



ARIIA

ATAL RANKING OF INSTITUTIONS ON INNOVATION ACHIEVEMENTS



MHRD
Ministry of Human
Resource Development
Government of India

Submitted Institute Data for Atal Ranking of Institutions on Innovation Achievements (ARIIA) - 2019-20

Institute Name: Mahatma Gandhi University, Kottayam [ARI-U-0262]

Program Conducted by Institute Related to IPR, Entrepreneurship / Start-ups & Innovation

Name of Program (Full Name)	Program Theme	Program Type	Program Category	Organizing Department / Centre / Student Body Name	Program Start Date	Program End Date	Program Duration(in Days)	Program Location	Internal Participants (Student)	Internal Participants (Faculty)	External Participants (Student)	External Participants (Faculty)	Total Number of Participants	Had institute spent expenses either from own resource/received fund to organise the program/activity/event?	Total Expense Amount Incurred by Institute to Organise the Program (In Rupees)
Boot camp	Entrepreneurship/Startup	Boot camp	Institute Lead Activity	Business Innovation and Incubation Centre, Mahatma Gandhi University, Kottayam	18-01-2019 00:00:00	23-01-2019 00:00:00	6	Within Campus	34	5	7	4	50	Yes	59057
Talk on entrepreneurship	Entrepreneurship/Startup	Awareness	Institute Lead Activity	Business Innovation and Incubation Centre, Mahatma Gandhi University, Kottayam	20-12-2018 00:00:00	21-12-2018 00:00:00	2	Within Campus	35	7	28	4	74	Yes	41598
Talk on start-up essentials-funding, finance and deployment	Entrepreneurship/Startup	Awareness	Institute Lead Activity	Business Innovation and Incubation Centre, Mahatma Gandhi University, Kottayam	11-12-2018 00:00:00	11-12-2018 00:00:00	1	Within Campus	30	8	12	3	53	Yes	6194
Short film competition	Innovation	Skill development	Institute Lead Activity	Business Innovation and Incubation Centre, Mahatma Gandhi University, Kottayam	04-11-2018 00:00:00	04-11-2018 00:00:00	1	Within Campus	10	3	3	2	18	Yes	50456

Program Conducted by Institute Related to IPR, Entrepreneurship / Start-ups & Innovation

The art of film making	Entrepreneurship/Startup	Workshop	Institute Lead Activity	Business Innovation and Incubation Centre, Mahatma Gandhi University, Kottayam	04-11-2018 00:00:00	04-11-2018 00:00:00	1	Within Campus	25	5	24	4	58	Yes	13497
Innovative thinking and effective communication for aspiring entrepreneurs	Entrepreneurship/Startup	Skill development	Institute Lead Activity	Business Innovation and Incubation Centre, Mahatma Gandhi University, Kottayam	28-09-2018 00:00:00	28-09-2018 00:00:00	1	Within Campus	75	20	50	9	154	Yes	13450

Participation / Representation of Students and (or) Faculties in Events / Programs related to IPR, entrepreneurship / Start-ups & Innovation organized by reputed external institutions or agencies at national or international level

Name of Program (Full Name)	Program Theme	Program Type	Organizing Agency / Institute Name	Organizing Agency Type	Program Start Date	Program End Date	Program Duration(in Days)	Participants (Students)	Participants (Faculty)	Total Number of Participants	Awards/Recognitions/Achievements	Award / Position / Recognition Secured	Title of Innovation / Start-up Secured the Award / Recognition	Had institute spent expenses either from own resource/received fund towards sending delegation to participate/represent the program/activity/event?	Total Expense Amount Incurred by Institute? (In Rupees)
Training programme of Startup mission	Entrepreneurship/Startup	Training	Kerala Startup Mission	Govt. Agency (State)	19-10-2018 00:00:00	23-10-2018 00:00:00	5	5	2	7	No	---	---	Yes	9809
Oneday Workshop on Intellectual property rights	IPR	Workshop	Sree Narayana College, Chempazhanthi, Thiruvananthapuram	Educational Institute	06-10-2018 00:00:00	06-10-2018 00:00:00	1	10	5	15	No	---	---	Yes	3000

Courses on Innovation, IPR and Entrepreneurship Development Offered During the Academic Period 2018-19

Title of Course/Subject Offered	Program Theme	Type of Course	Level of Course	Program Start Date	Program End Date	Program Duration(in Days)	Mode of Delivery	Total Enrolment Number	Total Number of Students Completed	Total Numbers of Contact Hours of Course
Entrepreneurship development and project management	Entrepreneurship/Startup	Elective/Core Credit Course	Master	01-10-2018 00:00:00	29-03-2019 00:00:00	180	Offline	60	60	75
Economics of innovation and technology	Innovation	Elective/Core Credit Course	Master	01-10-2018 00:00:00	29-03-2019 00:00:00	180	Offline	4	4	75
Social entrepreneurship	Entrepreneurship/Startup	Elective/Core Credit Course	Master	01-10-2018 00:00:00	29-03-2019 00:00:00	180	Offline	4	4	75

Technology management	Entrepreneurship/Startup	Elective/Core Credit Course	Master	01-10-2018 00:00:00	29-03-2019 00:00:00	180	Offline	10	10	75
Entrepreneurship and project management	Entrepreneurship/Startup	Elective/Core Credit Course	Master	02-04-2018 00:00:00	28-09-2018 00:00:00	180	Offline	60	60	75
Entrepreneur resource planning and business analytics	Entrepreneurship/Startup	Elective/Core Credit Course	Master	02-04-2018 00:00:00	28-09-2018 00:00:00	180	Offline	60	60	75
Operations management	Entrepreneurship/Startup	Elective/Core Credit Course	Master	02-04-2018 00:00:00	28-09-2018 00:00:00	180	Offline	56	56	75
IPR and patenting	IPR	Elective/Core Credit Course	Master	02-04-2018 00:00:00	28-09-2018 00:00:00	180	Offline	64	64	75

Innovation, Pre-Incubation & Incubation Centre/Facilities exists in campus

Name of Centre	Type of Facility	Year of Facility Creation	Facility Location / Address	Facility Incharge		Carpet Area of Facility	Had institute spent expenses either from own resource/received fund towards Establishment/Operation of Pre-Incubation & Incubation Centre/Facilities?		Had institute Generated Income either from Services Offered by Pre-Incubation & Incubation Centre/Facilities?	
							Yes	No		
Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	Incubation Unit	2016	Mahtama Gandhi University, P. D. Hills, Kottayam, Kerala	Facility Incharge Name	Dr. E. K. Radhakrishnan	22000 Sq. Ft.	Yes		No	
				Facility Incharge Email	radhakrishnanek@mgu.ac.in		Annual Capital Expenditure (In Rupees)	0		
				Facility Incharge Phone	9847901149		Annual Operational Expenditure (In Rupees)	4800000		
School of Pure and Applied Physics	Pre-Incubation Centre	2016	Mahatma Gandhi University, Kottayam	Facility Incharge Name	Dr. K Nandakumar	1152 Sq. Ft.	Yes		No	
				Facility Incharge Email	nkkalarikkal@mgu.ac.in		Annual Capital Expenditure (In Rupees)	0		
				Facility Incharge Phone	9447671962		Annual Operational Expenditure (In Rupees)	0		
School of Biosciences	Pre-Incubation Centre	2016	Mahatma Gandhi University, Kottayam	Facility Incharge Name	Dr. Jayachandran K	2880 Sq. Ft.	Yes		No	
				Facility Incharge Email	jayansbs@gmail.com		Annual Capital Expenditure (In Rupees)	0		
				Facility Incharge Phone	9446356612		Annual Operational Expenditure (In Rupees)	0		

Innovation, Pre-Incubation & Incubation Centre/Facilities exists in campus

School of Chemical Sciences	Pre-Incubation Centre	2016	Mahatma Gandhi University, Kottayam	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. Beena Mathew</td> </tr> <tr> <td>Facility Incharge Email</td> <td>beenams cs@gmail .com</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>94471454 12</td> </tr> </table>	Facility Incharge Name	Dr. Beena Mathew	Facility Incharge Email	beenams cs@gmail .com	Facility Incharge Phone	94471454 12	2448 Sq. Ft.	<table border="1"> <tr> <td colspan="2">Yes</td> </tr> <tr> <td>Annual Capital Expenditure (In Rupees)</td> <td>0</td> </tr> <tr> <td>Annual Operational Expenditure (In Rupees)</td> <td>0</td> </tr> </table>	Yes		Annual Capital Expenditure (In Rupees)	0	Annual Operational Expenditure (In Rupees)	0	No
Facility Incharge Name	Dr. Beena Mathew																		
Facility Incharge Email	beenams cs@gmail .com																		
Facility Incharge Phone	94471454 12																		
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Annual Operational Expenditure (In Rupees)	0																		
School of Environmental Sciences	Pre-Incubation Centre	2016	Mahatma Gandhi University, Kottayam	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. E V Ramasa my</td> </tr> <tr> <td>Facility Incharge Email</td> <td>evramasa my@mgu .ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>94470959 35</td> </tr> </table>	Facility Incharge Name	Dr. E V Ramasa my	Facility Incharge Email	evramasa my@mgu .ac.in	Facility Incharge Phone	94470959 35	1152 Sq. Ft.	<table border="1"> <tr> <td colspan="2">Yes</td> </tr> <tr> <td>Annual Capital Expenditure (In Rupees)</td> <td>0</td> </tr> <tr> <td>Annual Operational Expenditure (In Rupees)</td> <td>0</td> </tr> </table>	Yes		Annual Capital Expenditure (In Rupees)	0	Annual Operational Expenditure (In Rupees)	0	No
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Facility Incharge Email	evramasa my@mgu .ac.in																		
Facility Incharge Phone	94470959 35																		
Yes																			
Annual Capital Expenditure (In Rupees)	0																		
Annual Operational Expenditure (In Rupees)	0																		
International and Inter University Centre for Nanoscience and Nanotechnology	Pre-Incubation Centre	2016	Mahatma Gandhi University, Kottayam	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr. K Nandaku mar</td> </tr> <tr> <td>Facility Incharge Email</td> <td>nkkalarikk al@mgu. ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>94476719 62</td> </tr> </table>	Facility Incharge Name	Dr. K Nandaku mar	Facility Incharge Email	nkkalarikk al@mgu. ac.in	Facility Incharge Phone	94476719 62	768 Sq. Ft.	<table border="1"> <tr> <td colspan="2">Yes</td> </tr> <tr> <td>Annual Capital Expenditure (In Rupees)</td> <td>0</td> </tr> <tr> <td>Annual Operational Expenditure (In Rupees)</td> <td>0</td> </tr> </table>	Yes		Annual Capital Expenditure (In Rupees)	0	Annual Operational Expenditure (In Rupees)	0	No
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Facility Incharge Email	nkkalarikk al@mgu. ac.in																		
Facility Incharge Phone	94476719 62																		
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Annual Operational Expenditure (In Rupees)	0																		
Inter University Centre for Organic farming and Sustainable Agriculture	Pre-Incubation Centre	2017	Mahatma Gandhi University, Kottayam	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr.Santh osh P Thampi</td> </tr> <tr> <td>Facility Incharge Email</td> <td>drsptham pi@gmail. com</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>94471015 30</td> </tr> </table>	Facility Incharge Name	Dr.Santh osh P Thampi	Facility Incharge Email	drsptham pi@gmail. com	Facility Incharge Phone	94471015 30	80000 Sq. Ft.	<table border="1"> <tr> <td colspan="2">Yes</td> </tr> <tr> <td>Annual Capital Expenditure (In Rupees)</td> <td>0</td> </tr> <tr> <td>Annual Operational Expenditure (In Rupees)</td> <td>0</td> </tr> </table>	Yes		Annual Capital Expenditure (In Rupees)	0	Annual Operational Expenditure (In Rupees)	0	No
Facility Incharge Name	Dr.Santh osh P Thampi																		
Facility Incharge Email	drsptham pi@gmail. com																		
Facility Incharge Phone	94471015 30																		
Yes																			
Annual Capital Expenditure (In Rupees)	0																		
Annual Operational Expenditure (In Rupees)	0																		
Inter University Instrumentation Centre	Pre-Incubation Centre	2016	Mahatma Gandhi University, Kottayam	<table border="1"> <tr> <td>Facility Incharge Name</td> <td>Dr.C T Aravindak umar</td> </tr> <tr> <td>Facility Incharge Email</td> <td>cta@mgu .ac.in</td> </tr> <tr> <td>Facility Incharge Phone</td> <td>94473911 68</td> </tr> </table>	Facility Incharge Name	Dr.C T Aravindak umar	Facility Incharge Email	cta@mgu .ac.in	Facility Incharge Phone	94473911 68	576 Sq. Ft.	<table border="1"> <tr> <td colspan="2">Yes</td> </tr> <tr> <td>Annual Capital Expenditure (In Rupees)</td> <td>0</td> </tr> <tr> <td>Annual Operational Expenditure (In Rupees)</td> <td>0</td> </tr> </table>	Yes		Annual Capital Expenditure (In Rupees)	0	Annual Operational Expenditure (In Rupees)	0	No
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Innovation, Pre-Incubation & Incubation Centre/Facilities exists in campus

National Institute of Plant Science Technology	Pre-Incubation Centre	2016	Mahatma Gandhi University, Kottayam	Facility Incharge Name	Dr. M S Jisha	288 Sq. Ft.	Yes		No
				Facility Incharge Email	jishams@mgu.ac.in		Annual Capital Expenditure (In Rupees)	0	
				Facility Incharge Phone	9497664697		Annual Operational Expenditure (In Rupees)	0	

Grants / Funds Received by Pre-Incubation & Incubation Centre / Facilities exists in Campus

Name of Centre	Source of Grant / Fund	Agency Name	Agency Type	Had Received Grants / Funds by Pre-Incubation & Incubation Centre / Facilities exists in Campus?	Total Grants / Funds Received by Pre-Incubation & Incubation Centre / Facilities exists in Campus (In Rupees)
Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	Funding Agency	Kerala State Government	Govt. Agency (State)	No	---

Idea / Prototype / Innovation have received Grant / funding from Pre-Incubation / Incubation Centre / Facilities

Name of Idea / POC / Innovation / Prototype Received Funding / Grant from Centre	Name of Centre	Stage of Innovation (TRL Stage)	Innovation Developed by	Year of Innovation / Project Started	Type of Innovation	Current Status Pre-Incubation/Incubation Support Received	Current Status of Innovation, Stage of TRL it has reached	Had Centre/institute provided any Financial support (either own resource or fund received from agencies) in terms of Seed Grant/Fund Support to Idea / Prototype / Innovations Development during the financial period 2018-19	Had the Idea/Prototype/Innovations raised any Seed fund/Angel Investment/VC during the period of receiving pre-incubation/incubation support at your Pre-incubation/incubation or institute during the financial period 2018-19	Had the Incubation Centre/institute received any income/revenue from Idea/Prototype/Innovations for the pre-incubation/incubation support and the services offered by Pre-incubation/incubation or institute during the financial period 2018-19?
Nanopesticide	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Faculty and Student	2019	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees) 450000	No	No

Principal Innovator

Name	Type	Gender	Email	Contact
Dr. Radhakrishnan E. K.	Faculty	Male	radhakrishnanek@mgu.ac.in	9847901149

Idea / Prototype / Innovation have received Grant / funding from Pre-Incubation / Incubation Centre / Facilities

Name of Idea / POC / Innovation / Prototype Received Funding / Grant from Centre	Name of Centre	Stage of Innovation (TRL Stage)	Innovation Developed by	Year of Innovation / Project Started	Type of Innovation	Current Status Pre-Incubation/Incubation Support Received	Current Status of Innovation, Stage of TRL it has reached	Had Centre/institute provided any Financial support (either own resource or fund received from agencies) in terms of Seed Grant/Fund Support to Idea / Prototype / Innovations Development during the financial period 2018-19	Had the Idea/Prototype/Innovations raised any Seed fund/Angel Investment/VC during the period of receiving pre-incubation/incubation support at your Pre-incubation/incubation or institute during the financial period 2018-19	Had the Incubation Centre/institute received any income/revenue from Idea/Prototype/Innovations for the pre-incubation/incubation support and the services offered by Pre-incubation/incubation or institute during the financial period 2018-19?															
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Name	Type	Gender	Email	Contact																					
Shibilshad K.	Student	Male	shadshibilk@gmail.com	9747780811																					
Nanopower	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Faculty and Student	2018	Non-IP / Non-Patented Technology	Receiving Incubation Support at Incubation Centre	TRL 9 : Full commercial application, technology available for consumers.	No	<table border="1"> <thead> <tr> <th data-bbox="1839 592 2009 639">Yes</th> <th data-bbox="1839 639 2009 1018">Total Seed Fund/Angel Investment/VC Fund raised by Idea/Prototype/Innovations during the period of pre-incubation/incubation support at your Pre-incubation/incubation or institute financial period 2018-19 (in Rupees)</th> <th data-bbox="1839 1018 2009 1066">0</th> </tr> </thead> <tbody> <tr> <td data-bbox="1839 1066 2009 1251">Seedfund/Angel/VC Agency Name</td> <td data-bbox="1839 1251 2009 1410">Agro Bio-Tech Research Centre Limited, Kottayam</td> <td data-bbox="1839 1410 2009 1458">Agency Type</td> </tr> <tr> <td data-bbox="1839 1458 2009 1570"></td> <td data-bbox="1839 1458 2009 1570">Corporate/ Industry Association</td> <td data-bbox="1839 1570 2009 1570"></td> </tr> </tbody> </table>	Yes	Total Seed Fund/Angel Investment/VC Fund raised by Idea/Prototype/Innovations during the period of pre-incubation/incubation support at your Pre-incubation/incubation or institute financial period 2018-19 (in Rupees)	0	Seedfund/Angel/VC Agency Name	Agro Bio-Tech Research Centre Limited, Kottayam	Agency Type		Corporate/ Industry Association		No						
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Name of Idea / POC / Innovation / Prototype Received Funding / Grant from Centre	Name of Centre	Stage of Innovation (TRL Stage)	Innovation Developed by	Year of Innovation / Project Started	Type of Innovation	Current Status Pre-Incubation/Incubation Support Received	Current Status of Innovation, Stage of TRL it has reached	Had Centre/institute provided any Financial support (either own resource or fund received from agencies) in terms of Seed Grant/Fund Support to Idea / Prototype / Innovations Development during the financial period 2018-19	Had the Idea/Prototype/Innovations raised any Seed fund/Angel Investment/VC during the period of receiving pre-incubation/incubation support at your Pre-incubation/incubation or institute during the financial period 2018-19	Had the Incubation Centre/institute received any income/revenue from Idea/Prototype/Innovations for the pre-incubation/incubation support and the services offered by Pre-incubation/incubation or institute during the financial period 2018-19?															
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Biomats A ready to use planting sheet	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Faculty	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<table border="1"> <tr> <td data-bbox="1635 751 1827 798">Yes</td> </tr> <tr> <td data-bbox="1635 798 1827 1027">Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td> </tr> <tr> <td data-bbox="1635 1027 1827 1086">10000</td> </tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No	No												
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Natural products for health	Mahatma Gandhi University, Kottayam	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 2 : Technology formulation. Concept and application have been formulated.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No												
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Teena Merlin	Student	Female	teenajojo430@gmail.com	9744960667																					
Biopigment incorporated biopolymers, bandages, topical formulations for biomedical applications	Mahatma Gandhi University, Kottayam	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No												
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	Business potential of broadspectrum plant probiotic Bacillus sp	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No															
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Waste water treatment using Algae and recovery of energy	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No															
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Introducing Financial capability maven at college level	Mahatma Gandhi University, Kottayam	Business innovation and incubation centre,	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No												
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Enhancement of Business forecasting using artificial neural network	Mahatma Gandhi University, Kottayam	Business innovation and incubation centre,	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No												
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Innovative methods for QR code based data transmission with enhanced security and storage	An investigation into drowsiness detection of real time application	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<table border="1"> <tr><td data-bbox="1832 919 2002 973">Yes</td></tr> <tr><td data-bbox="1832 973 2002 1187">Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td data-bbox="1832 1187 2002 1244">10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No											
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	Development of coast effective bio-sensors for medical diagnosis	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 2 : Technology formulation. Concept and application have been formulated.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No											
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Nondestructive and rapid method for Quality assurance of fruits and vegetables using DRS		Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No											
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	Synthesis and characterization of novel glassy matrix for white light emitting diodes	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No															
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Subhash Gopi	Student	Male	subashitham@gmail.com	9495812613																					
Development of thick super hydrophilic binary metal oxide transparent coatings	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 2 : Technology formulation. Concept and application have been formulated.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 2 : Technology formulation. Concept and application have been formulated.	Yes	No															
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Sustainable PLA mesoporous silica biocomposites for active food packaging	Mahatma Gandhi University, Kottayam	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No												
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Jissy Jacob	Student	Female	jissyjacob990@gmail.com	9497135990																					
Synthesis of polymer supported Palladium catalyst and its application in heck and sonogashira type C	Mahatma Gandhi University, Kottayam	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 2 : Technology formulation. Concept and application have been formulated.	Student	2018	<table border="1"> <tr><th colspan="2">IP / Patented Technology</th></tr> <tr><td>Applied for Patent</td><td>Yes</td></tr> <tr><td>Patent Application No</td><td>2019 4104 1353</td></tr> <tr><td>Year of Patent Application</td><td>2019</td></tr> </table>	IP / Patented Technology		Applied for Patent	Yes	Patent Application No	2019 4104 1353	Year of Patent Application	2019	Still Under Development Process	TRL 2 : Technology formulation. Concept and application have been formulated.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No				
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Biodegradable and biocompatible nanostructure edible coatings for fresh vegetables	Synthesis of Zirconium based nano hybrid for photochemical and electrochemical applications	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 2 : Technology formulation. Concept and application have been formulated.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No											
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	Embedded system based biomedical waste management using fuzzy logic and AI	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No															
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Smart garbage management using IoT	Embedded system based biomedical waste management using fuzzy logic and AI	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No															
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	Development of microbial consortium with plant growth promoting and plant defence gene activating capabilities	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<table border="1"> <tr><td data-bbox="1827 411 2020 470">Yes</td></tr> <tr><td data-bbox="1827 470 2020 686">Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td data-bbox="1827 686 2020 743">10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No											
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	Development of herbicidal formulation from soil microorganisms (Bioherbicide)	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No															
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Mass extraction of chitosan from Crustacean waste for production of biopolymer	Development of herbicidal formulation from soil microorganisms (Bioherbicide)	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No															
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	An Ecofriendly approach in the production of sanitary napkins from naturally available plant fibres	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No											
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Name	Type	Gender	Email	Contact																				
Athira M	Student	Female	athiramclt@gmail.com	8086331181																				
Biofuel from waste residues, from the farmers to the farmers- a sustainable approach		Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No											
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	Phosphorous recycling through composting of aquatic weeds-an ecofriendly solution	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No															
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Water purification by chitosan nanoparticles	Phosphorous recycling through composting of aquatic weeds-an ecofriendly solution	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No															
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Water vapours-The unknown source for drinking water	Mahatma Gandhi University, Kottayam	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No												
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Development of natural finer reinforced starch based bioplastics	Mahatma Gandhi University, Kottayam	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No												
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The I6 technology		Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No												
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Online Designs and Printing	Mahatma Gandhi University, Kottayam	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No												
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Recycle Storage	Mahatma Gandhi University, Kottayam	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No												
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	Eco friendly destination and accommodation development and consultancy	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No											
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The Travel Cafe		Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No											
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	Website and Mobile application for supplementary accommodation database and rural tourism packages	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No															
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Name	Type	Gender	Email	Contact																					
Anjusha P P	Student	Male	anju15395@gmail.com	9496892053																					
Smart Society using IoT	Website and Mobile application for supplementary accommodation database and rural tourism packages	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No															
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	Smart phone based pH detection and mineral analysis on soil	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Dropped and No Further Action Taken	TRL 0 : Idea. Unproven concept, no testing has been performed.	Yes	No															
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Nimisha Dev,	Student	Female	nimidev1996@gmail.com	8129441009																					
Superpixel 8x-A Visual Quality Tool	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No															
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	Development of Nano structured Multiferroic Thin-films for Data Applications	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No															
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Nanotechnology for Sustainable Agriculture	Development of Nano structured Multiferroic Thin-films for Data Applications	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No															
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	Making An Applications For Aluminees- Building database of aluminees for raising external fund for the development of university	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No											
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Karthika Vijayan	Student	Female	karthikavnair1996@gmail.com	9544299164																				
Seawater-an alternative way of renewing the living organisms with the trace elements	No	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 0 : Idea. Unproven concept, no testing has been performed.	Student	2018	Non-IP / Non-Patented Technology	Dropped and No Further Action Taken	TRL 0 : Idea. Unproven concept, no testing has been performed.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No											
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	Crowd- funding for Student Start- ups	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No												
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Making handicrafts from water hyacinth-A solution to an environmental problem and a source of livelihood for local women of Vembanad - Kuttanad,Kerala.		Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No												
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	A study on the fabrication and efficacy of biochar based filters for water	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 0 : Idea. Unproven concept, no testing has been performed.	Student	2018	Non-IP / Non-Patented Technology	Dropped and No Further Action Taken	TRL 0 : Idea. Unproven concept, no testing has been performed.	<table border="1"> <tr><td data-bbox="1832 414 2011 470">Yes</td></tr> <tr><td data-bbox="1832 470 2011 678">Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td data-bbox="1832 678 2011 740">10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No											
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Devikrishna. M .G	Student	Female	devikrishnamg2016@gmail.com	8547783940																				
Application of vermicast and termicast in sustainable agrofarming as well as enrichment of the soil fertility	No	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<table border="1"> <tr><td data-bbox="1832 919 2011 975">Yes</td></tr> <tr><td data-bbox="1832 975 2011 1182">Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td data-bbox="1832 1182 2011 1244">10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No											
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	USB Flash Drives using Hybrid Multiferroic structures-A Facile Approach Towards Cost Effective, Environment Friendly, Flexible, Weightless and maximum data storage capable Memory Devices	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No											
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Graphene based materials for laser protection application	USB Flash Drives using Hybrid Multiferroic structures-A Facile Approach Towards Cost Effective, Environment Friendly, Flexible, Weightless and maximum data storage capable Memory Devices	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No											
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	Preparation of polymer nano composites using laser ablation of polymer solution	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No															
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Principal Innovator																									
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Parvathy N	Student	Female	parvathy88.nancy@gmail.com	9747638599																					
Photo degradation of organic pollutants in water	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No															
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	Water Purification using Modified water filter	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No												
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Name	Type	Gender	Email	Contact																					
Abhishek H	Student	Male	abhiemrald2@gmail.com	9497733234																					
Carbon composting(using activated charcoal from rice husk)	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No												
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	Specimen Botanical Garden	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No															
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Anju Jestin	Student	Female	peter.kalapurackal.mani@gmail.com	9447857016																					
Reuse of used baby diapers (pampers) as moisture retaining material for balcony gardens and organic farming of flowering and foliage plants	Specimen Botanical Garden	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No															
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	Production of low cost Tissue culture plantlets of Plumbago rosea	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No															
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Dr. Asha Saji	Faculty	Female	ashasaji@gmail.com	9605021567																					
Pedal system for Urinals and for wash basins	Production of low cost Tissue culture plantlets of Plumbago rosea	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Student	2018	Non-IP / Non-Patented Technology	Completed and Ready for Commercialization/Incubation	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype).	Yes	No															
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	Ground and Surface water purification using vetiver system	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 2 : Technology formulation. Concept and application have been formulated.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 2 : Technology formulation. Concept and application have been formulated.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No											
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Eco friendly domestication of Stingless bees(-Trigonia iridipennis Smith) in beehive made up of natural materials	Ground and Surface water purification using vetiver system	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No											
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	STEPS 1 (Brush and Teeth Combination)	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No															
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Name	Type	Gender	Email	Contact																					
Prinson Baby	Student	Male	prinsonbaby7@gmail.com	9496588239																					
Bioelectricity generation using microbial fuel cells (MFCs) with simultaneous wastewater treatment	No	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No															
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Sajithkumar K J	Student	Male	sajithkumarkj@gmail.com	9037771034																					

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	Development of organic complete food	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Alumni Entrepreneur	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No											
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Dr. Rahul Lakshman	Alumni Entrepreneur	Male	wondersahead@gmail.com	8943880095																				
Wound healing material	Development of organic complete food	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Alumni Entrepreneur	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No											
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	Nanocomposite film fabricated with chitosan nanoparticle, nanocellulose and clove oil for post-harvest packaging of fruits and vegetables	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No															
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Role of phyllosphere methylotrophs in alleviating water stress in Rice(oryza sativa)	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No															
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	Allelopathic potential of soil bacteria to control Barnyard Grass (Echinochloa crus galli) in Rice Fields	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No											
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Name	Type	Gender	Email	Contact																				
Sherin Varghese	Student	Female	sherinvrgs7@gmail.com	8075132855																				
Development of PGPR as Biofertilizers	Allelopathic potential of soil bacteria to control Barnyard Grass (Echinochloa crus galli) in Rice Fields	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No											
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	The Taste of Tomorrow	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No															
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Name	Type	Gender	Email	Contact																					
Amal C Shaji	Student	Male	amalirebox@gmail.com	7356633355																					
Nanochitin based formulations for enhanced chitinase production of rhizobacteria and plant growth enhancement	Mahatma Gandhi University, Kottayam	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No															
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	Quorum Sensing-Role in Waste Water Treatment and Sustainable Agriculture	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No											
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Name	Type	Gender	Email	Contact																				
Sheetal Sivankutty	Student	Female	sheetalmanugk82@gmail.com	9495436705																				
Automated irrigation system		Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No											
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	Waste water filtration and disinfection by using Moringa oleifera	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No															
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ZnO Nanoparticles-An effective Photocatalyst and an antibacterial agent via green synthesis	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No																
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Biodegradation of Chlorpyrifos pesticide using endophytic microorganisms from rice plants	Leachate Degradation Using Bacillus Subtilis	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	<table border="1"> <tr><td>Yes</td></tr> <tr><td>Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)</td></tr> <tr><td>10000</td></tr> </table>	Yes	Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)	10000	No											
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Edna Mary Varghese	Student	Female	edna.du.mary@yahoo.co.in	9747265695																				

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Name of Idea / POC / Innovation / Prototype Received Funding / Grant from Centre	Name of Centre	Stage of Innovation (TRL Stage)	Innovation Developed by	Year of Innovation / Project Started	Type of Innovation	Current Status Pre-Incubation/Incubation Support Received	Current Status of Innovation, Stage of TRL it has reached	Had Centre/institute provided any Financial support (either own resource or fund received from agencies) in terms of Seed Grant/Fund Support to Idea / Prototype / Innovations Development during the financial period 2018-19	Had the Idea/Prototype/Innovations raised any Seed fund/Angel Investment/VC during the period of receiving pre-incubation/incubation support at your Pre-incubation/incubation or institute during the financial period 2018-19	Had the Incubation Centre/institute received any income/revenue from Idea/Prototype/Innovations for the pre-incubation/incubation support and the services offered by Pre-incubation/incubation or institute during the financial period 2018-19?															
	Removal of heavy metals ions from waste water using nanoadsorbents	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No															
Total Seed Grant/Fund Amount Disbursed to above Idea/Prototype/Innovations Development by Centre (In Rupees)																									
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Waste water treatment using nanophotocatalyst	Removal of heavy metals ions from waste water using nanoadsorbents	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Student	2018	Non-IP / Non-Patented Technology	Still Under Development Process	TRL 1 : Basic research. Principles postulated and observed but no experimental proof available.	Yes	No															
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Principal Innovator																									
Name	Type	Gender	Email	Contact																					
Keerthana C S	Student	Female	keerthanakcs15@gmail.com	9526200975																					

Start-ups have received Grant / funding from Pre-Incubation / Incubation Centre / Facilities

Name of Start-up Received Funding / Grant from Centre	Name of Centre	Year of Registration	Registered as	Start-up with Corporate Identification Number (CIN) Registration	Start-up Founded by	Type of Innovation	Current Status Pre-Incubation/Incubation Support Received	Has the Start-up Grown to a stage of Employment Generation to 10 Numbers or an annual Turnover to Rs. 50 Lakhs during the financial year 2018-19	Had Centre/institute provided any Financial support (either own resource or fund received from agencies) in terms of Seed Grant/Fund Support to Start-up during the financial period 2018-19?	Had the Start-up raised any Seed fund/Angel Investment/VC during the period of receiving pre-incubation/incubation support at your Pre-incubation/incubation or institute during the financial period 2018-19?	Had the Incubation Centre/institute Received any income/revenue from Start-up for the pre-incubation/incubation support and the services offered by Pre-incubation/incubation or institute during the financial period 2018-19 ?
ELA-ECO LOVING ADVANCEMENT	Business innovation and incubation centre, Mahatma Gandhi University, Kottayam	2018-19	Registered Partnership	NA	Faculty and Student	Non-IP / Non-Patented Technology	Graduated from Incubation Unit/Centre	Yes	Yes Total Seed Grant/Fund Amount Disbursed to Start-up by Institute/Centre (In Rupees) 10000	No	No
Founder											
Name		DIN Number		Type		Gender		Email		Contact	
Dr. Mahesh Mohan		NA		Faculty		Male		maheshmohan@gmail.com		9447871596	
Co-Founder											
Name		DIN Number		Type		Gender		Email		Contact	
Balu Balachandran		NA		Student		Male		balubrpm@gmail.com		9496464591	
Shabeer Shajahan		NA		Student		Male		shabeershajahan@gmail.com		9496802756	
Gopikrishna V G		NA		Student		Male		gopikrsihnavg@gmail.com		9496464097	
Abdul Shukkur M		NA		Student		Male		shukkurm@gmail.com		9656705889	
Arun Sasi S		NA		Student		Male		arunkallely@yahoo.com		9846162263	
Aswin Rajan Varghese		NA		Student		Male		aswinkuriannoor2@yahoo.in		9497551092	

Co-Incubation Partnership

Type of Partnership	Partnership Institute Name	Type of Support Offered	No. of Student Projects/ Ideas / Innovation / Startups Supported	Date of MOU / Agreement Signed on
Incubation Services/Support Received from Other Institute/Incubator	Agro BioTech Research Centre Limited	Mentoring	1	14-01-2019
Incubation Services/Support Received from Other Institute/Incubator	Agro BioTech Research Centre Limited	Mentoring	1	26-12-2017

Technology Commercialization / Transfer

Name of Technology Licenced / Transferred / Commercialized	Technology Type	Type of Transfer	Patent / Licence Number	Patent / Licence Holder	Centre / Department of Origin of Licence	Licence Transferred to	Had institute spent expenses either from own resource/received fund to organise the program/activity/event?	Total Annual Income Received from Technology Transfer/Licensing (In Rupees)		
Experimental confirmation of plant defense enhancement by formulation designed from chitin and its derivatives to manage fungal diseases of plant	Non-IP/Non-Patented Technology	Licensing with Royalty Sharing	Processing	Patent/Licence Holder name (Institute Co-ownership is Must)	Sreejith S	School of Biosciences	Licence Transferred to	Industry	No	---
				Contact number of license holder	9074806857		Name of Industry/Start-up/Agency Received License/Technology	Agro BioTech Research Centre Limited		
				Email of Licence holder	sreejithpyd@gmail.com		Address of Agency	Kottayam		
				Gender	Male		Contact Number of Agency	9447047727		
							Email of Agency	abtecindia@gmail.com		
Business potential of broad spectrum plant probiotic Bacillus sp Dcl 1	Non-IP/Non-Patented Technology	Licensing with Royalty Sharing	Processing	Patent/Licence Holder name (Institute Co-ownership is Must)	Aswathy Jayakumar	School of Biosciences	Licence Transferred to	Industry	No	---
				Contact number of license holder	8848597120		Name of Industry/Start-up/Agency Received License/Technology	Agro Bio Tech Research Centre Limited		
				Email of Licence holder	aswathyjayakumarj@gmail.com		Address of Agency	Kottayam		
				Gender	Female		Contact Number of Agency	9447047727		
							Email of Agency	abtecindia@gmail.com		

Responsibility for accuracy and authenticity of data lies with the concerned institution.