On Advances in Applied Science and Environmental Engineering - ASEE 2014, Institute of Research Engineers and Doctors (IRED), at Kuala Lumpur, Malaysia



27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).NA

1. Conducted advanced Training on Hazard Analysis and Critical Control Points (HACCP Level III)with international certificate
2. National Seminar on “Plant Science Technology for Sustainable World” sponsored by KSCSTE and M.G.University.

28. Student projects

- Percentage of students who have done in-house projects including inter-departmental projects 100%
- percentage of students doing projects in collaboration with other universities / industry / institute Nil

29. Awards / recognitions received at the national and international level by

- **Alan Thomas S** received **Best paper presentation** award at International seminar on emerging trends in organic farming and sustainable agriculture held at Kottayam during 29th to 31st December 2016
- **Anto Joseph** got **Best paper presentation** award at The National Seminar on Plant science Technology for sustainable world held at Kottayam during February 25th -26th 2016
- **Anto Joseph** got UGC NET

30. Seminars/ Conferences/Workshops organized and the source of funding (national /international) with details of outstanding participants, if any.

| Seminars/ Conferences/ Workshops organized | Source of funding | National / International | outstanding participant |
|---|--------------------------|--------------------------|---|
| Advanced Training On Hazard Analysis and Critical Control Points (HACCP Level III)with international certificate . 9-13 December, 2015 | Registration Fee | National | Dr Shaji Philip, Scientist, Rubber Research Institute of India |
| National Seminar on “Plant Science Technology for Sustainable World” Feb25-26. 2016 | M.G. University & KSCSTE | National | Dr. Krishnaraj, P.U., Professor & Head, Dept. of biotechnology, University of Agricultural Sciences, Dharwad, Hubli |

31. **Code of ethics for research followed by the departments:** It's mandatory for all master and PhD students to strictly adhere to plagiarism before submitting any manuscript to a journal

32. **Student profile programme-wise:**

| Name of the Programme (refer to question no. 4) | Applications received | Selected | | Pass percentage | |
|--|-----------------------|----------|--------|-----------------|--------|
| | | Male | Female | Male | Female |
| Integrated M.Sc. Ph.D. | 210 | 3 | 7 | 100 | 100 |

33. **Diversity of students**

| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|--|--|--|---|------------------------------------|
| Integrated M.Sc. Ph.D. | 66.6% | 33.3% | Nil | Nil |

34. **How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.**

GATE- one
NET-one

35. **Student progression: Nil**

| Student Progression | % against enrolled |
|---------------------------------|--------------------|
| UG to PG | Nil |
| PG to M.Phil | Nil |
| PG to Ph.D | Nil |
| Ph.D to Post Doctoral | Nil |
| Employed by Campus Selection | Nil |
| • Other than Campus recruitment | Nil |
| • Entrepreneurs | |



36. Diversity of staff

| Percentage of faculty who are graduates | |
|--|------|
| of the same university | 100% |
| From other universities within the State | |
| From universities from other States | |
| From universities outside the country | |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period - Nil

38. Present details of departmental infrastructural facilities with regard to

- a) Library -Yes
- b) Internet facilities for staff and students -Yes
- c) Total number of class rooms - One
- d) Class rooms with ICT facility -Yes
- e) Students' laboratories - Yes
- f) Research laboratories – Yes

39. List of doctoral, post-doctoral students and Research Associates: Nil

- a) from the host institution/university
- b) from other institutions/universities

40. Number of post graduate students getting financial assistance from the university. Nine

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

The feedback given by students and stake holders are the basic matrix for identifying the new programme and it will be discussed in the executive committee of NIPST. The final draft will be submitted to university for approval

42. Does the department obtain feedback from

- a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

The curriculum as well as departmental activities is under constant monitoring of a Core Committee and an Executive council.

- b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? Student feedback forms will collect occasionally and modifications will be done accordingly
- c) Alumni and employers on the programmes offered and how does the department utilize the feedback? The centre started only during 2014-15

- 43. List the distinguished alumni of the department (maximum 10) :** Nil
- 44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.**
- ✓ Erudite lecture by Dr. Krishnaswami, A., IIM Kozhikode
 - ✓ Dr Shaji Philip, Scientist, Rubber Research Institute of India took classes for Advanced Training On Hazard Analysis and Critical Control Points (HACCP Level III) with international certificate during 9-13 december.2015
 - ✓ Dr. Krishnaraj, P.U., Professor & Head, Dept. of biotechnology, University of Agricultural Sciences, Dharwad, Hubli gave keynote address during the National Seminar on “Plant Science Technology for Sustainable World “during 25-26 Feb,2016
 - ✓ Dr.muhammad Hatha, Professor, Cochin university of science and technology; Dr.james,Professor,Amal Jyothi college of Engineering;Dr.George Thomas.Dean,Kerala Agriculture University handled classes on Workshop on Creative writing for tapping funding resources and effective publication during 27-28 Feb 2017
 - ✓ Conducting classes of academic experts like Range Officer, Vallakkadavu Jayachandran; Deputy Director Periyar Tiger Reserve Dr.Radhakrishnan
- 45. List the teaching methods adopted by the faculty for different programmes.**
- Theory classes, smart classes, Demonstration, Field visits, Industrial visit, study tour, Lab to Land Programme , conducting classes of academic experts
- 46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?**
- Internal assessment will be done. Internal marks are giving based on assignment, seminar and class tests.
- 47. Highlight the participation of students and faculty in extension activities.**
- Exploration of flora
 - Plant Identification services
 - Conduct field survey of plant diversity
 - Practicing organic agriculture strategies to farmers
 - Conduct awareness classes on sustainable agricultural practices
 - Charitable activities
- 48. Give details of “beyond syllabus scholarly activities” of the department.**
- Nature club
 - Journal club
 - Lab to Land Programme
 - Industrial/field visit
 - Study tour



- Eco tourism
- Associated with the Organic farming venture of M.G. University
- Conduct awareness classes on sustainable agricultural practices
- Conducting workshops and seminars
- Charitable activities
- Erudite Programme

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. : Nil

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

- ✓ The publications (64) and seminar presentations (60) made by the coordinator stand testimony to the new knowledge developed in the centre
- ✓ Expected to lead to high quality research output in the form of quality publications and patents in Plant Science as well as to promote entrepreneurship in plant-based eco-technologies.
- ✓ Developing plant herbarium
- ✓ Developing culture bank of plant growth promoting microbial isolates
- ✓ Developing micropropagation methodologies for economically important plants
- ✓ Developing molecular markers for traditionally important plants
- ✓ Developing secondary metabolite production strategies from plant cell culture
- ✓ Associated with the Organic farming venture of M.G. University.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

Strength

- Qualified students
- Resource persons from multidisciplinary area
- Can link science and Technology

Weakness

- Lack of Infrastructure
- Lack of initial funds for beginning research activities
- Lack of regular faculties

Opportunities

- Immense plant wealth & plant diversity in the region
- Increasing demand of plant based technologies
- Promotion of eco-friendly practices and green industries by government/society

Challenge

- Permanent research guides
- Difficult to arrange placement
- Time delays

52. Future plans of the department

- Introducing M.Phil. Botany in the next academic year.
- Introducing Advanced Diploma in Food Quality and Safety management.
- Developing plant herbarium.
- Developing culture bank of plant growth promoting microbial isolates.
- Developing micro propagation methodologies for economically important plants.
- Developing molecular markers for traditionally important plants.
- Developing secondary metabolite production strategies from plant cell culture



**UNIVERSITY CENTRE FOR INTERNATIONAL CO-OPERATION
(UCIC)**

| | | | | | |
|---|--|----------------------|---|--------|-----------------------------|
| 1. | Name of the Department | : | University Centre for International Co-operation(UCIC) | | |
| 2. | Year of establishment | : | 2010 | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | No, Inter School Centre | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | No Regular Programmes | | |
| 5. | Interdisciplinary programmes and departments involved | : | Acting as a coordinating Centre for admission and academic related activities of international students in various schools/ departments/ centers for which it interacts with different departments. | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | Collaborated with the following institutes during 2011-13. Institute of Political Studies (IEP) Rennes, France IEP of Bordeaux, Sciences PO, Bordeaux, France | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | No | | |
| 8. | Examination System | : | No such system since the centre is not having regular courses | | |
| 9. | Participation of the department in the courses offered by other departments | : | The international students can opt for open courses conducted by other departments | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/ Associate Professors/ Asst. Professors/ others) | | Sanctioned | Filled | Actual(including CAS & MPS) |
| | | Professor | | | |
| | | Associate Professors | | | |
| | | Asst. Professors | | | |
| | | Others | | | |
| There is one Honorary Director , an Honorary Joint Director, and 3 casual employees | | | | | |



11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./M.Phil. / M.Phil students guided for the last 6 years |
|--------------------|----------------------------------|---------------------|--|----------------------------|--|
| Dr.Sajimon Abraham | M.C.A, M.Sc(Maths), M.B.A, Ph.D. | Assistant Professor | Computer Applications and Information Technology | 26 | 6 |
| Dr. C Vinodan | M.A, Ph.D | Assistant Professor | International Relations | 17 | 15 |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:

Prof.Jia Haitao, Director, Institute for Chindian Studies, Jinan University

Prof. David G. Baker, Fulbright Senior Specialist, USA

13. Percentage of classes taken by temporary faculty – programme-wise information:
Nil

14. Programme-wise Student Teacher Ratio: NA

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual :

| | Sanctioned | Filled and actual |
|----------------------|------------|-------------------|
| Technical | 0 | 0 |
| Administrative Staff | 0 | 3 |

16. Research thrust areas as recognized by major funding agencies:

- India Study Programme
- Semester Abroad Programme
- International Faculty Interaction through Summer Schools and FDP
- MOU & International Institution Membership



17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise:

- Dr.Sajimon Abraham, completed the UGC sponsored Minor Research Project titled “ Moving Object Data Base implementation on Security Informatics , worth Rs 1lakh in July 2011

18. Inter-institutional collaborative projects and associated grants received:

- Collaboration with School of International Relations and Politics, School of Computer Sciences and K.N Raj Centre for Seminar and Conference co-ordination
- Association with Federation of Indian Commerce & Industries for implementing National Knowledge Network.

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received :

- UCIC received a financial award of Rs. 10 Lakhs from Higher Education Council, Government of Kerala for promoting India Study Programme during 2014-15
- UCIC received the grant of Rs. 25 lakhs from state government for various activities of the centre during 2015-16.

20. Research facility / centre: Nil

- state recognition
- national recognition
- international recognition

21. Special research laboratories sponsored by / created by industry or corporate bodies: Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-----------|
| 1. | Refereed Journal Publications | 11 |
| 2. | Monographs | 1 |
| 3. | Conference Proceedings | 5 |
| 4. | Chapters in Books | 5 |
| 5. | Edited Books | 2 |
| 6. | Books authored with ISBN | 0 |
| 7. | Books authored without ISBN | 0 |
| 8. | Articles in popular publications | 0 |
| | Total | 24 |



23. **Details of patents and income generated:** Nil

24. **Areas of consultancy and income generated:** Nil

25. **Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad :**

- Honorary Director of the UCIC visited Jinan University as well as Catholic University of Korea (CUK) during October-November 2011.
- Honorary Director UCIC jointly with Dr. K.M Seethi, Dean, Faculty of Social Sciences, Mahatma Gandhi University participated in the International Conference on Buddhism and World Culture organized by Jinan University, China as well as in a One Day Colloquium on the theme India and South Korea.

26. **Faculty serving in**

a) **National and International committees**

- The Director, UCIC is a member of National Knowledge Network of FICCI, for promoting internationalization of Education.
- Dr.Sajimon Abraham, is Technical Programme Committee member of International Conference on Data Base System to be held at Geneva in December 2017.
- The Joint Director, UCIC is a member of Global Academia group, a faculty forum for the promotion the inward movement of International students in Kerala.
- Joint Director is serving as a member of International academia member
- Dr.Sajimon Abraham became the Member Board of studies in Computer Applications (P.G), M.G University in February 2015.
- Dr.Sajimon Abraham become the Member Board of studies in Management(P.G) Kannur University with effect from December 2015 for a period of 3 years.
- Dr.Sajimon Abraham assisted in the Committee on API Score evaluation for the Promotion of teachers in making API format and instructions according to UGC guidelines.
- Dr.Sajimon Abraham took initiative taken to setup smart class room with Virtual Learning facility at SMBS
- Dr.Sajimon Abraham has co-ordinated add-on programme titled “ Short term course on Business Data Analysis using Tally & Excel” for final Year MBA students as part of Additional Skill Acquisition to make the students employable (December 2015 – March 2016).
- Dr.Sajimon Abraham became Member – e-learning Technical Committee, Co-ordinator of University Alumni Activities.



- Dr.Sajimon Abraham became Member of Executive Committee of Inter University Centre for Chinese Studies, M.G University
- 27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs)**
- UCIC is organizing orientation programmes for newly joined International Students to familiarize them the culture and academic system.
 - Participated in 3 workshops in connection with e-governance of M.G University
 - Co-ordinated the Placement Drive conducted at SMBS on 14th September 2014 for MBA students.
 - Co-ordinated the NAAC pre-presentation programme of the department before the IQAC committee of M.G University.
- 28. Student projects: Nil**
- percentage of students who have done in-house projects including inter-departmental projects
 - percentage of students doing projects in collaboration with other universities/ industry / institute
- 29. Awards / recognitions received at the national and international level:**
- Faculty : Nil
 - Doctoral / Post-doctoral fellows
 - Students : Ph.D Awarded to Mr. El. Hadji Mamour Sakho
- 30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any:**
- Hosted Prof. Jia Haitao, Director, Institute for Chindian Studies, Jinan University, Guangzhou, China as the KSHEC sponsored Erudite Scholar-in-Residence during January 2011.
 - Hosted invited Special Lecture by Ambassador Vinod C. Khanna on the theme *Rise of China: Implications for the Rest of the World* jointly with the Public Diplomacy Division of Ministry of External Affairs (MEA), New Delhi.
 - The School of International Relations and Politics jointly with the UCIC organized a One Day Symposium on the theme *China and the Emerging World Order: Is Peaceful Rise Possible?* on 23 December 2011.
 - UCIC hosted the Erudite Scholar-in-Residence Programme of Prof. Jane Knight during December 2011 – February 2012.
 - UCIC hosted the Fulbright Senior Specialist Programme of Prof. David G. Baker, Fulbright Senior Specialist, USA jointly with the School of International Relations and Politics, June 2011.

- Honorary Director of the UCIC visited Jinan University as well as Catholic University of Korea (CUK) during October-November 2011.
- Honorary Director UCIC jointly with Dr. K.M Seethi, Dean, Faculty of Social Sciences, Mahatma Gandhi University participated in the International Conference on Buddhism and World Culture organized by Jinan University, China as well as in a One Day Colloquium on the theme India and South Korea, February 2012.
- Co-ordinated the international conference on “Understanding India” held during April 2015 along with “Rajiv Gandhi Chair” and Center for China Studies.

31. Code of ethics for research followed by the departments:

The International students who join for research in humanities and Social Sciences has to take an authorisation on the privacy of the research data they are collecting related to their study. Also they have to use licensed software. The center follows strict control over plagiarism related issues along with other schools/centers of the University.

32. Student profile programme-wise:

Forty Eight International Students has been admitted to various Schools of the University/ Affiliated Colleges during 2010-15 under ICCR sponsored scheme/direct candidate.

| List of Foreign Students Admitted to Mahatma Gandhi University Teaching Departments/Affiliated Colleges through the ICCR Sponsored Cultural Exchange Schemes/Direct Candidates from 2010-2015 | | | | |
|--|----------------------------|----------------|---|------------------------|
| 2010-2011 | | | | |
| Sl. No. | Name of the Student | Country | Course and Scheme | College/ School |
| 1. | Ms.Louise Pageot | France | M.A Politics and International Relations (MoU) | SIRP, MG University |
| 2. | Ms.Marie Houdin | France | M.A Politics and International Relations (MoU) | SIRP, MG University |
| 3. | Ms.Pauline Calvez | France | M.A Politics and International Relations (MoU) | SIRP, MG University |
| 4. | Mr.Antoine De Seigneurens | France | M.A Politics and International Relations (MoU) | SIRP, MG University |
| 5. | Mr.VincentSacau | France | M.A Politics and International Relations (MoU) | SIRP, MG University |
| 6. | Ms.GaoWenjing | China | M.A Politics and International Relations (Exchange) | SIRP, MG University |
| 7. | Mr.Tran Minh Nhan | Vietnam | M.A Politics and International Relations (ICCR/CE) | SIRP, MG University |
| 8. | Ms.Elif Bali | Turkey | M.Phil Politics and International Relations (ICCR/CE) | SIRP, MG University |
| 9. | Mr.Tito R Mhagama | Tanzania | MBA (ICCR/CE) | SMBS, MG University |



2011-2012

| 1 | Name of the Student | Country | Course and Scheme | College/School |
|----------|----------------------------|----------------|--|---|
| 1 | Ms.Oceng Frede Amito | Uganda | M.Sc Food Service Management (ICCR/CE) | Assumption College, Changanacherry |
| 2 | Ms.Lwamusai Marsha | Uganda | MBA (ICCR/CE) | Girideepam Institute of Advanced Learning, Kottayam |
| 3 | Mr.Kamya Joseph | Uganda | B.Com (ICCR/CE) | FCMS, Chry |
| 4 | Ms.GaoWenjing | China | M.A Politics and International Relations (MoU) | SIRP, MG University |
| 5 | Mr.Tran Minh Nhan | Vietnam | M.A Politics and International Relations (MoU) | SIRP, MG University |
| 6 | Mr.MwanjeSsenono Aloysius | Uganda | M.Sc. (IT) (ICCR/CE) | UCAS, Pathanamthitta |
| 7 | Ms.Hanna Barbara Urbanska | Poland | PDF (ICCR/CE) | School of Letters , MG University |
| 8 | Ms.MalletOriane | France | M.A Politics and International Relations (MoU) | SIRP, MG University |
| 9 | Ms.Caillon Marine | France | M.A Politics and International Relations (MoU) | SIRP, MG University |

2012-2013

| Sl. No. | Name of the Student | Country | Course and scheme | College/School |
|----------------|----------------------------|----------------|---|-----------------------|
| 1 | Mr. El. Hadji Mamour Sakho | Senegal | Ph.D. (ICCR/ ASS) | SPAP , MG University |
| 2 | Mr.MwanjeSsenono Aloysius | Uganda | M.Sc. (IT) (ICCR/CE) | UCAS, Pathanamthitta |
| 3 | Mr.ZhussipZhumagaliyev | Kazakhstan | M.A. Politics and International Relations (ICCR/GCSS) | SIRP, MG University |
| 4 | Mr.ImaniraroraLote | Rwanda | Master in Comp.Sc./IT (ICCR/ASS) | SCS, MG University |



| | | | | |
|----|-----------------------------|---------------|--|------------------------|
| 5 | Mr. Sho Tanaka | Japan | M.A. Politics and International Relations (ICCR/CEP) | SIRP, MG University |
| 6 | Ms. Céline Di Mantova | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |
| 7 | Ms. Alma Laplace | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |
| 8 | Ms. Chloé Delpierre | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |
| 9 | Mr. Simon Cannone | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |
| 10 | Mr. Derouault Jean-Baptiste | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |
| 11 | Ms. Jessica K. Haven | United States | M.A. (Development Studies) Independent | SGTDS, M.G. University |

2013-2014

| Sl. No. | Name of the Student | Country | Course and scheme | College/School |
|---------|---|-----------|---|------------------------|
| 1 | Mr. Tigran Ghazaryan | Armenia | MBA (GCSS) | Girideepam, Kottayam |
| 2 | Mr. Ravneel Prakash Mani | Fiji | B.Sc. (Comp. Sc.) (GCSS) | UCAS, Pullarikunnu |
| 3 | Mr. Kwasi Mensah Nyarko | Ghana | M.A. Politics and International Relations (ASS) | SIRP, MG University |
| 4 | Ms. Ni Luh Hindy Citra Satyawati Inggas | Indonesia | B.A. Economics (GCSS) | K.E. College, Mannanam |
| 5 | Mr. Adoum Idriss Adoum | Chad | M.A. Politics and International Relations (ASS) | SIRP, MG University |
| 6 | Mr. Joseph Phillip | Tanzania | M.Sc. (Comp. Sc.) (ASS) | SCS, M.G. University |
| 7 | Mr. Lucas Pardal | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |
| 8 | Mr. Hugo Chene | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |
| 9 | Mr. Feyisa Rita Melaku | Ethiopia | Ph.D. in Social Work (ASS) | SGTDS, MG University |



2014-2015

| Sl. No. | Name of the Student | Country | Course and scheme | College/School |
|---------|---------------------------------------|-----------|--|------------------------|
| 1 | Ms. Ni LuhHindy Citra SatyawatiInggas | Indonesia | B.A. Economics (GCSS) | K.E. College, Mannanam |
| 2 | Mr. AdoumIdrissAdoum | Chad | M.A. Politics and International Relations (ASS) | SIRP, MG University |
| 3 | Mr.Corentin Maurice Daniel Mercier | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |
| 4 | Ms.Fanny Jeanette Marie JosepheRagot | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |
| 5 | Ms.Julie Marie Rousseau | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |
| 6 | Mr. Hay Sambo | Cambodia | M.Sc. (Comp. Sc.) (Mekon Ganga Scholarship Scheme) | SCS, M.G. University |
| 7 | Mr. You Vanndy | Cambodia | M.Sc. (Comp. Sc.) (Mekon Ganga Scholarship Scheme) | SCS, M.G. University |
| 8 | Ms. Ellen TwamangulukaNghikembua | Namibia | M.Sc. Psychology (ASS) | SBS, M.G. University |

2015-2016

| Sl. No. | Name of the Student | Country | Course and scheme | College/School |
|---------|-----------------------------|---------|---|---------------------|
| 1 | Ms. Camille Nelly Madeleine | France | M.A. Politics and International Relations (MoU) | SIRP, MG University |



33. Diversity of students

| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|--|--|--|---|------------------------------------|
| No Regular programme- | - | - | - | 100 |

34. How many students have cleared Civil Services and Defense Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise : NA

35. Student progression : N.A

36. Diversity of staff:

| Percentage of faculty who are graduates | |
|--|-----|
| Of the same university | 50% |
| From other universities within the state | 50% |
| From universities from other State | Nil |
| From Universities outside the country | Nil |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: N.A

38. Present details of departmental infrastructural facilities with regard to

- Library : Nil
- Internet facilities for staff and students : Common Least line Fibre Optics Cable Connection available
- Total number of class rooms : Nil
- Class rooms with ICT facility : Nil
- Students' laboratories : Nil
- Research laboratories : Nil



39. List of doctoral, post-doctoral students and Research Associates

- a) from the host institution/university : 2
- b) from other institutions/universities : Nil

40. Number of post graduate students getting financial assistance from the university : 1

Under semester abroad programme, UCIC could provide financial assistance to meet the travel expenditure of Miss. Chithira V Kartha, a P.G students of IIUCNN for doing M.Sc project at Max Plank Institute, Germany.

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology :

The centre is collecting the academic performance of the students every six months from the respective departments in addition to the statutory requirements from ICCR office, Trivandrum. The response regarding the courses and programmes are generally used for suggesting change requirements in the existing programmes as well as identifying new programmes to be offered in various departments.

42. Does the department obtain feedback from

- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

UCIC is collecting the feedback of student academic performance from the respective school/department. This feedback is used for guiding the students and also to inform the department some measures to be taken for strengthening the academic programme.

- b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

The Centre has collected feedback about the institution they have studied, hostel accommodation, university system etc. from international students who returned after their studies.

- c. Alumni and employers on the programmes offered and how does the department utilize the feedback?

The passed out international students who are now in their own country or some other country are taking part in the alumni feedback through e-mail. Based on their response some measures are taken in the international students admission process as well as giving recommendations to Schools providing valuable inputs to include some international academic requirement in the curriculum.

43. List the distinguished alumni of the department (maximum 10):

The international students who return back to their country are either continue their studies in some other country or finding jobs in or outside their country. Some of the distinguished alumni's to be highlighted in this context are

| | | | |
|----------------------------|----------|---------------------|--|
| Mr. El. Hadji Mamour Sakho | Senegal | Ph.D. (ICCR/ASS) | Doing Post-Doctoral Studies in South African University |
| Mr. Tito R Mhagama | Tanzania | MBA (ICCR/CE) | Holding Administrator Post in Insurance Division, Tanzania |

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:

- The Programmes and activities of the UCIC were inaugurated during December 2010, with an International Conference commemorating the Hiroshima Peace Day. A Japanese delegation led by Hiroshima Legend Mr. Takashi Teramoto visited the university on the occasion and an Exhibition on the Hiroshima tragedy as well as the One Day Symposium was organized during 11-12 August 2010.
- Hosted invited Special Lecture by Ambassador Vinod C. Khanna on the theme *Rise of China: Implications for the Rest of the World* jointly with the Public Diplomacy Division of Ministry of External Affairs (MEA), New Delhi during 2011.
- The School of International Relations and Politics jointly with the UCIC organized a One Day Symposium on the theme *China and the Emerging World Order: Is Peaceful Rise Possible?* on 23 December 2011.
- UCIC hosted the Erudite Scholar-in-Residence Programme of Prof. Jane Knight during December 2011 – February 2012.
- UCIC hosted the Fulbright Senior Specialist Programme of Prof. David G. Baker, Fulbright Senior Specialist, USA jointly with the School of International Relations and Politics during 2012.
- Dr. Raju K. Thadikkaran, Honorary Director of the UCIC visited Jinan University as well as Catholic University of Korea (CUK) during October-November 2011.
- UCIC officials and foreign students studying in MGU participated in the International Students Meet jointly organized by the KSHEC and ICCR, New Delhi at Trivandrum during January 2015.
- The University Centre for International Cooperation (UCIC) established the India Study Programme for international students as part of the internalization programme in Mahatma Gandhi University. The India Study programme was supported by the Kerala State Higher Education Council.
- Launched a separate website for international students during 2015
- Published an international brochure for promoting India Study programme during 2015



45. List the teaching methods adopted by the faculty for different programmes:

In addition to usual lecture method the faculty members uses Information Technology tools like power point presentation, website, e-mails, blog, case studies, field visit etc. The proposal for making the e-content for 23 India study programme and offering the short term programme modules will certainly enhance the quality teaching learning process.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored:

Every international students studying in the campus have to compulsorily submit their academic progress every six months through the director of the School/Center. The fulfilments of the academic objectives of the center can be judged with the above process. The executive meetings of the center held once in six months or at any time due to urgency, discuss all such matter and appropriate decision were taken for better planning and control for academic transactions ultimately aiming at effective international co-operation.

47. Highlight the participation of students and faculty in extension activities:

The center encourages the international students to participate in various workshop and seminars held around in connection with internationalization of education, Indian and Kerala cultural highlights.

48. Give details of “beyond syllabus scholarly activities” of the department:

- UCIC initiated various measures so as to ensure reservation of seats for foreign students and research scholars from abroad in all academic departments in the university, constituent colleges, Off-Campus centers as well as affiliated colleges
- UCIC initiated measures whereby Mahatma Gandhi University has streamlined the admission process for foreign students admitted to Mahatma Gandhi University through MoU, ICCR sponsored Cultural Exchange Scheme as well as Exchange Schemes.
- At the UCIC initiative, Mahatma Gandhi University has established International Scholars Hostel (Ladies and Gents) as well as studio apartment accommodation facility for senior foreign scholars. These facilities are being provided in the house leased out for the purpose until permanent facilities shall be made available in the university campus.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details:

The international students studying in various departments are coming under respective regulatory bodies like AICTE, NCTE, ICCR, UGC etc. The University is accredited with NAAC with a grade of B+ and now preparing for re-accreditation with NAAC.

The MBA and MTech programmes are approved by AICTE.

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:

- Initiated steps in making “Regulation for International Students Admission” to smoothen the yearly admission process.
- Short-term Course Modules on India for foreign students – about Indian policy, society, economy, culture, history and philosophy – creation of course documentation started
- International Summer School for young scholars from abroad planning in final stage
- Sanctioned a travel grant of Rs 1 lakh to a student in IUCNS to go to foreign country under semester abroad programme.
- MoU with reputed institutions from abroad.
- International Scholars Hostel (ISH) for boys and girls separately in established and managing by taking private houses on lease agreement.

Publications of Dr.Sajimon Abraham, Honorary Director

- Sajimon Abraham. And SojanLal, P. Spatio-Temporal Similarity of Web User Session Trajectories with Applications to Dark Web Environment. In the Proceedings of IEEE Asia Pacific Workshop on Intelligence and Security Informatics (PAISI 11), Springer-Verlang Series of Lecture notes in Computer Science,(LNCS), ISBN : 978-3-642-22038-8, Vol, 6749 , Beijing , China, 2011,1-10. Won the second best paper award
- Sajimon Abraham and Sojan Lal, P. Spatio-Temporal Queries and Triggers in Moving Object Databases with Advantageous of Dimension Reduction. In the Book on Communication and Computing, School of Computer Sciences, Mahatma Gandhi University, Kottayam, 2011. Won the second best paper award
- Sajimon Abraham. And SojanLal, P. WEBTRACCLUS – A Spatio-Temporal Trajectory Clustering Tool for Personalization in Healthcare Web Portals. In Proceedings of ACM PETRA held at Greece, 2011.
- Sajimon Abraham. And Sojan Lal, P. Trajectory Clustering of Network Constrained Moving Objects and Applications to Web Usage Mining. In the Interdisciplinary journal Accuman published by Marian College, Kuttikkanam, ISBN 0975-6981, 2011.
- Sajimon Abraham, P. Sojan Lal, Dais George , Trajectory Similarity in Spatio-Temporal data bases and applications in Climatologically study, accepted in the Proceedings of 24th Kerala Science Congress, to be held at Rubber Board, Kottayam on 29-31 January 2012.



- Sajimon Abraham, P.SojanLal, *Spatio-Temporal Similarity of Network Constrained Moving object Trajectories using Sequence Alignment of travel locations*. Published in Elsevier Journal of Transportation Network Research, Part C, April 2012.(Impact factor 1.9).
- Mobility Mining Techniques for Big Data Analysis in Supply Chain Traffic” co-authored with Dr. Sajimon Abraham, 3rd IIMA International Conference on Advanced Data Analysis, Business Analytics and Intelligence April 13-14, 2013, IIM Ahmedabad.
- Paper Titled “Optimization techniques in RFID data management in Supply Chain” published in “International Journal of Computer Applications”, Jan 2014.
- Paper titled “Big data analysis using in-memory techniques” published in the proceeding of the National Seminar on Computing and Communications held at Sri Bhudha College, Pattoor, March 2014.
- Sajimon Abrahham, Lumy Joseph, “Role of Cloud Computing in Educational Data Mining” Published in the U.G.C sponsored National Conference Proceedings organized by M.E.S College, Nedumkandam on 15-17 June 2015.

Publications C.Vinodan, Joint Director, UCIC

- Publications C.Vinodan (co-author) (2012): The EU–India Relations: Towards A New Partnership in the Asian Century, *Journal of Asian Politics*, Vol. 11, No. 2.
- C.Vinodan (2012): “Strategic Dimensions of China’s South China Sea Policy: Implications for International Relations, *South Asian Journal of Diplomacy*, Vol. 3, No. 3.
- C.Vinodan (co-author) (2013) Regionalism and Regional Cooperation in International Relations: A Conceptual Analysis, *Online International Interdisciplinary Research Journal*, Volume-III, Issue-VI, Nov-December.
- C.Vinodan (2013): “The Rise of China and the Maritime Dispute in the South China Sea,” *Southeast Asian Journal of Social and Political Issues*, Vol.1, No.3.
- C Vinodan (co-author) (2013): “Energy Security: A Multivariate Analysis of Emerging Trends and Implications for South Asia,” *India Quarterly*, Dec 69: 383-400.
- of Dr. C. Vinoden, Joint Director, UCIC
- C.Vinodan (ed.)(2014), *South Asia in the Globalised World*, New Delhi: New Century Publishers.
- C.Vinodan (2013): “China, US and South China Sea Dispute,” in Mohanan B. Pillai (ed.), *India's National Security: Concerns and Strategies*, New Century Publishers, New Delhi.

- C.Vinodan (2014): “China and the Emerging Global Energy System,” *Journal of International Studies*, Vol.10.
- C.Vinodan (2015): *Energy Security Choices for India*, New Delhi: New Century Publishers.
- C.Vinodan & Rajesh Kuniyil (2015): “Energy Security and Climate Change: Problems and Prospects in India-Australia Relations,” *ISDA Journal*, Vol.10.
- C. Vinodan (2015): Regional Connectivity and Energy Security in South Asia: Challenges and Opportunities, in Mohanan B.Pillai & Alduri Subramanyan Raju (Eds.), *Connectivity and Integration in South Asia*, Kalpaz Publications, New Delhi.
- C. Vinodan (2015): Nuclea South Asia; Strategic and Security Dimensions, in Suresh R (Ed.), *The Changing Dimensions of Security: Indias Security Policy Options*, Vij Books Ind Pvt Ltd, New Delhi. ISBN 978-93-84464-80-6.
- C.Vinodan & Rajesh Kuniyil (2015): “Energy Security and Climate Change: Problems and Prospects in India-Australia Relations,” *ISDA Journal*, Vol.10.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:

Strengths

- M.G University’s strategic location in the most attractive tourist receiving state of Kerala is a major attraction for international students.
- The University which is named after the father of the nation “Mahatma Gandhi” prompt many international students to join Mahatma Gandhi University.
- The University is having a mix of diverse departments/schools where plenty of choices for learning.
- The faculty members have excellent expertise to undertake challenging problems.
- The cost effectiveness of education in the university is a major attraction for international students from developing countries.

Weakness

- Many administrative formalities sometimes delays the international student admission process.
- Lack of publicity on the admission process in the international media.
- Lack of international student’s hostel in the campus.
- Absence of round the year online admission process.



Opportunities

- Motivation from both central and state govt. to make Kerala as an Educational hub for quality higher education at reasonable cost.
- Kerala - a prominent international tourist destination

Challenges

- Certificate eligibility related issues – delay in recognition process prevents smooth inward mobility.
- Administration and Maintenance of international scholars hostel outside the campus with building on lease agreement
- No separate mechanism like international channel for speedy academic record processing for foreign students.

52. Future plans of the Centre

- Targeting enrollment of at least 100 international students every year by 2020.
- To organize a series of special talk and interaction on “Research and Career Opportunities in countries like Germany, USA, Australia” during 2017.
- Initiate steps for the Construction of International Hostel in the campus.
- Possibility of a new Office space with a modern front office.
- To organize an International Conference on “Celebrating cultural diversity through education and Technology” during July 2017.
- To organize Second International Students meet during December 2017 under Extension Programme.
- To start India Study Programme in 23 modules through e-learning.
- To conduct of International Faculty Development Programme during December 2017.
- To start MOOC course on “Understanding India” under India Study Programme.
- Preparation of Guidelines for Semester Abroad Programme.
- Website updation with on-line course joining and fee payment facilities.



UNIVERSITY COLLEGE OF ENGINEERING, THODUPUZHA

| | | | | | |
|-----|--|---|---|------------|--------|
| 1. | Name of the Department | : | University College of Engineering, Thodupuzha | | |
| 2. | Year of establishment | : | 1996 | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, Faculty of Engineering and Technology | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | B. Tech., M. Tech., Ph. D. | | |
| 5. | Interdisciplinary programmes and departments involved | : | Nil | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | Nil | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil | | |
| 8. | Examination System | : | Semester | | |
| 9. | Participation of the department in the courses offered by other departments | : | No courses are being offered by the UCET in other departments. However, faculty members in UCET teach courses for various B. Tech. programmes conducted at the college. | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | | | Sanctioned | Filled |
| | | | | 1 | 1 |
| | | | | 0 | 0 |
| | | | | 0 | 0 |
| | | | | 7 | 7 |
| | | | | 1 | 1 |
| | | | | | 48 |
| | | | | | 5 |



11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D. Students guided for the last 6 years |
|-------------------------|------------------|-------------------------|--------------------------------|----------------------------|---|
| Dr.P.N. Joshi | M. Tech Ph. D | Principal | Mechanical Engineering | 38 | |
| Ravikumar B. | M. Tech | Asst. Professor (Adhoc) | Computer & Information Science | 19 | |
| Bindu Baby Thomas | M. Tech | Asst. Professor (Adhoc) | Software Engineering | 19 | |
| Anu Augustine | M. E | Lecturer (Contract) | Computer Science | 8 | |
| Jithy P. K. | M. Tech | Lecturer (Contract) | Computer Science | 2 | |
| Bichu Vijayan | M. Tech | Lecturer (Contract) | Computer Science | 1 | |
| Anjali Elizabeth Joseph | M. Tech | Lecturer (Contract) | Computer Science | 1 | |
| Sajith K. | M. Tech | Lecturer (Contract) | Computer Science | 1 | |
| Jincy Annie V. V. | M. Tech | Lecturer (Contract) | Computer Science | 1 | |
| Lini Abraham | M. Tech | Lecturer (Contract) | Computer Science | 2.5 | |
| Reghunath E. V. | M. Tech | Lecturer (Contract) | Computer Science | 2 | |
| Rahumath Beevi A. | M. Tech | Lecturer (Contract) | Computer Science | 1 | |
| Dr. Lethakumary B. | M. Tech Ph. D | Asst. Professor (Adhoc) | Microwave Engineering | 22 | 7 |



| | | | | | |
|-------------------------|--------------|-------------------------------|---------------------------------|-----|--|
| Dr.Abdul Hakeem M.A. | M. Tech Ph.D | Asst. Professor (Adhoc) | Engineering Education | 22 | |
| Asalatha P.T. | M.Tech | Lecturer (Contract) | VLSI | 6 | |
| Rajeesh Babu | M.Tech | Lecturer (Contract) | VLSI | 6 | |
| Renjith V. R. | M.Tech | Lecturer (Contract) | VLSI | 4 | |
| Aneesh M. P. | M.Tech | Lecturer (Contract) | Applied Electronics | 4 | |
| Deepu S. | M.Tech | Lecturer (Contract) | Communication Systems | 4 | |
| Ansar M. M. | M.Tech | Lecturer (Contract) | Applied Electronics | 4 | |
| Asha Jayaprakash | M.Tech | Lecturer (Contract) | Opto- Electronics | 3 | |
| Krishnapriya B. | M.Tech | Lecturer (Contract) | Communication Systems | 3 | |
| Sanju S. | M.Tech | Lecturer (Contract) | Control Systems | 3 | |
| Amjadha A. | M.Tech | Lecturer (Contract) | Applied Electronics | 1.5 | |
| Reeja Sebastian | M.Tech | Lecturer (Contract) | Embedded Systems | 1 | |
| Anoop M. M. | M.Tech | Lecturers (Guest) | VLSI | 4 | |
| Ambily V. R. | M. Tech | Lecturer (Contract) | Power Electronics &Drives | 6 | |
| Limin K. Mathew | M. E | Lecturer (Contract) | Power& Energy Systems | 3 | |
| Jincy Joy | M. Tech | Lecturer (Contract) | Power Electronics &Drives | 3 | |
| Sreekala C. S. | M. Tech | Lecturer (Contract) | Power Systems | 6 | |



| | | | | | |
|------------------------|-------------------|-------------------------------|----------------------------------|-----|--|
| Veena Vijayan | M. Tech | Lecturer (Contract) | Power Electronics | 2.5 | |
| Maria Joseph | M. Tech | Lecturer (Contract) | Power Electronics & Drives | 2 | |
| Dona Maria Mathew | M. Tech | Lecturer (Contract) | Power Electronics & Drives | 1.2 | |
| Thanooja Ann Jose | M. Tech | Lecturer (Contract) | Applied Electronics | 4.5 | |
| Nimmy Berchman | M. Tech | Lecturer (Contract) | Power Electronics & Drives | 1 | |
| Divya S. | M. Tech | Lecturer (Contract) | Power Electronics & Drives | 1.5 | |
| Mayamol S. | M. Tech | Lecturer (Contract) | Power Electronics & Drives | 1 | |
| Shahna P. Saith | M. Tech | Lecturer (Contract) | Power Electronics & Drives | 1.7 | |
| Anjaly Iyer S. | M.Tech | Lecturer (Contract) | Computer Science | 4 | |
| Manoj M. J. | M.Tech | Lecturer (Contract) | Computer Science | 4 | |
| Rakhi Roy J. | M.Tech | Lecturer (Contract) | Computer Science | 1 | |
| Anju K. S. | M.Tech | Lecturer (Contract) | Computer Science | 1 | |
| Soumya George | M.Tech | Lecturer (Contract) | Computer Science | 2 | |
| Reshmi Sojan | M.Tech | Lecturer (Contract) | Computer Science | 2.5 | |
| Rakhi K. Raj | M.Tech | Lecturer (Contract) | Information Technology | 1 | |
| Dr . Geethamma V.G. | M. Tech Ph. D. | Asst. Professor (Adhoc) | Polymer Engineering | 22 | |



| | | | | | |
|----------------------|------------------|-------------------------------|---------------------------|-----|--|
| Dr. Josephine George | M. Tech Ph. D | Asst. Professor (Adhoc) | Polymer Engineering | 20 | |
| Dr. Leny Mathew | M. Tech Ph. D | Asst. Professor (Adhoc) | Polymer Engineering | 20 | |
| Dr. Jose Sebastian | M. Tech Ph. D | Lecturer (Contract) | Polymer Engineering | 12 | |
| Sreelatha R. | M.Tech | Lecturer (Contract) | Polymer Engineering | 5 | |
| Sheeba John | M. Tech | Lecturer (Contract) | Polymer Engineering | 2 | |
| Bibin Oommen | M. Tech | Lecturers (Guest) | Chemical Engineering | 6 | |
| Sibu P. M. | M.Tech | Lecturers (Adhoc) | Mechanical Engineering | 17 | |
| Kannan S. | M.Tech | Lecturer (Contract) | Mechanical Engineering | 2 | |
| Thirumanas K. R. | M.Tech | Lecturer (Contract) | Mechanical Engineering | 3 | |
| Sijo Jose | M.Tech | Lecturer (Contract) | Mechanical Engineering | 4 | |
| Sumithra Venugopal | M.Tech | Lecturer (Contract) | Civil Engineering | 1 | |
| Rintu K. Joseph | M.Sc | Lecturer (Contract) | Science & Humanities | 2.5 | |
| Dhanya R. | M.Sc | Lecturers (Guest) | Science & Humanities | 3 | |
| Suja T. I. | M.Sc | Lecturers (Guest) | Science & Humanities | 5 | |
| Nisha Ravi | M.Sc | Lecturers (Guest) | Science & Humanities | 4 | |
| Dr. Jose Baby | PhD | Lecturer (Contract) | Physical Education | 3 | |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:

- Prof. Joy Michael teaches –Adjunct Faculty
- Prof. K. A. Thomas, Associate Professor (retd.), St. Joseph College,



Moolamattom- Adjunct Faculty

•

13. Percentage of classes taken by temporary faculty – programme-wise information

By temporary faculty : 100%

14. Programme-wise Student Teacher Ratio - 20:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

| Sl No | Department | Technical Staff | Administrative Staff |
|-------|---|-----------------|----------------------|
| 1 | Computer Science and Engineering | 2 | - |
| 2 | Electronics and Communication Engineering | 2 | - |
| 3 | Electrical and Electronics Engineering | 3 | - |
| 4 | Information Technology | - | - |
| 5 | Polymer Engineering | 2 | - |
| 6 | Mechanical workshop | 6 | - |
| 7 | Office | - | 10 |
| 8 | Library | - | 4 |

16. Research thrust areas as recognized by major funding agencies

Nil

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

Nil

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration b) International collaboration

Nil

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.

Nil

20. Research facility / centre with

- State recognition
- National recognition
- International recognition



Electronics & Communication Engineering department is recognized as approved research centre by M.G University.

21. Special research laboratories sponsored by / created by industry or corporate bodies

Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-----------|
| 1. | Refereed Journal Publications | 26 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 10 |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 36 |

a) Publication per faculty :

| | |
|-----------------------|-----|
| Dr. P. N. Joshi | - 1 |
| Dr. Lethakumary B. | - 6 |
| Dr. Leny Mathew | - 4 |
| Dr. Jose Sebastian | - 2 |
| Mr. Bibin Oommen | - 3 |
| Ms. Dona Maria Mathew | - 3 |
| Ms. Divya S. | - 3 |
| Ms. Nimmy Berchmans | - 1 |
| Ms. Mayamol S. | - 1 |
| Dr. Geethamma V. G. | - 2 |

* Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

* Citation Index – range

* Average

* SJR



- * Impact Factor – range / average
- * h-index
- Citations: 3

23. Details of patents and income generated : Nil

24. Areas of consultancy and income generated : Nil

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad:

- Dr. Geethamma V. G. Visited the Dept. of Materials Science & Engineering, University of Illinois (UC), USA, with Fulbright Fellowship

26. Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any other

b) (please specify)

Nil

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

Nil

28. Student projects

a. Percentage of students who have done in-house projects including inter-departmental / programme

| Department | Percentage |
|------------|------------|
| CSE | 10 |
| ECE | 35 |
| EEE | 10 |
| IT | 0 |
| PE | 0 |

b. Percentage of students doing projects in collaboration with other universities / industry / institute

| Department | Percentage |
|------------|------------|
| CSE | 90 |
| ECE | 65 |
| EEE | 90 |
| IT | 100 |
| PE | 100 |



29. Awards / recognitions received at the national and international level by

a Faculty

| A | Research awards received by the faculty |
|---------------------|--|
| Dr. Geethamma V. G. | <ul style="list-style-type: none"> • Fulbright Fellowship in the Dept. of Materials Science & Engineering, University of Illinois (UC), USA, on Soft Lithography and Nano patterning. • Fulbright Alumni Award supported by the United States-India Educational Foundation (USIEF), New Delhi, to conduct a seminar on Polymers and Environment, 2013. |

Doctoral / post-doctoral fellows -Nil

| B | Research awards received by the students |
|----------|---|
| Students | <ul style="list-style-type: none"> • Abin Ravi has represented the Kerala team in the National Roller Skating championship held at Delhi in June, 2012. • M.G University College of Engineering, Thodupuzha, won the All Kerala Inter-collegiate Football 7s Tournament held at Painavu Engineering College in 2014. • M.G University College of Engineering, Thodupuzha, won the Action Cup All Kerala Inter-collegiate Football 7s Tournament held at Ilahia College of Engineering, Muvatupuzha in 2015 |

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

a) National

| | | |
|----|--|------|
| 1. | National Seminar on Advanced Polymers (NSAP-12) | 2012 |
| 2. | SCIENTIA-2012 September 28 &29 | 2012 |
| 3. | National Seminar on Advanced Polymers (NSAP-14) 2014 October 28 | 2014 |
| 4. | National Seminar on Advanced Polymers (NSAP-15) | 2015 |
| 5. | HESPEROS-15 September 11 &12 | 2015 |
| 6. | Seminar on “Innovation in Science & Technology: Exploring the Creative Space” was held on 26.2.2016 in association with the National Science Day. It was supported by the Kerala State Council for Science | 2016 |



| | | |
|----|--|------|
| | Technology and Environment and DST, Govt. of India. | |
| 7. | Seminar on “Waste Management: Begin at Our Home” was held on 16.6.2016 in connection with the World Environment Day. It was supported by the Kerala State Council for Science Technology and Environment and DST, Govt.of India. | 2016 |
| 8. | Seminar on “Energy Conservation and Building Code” was conducted on 7.9.2016. It was sponsored by the Energy Management Centre, Govt. of Kerala and the Bureau of Energy Efficiency, Govt. of India. | 2016 |

b) **International: Nil**

31. Code of ethics for research followed by the departments: Nil

32. Student profile programme-wise:

Year-2011

| Name of the Course/programme (refer question no. 4) | Applications received | Selected | Enrolled | | Pass percentage |
|--|-----------------------|----------|----------|----|-----------------|
| | | | *M | *F | |
| Computer Science and Engineering | NA | 55 | 27 | 28 | 64 |
| Electronics and Communication Engineering | NA | 64 | 35 | 29 | 45 |
| Electrical and Electronics Engineering | NA | 48 | 30 | 18 | 43 |
| Information Technology | NA | 27 | 14 | 13 | 45 |
| Polymer Engineering | NA | 54 | 37 | 17 | 58.06 |

Year-2012

| Name of the Course/programme (refer question no. 4) | Applications received | Selected | Enrolled | | Pass percentage |
|--|-----------------------|-----------|-----------|-----------|-----------------|
| | | | *M | *F | |
| Computer Science and Engineering | NA | 53 | 24 | 29 | 51 |
| Electronics and Communication Engineering | NA | 62 | 30 | 32 | 66 |
| Electrical and Electronics Engineering | NA | 52 | 35 | 17 | 51 |
| Information Technology | NA | 21 | 05 | 16 | 61 |
| Polymer Engineering | NA | 47 | 28 | 19 | 70 |

**Year-2013**

| Name of the Course/programme (refer question no. 4) | Applications received | Selected | Enrolled | | Pass percentage |
|--|-----------------------|----------|----------|----|-----------------|
| | | | *M | *F | |
| Computer Science and Engineering | NA | 43 | 17 | 26 | 37 |
| Electronics and Communication Engineering | NA | 35 | 14 | 21 | 44 |
| Electrical and Electronics Engineering | NA | 35 | 20 | 15 | 51 |
| Information Technology | NA | 10 | 07 | 03 | 37 |
| Polymer Engineering | NA | 42 | 29 | 13 | 78 |

Year-2014

| Name of the Course/programme (refer question no. 4) | Applications received | Selected | Enrolled | | Pass percentage |
|--|-----------------------|----------|----------|----|-----------------|
| | | | *M | *F | |
| Computer Science and Engineering | NA | 34 | 17 | 17 | 37 |
| Electronics and Communication Engineering | NA | 28 | 13 | 15 | 45 |
| Electrical and Electronics Engineering | NA | 39 | 21 | 18 | 52 |
| Information Technology | NA | 06 | 03 | 03 | 23 |
| Polymer Engineering | NA | 44 | 32 | 12 | 58 |



Year-2015

| Name of the Course/programme (refer question no. 4) | Applications received | Selected | Enrolled | | Pass percentage |
|--|-----------------------|----------|----------|----|-----------------|
| | | | *M | *F | |
| Computer Science and Engineering | NA | 35 | 16 | 19 | 55 |
| Electronics and Communication Engineering | NA | 26 | 14 | 12 | 72 |
| Electrical and Electronics Engineering | NA | 25 | 17 | 08 | 60 |
| Information Technology | NA | 10 | 07 | 03 | 60 |
| Polymer Engineering | NA | 35 | 15 | 20 | 52 |

Year-2016

| Name of the Course/programme (refer question no. 4) | Applications received | Selected | Enrolled | | Pass percentage |
|--|-----------------------|----------|----------|----|-----------------|
| | | | *M | *F | |
| Computer Science and Engineering | NA | 48 | 24 | 24 | 79 |
| Electronics and Communication Engineering | NA | 33 | 15 | 18 | 89 |
| Electrical and Electronics Engineering | NA | 30 | 22 | 08 | 69 |
| Information Technology | NA | 22 | 09 | 13 | 95 |
| Polymer Engineering | NA | 24 | 10 | 14 | 51 |

33: Diversity of students

| Name of the Course | % of students from the same state | % of students from other States | % of students from abroad |
|--------------------|-----------------------------------|---------------------------------|---------------------------|
| CSE | 100 | 0 | 0 |
| ECE | 100 | 0 | 0 |
| EEE | 100 | 0 | 0 |
| IT | 100 | 0 | 0 |
| PE | 100 | 0 | 0 |



How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

| Department | GATE | Civil Service |
|------------|------|---------------|
| CSE | 5 | |
| ECE | 10 | 1(2010) |
| EEE | 7 | |
| IT | 0 | |
| PE | 20 | 1(2008) |

34. Student progression

| Student progression | Against % enrolled |
|----------------------------------|--------------------|
| UG to PG | 10% |
| PG to M.Phil. | |
| PG to Ph.D. | 1% |
| Ph.D. to Post-Doctoral | |
| Employed | |
| • Campus selection | 30% |
| • Other than campus recruitment | 30% |
| Entrepreneurship/Self-employment | 10% |

University College of Engineering keeps good relation with Industries globally and locally. The students are exposed to Industries during their semester intervals through Industrial training and frequent Industrial Visits. We are also associated with Scientific and Research Institutes for the final year student project work.

Industries like Apollo tyres, Ceat Tyres, JK tyres, TVS tyres etc. give Industrial Training and Project work for the final year students. Other Industries like Nerolac Paints, Asian paints, High Build Coatings, 3M, Akzo Nobel, Berger Paints etc. conduct interview to recruit our students. Research Institutes like VSSC, IRMRA, DRDO, NCL are also associated with the college. Public sector Institutions like Hindustan Latex Limited, Hindustan Aeronautics Limited, Rubber Research Institute of India also gets collaborated with the college. Local Industries like Tollins tyres, Lunar Rubbers, VKC, Vajra Rubbers also keep good Institute – Industry relation with our college through Industrial Visits/ Placements for the students.



RECRUITMENT DRIVE RESULT OF 2016 PASSED OUT BATCH

| Sl No | Name of Company | Total No of Students Placed | Name of Students | Course |
|-------|---------------------|-----------------------------|------------------------|--------|
| 1 | INFOSYS Ltd | 17 | 1.Anu Mohan | CSE |
| | | | 2.Boby Kunjumon Thomas | CSE |
| | | | 3.Jins K Joy | CSE |
| | | | 4.Ajai Mohan | EEE |
| | | | 5.Akhil Lal S | EEE |
| | | | 6.Arjun Unnikrishnan | EEE |
| | | | 7.Athira K R | EEE |
| | | | 8.Mohammed Afeef T A | EEE |
| | | | 9.Niravadya V S | EEE |
| | | | 10.Albert Pious | ECE |
| | | | 11.Amrita Mary John | ECE |
| | | | 12.Anjitha Prem | ECE |
| | | | 13.Reshma R Nair | ECE |
| | | | 14.Sethulakshmi G | ECE |
| | | | 15.Vrindha Vijayan | ECE |
| | | | 16.Fathima Safana | IT |
| | | | 17.Linda P Johns | IT |
| 2 | QBurst Technologies | 5 | 1.Ajai Mohan | EEE |
| | | | 2.Akshay R | PE |
| | | | 3.Alan Thomas | ECE |
| | | | 4.Amrita Mary John | ECE |
| | | | 5.Anjaly George | CSE |
| 3 | IBS Softwares | 2 | 1.Anjan P Kumar | EEE |
| | | | 2.Sreelekshmi N P | CSE |
| 4 | UST GLOBAL | 8 | 1.Jayakrishnan K Y | IT |
| | | | 2.Athira C R | CSE |
| | | | 3.Chikkulal C | CSE |
| | | | 4.Ajmal B Aliyar | CSE |
| | | | 5.Divya C | ECE |
| | | | 6.Suhara M U | ECE |
| | | | 7.Reenu Rajan | ECE |
| | | | 8.Harikrishnan M | ECE |
| 5 | WIPRO TECHNOLOGIES | 2 | 1.P Sarath Hari | ECE |
| | | | 2.Greeshma V S | IT |
| | TOTAL | 34 | | |


RECRUITMENT DRIVE- RESULT OF 2015 PASSED OUT BATCH

| Sl No | Name of Company | Total No of Students Placed | Name Of Students | Course |
|-------|-----------------------|-----------------------------|------------------------|----------|
| 1 | INFOSYS Ltd | 10 | 1. Jismi Mathew | ECE |
| | | | 2. Anooth Mohan | ECE |
| | | | 3. Georgy Jacob | ECE |
| | | | 4. Iyvin Jose | CSE |
| | | | 5. Sony Kurian K | CSE |
| | | | 6. Jithin Jiji | CSE |
| | | | 7. Akhil Paul | CSE |
| | | | 8. Dayana Abraham | CSE |
| | | | 9. Deekshith M P S | POLYMER |
| | | | 10. Betty G Kurian | MTech AE |
| 2 | QBurst Technologies | 1 | 1. Vipin Narayanan P P | IT |
| 3 | IBS Softwares | 1 | 1. Surumi Ismail | CSE |
| 4 | Broadcom Technologies | 4 | 1 Ram Gopal B | ECE |
| | | | 2. Amalraj Tr | EEE |
| | | | 3.Rony Scaria | ECE |
| | | | 4.Anand Babu | CSE |
| 5 | Poornam Infovision | 3 | 1.Jayamol Joseph | CSE |
| | | | 2. Akhil Dev K. P. | ECE |
| | | | 3.Deepukrishnan P. R. | CSE |
| | TOTAL | 19 | | |



RECRUITMENT DRIVE RESULT OF 2014 PASSED OUT BATCH

| Sl No | Name of Company | Total No of Students Placed | Name Of Students | Course |
|-------|--------------------------------------|-----------------------------|------------------------|---------|
| 1 | INFOSYS Ltd | 16 | 1. Ashik Muhammed P A | EEE |
| | | | 2. Abel John Muthalaly | ECE |
| | | | 3. Amal Philip | ECE |
| | | | 4. Bibina Rose Thomas | ECE |
| | | | 5. Pooja P R | ECE |
| | | | 6. Shyamly Kuniyil K | POLYMER |
| | | | 7. Abhiram S | CSE |
| | | | 8. Geethu Raj | CSE |
| | | | 9. Heera Mukundan | CSE |
| | | | 10. Jijumon Varghese | CSE |
| | | | 11. Lija James | CSE |
| | | | 12. Sangeetha A | CSE |
| | | | 13. Sharal G Mohan | CSE |
| | | | 14. Neetha George | EEE |
| | | | 15. Revathy G Nair | EEE |
| | | | 16. Vani Vijayan | EEE |
| 2 | IBS Softwares | 3 | 1. Rahi Hareendranath | CSE |
| | | | 2. Shiju Thomas | EEE |
| | | | 3. Vishnu Narayanan | ECE |
| 3 | Qburst Technologies | 5 | 1. Abhijith George | CSE |
| | | | 2. Aparna Ashok | CSE |
| | | | 3. Alvin Varghese | CSE |
| | | | 4. Anjuna Baby | ECE |
| | | | 5. Akhil Suresh | ECE |
| 4 | Cognizant Technology Solutions(CTS) | 2 | 1. Jithu V George | CSE |
| | | | 2. L. S. Revathykutty | EEE |
| 5 | ACCENTURE | 6 | 1. Rilja Sunny | ECE |
| | | | 2. Veena K S | ECE |
| | | | 3. Sneha Nair | CSE |
| | | | 4. Sherine Varghese | ECE |
| | | | 5. Indu K | ECE |
| 6 | Tata Consultancy Services(TCS) | 2 | | CSE |
| | TOTAL | 34 | | |



RECRUITMENT DRIVE RESULT OF 2013 PASSED OUT BATCH

| SI No | Name of Company | Total No of Students Placed |
|-------|------------------------|-----------------------------|
| 1 | IBS SOFTWARES | 3 |
| 2 | ARICENT | 3 |
| 3 | SPERIDIAN TECHNOLOGIES | 2 |
| | TOTAL | 8 |

RECRUITMENT DRIVE RESULT OF 2012 PASSED OUT BATCH

| SI No | Name of Company | Total No of Students Placed | Name of Students | Course |
|-------|-----------------|-----------------------------|-------------------------|--------|
| 1 | Infosys | 43 | 1.Aby M. Scaria | CSE |
| | | | 2 Akhil Raj A. J. | ECE |
| | | | 3 Aleena Rose Peter | EEE |
| | | | 4 Amalu Anna Roy | ECE |
| | | | 5 Anjaly R. | ECE |
| | | | 6 Anju Maria Kurian | EEE |
| | | | 7 Ann Maria Isaac | EEE |
| | | | 8 Anu B. Paul | CSE |
| | | | 9 Anusha George | IT |
| | | | 10 Aparna Murali | ECE |
| | | | 11.Arjun Krishna P. R. | EEE |
| | | | 12 Arya M. | ECE |
| | | | 13 Aswathi S. Pillai | IT |
| | | | 14. Daughty Abraham | ECE |
| | | | 15 Deepu Jose Thomas | ECE |
| | | | 16 George Antony Thomas | ECE |
| | | | 17.Greeshma Sekharan | EEE |
| | | | 18.Haritha M. | ECE |
| | | | 19.Haritha M. | EEE |
| | | | 20.Jeena Jose | CSE |
| | | | 21.Jiss Mary Thomas | CSE |
| | | | 22.Johnson Jos | CSE |
| | | | 23.Josekutty Joseph | ECE |



| | | | | |
|---|--------------|-----------|------------------------------|-----|
| | | | 24.Juwin P. Zam | ECE |
| | | | 25.Jyothis Alphy Thomas | IT |
| | | | 26.Krishnendu G. | EEE |
| | | | 27.Malu K. R. | IT |
| | | | 28.Manju Ravi | ECE |
| | | | 29. Minu Tony Thottam | IT |
| | | | 30.Mitun Jose George | CSE |
| | | | 31.Nargis M. | ECE |
| | | | 32.Neethu Thomas | ECE |
| | | | 33.Neethu V. M. | ECE |
| | | | 34.Raziya Yacoob | ECE |
| | | | 35. Rose Elizabeth Augustine | CSE |
| | | | 36. Sariga James | IT |
| | | | 37.Shameela Sulaiman | CSE |
| | | | 38.Shimna George | ECE |
| | | | 39.Shirin Rahim | EEE |
| | | | 40.Shyni Merlin Raju | IT |
| | | | 41.Sreelakshmi Surendran | ECE |
| | | | 42 Sruthi Babu | IT |
| | | | 43.Surya Saradhy | EEE |
| 2 | Accenture | 9 | 1.Dannie Abraham | IT |
| | | | 2.Daughty Abraham | ECE |
| | | | 3.George Antony Thomas | ECE |
| | | | 4.Juwin P. Zam | ECE |
| | | | 5.Mitun Jose George | CSE |
| | | | 6.Ramkumar S. | ECE |
| | | | 7.Sighil Sivadas | CSE |
| | | | 8.Veena S. Kumar | CSE |
| | | | 9.Veenasree Kaimal | IT |
| | TOTAL | 52 | | |

RECRUITMENT DRIVE RESULT OF 2011 PASSED OUT BATCH

| Sl No | Name of Company | Total No of Students Placed | Name Of Students | Course |
|-------|-----------------|-----------------------------|----------------------|--------|
| 1 | Infosys | 38 | 1 Abidh Muhsin P. A. | ECE |
| | | | 2 Ahalya M. S. | ECE |
| | | | 3 Aji Salam | IT |
| | | | 4 Amal G. Jose | EEE |
| | | | 5 Aneesha Mol T. I. | IT |
| | | | 6 Anjukutty Joseph | CSE |
| | | | 7 Anu K. Babu | CSE |



| | | | | | | | |
|-----------------|-----|--|--------------------------|-------------------|----|---------------------|-----|
| | | | 8 Archana H. | ECE | | | |
| | | | 9 Areena Antony | ECE | | | |
| | | | 10 Arun Alias | CSE | | | |
| | | | 11 Ashven V. Gopal | ECE | | | |
| | | | 12 Asish M. | CSE | | | |
| | | | 13 Athira Murali | ECE | | | |
| | | | 14 Chanthini M. Tharayil | IT | | | |
| | | | 15 Deepa C. C. | ECE | | | |
| | | | 16 Deepa Rani George | ECE | | | |
| | | | 17 Dhanoop Bhaskar | IT | | | |
| | | | 18 Geethu S. | CSE | | | |
| | | | 19 Hariharan N. | EEE | | | |
| | | | 20 James Tom | CSE | | | |
| | | | 21 Jasmine T. Nazeer | IT | | | |
| | | | 22 Jerin Alias | CSE | | | |
| | | | 23 Jijo Mathew | IT | | | |
| | | | 24 Jinsmon Kurian | CSE | | | |
| | | | 25 Meenu Thomas | CSE | | | |
| | | | 26 Neethu Babu | CSE | | | |
| | | | 27 Nithin Prasad | CSE | | | |
| | | | 28 Rachana Radhakrishnan | ECE | | | |
| | | | 29 Sabira E. E. | IT | | | |
| | | | 30 Sayana Sivanand | ECE | | | |
| | | | 31 Sherin Deena Sam | ECE | | | |
| | | | 32 Shoji Thomas | CSE | | | |
| | | | 33 Shruti Mohan | IT | | | |
| | | | 34 Sini V. | IT | | | |
| | | | 35 Sinu John | CSE | | | |
| | | | 36 Soumya Mohan | ECE | | | |
| | | | 37 Sreya R. Nambiar | IT | | | |
| | | | 38 Tinu A. Vincent | EEE | | | |
| | | | 2 | PATNI COMPUERS | 21 | 1 Amal G. Jose | EEE |
| | | | | | | 2 Anjukutty Joseph | CSE |
| | | | | | | 3 Archana H. | ECE |
| | | | | | | 4 Asish M. | CSE |
| | | | | | | 5 Geethu S. | CSE |
| | | | | | | 6 Jasmine T. Nazeer | IT |
| | | | | | | 7 Jerin Alias | CSE |
| 8 Meenu Thomas | CSE | | | | | | |
| 9 Nithin Prasad | CSE | | | | | | |



| | | | | |
|-------------------------|---------------|----|----------------------------|-----|
| | | | 10 Soumya Mohan | ECE |
| | | | 11 Sreya R. Nambiar | IT |
| | | | 12 Akhil P. R. | EEE |
| | | | 13 Anupama Geoege | IT |
| | | | 14 Arun Sasi | ECE |
| | | | 15 Ashitha Alikutty | CSE |
| | | | 16 Chithra R. | EEE |
| | | | 17 Christeena George | CSE |
| | | | 18 Dinoop P. | EEE |
| | | | 19 Rohit Reghu | CSE |
| | | | 20 Sajitha Salim | EEE |
| 21 Sneha Elizabeth Tomy | CSE | | | |
| 3 | ACCENTURE | 13 | 1 Priya A. Peedikaparambil | CSE |
| | | | 2 Rohit Reghu | CSE |
| | | | 3 Sneha Elizabeth Tomy | CSE |
| | | | 4 Subina E. S. | CSE |
| | | | 5 Aleena Joseph | ECE |
| | | | 6 Arun Sasi | ECE |
| | | | 7 Jesly James | ECE |
| | | | 8 Sanal S. Nair | ECE |
| | | | 9 Anu Parvathi P. | EEE |
| | | | 10 Praveen Kumar | EEE |
| | | | 11 Animol Joseph | IT |
| | | | 12 Anupama Geoege | IT |
| | | | 13 Sreeprabha P. | IT |
| 4 | IBS softwares | 7 | 1 Ashitha Alikutty | CSE |
| | | | 2 Chithra R. | EEE |
| | | | 3 Jithin Babu K. | ECE |
| | | | 4 Krishnaja B. | CSE |
| | | | 5 Lucina Joseph | EEE |
| | | | 6 Ranju R. | CSE |
| | | | 7 Sahla M. M. | ECE |
| 5 | TATA ELXSI | 5 | 1 Jesly James | ECE |
| | | | 2 Meenu Thomas | CSE |
| | | | 3 Sahla M. M. | ECE |
| | | | 4 Sajitha Salim | EEE |
| | | | 5 Sinu John | CSE |
| 6 | SIXDEE | 2 | 1 Dinoop P. | EEE |
| | | | 2 Gopikrishnan A. N. | IT |
| 7 | CSS | 2 | 1 Jose Vivek A. R. | EEE |
| | | | 2 Seethu Maria Mathew | IT |



| | | | | |
|---|-------|----|-----------------|-----|
| 8 | NEST | 1 | 1 Anil Paul | CSE |
| 9 | HCL | 1 | 1 Joseph Thomas | CSE |
| | TOTAL | 90 | | |

35. Diversity of Staff

| Percentage of faculty who are graduates | |
|--|-----|
| Of the same university | 40% |
| From other universities within the state | 40% |
| From universities from other State | 20% |
| From Universities outside the country | Nil |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period

| Faculty who were awarded Ph.D. during the assessment period | |
|---|---------------|
| Dr. Leny Mathew | July 2010 |
| Dr. Jose Baby | December 2014 |
| Dr. Abdul Hakeem M. A. | May 2016 |
| Dr. Jose Sebastian | July 2016 |

38. Present details of departmental infrastructural facilities with regard to

a) Library :

The College has a good library with a book collection of 18929 volumes and 7348 titles. These spread among various branches of engineering and other general subjects. The library subscribe to 32 journals and 3 general periodicals apart from 5 daily newspapers. We provide free internet access to the students and staff at the library. They can access international journals through internet. On an average, 300 students and 50 staff visit the library daily and avail the various services.

- Total area of the library (in Sq. Mts.) : 520
- Total seating capacity: : 75
- Working hours : on working days – 9 AM to 5 PM

| Number of Titles | Number of Volumes |
|------------------|-------------------|
| 7347 | 18929 |



b) **Internet facilities for Staff & Students:** Internet facility available in Lab 20 Mbps Broadband

Connectivity with WiFi accessibility

c) **Class rooms with ICT facility:** NA

d) **Laboratories** : Full equipped Lab

39. List of doctoral, post-doctoral students and Research Associates

a) from the host institution/university : Nil

b) from other institutions/universities : Nil

40. Number of post graduate students getting financial assistance from the university.

2013 admission

| | M. Tech |
|-------------|----------------|
| SC | 4 |
| OEC | 3 |
| ST | 2 |
| FC | 0 |
| SEBC | 0 |

2014 admission

| | M. Tech |
|-------------|----------------|
| SC | 3 |
| OEC | 2 |
| ST | 1 |
| FC | 0 |
| SEBC | 0 |

2015 admission

| | M. Tech |
|------------|----------------|
| SC | 2 |
| OEC | 1 |



| | |
|-------------|----------|
| ST | 0 |
| FC | 0 |
| SEBC | 0 |

2016 admission

| | M. Tech |
|-------------|----------------|
| SC | 0 |
| OEC | 0 |
| ST | 0 |
| FC | 0 |
| SEBC | 0 |

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

Nil

42. Does the department obtain feedback from

- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

The curriculum is framed by an expert committee and Board of studies. The members are all HODs and Eminent professors from nationally reputed Institutions. The University approves the curriculum and is conveyed to teachers and students.

- b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Student feedback system- The HOD collect the feedback from students about teachers in the prescribed format.

- c. Alumni and employers on the programmes offered and how does the department utilize the feedback?

- After the completion of the B.Tech. Degree, the students get employment or pursue higher studies. Therefore the college takes continuous feedback from the companies / institutions where our students are employed / pursuing higher studies. Their performance at other institutions will be an indicator of whether we have achieved the objectives of the curriculum.



- The College accept the opinions and suggestions from the well placed Alumni of this college to revise the curriculum. For example, in the 3rd semester B. Tech. Polymer Engineering, we have included a paper on Computer Aided Design and Manufacturing. In this connection, we sought the suggestion from Mr. Manu T. who is our alumnus. He did M. Des. in IIT, Delhi in Product Design.

43. List the distinguished alumni of the department (maximum 10) : Nil

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

| Department | Lectures/ Workshops/ Seminars | Name of the expert | Date & year |
|------------|----------------------------------|---------------------------------------|-----------------------------|
| ECE | 1. Workshop on LABVIEW | Mr. Deepak (NI Bangalore) | 2010 |
| | 2. Workshop on HFSS | Mr. Kaviarasu (Entuple, Bangalore) | 21/03/2016 to 22/03/2016 |

45. List the teaching methods adopted by the faculty for different programmes.

The learning process is framed in such a way that the emphasis is on acquiring in-depth and conceptual knowledge. Adequate use of LCD projectors is employed by faculty. Equal importance is given to classroom and laboratory learning. Apart from the conventional teaching methodology, the faculty members use audio and video presentations with the help of LCD projector. Students are advised to visit the free study materials available online. Also, the students visit industries/ R&D institutes frequently.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

Curriculum

- The curriculum is updated periodically keeping track of the changing needs of the industry and the rapid advancements on the technological front. The curriculum is designed to be student friendly with proper emphasis on both theoretical and practical knowledge. It envisages seminar presentations and a full-fledged project work in collaboration with industrial/ R & D organization/ Academic institutions during the final year.
- Revised the curriculum for B.Tech and M. Tech degree programme is followed from 2015 batch admission onwards. The Scheme and syllabus of all programs are framed by an expert committee consisting of internal and external experts in order to meet the standards of employability and knowledge of upgradation. The University approves the curriculum and is conveyed to teachers and students.



- A wide range of elective subjects is also offered in the final year to keep students abreast with the cutting edge of technology. Various curricular activities are being conducted by the 5 departments of the college.
- As mentioned in Sl. No.42 c, we take feedback from the companies / institutions where our students are employed / pursuing higher studies. We also consider the opinion of our alumni.

Implementation

- Academic calendar is prepared Semester wise.
- Teaching plan – A subject wise teaching plan is prepared by teachers under the supervision of HOD.
- Student assessment is done through internal tests, seminars, assignments etc.
- Student feedback system- The HOD collect the feedback from students about teachers in the prescribed format.

47. Highlight the participation of students and faculty in extension activities.

1. Environmental Education

The college has conducted an Awareness Seminar on “Waste Management: Begin at Our Home” at our college. It was organized in connection with the World Environment Day. It was supported by the Kerala State Council for Science Technology and Environment and DST, Govt. of India. This was an *awareness* seminar targeted at a general audience including the people from the localities of our college, in addition to students and staff in various disciplines. So the entire programme was conducted in *Malayalam*. We realize that we need to manage the waste generated in our campus before advising others. So in connection with this seminar, we have launched the *Clean Campus Programme*, a mission to ensure cleanliness in our campus.

2. Human Rights

Every new student admitted at the college has the right to study here without any hazzles/intimidation/harassment/ teasing from senior students. With this perspective, we give the necessary guidelines and awareness for the senior students regarding “Antiragging” every year. The class is taken by the District Legal Authority Cell. The speakers are Judges, Advocates and Police Officers.

3. PST Blood Donation Camp

Blood donation camp conducted on 10th April 2014 in our campus jointly by Blood Cell, UCE and Indian Medical Association, Thodupuzha. Students donated blood during the camp.



Another blood donation camp conducted on 18th August 2015 jointly by Blood Cell, UCE and Indian Medical Association, Thodupuzha at our College. More than 40 students participated in the camp and donated blood.

4. Medical Camp

In connection with the World Health Day (7th April), an awareness class and blood analytical testing camp, was conducted in UCET on 7.4.2016. This was to increase awareness about the rise in diabetics and its staggering burden and consequences, in particular in low and middle income groups. Along with the students, teachers and office staff also participated in the programme.

5. Outreach Programme for school students

Recently the IEEE chapter of this college conducted an outreach programme for school students. They visited the nearby schools and described the importance and specialities of various engineering programmes conducted at our college. Another programme was also conducted by inviting the school students to our college and permitted them to visit our labs.

48. Give details of “beyond syllabus scholarly activities” of the department.

The college has produced a couple of short video clippings on certain topics in the curriculum. This was done by the students and the teachers. We have realized that this teaching methodology created enormous enthusiasm among the students. A few students are doing the experiment and others are watching it. So every student in the class becomes a part of the demonstration. The students become enthusiastic to learn further about the topic.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.

NA

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

The publications made by the faculty members in several international journals stand testimony to the new knowledge generated by the college.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

S-STRENGTH

- Teaching Department of a State University
- Good visionary management to take the institution to highest levels of quality
- Transparent Governance and Administration
- Good relation among Management, Principal and Staff



W-Weakness

- Industrial consultancy & applied research
- Formal networking with other institutions
- Hostel accommodation
- e-library facility

O-Opportunities

- Possible to change the curriculum based on industrial needs
- Alumni Networking for Academic and placement activities
- Enhance research activities through sponsored R&D projects
- Catering to all sections of the society

C- Challenges

- Compete with the e-governance system of A P J Abdul Kalam Technological University
- Competition from other institutions
- Declining quality of students admitted because of the extremely large number of institutions

Methods adopted to enhance student learning:

- Additional skill development programmes
- Remedial classes for weak students
- Invited lectures by industrial experts
- Collaborative learning
- Industrial visits / industrial trainings

52. Future plans of the department.

- To start new programmes and to become a centre of excellence on engineering studies.
- To improve quality of academics and to have a cosmopolitan group of students representing good student diversity.
- Improved laboratory facilities.
- Construction of hostels, staff quarters etc.



SCHOOL OF TECHNOLOGY & APPLIED SCIENCES

| | | | | | |
|-----------|---|----------------------|---|--------|-----------------------------|
| 1. | Name of the Department | : | School of Technology & Applied Sciences | | |
| 2. | Year of establishment | : | 1993 | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, Faculty of of Technology & Applied Sciences | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | MCA, M.Sc Applied Electronics, B.Tech in Polymer Engg., B.Sc Computer Science, B.Sc Cyber Forensic, MSc Computer Science, M.Sc Space Science & Technology, B.Sc Electronics, Ph.D | | |
| 5. | Interdisciplinary programmes and departments involved | : | PhD | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | - | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil | | |
| 8. | Examination System | : | Semester, Choice Based Credit System. | | |
| 9. | Participation of the department in the courses offered by other departments | : | Nil | | |
| 10 | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | | Sanctioned | Filled | Actual(including CAS & MPS) |
| | | Professor | 3 | Nil | Nil |
| | | Associate Professors | 6 | 6 | 6 |
| | | Asst. Professors | - | 1 | 1 |
| | | Others | | 34 | |



11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance School of Technology & Applied Sciences, Kottayam

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./ M.Phil. students guided for the last 6 years |
|---------------------------|---------------------------|-------------------|---------------------|----------------------------|--|
| Dr. K. Shreekrishna Kumar | M.Sc, Mphil, M.Tech, Ph.D | Regional Director | Electronics | 26 | 7 |
| Dr. Bindu M.S | M.E , MCA Ph.D | Reader | Computer Science | 28 | 1 |
| Rajendran R. | M.Tech | Reader | Computer Science | 30 | |
| Dr. Bindu K | MCA, Ph.D, SLET | Reader | Computer Science | 26 | |
| Sanu Thomas | M.Tech | Sl.Grade Lecturer | Computer Science | 18 | |
| Dr. Anilkumar P.V | M.Sc, Ph.D | Lecturer | Polymer Technology | 20 | |
| Dr.Bijamma Thomas | M.Sc (OR&CA), Ph.D | Lecturer | Operations Research | 20 | |
| Dr.Benazir K.K | MCA, M.Phil, Ph.D | Lecturer | Computer Science | 16 | |
| Saritha K. | MCA, M.Phil | Lecturer | Computer Science | 15 | |
| Bijini K.Hariharan | M.Sc. Maths | Lecturer | Mathematics | 11 | |
| Jisha Mary George | M.Sc Elec | Lecturer | Electronics | 12 | |
| Manju G.R | MCA | Lecturer | Computer Science | 7 | |
| Geetha Muraledhar | B.Tech, MBA | Lecturer | Polymer Technology | 10 | |
| Priyanka C.D | B.Tech | Lecturer | Polymer Technology | 6 | |
| Sreeja K.S | MCA | Lecturer | Computer Science | 7 | |
| Asha Chandran | MCA | Lecturer | Computer Science | 6 | |
| Aryadevi K | MCA | Lecturer | Computer Science | 8 | |



School of Technology & Applied Sciences, Edappally

| | | | | | |
|------------------------|--------------------------|-------------------|----------------------|----|----|
| Dr. S. Krishnakumar | M.Sc, MCA, M.Tech, Ph.D | Regional Director | Electronics | 22 | 10 |
| Dr. Valyomana A.G | M.Sc, M.Phil, Ph.D, CSIR | Reader | Electronics | 18 | |
| Dr. Thomaskutty Mathew | M.Sc, Ph.D, UGC-NET | Reader | Electronics | 17 | 10 |
| Dr. N.V Eldhose | M.Sc, M.Tech, Ph.D | Sr. Lecturer | Electronics | 22 | 8 |
| Suma Paulose | B.E | Lecturer | Electronics | 18 | |
| Sheena Joseph | M.Sc, M.Phil | Lecturer | Mathematics | 20 | |
| Swapna M | M.C.A | Lecturer | Computer Science | 19 | |
| Biny Varghese P | M.Sc, M.Phil | Lecturer | Mathematics | 20 | |
| Rasia A Khader | M.Sc | Lecturer | Computer Sciences | 10 | |
| Thirumeni K.R | M.C.A | Lecturer | Computer Application | 13 | |
| Anitha Lal KK | MCA, UGC-NET | Lecturer | Computer Application | 11 | |
| Jinimole C.G | B.Tech | Lecturer | Electronics | 12 | |
| Nissa S.S | MCA, M.Tech | Lecturer | Computer Application | 10 | |
| Ambily V.T | M.Sc, U.G.C NET | Lecturer | Computer Technology | 13 | |
| Sooraj N.S | M.Sc U.G.C NET - JRF | Lecturer | Applied Electronics | 10 | |
| Sumi Mary Abraham | M.Sc | Lecturer | Electronics | 10 | |
| Remya V.R | M.Sc, UGC NET | Lecturer | Electronics | 9 | |
| Divya S | M.C.A | Lecturer | Computer Application | 5 | |
| Bindu Rani T.V | B.Tech | Lecturer | Instrumentation | 14 | |
| Redhya V.V | M.Sc | Lecturer | Electronics | 8 | |



School of Technology & Applied Sciences, Pathanathitta

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./ M.Phil. students guided for the last 6 years |
|------------------------|------------------|-------------------|----------------------|----------------------------|--|
| Dr. Joji J Anchanattu | M.Sc, PhD | Regional Director | Electronics | 22 | |
| Anuja K | M.Sc OR & CA | Lecturer | OR & CA | 17 | |
| Rema K | M C A | Lecturer | Computer Application | 10 | |
| Abdul Muhammed Rasheed | M.Sc CS, M.Phil | Lecturer | Computer Science | 9 | |
| Rajasree G | M C A | Lecturer | Computer Application | 6 | |
| Ann V Easow | M C A | Lecturer | Computer Application | 6 | |
| Siny Sasi | M.Sc Electronics | Lecturer | Electronics | 6 | |
| Jisha G | M C A | Lecturer | Computer Application | 5 | |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors: Nil

13. Percentage of classes taken by temporary faculty – programme-wise information
MCA 20%, B.Sc. 20%, B.Tech. 40%.

14. Programme-wise Student Teacher Ratio :
MCA – 40:1, B.Sc. 40:1, B.Tech. 30:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual :

- Librarian- 1
- Technical-6
- Administrative-11



16. Research thrust areas as recognized by major funding agencies

Glass Science & Technology, Thin Film Technology, Solid Electrolytes, Ion Implantation Studies, Plasma Technology

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. : Nil

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration b) International collaboration : Nil

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received: Nil

20. Research facility / centre with

- state recognition - Yes
- National recognition - No
- International recognition - No

21. Special research laboratories sponsored by / created by industry or corporate bodies- Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-----------|
| 1. | Refereed Journal Publications | 39 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 34 |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 73 |

- Number of papers published in peer reviewed journals (national / international) : **39**
- Monographs
- Chapters in Books *
- Edited Books:1
- Books with ISBN with details of publishers
- Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory+, EBSCO host, etc.)
- Citation Index – range / average * SNIP



- SJR
- Impact Factor – range / average * h-index

23. Details of patents and income generated : Nil

24. Areas of consultancy and income generated : Nil

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad : Nil

26. Faculty serving in

- a) National committees b) International committees c) Editorial Boards d) any other
 b) (please specify) : 5

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

Faculty members participated in Refresher / orientation programs, workshops, training programs etc during the assessment period.

28. Student projects

- **Percentage of students who have done in-house projects including inter-departmental projects :**
30% of MCA & B.Sc. students
- **Percentage of students doing projects in collaboration with other universities / industry / institute : 70%**

29. Awards / recognitions received at the national and international level by

- **Faculty -2**
- **Doctoral / post-doctoral fellows - Yes**
- **Students - No**

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

1. RAPT – 2015 – National Seminar on Recent Advances in Polymer Technology,
2. Advances in Polymeric Materials – ‘APM – 2K15’, CYSEC – 2015 – Two day seminar
3. 2 days workshop on Cyber Security issues and Kali Linux.

31. Code of ethics for research followed by the departments : NA

32. Student profile programme-wise:



School of Technology & Applied Sciences, Edappally

| Name of the Course/programme (refer question no. 4) | Applications received | Selected | Enrolled | | Pass percentage |
|---|-----------------------|----------|----------|----|-----------------|
| | | | *M | *F | |
| B.SC Electronics | Centralised allotment | 40 | 28 | 12 | 35 |
| B.Sc Computer Science | | 41 | 15 | 26 | 90 |
| M.Sc Applied Electronics | | 21 | 10 | 11 | 96 |
| M.Sc Computer Science | | 9 | 4 | 5 | 98 |
| M.C.A | | 28 | 17 | 11 | 95 |
| B.Sc Cyber Forensic | | 18 | 10 | 8 | |

School of Technology & Applied Sciences, Pathanamthitta

| Name of the Programme (refer to question no. 4) | Year | Applications Received | Selected | | Pass percentage | |
|---|---------|-----------------------|----------|--------|-----------------|--------|
| | | | Male | Female | Male | Female |
| MCA | 2011-12 | 300 | 4 | 22 | 0 | 82 |
| | 2012-13 | | 11 | 21 | 27 | 67 |
| | 2013-14 | | 11 | 28 | Result awaiting | |
| | 2014-15 | | 6 | 31 | | |
| | 2015-16 | | 7 | 11 | | |
| M.Sc Computer Sciences | 2011-12 | PG CAP | 3 | 3 | 100 | 100 |
| | 2012-13 | | 4 | 19 | | |
| | 2013-14 | | 4 | 6 | | |
| | 2014-15 | | 1 | 14 | | |
| | 2015-16 | | 6 | 3 | | |
| B.Sc Computer Sciences | 2011-12 | UG CAP | 20 | 27 | 67 | |
| | 2012-13 | | 23 | 24 | 67 | |
| | 2013-14 | | 20 | 28 | 67 | |
| | 2014-15 | | 15 | 14 | | |
| | 2015-16 | | 18 | 17 | | |
| B.Sc Cyber Forensic | 2014-15 | UG CAP | 11 | 17 | | |
| | 2015-16 | | 11 | 17 | | |



33. Diversity of students 2012-2015

School of Technology & Applied Sciences, Kottayam

| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|--|--|--|---|------------------------------------|
| MCA | 89.6 | 10.34 | Nil | Nil |
| .M.Sc. AE | 93.3 | 6.67 | Nil | Nil |
| M.Sc. CE&NT | 95.4 | Nil | 4.55 | Nil |
| B.Sc. Comp.Sci | HSE | | | 1 student |

School of Technology & Applied Sciences, Edappally

| Name of the Course | % of students from the same state | % of students from other States | % of students from abroad |
|--------------------------|-----------------------------------|---------------------------------|---------------------------|
| B.SC Electronics | 100 | 0 | 0 |
| B.Sc Computer Science | 100 | 0 | 0 |
| M.Sc Applied Electronics | 100 | 0 | 0 |
| M.Sc Computer Science | 100 | 0 | 0 |
| M.C.A | 100 | 0 | 0 |

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.:

- B.Tech - GATE Scores:**
1. Sandhya Alice Varghese
 2. Deepak S.
 3. Harikrishnan P.
 4. Abson Varghese
 5. Bijina V.
 6. Smitha Venugopal

MCA- NET qualified 1. Beena Lawrance



35. Student progression

| Student progression | Percentage against enrolled |
|--|-----------------------------|
| UG to PG | 90% |
| PG to M.Phil. | 5% |
| PG to Ph.D. | 10% |
| Ph.D. to Post-Doctoral | |
| Employed | |
| <input type="checkbox"/> Campus selection | 15% |
| <input type="checkbox"/> Other than campus recruitment | 50% |
| Entrepreneurs | 10% |

36. Diversity of staff

| Percentage of faculty who are graduates | |
|--|-----|
| of the same university | 35% |
| from other universities within the State | 45% |
| from universities from other States | 20% |
| from universities outside the country | Nil |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : **2**

38. Present details of departmental infrastructural facilities with regard to

- a) Library : **16534 books**
- b) Internet facilities for staff and students : **provided internet lab with 50 PC**
- c) Total number of class rooms: **35**
- d) Class rooms with ICT facility : **1**
- e) Students' laboratories : **10+1 workshop**
- f) Research laboratories : **2**

39. List of doctoral, post-doctoral students and Research Associates :

- a) **from the host institution/university : 35 (3 centres)**
- b) **from other institutions/universities :**



40. Number of post graduate students getting financial assistance from the university.
: 85

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

Yes, B.Sc. Cyber Forensic

M.Sc Space Science & Technology

42. Does the department obtain feedback from

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? : Yes, improving the teaching methods. Includes the suggestions in syllabus modification.

b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? : Improvement of teaching methods. Alumni meetings are conducted.

c. Alumni and employers on the programmes offered and how does the department utilize the feedback? Yes, Improvement of teaching methods, conduction of conferences, refresher courses, Development programmes for students.

43. List the distinguished alumni of the department (maximum 10) :

| Sl No. | Name | Current position |
|--------|--------------------------|--|
| 1 | Dittin Andrews | Senior Scientist, CDAC, Bangalore. |
| 2 | Mahesh Balakrishnan | Project Manager, UST Global, California. |
| 3 | Prasad P. | Team Leader, Infosys, Bangalore. |
| 4 | Sankaran Bhatathiripad | Lead Software engineer, Thomson Reuters, New York. |
| 5 | Parameswaran Namboothiri | Scientist C, CDAC, Trivandrum. |
| 6 | Mahesh Mahadevan | Cyber Security Consultant, Sulthanate of Oman |
| 7 | Jyothi Mavila | Senior Project Manager, Microsoft Corporation, Vancour, British Colombia |
| 8 | John Varghese | Manager (International Purchase), Renault Nissan Ltd., Chennai. |
| 9 | Dr. Abhilash Kumar K.R | Rubber Technologist, Dunlop Aircraft Tyres, UK |
| 10 | Dr. Sreethara Sharma | Scientist (R&D), Tata chemicals Ltd., UK |



- 44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts. :**
1. RAPT – 2K15 – National Seminar on Recent Advances in Polymer Technology,
 2. Advances in Polymeric Materials – ‘APM – 2K15’, CYSEC – 2015 – Two day seminar
 3. 2 days workshop on Cyber Security issues and Kali Linux.
 4. 3 days Nature awareness Camps have been conducted in Thekkady, Munnar & Kumarakom.
- 45. List the teaching methods adopted by the faculty for different programmes. :**
Conducting practical, Tutorials, Projects, seminars, group discussions, Symposiums.
- 46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored? Discussion and meeting with students and staff, collecting information from students.**
- 47. Highlight the participation of students and faculty in extension activities. :** Social Service, Nature Club activities.
- 48. Give details of “beyond syllabus scholarly activities” of the department. :** Seminars, workshops, National Service Scheme, Nature Club, Women’s forum.
- 49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. Yes-AICTE**
- 50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied. :** The publications made by the faculty members in several international journals and the successful industry interaction stand testimony to the new knowledge generated by the School.
- 51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department. :**

STRENGTH

- Highly qualified faculty.
- Teaching Department of a State University
- Transparent Governance and Administration
- Significant number of students are being placed on completion of the course.
- Goodwill and reputation



WEAKNESS:

- Limitation of infrastructure
- Self-Financing department and the fees is high.
- Not getting UGC/AICTE funds.
- Formal networking with other institutions

Opportunities

- New programmes in technology and applied sciences
- Alumni Networking for Academic and placement activities
- Enhance research activities through sponsored R&D projects
- Catering all sections of the society

Challenges:

- Lack of permanent faculty.
- Power failure and interrupted supply.
- Upkeep of instruments in full working condition.

52. Future plans of the department.

- Convening conferences in joint collaboration with national and international institutions.
- Commencing new courses in the field of technology and applied sciences.
- To enhance institution / industry interaction and curriculum development.
- Improving the activities of the Placement Cell and Alumni.



SCHOOL OF APPLIED LIFE SCIENCES, CHUTTIPPARA

| 1. | Name of the Department | : | School of Applied Life Sciences | | | | | | | | | | | | | | | | | | | | | | |
|----------------------|--|--------|---|--|--|--|------------|--------|------------------------------|-----------|------|-----|--|----------------------|------|-----|--|------------------|---|---|--|--------|---|---|--|
| 2. | Year of establishment | : | 1995 | | | | | | | | | | | | | | | | | | | | | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | School coming under the Faculty of Science | | | | | | | | | | | | | | | | | | | | | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | P.G., M. Phil | | | | | | | | | | | | | | | | | | | | | | |
| 5. | Interdisciplinary programmes and departments involved | : | No participation with other departments | | | | | | | | | | | | | | | | | | | | | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | No. | | | | | | | | | | | | | | | | | | | | | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | No. | | | | | | | | | | | | | | | | | | | | | | |
| 8. | Examination System | : | Semester (Choice Based Credit and Semester System) | | | | | | | | | | | | | | | | | | | | | | |
| 9. | Participation of the department in the courses offered by other departments | : | No participation with other departments | | | | | | | | | | | | | | | | | | | | | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | : | <table border="1"> <thead> <tr> <th></th> <th>Sanctioned</th> <th>Filled</th> <th>Actual (including CAS & MPS)</th> </tr> </thead> <tbody> <tr> <td>Professor</td> <td>Nil.</td> <td>Nil</td> <td></td> </tr> <tr> <td>Associate Professors</td> <td>Nil.</td> <td>Nil</td> <td></td> </tr> <tr> <td>Asst. Professors</td> <td>1</td> <td>1</td> <td></td> </tr> <tr> <td>Others</td> <td>-</td> <td>-</td> <td></td> </tr> </tbody> </table> | | | | Sanctioned | Filled | Actual (including CAS & MPS) | Professor | Nil. | Nil | | Associate Professors | Nil. | Nil | | Asst. Professors | 1 | 1 | | Others | - | - | |
| | Sanctioned | Filled | Actual (including CAS & MPS) | | | | | | | | | | | | | | | | | | | | | | |
| Professor | Nil. | Nil | | | | | | | | | | | | | | | | | | | | | | | |
| Associate Professors | Nil. | Nil | | | | | | | | | | | | | | | | | | | | | | | |
| Asst. Professors | 1 | 1 | | | | | | | | | | | | | | | | | | | | | | | |
| Others | - | - | | | | | | | | | | | | | | | | | | | | | | | |



11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

| Name | Qualification | Designation | Specialization | No. of Years of Experience |
|---|----------------|---|---------------------------------|----------------------------|
| Dr.A.Chandran | M.Sc.,Ph.D. | Director i/c (Asst.Prof.on Contract) | Aquatic Biology and Fisheries | 30 years |
| Prof. Koshy Thomas (Rtd.Professor) | M.Sc.,M.Phil. | Lecturer(On Contract) | Aquatic Biology and Fisheries | 30 Years |
| Prof.Rosy Issac Nallengara (Rtd.Prof.) | M.Sc., M.Phil. | Guest Lecturer | Aquatic Biology and Fisheries | 30 Years |
| Ms.Reshma Prabhakar | M.Sc., M.Phil. | Lecturer (on Contract) | Fishery Biology and Aquaculture | 4 Years |
| Ms. Remya R.Raj | M.Sc.,M.Phil | Guest Lecturer | Fishery Biology and Aquaculture | 4 Years |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors

- No visiting faculty

13. Percentage of classes taken by temporary faculty – programme-wise information

–All theory and practical classes are handled by contract and guest faculty

14. Programme-wise Student Teacher Ratio

| Academic year | Course | Student: teacher |
|---------------|--------|------------------|
| 2011-12 | M.Sc | 8:1 |
| | M.Phil | 6:1 |
| 2012-13 | M.Sc | 5:1 |
| | M.Phil | 6:1 |
| 2013-14 | M.Sc | 8:1 |
| | M.Phil | 4:1 |
| 2014-15 | M.Sc | 10:1 |
| | M.Phil | 6:1 |
| 2015-16 | M.Sc | 10:1 |
| | M.Phil | 6:1 |



15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

| Academic year | Academic | | Administrative | |
|---------------|------------|--------|----------------|--------|
| | Sanctioned | Filled | Sanctioned | filled |
| 2011-12 | 2 | 2 | 4 | 4 |
| 2012-13 | 2 | 2 | 4 | 4 |
| 2013-14 | 0 | 0 | 4 | 3 |
| 2014-15 | 0 | 0 | 4 | 3 |
| 2015-16 | 0 | 0 | 4 | 2 |

16. Research thrust areas as recognized by major funding agencies: Nil

17. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received. : No projects funded by national or International agencies.

18. Inter-institutional collaborative projects and associated grants received : Nil

19. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received. Not applicable.

20. Research Centre /facility recognized by: Nil

21. Special research laboratories sponsored by/created by industry or corporate bodies: Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-----------|
| 1. | Refereed Journal Publications | 07 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | Nil |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 07 |



23. **Details of patents and income generated:** Nil
24. **Areas of consultancy and income generated:** So far no income generating consultancy services have been undertaken by the department
25. **Faculty selected nationally / internationally to visit other laboratories / institutions/industries in India and abroad:** Nil
26. **Faculty as members in**
a) National committees b) International Committees c) Editorial Boards- Nil
27. **Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs):** Nil
28. **Student projects**
- i. Percentage of students who have done in-house projects including inter-departmental projects: 95%
 - ii. Percentage of students doing projects in collaboration with other universities / industry / institute: 5%
29. **Awards / Recognitions received by faculty and students:** Nil.
30. **Seminars/ Conferences/Workshops organized & the source of funding**
a) National b) International: Nil
31. **Code of ethics for research followed by the departments:**
Plagiarism software is being used to monitor the research articles and thesis.
32. **Student profile programme/course wise:**

| Academic year | Course | Applications received | Selected | Enrolled | | Pass percentage |
|---------------|--------|-----------------------|----------|----------|----|-----------------|
| | | | | *M | *F | |
| 2011-12 | M.Sc | 25 | 25 | 02 | 18 | 100 |
| | M.Phil | 06 | 06 | 0 | 06 | 100 |
| 2012-13 | M.Sc | 27 | 25 | 1 | 13 | 100 |
| | M.Phil | 07 | 06 | 0 | 6 | 100 |

*M=Male; *F=Female



33. Diversity of Students.

| Academic year | Course | % of students from the same state | % of students from other states | % of students from abroad |
|---------------|--------|-----------------------------------|---------------------------------|---------------------------|
| 2011-12 | M.Sc | 100 | 0 | 0 |
| | M.Phil | 100 | 0 | 0 |
| 2012-13 | M.Sc | 100 | 0 | 0 |
| | M.Phil | 100 | 0 | 0 |
| 2013-14 | M.Sc | 100 | 0 | 0 |
| | M.Phil | 100 | 0 | 0 |
| 2014-15 | M.Sc | 100 | 0 | 0 |
| | M.Phil | 100 | 0 | 0 |
| 2015-16 | M.Sc | 100 | 0 | 0 |
| | M.Phil | 100 | 0 | 0 |

34. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

NET/SET: 10

35. Student progression:

| Student Progression | Against % enrolled |
|--|--------------------|
| PG to M.Phil. | 5-10% |
| PG to Ph.D. | 5% |
| Ph.D. to Post -Doctoral | 2% |
| Employed 1.Campus Selection 2.Other than Campus Recruitment | Nil. 20-30% |
| Entrepreneurship/Self Employment | 10% |

36. Diversity of staff:

| Percentage of faculty who are graduates | |
|--|-----|
| of the same university | 40% |
| from other universities within the State | 60% |
| from universities from other States | Nil |
| from universities outside the country | Nil |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: Nil



38. Details of Infrastructural facilities

- a) **Library:**
Adequate library facilities are available for both staff and students of the department
- a) **Internet facilities for staff and students.**
Basic internet facility is available within the department. Both the staff and students have free access to this facility provided in the computer room of the department
- b) **Class rooms with ICT facility.**
None of the class rooms in the department have ICT facility
- c) **Laboratories.**
Two functional laboratories, one for biological and physiological works, and the other for microbiological studies, are available in the department

39. List of doctoral, post-doctoral students and Research Associates: Nil

40. Number of post graduate students getting financial assistance from the university

| Academic year | Course | No. of students getting Financial assistance |
|---------------|--------|--|
| 2011-12 | M.Sc | 22 |
| | M.Phil | 05 |
| 2012-13 | M.Sc | 14 |
| | M.Phil | 05 |
| 2013-14 | M.Sc | 18 |
| | M.Phil | 03 |
| 2014-15 | M.Sc | 28 |
| | M.Phil | 02 |
| 2015-16 | M.Sc | 31 |
| | M.Phil | 02 |

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. :

After discussing with experts and stakeholders in the area

42. Does the department obtain feedback from

- Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?** The Faculty Council analyses the feedback and makes necessary changes and additions.
- Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?** collect the feedback from students and discussed in the faculty council and take measures to resolve
- Alumni and employers on the programmes offered and how does the department utilize the feedback?**

We collect the suggestions from the Alumni of this college to revise the curriculum.



43. List the distinguished alumni of the department:

| Sl No. | Name | Current Position |
|--------|----------------------------|--|
| 1. | Dr.T.G.Manojkumar, | Asst. Director, Marine Products Export Development Authority, Kochi |
| 2. | Dr. P.S.Sivaprasad, | Society for Assistance to fisher women Dept. of Fisheries, Govt. of Kerala |
| 3. | Dr.K.Jayalekshmi | Asst.Professor, Kerala University of Fisheries and Oceans, Kochi |
| 4. | Dr.J.Jean Jose | Asst.Professor,Dept.Zoology, S.G.College, Kottarakkara, Kerala |
| 5. | Dr.Eapen Jacob | Asst.Professor, Dept.Zoology, Women's College ,Trivandrum |
| 6. | Dr.B.O.Prasad | Asst.Professor, Dept. of Zoology. ,Kannur University |
| 7. | .Dr.Shilly Elizabeth David | Asst.Professor, Dept of Zoology, Mar Thoma College, Tiruvalla |

44. Give details on student enrichment programmes (special lectures / workshops / Seminar) with external experts

A series of talks and lectures by experts in the field of fisheries and aquaculture are organized to make the students aware of the latest developments in fisheries in general and Aquaculture, in particular.

45. List the teaching methods adopted by the faculty for different programmes:

- Lectures and lab works
- Power-point Presentations
- Demonstrations through models and experiments.
- Homework Assignments
- Seminars and Projects.
- Case-studies on related topics

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored:

A committee consisting of the teaching faculty of the Institution meet regularly to monitor the progress of the Institution based on the outcome of learning and teaching processes, as well as the infrastructure developments of the Institution.

47. Highlight the participation of students and faculty in extension activities:

- a) Active participation in various environmental issues
- b) Involvement in blood donation programmes
- c) Participation in the transfer of aquaculture technology to the rural public



48. Give details of “beyond syllabus scholarly activities” of the department:

The students and the faculty of the actively participate in all the exhibitions conducted by the Dept. of Fisheries ,Govt. of Kerala, on aquaculture ,through which the students transfer to the common people the much needed information relating to fish keeping, Aquaculture, and Aquaponics. Apart from the above, the institution also involves in

- Scholarly lectures by experts.
- Workshops, seminars and discussion meetings.
- Quiz competitions.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details: No

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:

- One of the faculty members has described one new species of fish *Olyra* from Kerala.
- Contributed much information about the osteological features of cyprinid fishes from the Western Ghats, Kerala.
- Much knowledge generated on study of fish systematic using the modern taxonomic tool Geometric morphometry.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:

STRENGTHS

- All courses are offered with full strength of students.
- All faculty with Teaching and Research experience.
- Highly interactive Alumni.
- Recognition of the course from PSC, Govt. of Kerala
- Observation of auspicious days with full co-operation and participation of students guided by the faculty

WEAKNESS

- Insufficient infrastructure.
- No full-fledged aquaculture wet lab, live feed culture lab and bio-chemistry (Fish Technology) lab.
- No hostel facility for girl students.
- Less number of research journals in the library.
- No smart class rooms.

OPPORTUNITIES

- Institute provides ample opportunities for the study of Inland fishery resources of the Western Ghats, Kerala
- Major projects on reservoir fishes, hill stream fishes etc. of the Western Ghats can be undertaken.



- Development of the inland fishery sector in Kerala through the outcome of research projects, and would create much employment opportunities for students.
- Excellent opportunity to study of culture and management of indigenous fresh water ornamental fishes of Kerala
- Excellent opportunity to learn about other branches of life science.

CHALLENGES

- Lack of permanent faculty.
- There are no funded research projects.
- No approved research guide nor Ph.D. programme.
- Keeping students focused in the face of increasing competition in every field.
- Providing useful career guidance to students.

52. Future plans of the department.

- Conduct of short-term manpower training and transfer of technology programmes.
- Establishment of a repository of fresh water fishes of the Western Ghats (a reference centre for Fish Taxonomy).
- Domestication of indigenous ornamental fishes of Kerala.
- To undertake specific research programmes in collaboration with National Fisheries Research Institutes.
- To bring SALS the status of a recognized Fisheries Research Institute under Mahatma Gandhi University.



SCHOOL OF MEDICAL EDUCATION, GANDHINAGAR

| | | | |
|----|---|---|--|
| 1. | Name of the Department | : | School of Medical Education, Mahatma Gandhi University, Gandhinagar |
| 2. | Year of establishment | : | 1983 |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | <ul style="list-style-type: none"> • BSc Nursing, • BSc MLT • BPT • BMRT • BSc Medical Microbiology • B Pharm • Master of Hospital Administration • Master of Public Health • MSc Medical Anatomy • MSc Medical Documentation • MSc Biomedical Instrumentation • MSc Medical Biochemistry • MSc Medical Microbiology • M Pharm • MPT. |
| 5. | Interdisciplinary programmes and departments involved | : | Nil |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc. | : | Nil |
| 7. | Details of programmes discontinued, if any, with reasons | : | MSc Nursing. Withdrawal of sanction of the regulatory body |
| 8. | Examination System | : | Annual and semester wise |
| 9. | Participation of the department in the courses offered by other departments | : | Nil |



| | | | | |
|-----|---|----------------------|------------|--------|
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | | Sanctioned | Filled |
| | | Principals | 6 | 7 |
| | | Professors | 8 | 0 |
| | | Associate Professors | 8 | 7 |
| | | Assistant Professors | 20 | 11 |
| | | Lecturers | 54 | 84 |

11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

INSTITUTE OF NURSING EDUCATION, GANDHINAGAR.

| Sl.No | Name | Qualification | Designation | Specialty |
|-------|---------------------------|---------------|-------------------------|--|
| 1 | Prof. Celine Thomas | M Sc Nursing | Professor cum Principal | Obstetrical and Gynaecological Nursing |
| 2 | Mrs. Sherlymol Antomy | M Sc Nursing | Associate Professor | Obstetrical and Gynaecological Nursing |
| 3 | Mrs.Mariamamma P Varghese | M Sc Nursing | Assistant Professor | Mental Health Nursing |
| 4 | Mrs. Pushkala N.R | M Sc Nursing | Assistant Professor | Mental Health Nursing |
| 5 | Mrs Treesamma Peter | M Sc Nursing | Lecturer | Medical Surgical Nursing |
| 6 | Mrs. Simmy M Varkey | M Sc Nursing | Lecturer | Medical Surgical Nursing |
| 7 | Mr. Biju.S | M Sc Nursing | Lecturer | Medical Surgical Nursing |
| 8 | Mrs. Lekshmipriya P.S | M Sc Nursing | Lecturer | Obstetrical and Gynaecological Nursing |
| 9 | Mrs. Sapthami R.S | M Sc Nursing | Lecturer | Community Health Nursing |



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|----|-----------------------|--------------|--------------------------|--|
| 10 | Mrs. Sreeja Mohan | M Sc Nursing | Lecturer | Child Health Nursing |
| 11 | Mrs. Renjini V Thampy | M Sc Nursing | Lecturer | Obstetrical and Gynaecological Nursing |
| 12 | Mrs.Siji George | M Sc Nursing | Lecturer | Child Health Nursing |
| 13 | Mrs.Andrea Brodin | M Sc Nursing | Lecturer | Medical Surgical Nursing |
| 14 | Mrs.Hajira Beevi | M Sc Nursing | Lecturer | Community Health Nursing |
| 15 | Mrs.Alinta P Thomas | M Sc Nursing | Lecturer | Child Health Nursing |
| 16 | Mrs.Rosemol M A | M Sc Nursing | Lecturer | Obstetrical and Gynaecological Nursing |
| 17 | Haritha Krishnan | M Sc Nursing | Lecturer | Child Health Nursing |
| 18 | Mrs. Lucy Abraham | B Sc Nursing | Full Time Guest Lecturer | - |
| 19 | Mrs. Kavitha.K | B Sc Nursing | Full Time Guest Lecturer | - |
| 20 | Mrs. Neethu Joslin | B Sc Nursing | Full Time Guest Lecturer | - |
| 21 | Mrs. Jossy John | B Sc Nursing | Full Time Guest Lecturer | - |

INSTITUTE OF NURSING EDUCATION, MANIMALAKUNNU.

| Sl.No | Name | Qualification | Designation | Specialty |
|-------|--------------------|-------------------------|--------------|--------------------------|
| 1 | Ms. Reny Thomas | Professor cum Principal | M.Sc Nursing | Medical Surgical Nursing |
| 2 | Ms. Anu N Baby | Asso. Professor | M.Sc Nursing | Child Health Nursing |
| 3 | Ms. Sheena P.V | Assistant Professor | M.Sc Nursing | Child Health Nursing |
| 4 | Ms. Sumi Zacharias | Lecturer | M.Sc Nursing | Medical Surgical Nursing |



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|----|----------------------------|-----------------------------------|--------------|---------------------------------------|
| 5 | Mr. Saji Joseph | Lecturer | M.Sc Nursing | Mental Health Nursing |
| 6 | Ms. Raji Paulose | Lecturer | M.Sc Nursing | Community Health Nursing |
| 7 | Ms. Daliyamo.M.A | Lecturer | M.Sc Nursing | Medical Surgical Nursing |
| 8 | Ms. Nirmala V | Lecturer | M.Sc Nursing | Community Health Nursing |
| 9 | Ms. Sheeba C N | Lecturer | M.Sc Nursing | Child Health Nursing |
| 10 | Ms. Abhitha Karun | Lecturer | M.Sc Nursing | Child Health Nursing |
| 11 | Ms. Remya Romina Alexander | Lecturer | M.Sc Nursing | Child Health Nursing |
| 12 | Ms. Sini James | Lecturer | M.Sc Nursing | Obstetrics and Gynaecological Nursing |
| 13 | Ms. Elsa Johnson | Lecturer | M.Sc Nursing | Obstetrics and Gynaecological Nursing |
| 14 | Ms. Soumya Krishnan | Lecturer | M.Sc Nursing | Child Health Nursing |
| 15 | Ms. Jinis Jose | Lecturer | M.Sc Nursing | Medical Surgical Nursing |
| 16 | Ms. Anitha N.V | Full time internal guest lecturer | B.Sc Nursing | |
| 17 | Ms. Shimy James | Full time internal guest lecturer | B.Sc Nursing | |


INSTITUTE OF NURSING EDUCATION PATHANAMTHITTA

| Sl.No | Name | Qualification | Designation | Specialty |
|-------|-------------------------|---------------------------------|--------------|--------------------------|
| 1 | Mr. Abdul Salam .N | Professor cum Principal | M.Sc Nursing | Community Health Nursing |
| 2 | Mrs. Jomy john | Asso. Professor | M.Sc Nursing | Child Health Nursing |
| 3 | Mrs. Maya P.K | Asst. Professor | M.Sc Nursing | Mental Health Nursing |
| 4 | Mrs. Thushra .G | Lecturer | M.Sc Nursing | Community Health Nursing |
| 5 | Mrs. Ashitha Chandran | Lecturer | M.Sc Nursing | Medical Surgical Nursing |
| 6 | Mrs. Siyana .M | Lecturer | M.Sc Nursing | OBG |
| 7 | Ms. Rani Meeran | Lecturer | M.Sc Nursing | OBG |
| 8 | Ms. Preethy Mary Mathew | Lecturer | M.Sc Nursing | Medical Surgical Nursing |
| 9 | Ms. Mini Mathew | Lecturer | M.Sc Nursing | Medical Surgical Nursing |
| 10 | Ms. Lera Ravi | Lecturer | M.Sc Nursing | OBG |
| 11 | Ms. Renjini Chandran | Lecturer | M.Sc Nursing | OBG |
| 12 | Ms. Nimmy Thadathil | Lecturer | M.Sc Nursing | Child Health Nursing |
| 13 | Ms. Elizabeth George | Full Time Intenal Guest faculty | B.sc Nursing | |
| 14 | Ms. Vishnu Priya | “ | B.sc Nursing | |
| 15 | Ms. Anju .A | “ | B.sc Nursing | |



INSTITUTE OF NURSING EDUCATION NEDUMKANDAM

| Sl.No | Name | Qualification | Designation | Specialty |
|-------|-------------------------|---------------|--------------------------|--------------------------|
| 1 | Mr. Raja.A | M.Sc Nursing | Professor cum Principal | Mental Health Nursing |
| 2 | Mrs. Sampath R | M.Sc Nursing | Asso. Professor | Child Health Nursing |
| 3 | Mrs. Ragina .J | M.Sc Nursing | Lecturer | OBG |
| 4 | Mrs. Sajini Joy | M.Sc Nursing | Lecturer | Child Health Nursing |
| 5 | Mrs. Dhanya M Nair | PhD (Nursing) | Lecturer | Child Health Nursing |
| 6 | Mrs. Sudha .R | M.Sc Nursing | Lecturer | Medical Surgical Nursing |
| 7 | Mr. Jinto Joy | M.Sc Nursing | Lecturer | Mental Health Nursing |
| 8 | Ms. Ritty Thankachan | M.Sc Nursing | Lecturer | Medical Surgical Nursing |
| 9 | Mr. Jony Thomas | M.Sc Nursing | Lecturer | Community Health Nursing |
| 10 | Mrs. Shaiby Augustin | M.Sc Nursing | Lecturer | Community Health Nursing |
| 11 | Ms. Jyoyhilekshmi .S | M.Sc Nursing | Lecturer | Medical Surgical Nursing |
| 12 | Ms. Liya Sarah George | M.Sc Nursing | Lecturer | Child Health Nursing |
| 13 | Ms. Sreekutty Divakaran | M.Sc Nursing | Lecturer | Community Health Nursing |
| 14 | Mr. Saneesh A Thomas | M.Sc Nursing | Lecturer | Mental Health Nursing |
| 15 | Ms. Priyanka P | M.Sc Nursing | Lecturer | OBG |
| 16 | Mrs. Remyamol P S | M.Sc Nursing | Lecturer | Medical Surgical Nursing |
| 17 | Ms. Jilu | B.Sc Nursing | Full Time Internal Guest | |



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|----|-----------------------|-----------------|---------|--|
| | Maria Jose | | Faculty | |
| 18 | Ms. Roshni Varghese | B.Sc Nursing | “ | |
| 19 | Mrs. Mary George | Post Basic B.Sc | “ | |
| 20 | Mrs. Asha Gopal | B.Sc Nursing | “ | |
| 21 | Mrs. Shreelaya Thomas | B.Sc Nursing | “ | |
| 22 | Ms. Vidya .M | B.Sc Nursing | “ | |

INSTITUTE OF NURSING EDUCATION, PUTHUPPALLY

| Sl. No. | Name | Designation | Qualification & Subject |
|---------|----------------------|--------------------------------|--|
| 01 | Prof. Pushpa R. | Professor Cum Principal | M.Sc Nursing (Community Health Nursing) |
| 02 | Yamuna Jose | Asso. Prof. cum Vice-Principal | M.Sc. Nursing Community Health Nursing |
| 03 | Mrs. Reethamma N.T. | Asst. Professor | M.Sc Nursing (Mental Health Nursing) |
| 04 | Mrs.Sindhu Mathew | Assistant Professor | M.Sc Nursing (Child Health Nsg.) |
| 05 | Mrs.Latha P.S. | Sr. Lecturer | M.Sc. Nursing Medical |
| 06 | Mrs. Sonsy Mathew | Lecturer | M.Sc Nursing (Medical Surgical Nursing) |
| 07 | Mrs.Shiby Mathew | Sr. Lecturer | M.Sc. Nursing (Community Health Nsg.) |
| 08 | Mrs. Suma C | Sr. Lecturer | M.Sc Nursing (Mental Health Nursing) |
| 09 | Mrs. Nisha Surendran | Lecturer | M.Sc (Nsg.) |



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|----|------------------------------------|---|--|
| | | | OBG Nursing |
| 10 | Mrs.Shazia Noorin Bin Syed Mustafa | Lecturer | M.Sc Nursing (Medical Surgical Nursing) |
| 11 | Mrs.Rajeswari G | Lecturer | M.Sc. Nursing (Community Health Nsg.) |
| 12 | Ms. Remyamol P.S. | Lecturer | M.Sc Nursing (Medical Surgical Nursing) |
| 13 | Mrs. Jincy Abraham | Lecturer | M.Sc Nsg. (OBG) |
| 14 | Mrs. Mariya Jose | Lecturer | M.Sc Nsg. (OBG) |
| 15 | Mrs.Mittu Mathew | Lecturer | |
| 16 | Mrs. Nisha Jose | Lecturer | M.Sc Nsg. (Medical Surgical Nursing) |
| 17 | Mrs.Jyothi Susan Vargheese | Full time Internal Guest lecturer with PG | M.Sc Nursing (Child Health Nsg.) |
| 18 | Mrs. Moby Sara Mathew | Full time Internal Guest Lecturer | B.Sc Nursing |
| 19 | Mrs. Rejani . M.C. | Full time Internal Guest lecturer | B.Sc Nursing |
| 20 | Mrs. Remya Raj | Full time Internal Guest Lecturer | B.Sc Nursing |
| 21 | Mrs. Lini Viswam | Full time Internal Guest lecturer | B.Sc Nursing |

INSTITUTE OF NURSING EDUCATION, PALA

| Sl No | Name, | Designation | Qualification & Specialty |
|-------|------------------|------------------------|--|
| 1. | Mrs. Regi Thomas | Professor Principal | M.Sc Nursing Child Health Nursing |
| 2. | Mrs. Ambili A | Associate Professor | M.Sc Nursing (Medical Surgical Nursing) |



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| 3. | Mrs. Manju P. Joseph , | Asst. Professor | M.Sc Nursing (Medical Surgical Nursing) |
| 4. | Mrs. Neenu Jose , | Sr. Lecturer | (OBG Nursing)M.Sc Nursing |
| 5. | Mrs. Somy Cyriac , | Sr. Lecturer | M.Sc Nursing (OBG Nursing) |
| 6 | Ms. Diya Mathew | Lecturer on contract | M.Sc Nursing Child Health Nursing |
| 7 | Ms. Anugraha Babu | Lecturer on contract | M.Sc Nursing OBG Nursing |
| 8 | Ms. Honey Zacharias | Lecturer on contract | M.Sc Nursing Community Health Nursing |
| 9 | Ms. Pinku Alphons Joseph | Lecturer on contract | M.Sc Nursing Child Health Nursing |
| 10 | Ms. Riya John | Lecturer on contract | M.Sc Nursing OBG Nursing |
| 11 | Ms. Joicy Joseph | Lecturer on contract | M.Sc Nursing (Medical Surgical Nursing) |
| 12 | Ms. Annamma John | Full time Internal Guest Faculty | B. Sc Nursing |
| 13 | Ms.Alphonsa Jacob | Full time Internal Guest Faculty | B. Sc Nursing |
| 14 | Ms. Lissamma Sebastian | Full time Internal Guest Faculty | B. Sc Nursing |
| 15 | Ms. Ambujam M. B. | Full time Internal Guest Faculty | B. Sc Nursing |
| 16 | Ms. Divya S. | Full time Internal Guest Faculty | B. Sc Nursing |
| 17 | Ms. Bindu R. | Full time Internal | B. Sc Nursing |



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|----|--------------------|-------------------------------------|---------------|
| | | Guest Faculty | |
| 18 | Ms. Harsha Pradeep | Full time Internal Guest Faculty | B. Sc Nursing |
| 19 | Ms. Hima Soman | Full time Internal Guest Faculty | B. Sc Nursing |
| 20 | Ms. Regin Joseph | Full time Internal Guest Faculty | B. Sc Nursing |
| 21 | Ms. Simi K.K. | Full time Internal Guest Faculty | B. Sc Nursing |

DIVISION OF HEALTH MANAGEMENT, GANDHINAGAR

| Sl. No. | Name | Designation | Qualification & Subject |
|---------|-----------------------------|--------------------------------|-------------------------|
| 01 | Mr, Regi Ram S | Assistant Professor and HOD | MHM |
| 02 | Dr. Ann Kavitha Mathew | Lecturer | MPH, PhD |
| 03 | Mr. Shibu Puthenparambil | Lecturer | MPH |
| 04 | Mr. Ranjithkumar K | Lecturer | MHA |
| 05 | Ms. Jinu Jose | Lecturer | MPH |
| 06 | Mr. Siby Thomas | Lecturer | MHA |
| 07 | Ms. Greeshma S | Lecturer | MHA |

DEPARTMENT OF BIOMEDICAL INSTRUMENTATION, GANDHINAGAR

| Sl. No. | Name | Designation | Qualification & Subject |
|---------|-----------------------------|--------------------------------|---|
| 01 | Mr. Nandakumar P.S | Assistant Professor and HOD | MCA |
| 02 | Ms. Sangeetha K. Chinnan | Lecturer | MSc. App. Sc. Biomedical Instrumentation |


DEPARTMENT OF MEDICAL DOCUMENTATION, GANDHINAGAR

| Sl. No. | Name | Designation | Qualification & Subject |
|---------|-----------------------|---------------------------------|-----------------------------------|
| 01 | Ms. Suma V. Madhavan | Assistant Professor and HOD I/c | M. App. Sc. Medical Documentation |
| 02 | Ms. Swapna p. Kumaran | Lecturer | M. App. Sc. Medical Documentation |

DEPARTMENT OF MEDICAL MICROBIOLOGY, GANDHINAGAR

| Sl. No. | Name | Designation | Qualification & Subject |
|---------|----------------------------|--------------------|--|
| 1 | Dr.K. M Joseph | Prof. and H.O.D | MBBS,MD (Microbiology) |
| 2 | Ms.Annamma Cherian | Asst. Professor | MSc. Med.Microbiology |
| 3 | Dr. Shini Zacharia | Asst. Professor | MSc. Med.Microbiology M Phil Microbiology PhD Microbiology |
| 4 | Ms. Binu N | Lecturer | MSc. Med.Microbiology |
| 5 | Dr Asha Peter | Lecturer | MSc. Med.Microbiology PhD Microbiology |
| 6 | Ms Georgeena Mariam George | Lecturer | MSc. Med.Microbiology |
| 7 | Mr Shinu Krishnan | Lecturer | MSc. Med.Microbiology |
| 8 | Asalatha R | Lecturer | MSc. Med.Microbiology |
| 9 | Ms Sajmi Sathar | Lecturer | MSc. Med.Microbiology |
| 10 | Ms Anila Gopal | Lecturer | MSc. Med.Microbiology |
| 11 | Ms Radhika Murali | Lecturer | MSc. Med.Microbiology |



DEPARTMENT OF MEDICAL BIOCHEMISTRY, GANDHINAGAR

| Sl. No. | Name | Designation | Qualification & Subject |
|---------|--------------------|---------------------------------|-----------------------------------|
| 01 | Ms. Sharlet George | Assistant Professor and HOD I/c | MSc Medical Biochemistry |
| 02 | Dr. Sunitha T. K | Lecturer | M. App. Medical Biochemistry, PhD |
| 03 | Shiny Manuel | Lecturer | MSc Medical Biochemistry |
| 04 | Raji K. V | Lecturer | MSc Medical Biochemistry |
| 05 | Aswathy Narayanan | Lecturer | MSc Medical Biochemistry |
| 06 | Athira Prasannan | Lecturer | MSc Medical Biochemistry |
| 07 | Anupama Baby C | Lecturer | M. App. Medical Biochemistry |
| 08 | Sunimol V | Lecturer | MSc Medical Biochemistry |

DEPARTMENT OF MEDICAL ANATOMY, GANDHINAGAR

| Sl. No. | Name | Designation | Qualification & Subject |
|---------|-------------------------|---------------------------------|-------------------------|
| 01 | Dr. Sivaprakash R | Assistant Professor and HOD I/c | BHMS, MHSc CCD |
| 02 | Ms. Ragisha Rajendran | Lecturer | MSc. Anatomy |
| 03 | Ms. Asha K. Appukkuttan | Lecturer | MSc. Anatomy |
| 04 | Ms. Jubeena C. S | Lecturer | MSc. Medical Anatomy |



**DEPARTMENT OF MEDICAL RADIOLOGICAL TECHNOLOGY,
GANDHINAGAR**

| Sl. No. | Name | Designation | Qualification & Subject |
|---------|---------------------|-------------|----------------------------------|
| 01 | Dr Jugan J | HOD | PhD Physics, DRP (BARC Mumbai) |
| 02 | Narayanan N | Lecturer | MSc Mathematics, SLET |
| 03 | Sreeja J | Lecturer | MSc Physics, B.Ed, SET |
| 04 | Rakhi J Babu | Lecturer | BMRT, MA (Sociology) |
| 05 | Premjith K R | Lecturer | BMRT, MHRM |
| 06 | Shabina Shamsudheen | Lecturer | BMRT |
| 07 | Sreejith S V | Lecturer | BMRT |

DEPARTMENT OF PHYSIOTHERAPY, GANDHINAGAR

| Sl. No. | Name | Designation | Qualification & Subject |
|---------|------------------------------|---------------------------------|---|
| 01 | Ms. Priya Accal Thomas | Assistant Professor and HOD I/c | MPT – Cardio |
| 02 | Ms. Resna S | Asst. Professor | BPT |
| 03 | Mr. Jince Augustine | Asst. professor | MPT –Musculoskeletal disorders and sports physiotherapy |
| 04 | Ms. Shyni M | Lecturer | MPT – Community Rehabilitation |
| 05 | Mr. Albeni I.S | Lecturer | MPT – Orthopaedics |
| 06 | Ms. Manjula Sukumari Noonae | Lecturer | MPT – Neuro |
| 07 | Mr. Deepu C. B | Lecturer | MPT – Ortho, M.Phil – Disability |
| 08 | Ms. Ansu Riya George | Lecturer | MPT – Community Rehabilitation |
| 09 | Ms. Prathibha I. Janardhanan | Lecturer | MPT – Neuro |



DEPARTMENT OF PHYSIOTHERAPY, ANGAMALY

| Sl. No. | Name | Designation | Qualification & Subject |
|---------|----------------------|---------------------------------|---------------------------|
| 01 | Mr. Sanil Raj P.R | Assistant Professor and HOD I/c | MPT-Neuro |
| 02 | Ms. Kochu Rani Jacob | Assistant Professor | MPT-Orthopaedics |
| 03 | Ms. Ancy Paul | Assistant Professor | MPT-Paediatrics |
| 04 | Ms. Bini Sebastian | Lecturer | BPT |
| 05 | Ms. Binitta Cherian | Lecturer | BPT |
| 06 | Mr. Sudheep K | Lecturer | MPT-Advanced Orthopaedics |
| 07 | Mr. Sujith S | Lecturer | MPT - Orthopaedics |

DEPARTMENT OF MLT, GANDHINAGAR

| Sl. No. | Name | Designation | Qualification & Subject |
|---------|--------------------------|---------------------------------|-------------------------|
| 01 | Ms. Sagi TM | Assistant Professor and HOD I/c | MSc MLT |
| 02 | Ms. Anu George | Assistant Professor | BSc MLT |
| 03 | Ms. Soumya P.V | Lecturer | BSc MLT |
| 04 | Ms. Seena MP | Lecturer | BSc MLT |
| 05 | Ms. Jyothishna Dasan | Lecturer | BSc MLT |
| 06 | Ms. Reenu Suja Kuriakose | Lecturer | BSc MLT |

DEPARTMENT OF MLT, PUTHUPPALLY

| Sl. No. | Name | Designation | Qualification & Subject |
|---------|-----------------|---------------------------------|----------------------------------|
| 01 | Suja Mathews | Assistant Professor and HOD I/c | MSc MLT Clinical Biochemistry |
| 02 | Biju K | Assistant Professor | MSc MLT (Distance) BSc MLT |
| 03 | Sureshkumar K S | Assistant Professor | MSc MLT Clinical Biochemistry |
| 04 | Raji Lal | Lecturer | BSc MLT |
| 05 | Rajani U | Lecturer | BSc MLT |



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|----|-----------------------|----------|-------------------------|
| 06 | Maneesha Susan Mathew | Lecturer | BSc MLT |
| 07 | Sabitha S | Lecturer | MSc MLT Biochemistry |
| 08 | Sheeba Jasmine K | Lecturer | MSc MLT Microbiology |

DEPARTMENT OF MLT, ANGAMALY

| Sl. No. | Name | Designation | Qualification & Subject |
|---------|-------------------------|-----------------------------|--------------------------|
| 01 | Ms. Rani Sreedharan | Assistant Professor and HOD | MSc Medical Microbiology |
| 02 | Ms. Maya K. Mathew | Assistant Professor | MSc MLT |
| 03 | Ms. Shyleja S | Lecturer | BSc MLT |
| 04 | Ms. Soumya Mol ND | Lecturer | BSc MLT |
| 05 | Ms. Vrinda K.P | Lecturer | BSc MLT |
| 06 | Ms. Smitha Sasidharan V | Lecturer | BSc MLT |

DEPARTMENT OF MLT, MANIMALAKUNNU

| Sl. No. | Name | Designation | Qualification & Subject |
|---------|---------------------|---------------------------------|-------------------------|
| 01 | Mr. Prince Thomas | Assistant Professor and HOD I/c | MSc MLT |
| 02 | Ms. Ajitha Mathew | Lecturer | BSc MLT |
| 03 | Ms. Swapna Lukose | Lecturer | BSc MLT |
| 04 | Ms. Soniya Mohandas | Lecturer | MSc MLT |



DEPARTMENT OF PHYSIOLOGY AND NUTRITION, GANDHINAGAR

| Sl. No. | Name | Designation | Qualification & Subject |
|---------|-----------------------------|---------------------------------|--------------------------|
| 01 | Ms. Saina Thomas | Lecturer and Course coordinator | MSc Home Science, M Phil |
| 02 | Dr. Manjusha G | Lecturer | BHMS |
| 03 | Dr. Anju Antony | Lecturer | BHMS |
| 04 | Dr. R. Rakesh | Lecturer | BHMS |
| 05 | Ms. Chitra Prasad | Lecturer | MSc. Medical Physiology |
| 06 | MS. Vineetha Merin Varghese | Lecturer | MSc. Medical Physiology |

DEPARTMENT OF PHARMACEUTICAL SCIENCE, PUTHUPPALLY

| Sl. No | Name | Designation | Educational Qualification | Specialization |
|--------|-----------------------|--------------------------------|---------------------------|--------------------------|
| 1 | Mr. P. Sri Ganesan | Asst. Professor, Principal i/c | M. Pharm | Pharmaceutics |
| 2. | Dr. Krishna Kumar K R | Associate Professor | M. Pharm, PhD | Pharmaceutical Chemistry |
| 3 | Mr. A. J. Chacko | Asst. Professor | M. Pharm | Pharmaceutics |
| 4 | Dr. Sibi. P. I | Asst. Professor | M. Pharm, PhD | Pharmacology |
| 5 | Mr. Sudhir M R | Senior Lecturer | M. Pharm | Pharmaceutics |
| 6 | Mr. Jayaprakash A P | Senior Lecturer | M. Pharm | Pharmaceutical Chemistry |
| 7 | Mr. Pramod C | Senior Lecturer | M. Pharm | Pharmacy Practice |
| 8 | Mr. Jessy Jacob | Senior Lecturer | M. Pharm | Pharmaceutical Chemistry |
| 9 | Mrs. Bindu. K | Senior Lecturer | M. Pharm | Pharmaceutics |
| 10 | Mr. Beena Thomas | Senior Lecturer | M. Pharm | Pharmaceutical Chemistry |
| 11 | Mr. Paul Jacob | Senior Lecturer | M. Pharm | Pharmaceutical Analysis |



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|----|---------------------------|-----------------------------------|----------|--------------------------|
| 12 | Mr. Sujesh. M | Senior Lecturer | M. Pharm | Pharmacology |
| 13 | Mrs. Elizabeth Abraham. P | Lecturer | M. Pharm | Pharmacology |
| 14 | Mr. Shan. P. Mohammed | Full time Internal Guest Lecturer | M. Pharm | Pharmacology |
| 15 | Mr. Neema George | Full time Internal Guest Lecturer | M. Pharm | Pharmaceutics |
| 16 | Mr. Vijayalakshmi N. J | Full time Internal Guest Lecturer | M. Pharm | Pharmacognosy |
| 17 | Mr. Arun Raj | Full time Internal Guest Lecturer | M. Pharm | Pharmaceutics |
| 18 | Mrs. Anjana T. S | Full time Internal Guest Lecturer | M. Pharm | Pharmaceutical Chemistry |

DEPARTMENT OF PHARMACEUTICAL SCIENCE, CHERUVANDOOR

| SL. No | Name | Designation | Educational Qualification | Specialization |
|--------|----------------------|-------------------------|---|--|
| 1 | Dr. Jyoti Harindran | Principal and Professor | M. Pharm MS(UK) PGDBM, PhD | Pharmacology, plant medicine, Pharmaceutical Sciences |
| 2 | Dr, Anil Kumar N | Asst professor | M. Pharm, PhD | Pharmaceutics |
| 3 | Mrs.Bobby S. prasasd | Senior Lecturer | M. Pharm, (PhD(Thesis Submitted M.G.University) | Pharmaceutical Chemistry |
| 4 | Mr.Sajan Jose | Senior Lecturer | M. Pharm, PhD (submitted), M.G.University | Pharmaceutics |
| 5 | Mrs. Shakeela Yusuf | Senior Lecturer | M. Pharm, | Pharmaceutical Chemistry |
| 6 | Dr. Cinu Thomas A | Senior Lecturer | M. Pharm,PhD | Pharmaceutical Chemistry |
| 7 | Mrs.Bindu A.R | Senior Lecturer | M.Pharm | Pharmacognosy |
| 8 | Mrs. Litty Joseph | Senior Lecturer | M. Pharm | Pharmacology |
| 9. | Mr. Jayachandran T | Senior Lecturer | M.Pharm | Pharmacology |



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|-----|-----------------------------|-----------------------------------|--------------------------|--------------------------|
| 10 | Dr.Veena R | Senior Lecturer | M. Pharm PhD | Pharmacy Practice |
| 11. | Dr.Abdul Vahab A | Senior Lecturer | M Pharm PhD | Pharmacology |
| 12. | Mrs.Ashwathi K.S | Full time Internal Guest Lecturer | M.Pharm- | Pharmaceutics |
| 13 | Dr. Beena Bridget Kuriakose | Full time Internal Guest Lecturer | M.Pharm PhD | Pharmacognosy |
| 14 | Mrs. Anjana Abraham | Full time Internal Guest Lecturer | M.Pharm | Pharmacy Practice |
| 15 | Mrs. Mary Sheeja T.L. | Full time Internal Guest Lecturer | M.Pharm | pharmaceutical Chemistry |
| 16 | Mrs.Sereena Ismail | Full time Internal Guest Lecturer | M.Pharm | Pharmaceutics |
| 17 | Mrs. Smitha John | Full time Internal Guest Lecturer | M.Pharm Pharmaceutics | Pharmaceutics |
| 18 | Mr. SharathSasikumar | Full time Internal Guest Lecturer | M.Pharm | pharmaceutical Chemistry |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors: 60
13. Percentage of classes taken by temporary faculty – programme-wise information:
All are temporary faculties
14. Programme-wise Student Teacher Ratio: 10:1
15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual : 40
16. Research thrust areas as recognized by major funding agencies : Nil



17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received:1

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration b) International collaboration : Nil

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received: Nil

20. Research facility / centre with

- State recognition
- National recognition
- International recognition

21. Special research laboratories sponsored by / created by industry or corporate bodies: Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|-----------|
| 1. | Refereed Journal Publications | 15 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | Nil |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 15 |

23. Details of patents and income generated : Nil

24. Areas of consultancy and income generated: NA



25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad : Nil

26. Faculty serving in

- a) National committees b) International committees c) Editorial Boards d) any other
- b) (please specify) : Nil

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).
- NA

28. Student projects

- Percentage of students who have done in-house projects including inter-departmental /programme
- Nil
- Percentage of students doing projects in collaboration with other universities / industry / institute
- Nil

29. Awards / recognitions received at the national and international level by

- Faculty
- Doctoral / post-doctoral fellows
- Students

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

a) National: 2

b).International:

31. Code of ethics for research followed by the departments : NA



32. Student profile programme-wise:

| Name of the Course/programme (refer question no. 4) | Applications received | Selected | Enrolled | | Pass percentage |
|---|-----------------------|----------|----------|-----|-----------------|
| | | | *M | *F | |
| BSc Nursing | 3000 | 300 | 15 | 285 | Above 90% |
| BSc MLT | | 160 | 24 | 136 | Above 90% |
| BPT | | 80 | 20 | 60 | Above 80% |
| B Pharm | | 120 | 30 | 90 | Above 90% |
| BMRT | | 20 | 4 | 16 | Above 90% |
| BSc Medical Microbiology | | 45 | 9 | 36 | Above 90% |
| MHA | 980 | 25 | 4 | 21 | Above 90% |
| MPH | | 20 | 4 | 16 | Above 90% |
| MSc BMI | | 20 | 5 | 15 | Above 90% |
| MSc Medical Documentation | | 25 | 3 | 22 | Above 90% |
| MSc Medical Anatomy | | 10 | 2 | 8 | Above 90% |
| MSc Medical Microbiology | | 10 | 1 | 9 | Above 90% |
| M Pharm | | 30 | 6 | 24 | Above 90% |



33. Diversity of students

| Name of the Course | % of students from the same state | % of students from other States | % of students from abroad |
|---------------------------|-----------------------------------|---------------------------------|---------------------------|
| BSc Nursing | 100 | 0 | 0 |
| BSc MLT | 100 | 0 | 0 |
| BPT | 100 | 0 | 0 |
| BSc MRT | 100 | 0 | 0 |
| BSc Medical Microbiology | 100 | 0 | 0 |
| B Pharm | 100 | 0 | 0 |
| MPharm | 100 | 0 | 0 |
| MHA | 100 | 0 | 0 |
| MPH | 100 | 0 | 0 |
| Msc BMI | 100 | 0 | 0 |
| MSc Medical Documentation | 100 | 0 | 0 |
| MSc Medical Microbiology | 100 | 0 | 0 |
| MSc Medical Biochemistry | 100 | 0 | 0 |
| MSc Medical Anatomy | 100 | 0 | 0 |

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

Students attend these on their own and details are not available.

35. Student progression

| Student progression | Against % enrolled |
|----------------------------------|--------------------|
| UG to PG | 30% |
| PG to M. Phil. | 2% |
| PG to Ph.D. | 2% |
| Ph.D. to Post-Doctoral | Nil 40% |
| Employed | |
| • Campus selection | 30% |
| • Other than campus recruitment | 70% |
| Entrepreneurship/Self-employment | |



36. Diversity of staff : NA

| Student Progression | % against enrolled |
|---|---------------------------|
| UG to PG | |
| PG to M.Phil | |
| PG to Ph.D | |
| Ph.D to Post Doctoral | |
| Employed by Campus Selection | |
| <ul style="list-style-type: none"> • Other than Campus recruitment | |
| <ul style="list-style-type: none"> • Entrepreneurs | |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period Nil

38. Present details of departmental infrastructural facilities with regard to

| | |
|---|------------|
| a) Library | Available, |
| b) Internet facilities for staff and students | Available |
| c) Total number of class rooms | |
| d) Class rooms with ICT facility | Yes |
| e) Students' laboratories | |
| f) Research laboratories | |

39. List of doctoral, post-doctoral students and Research Associates

a) from the host institution/university :NA

b) from other institutions/universities : NA

40. Number of post graduate students getting financial assistance from the university.

During the current year, 241 students from SC/ST/OEC Category are receiving financial assistance from Government under this institution

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. :

The university has pioneered in self-financing education in the health sector way back after lot of studies which resulted in remarkable gains to students and society.



42. Does the department obtain feedback from

- a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?**
- b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?**
- c. Alumni and employers on the programmes offered and how does the department utilize the feedback?**

| | |
|---|--|
| a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? | Yes. The centre makes strenuous efforts to improve the quality of teaching by using the latest electronic gadgets. |
| b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? | Regular feedbacks obtained from students helped fine turning of the programmes. |
| c) Alumni and employers on the programmes offered and how does the department utilize the feedback? | Alumni extend support for the running activities of the School. |

43. List the distinguished alumni of the department (maximum 10)

| Sl No. | Name | Current Position |
|--------|---------------------|---|
| 1. | Sudhish Manilal | Medical Record Officer, KIMS Alshifa Hospital |
| 2. | Mahesh Madhavan | Head of Biomedical Engineering (Health Technology Management), Aster MIMS Hospital, Calicut |
| 3. | Arunkumar | Quality and Process improvement Associate, Access Health International, Vijayawada |
| 4. | Lincy Margaret | Quality Assurance Officer, National Health Mission, Kerala |
| 5. | Shilpa Raju | Medical Record Technician, Muthoot Medical Centre, Kozhencherry |
| 6. | Mobin Mathew | Medical Records Executive at Rajagiri Hospital Kochi |
| 7. | Solaman Joseph | Lecturer in Anatomy at Crescent College of nursing, Alathur |
| 8. | Shamna Shajahan | Microbiologist at KIMS hospital Trivandrum |
| 9. | Jinu Anna John | Medical Record Librarian at Taluk Hospital, Tripunithura |
| 10. | Rinu Susan Varghese | Physiotherapist at St Thomas Hospital ,Chethipuzha |



44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

- Student enrichment programmes such as special lectures, workshops and
- Seminars with external experts are conducted in various subjects

45. List the teaching methods adopted by the faculty for different programmes.

Computer assisted instruction, audio-visual aids, seminars, conferences, project study, epidemiological research etc.

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

The institution periodically assess the

- a) Progress and output its academic programmes
- b) Percentage of students going for higher education as well as employment
- c) Evaluate the success of the training and practical's undertaken by students.

47. Highlight the participation of students and faculty in extension activities.

School health programme, medical camps, health education classes, medical assistance for Sabarimala pilgrims, etc

48. Give details of “beyond syllabus scholarly activities” of the department.

Organising of medical camps, attending of expert lectures, participation in workshops and seminars etc.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.

Nursing Council, Pharmacy Council, Medical Council of India.

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

The publications made by the faculty members in several international journals stand testimony to the new knowledge generated by the college.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

STRENGTH

- Almost all students are being placed on completion of the course.
- Goodwill and reputation.
- Qualified and experienced teachers.
- Tie up with reputed institutions.
- Quality student intake.



WEAKNESS:

- Limitation of infrastructure.
- Lack of own hospital for training.
- Lack of Faculty Improvement Programme.
- Lack of permanent staff in various departments.
- Lack of hostel facility.
- Lack of cooperation from Govt. accreditation bodies.

OPPORTUNITIES:

- High demand of qualified staff in health sector within the country and abroad.
- Mushroom growth of hospitals and public health projects

CHALLENGES:

- Competition from private sector.
- Lack of own hospital for training.
- Lesser number of permanent teachers.
- Lack of international students and twinning programmes.

52. Future plans of the department.

- To start MSc MLT and MSc MRT courses
- To start Pharm-D course
- To start Executive MHA and Executive MPH courses.
- To introduce Diploma/certificate courses for working class people in subjects to health care, biomedical instrumentation, Medical Documentation, etc.
- To start PG programmes in Speech and Hearing and Food and Nutrition
- To set up consultancy services in health care sectors.

MAHATMA GANDHI UNIVERSITY COLLEGES OF TEACHER EDUCATION

| | | | | | |
|-----|--|---|--|------------|--------|
| 1. | Name of the Department | : | Mahatma Gandhi University Colleges of Teacher Education-Main Centre | | |
| 2. | Year of establishment | : | 1992 | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, Faculty of Education | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | Two Year B.Ed Degree Course | | |
| 5. | Interdisciplinary programmes and departments involved | : | Nil | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | Nil | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil | | |
| 8. | Examination System | : | Choice based credit system-Semester | | |
| 9. | Participation of the department in the courses offered by other departments | : | Nil | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | : | | Sanctioned | Filled |
| | | | Principals | 12 | 12 |
| | | | Lecturers | 92 | 91 |
| | | | Instructors | 12 | 8 |



11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

| Sl. No. | Name | Qualification | Designation | Specialization | No. of Years of experience | No. of P.hD students guided for the last 6 years |
|---|------------------------|---|-------------------------------|----------------------------|----------------------------|--|
| I.UNIVERSITY COLLEGE OF TEACHER EDUCATION, ELANTHOOR | | | | | | |
| 1. | Dr .Meera Raj | M.Sc, M, Ed UGC NET PhD in Education | Principal | Mathematics Education | 21 | 0 |
| 2. | Dr. Lalamoni P. | M.Sc, M, Ed UGC NET M. Phil PhD in Education | Lecturer in Physical Science | Physical Science Education | 21 | 0 |
| 3. | Smt. Annamma Philipose | M.A, (Eng) M.A (Soc) M, Ed UGC NET | Lecturer in English | English Education | 23 | 0 |
| 4. | Sulochana R | M.Sc, M, Ed | Lecturer in Natural Science | Natural Science Education | 20 | 0 |
| 5. | Dr. Saramma Joy T | M.A, M, Ed PhD | Lecturer in Hindi | Hindi Education | 16 | 0 |
| 6. | Dr. Sreeraj K.G | M.Sc, M, Ed UGC NET | Lecturer in Mathematics | Mathematics Education | 14 | 0 |
| 7. | Rajeevnath K.R | M.A M, Ed UGC NET , M. Phil | Lecturer in Malayalam | Malayalam Education | 15 | 0 |
| 8. | Dr. Manju A | M.Sc, M, Ed, M. Phil PhD in Education | Lecturer in General Education | Physical Science Education | 10 | 0 |
| 9. | Sulochana K | M.A, M, Ed UGC NET | Lecturer in Social Science | Social Science Education | 6 | 0 |
| 10. | Renjith Rajappan | M.A, M, Ed UGC NET SET, CTET | Lecturer in General Education | Social Science Education | 3 | 0 |



| | | | | | | |
|-----|----------------|------------------|--------------------------------|---------------------------|---|---|
| 11. | Santhi M.S | M.Sc, M.Ed | Lecturer in Nat. Science | Natural Science Education | 5 | 0 |
| 12. | Jobie K. John | M. P. Ed | Lecturer in Physical Education | Physical Education | 1 | 0 |
| 13. | Betty Benjamin | M.Com, M.Ed, NET | Lecturer in Commerce | Commerce Education | | |

II UNIVERSITY COLLEGE OF TEACHER EDUCATION, ERATTUPETTA

| | | | | | | |
|-----|---------------------|------------------------------------|--------------------------------|----------------------------|----|---|
| 14 | Smt. Jancy Lukose | M.Sc, M, Ed | Principal | Natural Science Education | 23 | 0 |
| 15 | Smt. Sameera K | M.A, M, Ed | Lecturer in General Education | Social Science Education | 2 | 0 |
| 16 | Smt Rajani Alex | M.A, M, Ed | Lecturer in General Education | Social Science Education | 13 | 0 |
| 17 | Smt Pausy V.A | M.A, M, Ed | Lecturer in Social Science | Social Science | 2 | 0 |
| 18 | Sri Siby Joseph | M. P. Ed | Lecturer in Physical Education | Physical Education | 14 | 0 |
| 19 | Smt Bhasura K.S | Tailoring Diploma in Craftsmanship | Instructor in SUPW | SUPW | 10 | 0 |
| 20 | Sheeja S | M.A, M, Ed | Lecturer in Malayalam | Malayalam Education | 7 | 0 |
| 21 | Dr. Rosilet Michale | M.Com ,M.Ed M. Phil P. hD | Lecturer in Commerce | Commerce Education | 12 | 0 |
| 22 | Sali A.P | M.A, M, Ed | Lecturer in Arabic | Arabic Education | 2 | 0 |
| 23. | Sri Gopakumar A.P | M.Sc ,M.Ed UGC NET | Lecturer in Physical Science | Physical Science Education | 11 | 0 |



| III UNIVERSITY COLLEGE OF TEACHER EDUCATION, KANJIRAPPALLY | | | | | | |
|---|--------------------------|-------------------------------|--------------------------------------|----------------------------------|----|---|
| 24 | Dr. Rajeena .A | M.Sc ,M.Ed P. hD | Principal | Science Education | 14 | 0 |
| 25 | Smt. Preeja K. Gopal | M.Sc ,M.Ed | Lecturer in Physical Science | Physical Science Education | 10 | 0 |
| 26 | Smt Fousy K.A/M | M.Sc ,M.Ed UGC NET | Lecturer in Mathematics | Mathematics Education | 10 | 0 |
| 27 | Smt. Deepa Kurian | M.A, M, Ed UGC NET | Lecturer in General Education | Social Science Education | 7 | 0 |
| 28 | Smt. Sindhu Sebastian | M.A, M, Ed | Lecturer in Social Science | Social Science Education | 8 | 0 |
| 29 | Sri Philip C.M | M.A, M, Ed | Lecturer in English | English Education | 23 | 0 |
| 30 | Prasanth Kumar | M. P. Ed UGC NET | Lecturer in Physical Education | Physical Education | 2 | 0 |
| IV UNIVERSITY COLLEGE OF TEACHER EDUCATION, KUDAMALLOOR | | | | | | |
| 31 | Suja. P.Abraham | M.A, M, Ed M. Phil | Principal | Sanskrit Education | 25 | 0 |
| 32 | Dr. Sreekala. K.K | M.A, M, Ed PhD | Lecturer in Social Science | Social Science Education | 18 | 0 |
| 33 | Smt. Lilly George | M.A, M, Ed | Lecturer in Hindi | Hindi Education | 16 | 0 |
| 34 | Smt. Sindhu Sebastian | M.A, M, Ed M. Phil | Lecturer in Malayalam | Malayalam Education | 2 | 0 |
| 35 | Smt. Sheela Mathai | M.Sc, M, Ed UGC NET | Lecturer in Physical Science | Physical Science Education | 15 | 0 |
| 36 | Sri Rajesh P.P. | M.Sc, M, Ed. M, Phil | Lecturer in Natural Science | Natural Science Education | 11 | 0 |
| 37 | Dr. Letha R | M.Sc, M, Ed UGC NET PhD | Lecturer in General Education | Science Education | 11 | 0 |



| | | | | | | |
|--|--------------------------|---|--------------------------------------|----------------------------------|----|---|
| 38 | Smt. Blossom R. Nair | M.A, M, Ed M. Phil UGC NET | Lecturer in General Education | General Education | 21 | 0 |
| 39 | Sri Arunlal R | M.P.Ed | Lecturer in Physical Education | Physical Education | 1 | 0 |
| 40 | Smt. Bindhu P.C | Diploma in Agriculture B. Sc Botany | Instructor in SUPW | SUPW | 15 | 0 |
| 41. | Dr. Anila Anna Mani | M.Sc, M, Ed UGC NET PhD | Lecturer in Mathematics | Mathematics Education | 15 | 0 |
| V UNIVERSITY COLLEGE OF TEACHER EDUCATION, KUMILY | | | | | | |
| 42 | Dr. Sosamma Varughese | M.Sc, M, Ed UGC NET PhD | Principal | Natural Science Education | 21 | 0 |
| 43 | Sri Shaji R.K | M.Sc, M, Ed UGC NET | Lecturer in Mathematics | Mathematics Education | 21 | 0 |
| 44 | Sri Sreekumar S | M.A M, Ed | Lecturer in Social Science | Social Science Education | 9 | 0 |
| 45 | Sri Jayan M.S | M.P.Ed, UGC NET M. Phil | Lecturer in Physical Education | Education | 4 | 0 |
| 46. | Smt. Lincymol P | M.Sc, M, Ed | Lecturer in Physical Science | Physical Science Education | 3 | 0 |
| 47. | Smt Preetha P.K | M.Sc, M, Ed UGC NET | Lecturer in Natural Science | Natural Science Education | 3 | 0 |
| 48. | Bindhu V.K | M.Sc, M, Ed UGC NET | Lecturer in General Education | Science Education | 1 | 0 |
| V I UNIVERSITY COLLEGE OF TEACHER EDUCATION, THODUPUZHA | | | | | | |
| 49 | Dr. Omana T.P | M.A, M, Ed UGC NET PhD | Principal | Social Science Education | 24 | 0 |
| 50 | Smt. Shakkeela K | M.A, M, Ed | Lecturer in General Education | General Education | 15 | 0 |
| 51 | Bindu C.R | M.A, M, Ed UGC NET | Lecturer in Malayalam | Malayalam Education | 9 | 0 |
| 52 | Ravikumar K.V | M.Sc, M, Ed UGC NET | Lecturer in General | Natural Science | 13 | 0 |



| | | | | | | |
|---|-------------------------|---------------------------------|--------------------------------|----------------------------|----|---|
| | | | Education | Education | | |
| 53 | Sreejith K. Nair | M.Sc, M, Ed | Lecturer in Mathematics | Mathematics Education | 13 | 0 |
| 54 | Smt. Praseela P | M.Sc, M, Ed UGC NET | Lecturer in Physical Science | Physical Science Education | 7 | 0 |
| 55. | Smt Shiji A.C | M.Sc, M, Ed UGC NET | Lecturer in Natural Science | Natural Science Education | 10 | 0 |
| 56. | Thomas. N. Issac | M.P.Ed, M.Phil M.A | Lecturer in Physical Education | Physical Education | 14 | 0 |
| 57 | Aneesha Ismail | M.Sc, M, Ed UGC NET | Lecturer in General Education | Mathematics Education | 4 | 0 |
| V II UNIVERSITY COLLEGE OF TEACHER EDUCATION, MUVATTUPUZHA | | | | | | |
| 58 | Dr, Jayasree P.G | M.Sc, M, Ed UGC NET PhD | Principal | Mathematics Education | 16 | 0 |
| 59 | Smt Rosily M.P | M.Sc, M, Ed UGC NET | Lecturer in Natural Science | Natural Science Education | 17 | 0 |
| 60 | Girija M.S | M.A, M.Ed M.Phil | Lecturer in Malayalam | Malayalam Education | 21 | 0 |
| 61 | Smt. Minimol Sreedharan | M.Sc, M,Ed, M.A UGC NET | Lecturer in General Education | Mathematics Education | 18 | 0 |
| 62 | Smt. Minimol K | M.A, M.Ed UGC NET | Lecturer in General Education | English Education | 20 | 0 |
| 63 | Haseena Beegum | M.A, M.Ed | Lecturer in English | English Education | 3 | 0 |
| 64 | Mahin. K. Aliyar | M.A, M.Ed UGC NET | Lecturer in Social Science | Social Science Education | 9 | 0 |
| 65 | Smt Rajitha P.R | M.A, M.Ed | Lecturer in Hindi | Hindi Education | 10 | 0 |
| 66 | Dr Mohandas M.K | M.A, M.Ed P.hD | Lecturer in Sanskrit | Sanskrit Education | 3 | 0 |
| 67. | Dr .Pramod K.G | M.P.Ed, M.Phil, PhD, UGC NET | Lecturer in Physical Education | Physical Education | 1 | 0 |

| V III UNIVERSITY COLLEGE OF TEACHER EDUCATION, PAIPPAD | | | | | | |
|--|---------------------------|------------------------------|--------------------------------------|---------------------------------|----|---|
| 68. | Smt. Sheena Karim | M.A, M.Ed | Principal | Social Science Education | 16 | 0 |
| 69. | Dr. Lali S | M.Sc, M. Ed PhD | Lecturer in General Education | General Education | 17 | 0 |
| 70. | Smt Thara K.S | M.Sc, M. Ed UGC NET | Lecturer in Mathematics | Mathematics Education | | |
| 71. | Sri Sunny raj | M.A, M.Ed | Lecturer in Social Science | Social Science Education | 12 | 0 |
| 72. | Smt Ajitha Kumary T | M.Sc, M.Ed UGC NET | Lecturer in General Education | General Education | 12 | 0 |
| 73. | Smt Resmi K.S | M.Sc, M.Ed UGC NET | Lecturer in General Education | General Education | 12 | 0 |
| 74. | Geetha Narayanan V | M.Sc, M.Ed | Lecturer in Natural Science | Natural Science Education | 6 | 0 |
| 76. | Smt. Swapna Purushothaman | M.A, M.Ed | Lecturer in English | English Education | 7 | 0 |
| 77. | Vijayan P.S | M.P.Ed | Lecturer in Physical Education | Physical Education | 12 | 0 |
| 78 | Subhash R | Diploma in Music | Instructor in Music | Music | 10 | 0 |
| 79 | Smt. Soudamol P.I | M.A, M.Ed | Lecturer in General Education | General Education | 2 | 0 |
| IX UNIVERSITY COLLEGE OF TEACHER EDUCATION, NEDUMKANDAM | | | | | | |
| 80. | Dr. Anvar .K | M.A, M.Ed UGC NET Ph.D | Principal | Social Science Education | 15 | 0 |
| 81. | Dr. Solly V.G | M.A, M.Sc, M.Ed, P. hD | Lecturer in General Education | General Education | 15 | 0 |



| | | | | | | |
|---|---------------------|--|--------------------------------|----------------------------|----|---|
| 82 | Sri Roy Mathew | M.P.Ed | Lecturer in Physical Education | Physical Education | 14 | 0 |
| 83 | Smt. Renimol K.G | M.Sc, M.Ed UGC NET | Lecturer in Natural Science | Natural Science Education | 8 | 0 |
| 84 | Smt. Liya P | M.A, M.Ed | Lecturer in Social Science | Social Science Education | 2 | 0 |
| 85 | Smt. Bindhu R | Diploma in Civil Engineering | Instructor in SUPW | SUPW | 15 | 0 |
| 86 | Smt Geethumol P.K | M.A, M.Ed | Lecturer in Malayalam | Malayalam Education | 3 | 0 |
| 87 | Sri Suresh Babu G | M.A, M.Ed | Lecturer in General Education | General Education | 2 | 0 |
| 88 | Smt Sreelekha Menon | M.Sc, M.Ed UGC NET | Lecturer in Natural Science | Natural Science Education | 15 | 0 |
| X UNIVERSITY COLLEGE OF TEACHER EDUCATION , VAIKOM | | | | | | |
| 89 | Smt Sudha K.S | M.A, M.Ed | Principal | Social Science Education | 15 | 0 |
| 90. | Dr. Sunil Job K.A | M.Sc, M.Ed UGC NET | Lecturer in General Education | Science Education | 20 | 0 |
| 91. | Dr. Sreenivasan K.K | M.A, M.Ed PhD | Lecturer in Malayalam | Malayalam Education | 2 | 0 |
| 92 | Dr, Manoj A.V | M.Sc, M.Ed UGC NET PhD | Lecturer in Natural Science | Natural Science Education | 15 | 0 |
| 93 | Asha Mohanan | M.Sc, M.Ed UGC NET M.Phil | Lecturer in Social Science | Social Science Education | 7 | 0 |
| 92 | Dr. Rangyny K.R | M.Com, M.Ed UGC NET, SET, JRF, PhD | Lecturer in Commerce | Commerce Education | 8 | 0 |
| 94. | Sri. Shibu D | Diploma in Music | Instructor in Music | Music | 16 | 0 |
| 95 | Ceby George | M.P.Ed | Lecturer in Physical Education | Physical Education | 1 | 0 |
| 96. | Rajasree S | M.Sc, M.Ed, PhD, NET,SET | Lecturer in Physical Science | Physical Science Education | 2 | 0 |

XI UNIVERSITY COLLEGE OF TEACHER EDUCATION, TRIPPUNITHURA

| | | | | | | |
|-----|------------------------|----------------------|--------------------------------------|----------------------------------|----|---|
| 97. | Smt Suja K.K | M.A, M.Ed | Principal | Social Science Education | 18 | 0 |
| 98 | Smt Resma P.R | M.A, M.Ed UGC NET | Lecturer in Natural Science | Natural Science Education | 12 | 0 |
| 99 | Smt.Sreeja S.Kaimal | M.Sc, M.Ed, NET | Lecturer in Physical Science | Physical Science Education | 12 | 0 |
| 100 | Smt Ganga P.S | M.Sc, M.Ed, NET | Lecturer in General Education | Mathematics Education | 8 | 0 |
| 101 | Smt Haripriya | M.A, M.Ed | Lecturer in Malayalam | Malayalam Education | 2 | 0 |
| 102 | Smt Rajani R | M.A, M.Ed, M.Phil | Lecturer in Sanskrit | Sanskrit Education | 2 | 0 |
| 103 | Sri Jayachandran | M.P.Ed | Lecturer in Physical Education | Physical Education | 15 | 0 |
| 104 | Rijosh George | M.Sc, M.Ed, NET | Lecturer in Mathematics | Mathematics Education | | |

XII. UNIVERSITY COLLEGE OF TEACHER EDUCATION, THOTTAKKAD

| | | | | | | |
|------|-------------------------|------------------------------------|-------------------------------------|----------------------------------|----|---|
| 105 | Dr. Sreelatha Amma R | M.A, M.Ed, PhD | Principal | English Education | 29 | 0 |
| 106 | Smt Pearly Jacob | M.A, M.Ed ,UGC NET JRF | Lecturer in English | English Education | 21 | 0 |
| 107 | Sri Pradeep Kumar S | M.A, M.Ed | Lecturer in General Education | General Education | 12 | 0 |
| 108 | Sreekala V.M | M.Sc, M.Ed ,UGC NET, M, Phil | Lecturer in Natural Science | Natural Science Education | 12 | 0 |
| 109 | Babitha Merin John | M.Sc, M.Ed ,UGCNET | Lecturer in Physical Science | Physical Science Education | 10 | 0 |
| 110. | Sinu K.R | Diploma in Music | Instructor in Music | Music | 16 | 0 |



| | | | | | | |
|------|----------------|---|--------------------------------------|------------------------|----|---|
| 111 | Bindhuraj K | M.A, M.Ed, M.Phil | Lecturer in Malayalam | Malayalam Education | 12 | 0 |
| 112. | Sajeev C. Nair | M.P.Ed, M.Phil, P.G Diploma in Yoga | Lecturer in Physical Education | Physical Education | 5 | 0 |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors: Nil

13. Percentage of classes taken by temporary faculty – programme-wise information: Nil

14. Programme-wise Student Teacher Ratio

B.Ed : 12:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

- 103

16. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise.

- Nil

17. Inter-institutional collaborative projects and associated grants received

a) National collaboration b) International collaboration

-Nil

19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.

- Nil

20. Research facility / centre with

- Nil

21. Special research laboratories sponsored by / created by industry or corporate bodies- Nil

22. Publications:

23. Details of patents and income generated : Nil

24. Areas of consultancy and income generated : NA

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad :Nil

26. Faculty serving in

a) National committees b) International committees c) Editorial Boards d) any other (please specify) :

| Sl. No | Publications | Total |
|--------|----------------------------------|-----------|
| 1. | Refereed Journal Publications | 05 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | Nil |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | 04 |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| | Total | 09 |

a). National committees :

| Sl. No. | Name of the faculty | Committee |
|---------|--|--|
| 1 | Dr. Anvar K, Principal, University College of Teacher Education, Nedumkandam | <ul style="list-style-type: none"> Life Member, Council for Teacher Education (CTE), Joint Secretary in Kerala Chapter Life Member and Member of executive committee in Kerala Chapter, Indian Adult Education Association. (IAEA) Life Member, Member of executive committee in Kerala Chapter Commonwealth Council for Educational Administration and Management (CCEM) Life Member and Member of executive committee in Indian Association of Life Skill Education (IALSE) Life member of All India Association for Educational Research, (AIAER) Life member of Mental Health Action by People (MAP) |
| 2. | Dr. Jayasree P, Principal, University College of Teacher Education, Muvattupuzha | <ul style="list-style-type: none"> Life Member, Council for Teacher Education (CTE) Joint Secretary in Kerala Chapter. |

b) International committees : Nil

c) Editorial Boards: Nil

d) Any other:

| Sl No. | Name of the faculty | Committee |
|--------|---|--|
| 1 | Dr. Jayasree P, Principal, University College of Teacher Education, Muvattupuzha | <ul style="list-style-type: none"> Member of the Board of studies in Education ,Mahatma Gandhi University |
| 2 | Dr. Sreelatha Amma R, Principal, University College of Teacher Education, Thottakkad | <ul style="list-style-type: none"> Chairman of the Board of studies in Education, Mahatma Gandhi University |



27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs) :

Workshops:

- o Workshop on Curriculum revision Organised by Board of Studies in Education, M.G University , May 4th -8th , 2015

Orientation programmes: Nil

28. Student projects :

- i. Percentage of students who have done in-house projects including inter- departmental projects: Nil
- ii. Percentage of students doing projects in collaboration with other universities / industry / institute: 100%

29. Awards / recognitions received at the national and international level by : Nil

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.: Nil

31. Code of ethics for research followed by the departments - NA

32. Student profile programme-wise:

| Name of the Course/ programme (refer question no. 4) | Applications received | Selected | Enrolled | | Pass percentage |
|--|--------------------------|----------|----------|-----|--------------------|
| | | | *M | *F | |
| 2 year B.Ed Degree Course | 8882 | 600 | 120 | 480 | 100 |

33: Diversity of students

| Name of the Course | % of students from the same state | % of students from other States | % of students from abroad |
|---------------------------|---|------------------------------------|------------------------------|
| 2 year B.Ed Degree Course | 98 | 2 | 0 |

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

NET: 22

SLET: 23

35. Student progression

| Student progression | Against % enrolled |
|----------------------------------|---------------------------|
| UG to PG | 35% |
| PG to M. Phil. | Not applicable |
| PG to Ph.D. | Not applicable |
| Ph.D. to Post-Doctoral | Not applicable 40% |
| Employed | 25% |
| • Campus selection | 40% |
| • Other than campus recruitment | |
| Entrepreneurship/Self-employment | |

36. Diversity of staff

| Percentage of faculty who are graduates | |
|--|------------|
| Of the same university | 85% |
| From other universities within the state | 12% |
| From universities from other State | 03% |
| From Universities outside the country | Nil |

37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period : 20**38. Present details of departmental infrastructural facilities with regard to**

| | |
|---|--|
| a) Library | Yes, 61767 |
| b) Internet facilities for staff and students | Provided |
| c) Total number of class rooms | |
| d) Class rooms with ICT facility | 12 (One Smart Classroom in each college) |
| e) Students' laboratories | 36 (3 Laboratories in each college) |
| f) Research laboratories | -- |



39. List of doctoral, post-doctoral students and Research Associates

- a) from the host institution/university : Nil
- b) from other institutions/universities : Nil

40. Number of students receiving financial assistance from college, university, government or other agencies.

During the current year, altogether in the 12 institutions 208 students from SC/ST/OEC Category are receiving financial assistance from Kerala Government.

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology:

Yes, The potential of the programme is assessed through discussions with experts, members of the alumni, corporate executives etc.

42. Does the department obtain feedback from

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Yes .The expert advice and the suggestion of the faculty is always accepted. Frequent workshops and discussions are convened for the enrichment of the curriculum as well as teaching-learning-evaluation. Some of the faculty are members of the Board of Studies of Education .Most of the faculty participated in the new 2 year B.Ed curriculum revision. The colleges have an active feedback system. The action points identified are acted upon promptly. Feedback from teachers is elicited largely at staff council meetings.

b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Yes. The feedback and suggestions on the curriculum and teaching-learning-evaluation can be communicated through university website.

c. Alumni and employers on the programmes offered and how does the department utilize the feedback?

Yes. The feedback is duly considered at the time of curriculum revision

43. List the distinguished alumni of the department (maximum 10):

| Sl No. | Name | Current Position |
|--------|------------------|--|
| 1. | Sundaran Konadan | Assistant Manager, Life Insurance Corporation of India, Kalpetta |
| 2. | Saju Varghese | Circle Inspector of Police, Pampady |
| 3. | Shine | Deputy Director of Education, Govt of Kerala |
| 4. | Arshad A | Circle Inspector of Police, Mullapperiyar |
| 5. | Arun Zachariah | Ssst Director, IT department , Govt. of Kerala |

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

Student enrichment programmes such as special lectures, workshops and Seminars with external experts are conducted in various subjects

45. List the teaching methods adopted by the faculty for different programmes.

Computer assisted instruction, ICT Enabled teaching learning process project method heuristic method etc. Adopted to improve student learning

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

Recurring monitoring, presentations of papers, written examination, participation in discussions, interventions during seminars

47. Highlight the participation of students and faculty in extension activities.

Expertise of faculty is benefitted by schools in the neighbourhood. Counselling and awareness classes are conducted to the benefit of PTA of neighbouring Schools. Study materials, uniforms and umbrella are given to the poor students of the locality. One day community living camp is organized and several awareness programmes on lifestyle diseases, communicable diseases, fire and safety, legal literacy first aid etc. are organized Social surveys on relevant issues are conducted in Tribal Colonies. Street plays, flash mobs etc. are also conducted.

48. Give details of “beyond syllabus scholarly activities” of the department.

- Nil

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.

-Nil

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

The Publications of the faculty, faculty and student projects etc stands testimony to the academic contribution of UCTE.



51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

STRENGTH

Experienced fully qualified faculty is the strength of the institution .Since the admission process is done following the community reservation norms of Government, under privileged students of the downtrodden society get chance for higher education .As social institutions, University Colleges of Teacher Education are receiving full support from local bodies for their infra structural developments.

Weakness

Lack of hostel facility and lack of institutional conveyance facility are the weakness which the institutions face.

Opportunities

The students who have completed B.Ed Course are well placed in India as well as abroad.

Challenges

Students have reluctance to join for B.Ed Programme due to the enhancement of the duration of the course from one year to two year. As school students are well equipped with computer skills, teacher trainees are to be more trained in the use of computer and other advanced technology.

52. Future plans of the department.

- To start M.Ed programme in its different centres.
- To enhance the infrastructural facilities in the institution.

SCHOOL OF COMMUNICATION AND JOURNALISM

| | | | |
|-----|--|---|---|
| 1. | Name of the Department | : | School of Communication and Journalism |
| 2. | Year of establishment | : | 1995 |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, Faculty of Social Science |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | MCJ programme, recently renamed as MAJMC (Master of Arts in Journalism and Mass Communication) as per UGC norms. |
| 5. | Interdisciplinary programmes and departments involved | : | Involved in the major activities of other Departments |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | Nil |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil |
| 8. | Examination System | : | Semester, Choice Based Credit System Started from 2016 academic year onwards |
| 9. | Participation of the department in the courses offered by other departments | : | Students are given ample opportunity to attend courses offered by other schools and centres as open courses |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | : | The Director and Teachers are working on contract basis as it is a self-financing programme. But appointments are on the basis of UGC norms. Director – Male (Contract) Lecturer – 1 female(Contract) Lecturer -1 male (Contract) Lecturer – 1 male (Guest) |



11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./ M.Phil. students guided for the last 6 years |
|----------------------------------|--|-------------|------------------|----------------------------|--|
| Prof.Madavana Balakrishna Pillai | Appointed directly Professor and Director as an outstanding Scholar as per UGC norms. 23 years of Journalistic Experience LLM. | Director | Media Activities | 21 years | |
| Dr. Ligimol P. Jacob | MCJ, PhD. | Lecturer | Cinema | 17 | |
| Gilbert A.R | MCJ,PGDPR | Lecturer | Public Relations | 5 | |
| Abhilash G | MCJ,NET | Lecturer | New Media | 1 | |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors:

| Sl.No | Name | Visiting Fellows/Adjunct faculty/ Emeritus professors | Specialization |
|-------|--|---|--------------------------|
| 1. | K.JayaKumar, Vice-Chancellor, Malayalam University | Adjunct faculty | Literature and Film |
| 2. | Dr. J.V Vilanilam, Former Vice-Chancellor, Kerala University | Adjunct faculty | Journalism-Communication |
| 3. | Dr. K.V Nagaraj Pro-Vice Chancellor Assam Central Universities | Adjunct faculty | Media Theories |
| 4. | Dr. Sucheta Nair, PVC, Sanskrit University, Kalady | Adjunct faculty | Media Theories |
| 5. | Thomas Jacob, Editorial Director, Malayala Manoram | Adjunct faculty | Print Media |

| | | | |
|----|--|-----------------|-------------|
| 6. | C.P Rajasekaran, Former Director, Doordarshan. | Adjunct faculty | Television |
| 7. | C. Siva Prasad, Film Director | Adjunct faculty | Film Making |
| 8. | P.Raveendran, Former Director, All India Radio | Adjunct faculty | Radio |

13. Percentage of classes taken by temporary faculty – programme-wise information:

| Programme | Percentage |
|------------|------------|
| MCJ /MAJMC | 20% |

14. Programme-wise Student Teacher Ratio

MCJ 15:1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual

| | Sanctioned | Filled and actual |
|----------------------|------------|-------------------|
| Technical | | 1 |
| Administrative Staff | | 1 |

16. Research thrust areas as recognized by major funding agencies

- Literature and Film
- Journalism- Communication
- Media Theories
- Print Media

17. Number of faculty with ongoing projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise: Nil

18. Inter-institutional collaborative projects and associated grants received

- a) National collaboration b) International collaboration

Nil



19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.

Nil

20. Research facility / centre with

- State recognition : Yes
- National recognition : Yes
- International recognition:No

21. Special research laboratories sponsored by / created by industry or corporate bodies- Nil

22. Publications:

| Sl. No | Publications | Total |
|--------|----------------------------------|--|
| 1. | Refereed Journal Publications | 4 |
| 2. | Monographs | |
| 3. | Conference Proceedings | 2 |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | 10 By Director |
| 6. | Books authored with ISBN | 8 By Director |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | More than 10,000 articles by Director |

23. Details of patents and income generated : Nil

24. Areas of consultancy and income generated : Director is associated with Universities and Media Houses National level

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad:

| Sl. No. | Name of the faculty | Name of institution |
|---------|----------------------------------|--|
| 1. | Prof.Madavana Balakrishna Pillai | 1. UGC NET, Various Universities, Colleges and Media Organisations |
| 2. | Dr. Ligimol P Jacob | 2. Examinations of other Universities |
| 3. | Gilbert A.R | 3. Examinations of other Universities |



26. Faculty serving in

a) National committees

| Sl. No. | Name of the faculty | Name of institution |
|---------|-----------------------------------|---|
| 1. | Prof. Madavana Balakrishna Pillai | Associated with UGC-NET, CBSE, JEE, State-Central Universities all over India |

b) International committees

| Sl. No. | Name of the faculty | Name of institution |
|---------|-----------------------------------|--|
| 1. | Prof. Madavana Balakrishna Pillai | Visited many Universities outside India including MIT, Oxford, Cambridge |

c) Editorial Boards

| Sl. No. | Name of the faculty | Name of institution |
|---------|-----------------------------------|--|
| 1. | Prof. Madavana Balakrishna Pillai | Deepika Daily, Mangalam Daily, Prathichaya Weekly, Vartha etc. |

a) d) any other (please specify) Nil

27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

Orientation programs, workshops and Training programs.

28. Student projects

Percentage of students who have done in-house projects including inter-departmental projects:

100% of MCJ Students are doing projects.

Percentage of students doing projects in collaboration with other universities / industry / institute:

Nil

29. Awards / recognitions received at the national and international level by

Faculty

| Sl. No. | Name of the faculty | Details |
|---------|-----------------------------------|--|
| 1. | Prof. Madavana Balakrishna Pillai | <ul style="list-style-type: none"> • Lions International Award for Journalism and Public Services • Bharat Gaurav National Award for Journalism and Social Work which was recently received in NewDelhi • Swadeshabhimani award • Annie Besant award • Siva Ram award • Benjamin Bailey award • Bishop Vayalill award • G Smaraka award • Pothen Joseph award, etc. |



□ **Doctoral / post doctoral fellows : Nil**

□ **Students**

| Sl. No. | Name of the students | Details |
|---------|----------------------|--|
| 1 | Ms. Cicy Jacob | Mathrubhumi- State Government Fellowship |
| 2 | Pinky Baby | Malayala Manorama- Consumer Award |
| 3 | Manu C Kumar | Manorama TV - Birla Media Award |
| 4 | Sameer Mohammed | Malayala Manorama- Sports award |
| 5 | P.J Jose | Mathrubhumi- Sports Award |
| 6 | Fousiya Mustafa | Mathrubhumi TV- State Media Award |

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any.

| SL.No | Seminars/ Conferences/Workshops | Source of funding | outstanding participants |
|-------|--|-------------------|--------------------------|
| 1 | Media Seminars | M.G University | Excellent |
| 2 | Ediotrs Meet | M.G University | Well attended |
| 3 | Reporters Meet | M.G University | Well attended |
| 4. | Video Workshop cum Production | M.G University | Well attended |
| 5. | Editing Workshop cum Vartha Publication Production | M.G University | Well attended |

State level Seminar and Workshop are conducting periodically with the assistance of the University.

31. Code of ethics for research followed by the departments:

As per UGC and other recognized norms, our students are trained in research methodology and thereafter they are assigned to prepare Dissertation Projects.

32. Student profile programme-wise: (2012-2015)

| Name of the Course/programme (refer question no. 4) | Applications received | Selected | Enrolled | | Pass percentage |
|---|-----------------------|----------|----------|----|-----------------|
| | | | *M | *F | |
| MCJ –(2012-2013) | 153 | 35 | 13 | 22 | 100% |
| MCJ –(2013-2014) | 130 | 35 | 12 | 23 | 100% |
| MCJ-(2014-2015) | 118 | 35 | 11 | 24 | 100% |
| MCJ- (2015-2016) | 163 | 30 | 4 | 26 | |



| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|--|--|--|---|------------------------------------|
| MCJ | 45% | 63% | 2% | Nil |

34. How many students have cleared Civil Services and Defence Services examinations, NET, SET, GATE and other competitive examinations? Give details category-wise.

Period 2010-15

| Sl.No | NET/ JRF Qualified | GATE | SET | Others |
|-------|---------------------------------|-------|----------------------------|--------|
| 1. | average 5 candidates every year | ----- | about 10 students per year | ---- |

35. Student progression

| | Student progression | Percentage against enrolled |
|--------------------------|-------------------------------|-----------------------------|
| | PG to M.Phil. | 5% |
| | PG to Ph.D. | 15% |
| | Ph.D. to Post-Doctoral | Nil |
| | Employed | |
| <input type="checkbox"/> | Campus selection | 30% |
| <input type="checkbox"/> | Other than campus recruitment | 70% |
| | Entrepreneurs | |

36. Diversity of staff

| | |
|--|-----|
| Percentage of faculty who are graduates of the same university | 50% |
| from other universities within the State | 50% |
| from universities from other States | Nil |
| from universities outside the country | Nil |



37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: One

| Sl. No. | Name of the faculty | Details |
|---------|---------------------|--------------------------------|
| 1 | Dr. Ligimol P Jacob | PhD from University of Mysore. |

38. Present details of departmental infrastructural facilities with regard to

| | |
|---|------------|
| a) Library | 1113 Books |
| b) Internet facilities for staff and students | Yes |
| c) Total number of class rooms | 2 |
| d) Class rooms with ICT facility | Yes |
| e) Students' laboratories | 1 |
| f) Research laboratories | Nil |

39. List of doctoral, post-doctoral students and Research Associates

- a) from the host institution/university: Nil
- b) from other institutions/universities: Nil

40. Number of post graduate students getting financial assistance from the university:

SC/ST, Single girl child Scheme financial assistance from the Governments

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology.

Yes, The potential of the programme is assessed through discussions with experts, members of the alumni, corporate executives etc.

42. Does the department obtain feedback from

| | |
|---|--|
| a) Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback? | Yes, Making the Teaching methodology up to date. |
| b) Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback? | Feedback from the students. |
| c) Alumni and employers on the programmes offered and how does the department utilize the feedback? | Feedback from the Alumni and employers (Media houses). |

43. List the distinguished alumni of the department (maximum 10)

| SI No. | Name | Current Position |
|--------|--------------------------|-------------------|
| 1. | Dr. Priyamol | IIS |
| 2. | T G Biju | Times of India |
| 3. | Biju Govind | The Hindu |
| 4. | Soyesh H | The Hindu |
| 5. | Prasanth Menon | Times of India |
| 6. | Shailesh Viswanath Menon | Times of India |
| 7. | Anto T | Times of India |
| 8. | Nishad VH | India Today |
| 9. | Shameer KK | Malayala Manorama |
| 10. | Jose PJ | Mathrubhumi |

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts.

- Regularly we are engaging the students with Experts from Newspapers, Radio, Television, Public Relations and other branches of knowledge.
- Students regularly attended special lectures invited by different schools and centres.

45. List the teaching methods adopted by the faculty for different programmes:

By using Camera, Video Camera, Power Point Slide shows, Newspapers, Photographs, Films etc.



46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored?

The students of the School are the most sought after budding journalists for the media. Our students are enrolled in Indian Information Service (IIS), Public Relation activities of various organizations, Content writers of MNCs, Faculty members of Universities, Colleges and Higher Secondary Schools etc.

47. Highlight the participation of students and faculty in extension activities.

By participating in media seminars, involving in media and social service activities etc.

48. Give details of “beyond syllabus scholarly activities” of the department:

Writing Articles, Participating Programmes in Television and Radio, Producing Magazines and Documentary Films.

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details.

Yes, Other Universities and media organisations both in private and public sectors.

50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied:

As mentioned students of our school dominate in media activities inside and outside India. Almost all newspapers and channels are dominated by our students.

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department:

Strengths:

1. The curriculum is designed as practical oriented.
2. Very good employment prospects to the students in most of the media and allied organisations.
3. Almost all faculty members of Journalism of various universities, colleges, higher secondary schools are dominated by students of the School.
4. Excellent results in competitive examinations like UGC-NET, SET, IIS etc.

Weaknesses

1. Frequent changes in the nomenclature of the department as –SCIS, SCJ, DCJ, and again SCJ.
2. The name of the programme also changed several times as- MJC, MCJ, and now MAJMC.
3. As in the self-financing stream, faculty members are given less remuneration.
4. Lack of sufficient space is not available for student’s activities, retiring room, studio etc.

Opportunities

1. The School can be converted into one of the best in the country if more physical infrastructure and reasonable remuneration are provided.

Challenges

1. To equip the students with the most modern needs of the news mongering society.

52. Future plans of the department.

- The construction of the Academia Convergence Complex at the campus where the school will be given 6000 sq.ft space is progressing. After shifting to the new premises, the school can start new UG programmes and install new technological tools for making the department more active.



DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE

| | | | | | |
|-----|---|----------------------|---|--------------------|-----------------------------|
| 1. | Name of the Department | : | Department of Library and Information Science | | |
| 2. | Year of establishment | : | 1995 | | |
| 3. | Is the Department part of a School/Faculty of the University? | : | Yes, Faculty of Social Science | | |
| 4. | Names of Programmes offered (UG, PG, M Phil, Ph.D., Integrated Masters; Integrated Ph.D., DSc., D.Litt., etc) | : | UG (BLISc), PG (MLISc) | | |
| 5. | Interdisciplinary programmes and departments involved | : | Nil | | |
| 6. | Courses in collaboration with other universities, industries, foreign institutions, etc | : | Nil | | |
| 7. | Details of programmes discontinued, if any, with reasons | : | Nil | | |
| 8. | Examination System | : | Semester (Choice based Credit System) | | |
| 9. | Participation of the department in the courses offered by other departments | : | Nil | | |
| 10. | Number of teaching posts, sanctioned, filled and actual (Professors/Associate Professors/Asst. Professors/others) | | Sanctioned | Filled | Actual(including CAS & MPS) |
| | | Professor | 1 | 1 | 5 |
| | | Associate Professors | 3 | 3 | 2 |
| | | Asst. Professors | 9 | 9 | 6 |
| | | Others Lecturer | Contract Faculty-5 | Contract Faculty-4 | NA |



11. Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

| Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of Ph.D./M.Phil. Students guided for the last 6 years |
|----------------------|----------------------------------|----------------------------|---|----------------------------|---|
| Ms. Kavitha Chandran | MLISc., JRF/NET, BLISc, BSc | HOD in charge and Lecturer | Library Classification | 5 Years | - |
| Mrs. Vidya T | MLISc, BLISc, MCom., | Lecturer | Library Cataloguing | 5 years | - |
| Mr. Anish I | MLISc, PGDLAN, B.Ed., | Lecturer | Library Management | 5 Years | - |
| Mrs. Ushakumari M C | MLISc, PGDLAN, BLISc, MSc, B.Ed. | Lecturer | Information Knowledge and Communication | 2 Years | - |

12. List of senior Visiting Fellows, adjunct faculty, emeritus professors : Nil

13. Percentage of classes taken by temporary faculty – programme-wise information:
Contract basis-100%

14. Programme-wise Student Teacher Ratio

- BLISc : 12: 1
- MLISc : 7: 1

15. Number of academic support staff (technical) and administrative staff: sanctioned, filled and actual:

| | Sanctioned | Filled and actual |
|----------------------|------------|-------------------|
| Technical | Nil | Nil |
| Administrative Staff | Nil | 2 |

16. Research thrust areas as recognized by major funding agencies:

Nil

17. Number of faculty with on-going projects from a) national b) international funding agencies and c) Total grants received. Give the names of the funding agencies, project title and grants received project-wise. Nil

18. Inter-institutional collaborative projects and associated grants received

a) National collaboration b) International collaboration : Nil



19. Departmental projects funded by DST-FIST; UGC-SAP/CAS, DPE; DBT, ICSSR, AICTE, etc.; total grants received.

Nil

20. Research facility / centre with: Nil

- State recognition
- National recognition
- International recognition

20. Special research laboratories sponsored by / created by industry or corporate bodies- Nil

21. Special research laboratories sponsored by / created by industry or corporate bodies- Nil

22. Publication:

| Sl. No | Publications | Total |
|--------------|----------------------------------|-------|
| 1. | Refereed Journal Publications | 4 |
| 2. | Monographs | Nil |
| 3. | Conference Proceedings | 4 |
| 4. | Chapters in Books | Nil |
| 5. | Edited Books | Nil |
| 6. | Books authored with ISBN | Nil |
| 7. | Books authored without ISBN | Nil |
| 8. | Articles in popular publications | Nil |
| Total | | 8 |

23. Details of patents and income generated : Nil

24. Areas of consultancy and income generated: NA

25. Faculty selected nationally / internationally to visit other laboratories / institutions / industries in India and abroad : Nil

26. Faculty serving in

- a) National committees b) International committees c) Editorial Boards d) any other : Nil



27. Faculty recharging strategies (UGC, ASC, Refresher / orientation programs, workshops, training programs and similar programs).

- Provided opportunities for those who wish to attend orientation/refresher courses on basic and advanced pedagogy.
- Arranged programmes in the department on e-learning.
- Organized research colloquium for the faculty thus enhancing the process of peer learning.
- Purchase new books, journals and e-resources for the department library to ensure a climate conducive to advanced learning.
- Created more avenues for faculty members to visit universities abroad by entering into faculty exchange programmes with such universities.
- Motivate teachers to acquire higher/additional qualifications such as PhD, diploma and certificate programs for empowering them with knowledge and wisdom.
- Provides infrastructural and secretarial assistance to teachers taking up research projects of various agencies.
- Accelerate the IRG (Institutional Revenue Generation) for supporting the mini research projects of the faculty.
- Support the faculty to publish their research reports and articles.
- Further, with a view to motivating the faculty for better performance, the department recognizes meritorious faculty as per the following criteria: 1) Teaching-Learning & Evaluation, 2) Research, Consultancy & Extension, 3) Student Support & Progression.

28. Student projects

- Percentage of students who have done in-house projects including inter-departmental projects-100%
- Percentage of students doing projects in collaboration with other universities / industry / institute
Nil

29. Awards / recognitions received at the national and international level by

- Faculty: Nil
- Doctoral / post-doctoral fellows: Nil
- Students: Nil

30. Seminars/ Conferences/Workshops organized and the source of funding (national / international) with details of outstanding participants, if any. : Nil

31. Code of ethics for research followed by the departments : Nil



32. Student profile programme-wise:

| Name of the Course/Programme | Applications Received | Selected | Enrolled | | Pass Percentage |
|------------------------------|-----------------------|----------|----------|----|-----------------|
| | | | M | F | |
| BLISc 2010-11 | 44 | 42 | 10 | 32 | 73% |
| 2011- 12 | 73 | 46 | 10 | 36 | 80% |
| 2012-13 | 50 | 47 | 17 | 30 | 63% |
| 2013-14 | 46 | 46 | 11 | 35 | 62% |
| 2014-15 | 50 | 32 | 11 | 21 | 55% |
| MLISc 2010-11 | 26 | 24 | 7 | 17 | 100% |
| 2011-12 | 30 | 26 | 6 | 20 | 90% |
| 2012-13 | 28 | 23 | 8 | 15 | 100% |
| 2013-14 | 15 | 15 | 3 | 15 | 100% |
| 2014-15 | 31 | 22 | 7 | 15 | 100% |

33. Diversity of students:

| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|---|--|--|---|------------------------------------|
| BLISc | | | | |
| 2012 | 41 | 6 | Nil | Nil |
| 2013 | 47 | 1 | 1 | Nil |
| 2014 | 29 | 3 | Nil | nil |
| 2015 | 40 | 6 | 1 | Nil |
| 2016 | 48 | 1 | Nil | Nil |

| Name of the Programme (refer to question no. 4) | % of students from the same university | % of students from other universities within the State | % of students from universities outside the State | % of students from other countries |
|---|--|--|---|------------------------------------|
| MLISc | | | | |
| 2012 | 23 | Nil | Nil | Nil |
| 2013 | 15 | Nil | Nil | Nil |
| 2014 | 28 | Nil | 1 | Nil |
| 2015 | 14 | Nil | Nil | Nil |
| 2016 | 18 | Nil | 1 | Nil |



34. How many students have cleared Civil Services and Defence Services examinations, NET,

SET, GATE and other competitive examinations? Give details category-wise.

- Civil services/defense: Nil
- NET-
- GATE- Nil
- SET- Nil

35. Student progression

| Student progression | Percentage against enrolled |
|--|------------------------------------|
| UG to PG | 50% |
| PG to M.Phil. | 5% |
| PG to Ph.D. | 30% |
| Ph.D. to Post-Doctoral | |
| Employed Campus selection Other than campus recruitment Entrepreneurs | Nil 95 |

36. Diversity of staff

| | |
|--|-----|
| Percentage of faculty who are graduates | |
| Of the same university | 100 |
| From other universities within the State | Nil |
| From universities from other States | Nil |
| From universities outside the country | Nil |



37. Number of faculty who were awarded M.Phil., Ph.D., D.Sc. and D.Litt. during the assessment period: Nil

38. Present details of departmental infrastructural facilities with regard to

- a) Library Books purchased during the period : 3406
- b) Internet facilities for staff and students : Nil
- c) Total number of class rooms : 2
- d) Class rooms with ICT facility : Nil
- e) Students' laboratories : 1 Computer Lab
- f) Research laboratories : Nil

39. List of doctoral, post-doctoral students and Research Associates

- a) from the host institution/university
- b) from other institutions/universities
Nil

40. Number of post graduate students getting financial assistance from the university.
Nil

41. Was any need assessment exercise undertaken before the development of new programme(s)? If so, highlight the methodology. : Nil

42. Does the department obtain feedback from

a. Faculty on curriculum as well as teaching-learning-evaluation? If yes, how does the department utilize the feedback?

Yes, the Department takes feedback from the faculty and utilizes it as the following ways

- (a) Monitoring the advanced learners and give guidance to perform better in their academic activities
- (b) Motivate extracurricular activities
- (c) Motivate to participate in Quiz programmes, Debates etc.
- (d) Giving guidance to prepare for National Eligibility Test and other competitive exams.
- (e) Find out slow learners and counseling them

b. Students on staff, curriculum and teaching-learning-evaluation and how does the department utilize the feedback?

Yes. On completion of every course a course feedback is taken and the same is analyzed and any points to be considered are taken for immediate implementation

- c. **Alumni and employers on the programmes offered and how does the department utilize the feedback?**

The feedback given by alumni and stake holders is the basic matrix for identifying short fails in curricular content and reinforcements needed therein. Feedback from alumni are regularly collected and due importance is given to their suggestions.

43. List the distinguished alumni of the department (maximum 10)

| SI No. | Name | Current Position |
|--------|-------------------|--|
| 1. | Santhosh K N | Assistant Professor, St. Peters College, Kolencherry |
| 2. | Ajesh E S | Assistant Librarian, Marian International Institute of Management |
| 3. | Gayathri Mohan | Library Assistant VSSC, Thiruvananthapuram |
| 4. | Pooja Lakshmi K K | Pushpagiri Institute of Medical Sciences & Research Centre, Thiruvalla |

44. Give details of student enrichment programmes (special lectures / workshops / seminar) involving external experts:

Talk on Skill Set for LIS Professionals by K.P Vijayakumar, Former Associate Professor and Head, DLIS and Hon. Director, Centre for Information Literacy Studies, University of Kerala.

45. List the teaching methods adopted by the faculty for different programmes.

Lecturers
Project Work
Study Tour
Computer labs
Seminars
Assignments

46. How does the department ensure that programme objectives are constantly met and learning outcomes are monitored:

Through effective monitoring:

Timely conduct of internal evaluation also ensures assessment of learning outcome.

47. Highlight the participation of students and faculty in extension activities. : Nil

48. Give details of “beyond syllabus scholarly activities” of the department. : Nil

49. State whether the programme/ department is accredited/ graded by other agencies? If yes, give details. Nil



50. Briefly highlight the contributions of the department in generating new knowledge, basic or applied.

The specific contributions included generation of new knowledge in the area of Library Science and information

51. Detail five major Strengths, Weaknesses, Opportunities and Challenges (SWOC) of the department.

STRENGTH

- Competent and committed faculty.
- Strong contingent of highly placed alumni in various fields at the regional, national and international levels.
- Attention to slow and advanced learners.
- Buddy system for mentoring and peer learning.
- Integration of differently-abled students with the mainstream students.
- Close teacher-student relationship.

WEAKNESS

- Lack of adequate infrastructure facilities.
- Lack of adequate number of computers.
- Many students have poor command over English language.

OPPORTUNITIES

- With the introduction of new syllabus, greater scope for collaborative engagements with community, industry, and organizations of empowerment and good governance.
- New research trends in Library and Information Science.
- Formation of Community Library.
- Information Communication Technology Applications in Libraries.
- To carry out advanced student research projects (UG /PG) in Library and Information Science.
- To familiarize with recent trends and developments in the field of Library and Information science.
- To interact with reputed Information scientists.
- To establish student/faculty exchange programmes.



52. Future plans of the department.

- The Department is planning the introduction of the following programmes during the next five years:
 - ✓ M Phil (Regular Course)
 - ✓ Post Graduate Diploma in Library Automation and Networking (Regular Course).
 - ✓ B.L.I.Sc. Evening Course
- Refresher Courses for LIS Professionals.
- To conduct national and inter-national seminars, workshops etc.,