



MAHATMA GANDHI UNIVERSITY

Time Table for IV Semester M.Sc (CSS) Degree Examinations (2018,2017,2016 Admissions Supplementary/ 2015,2014,2013&2012 Admission Mercy Chance) (CSS) Degree Examinations December 2021
Ref: Notification No. 34265/EA 1/1/2019/EA 1dated 30.10.2021

FACULTY OF SCIENCE

(Time: 1.30 pm to 4.30 pm on all days except Fridays, on Fridays 2.00 pm to 5.00 pm & 1.00 pm to 5.00 pm on *)

Branch I (A) Mathematics

Day & Date	Code	Subject
Tuesday 14.12.2021	MT04C16	Spectral Theory (Programme Core- Common for all)
<u>ELECTIVE COURSES</u>		
Thursday 16.12.2021	MT04E01	Analytic Number Theory
Friday 17.12.2021	MT04E02	Combinatorics
Monday 20.12.2021	MT04E03	Classical Mechanics
Tuesday 21.12.2021	MT04E04	Probability Theory
Wednesday 22.12.2021	MT04E05	Mathematical Economics
Monday 03.01.2022	MT04E06	Mathematics for Computing
Wednesday 05.01.2022	MT04E07	Operations Research
Thursday 06.01.2022	MT04E08	Special Functions
Friday 07.01.2022	MT04E09	Theory of Wavelets
Monday 10.01.2022	MT04E11	Commutative Algebra
Tuesday 11.01.2022	MT04E13	Algorithmic Graph Theory
Thursday 13.01.2022	MT04E14	Coding Theory
Friday 14.01.2022	MT04E15	Complex Algebraic Curves
Monday 17.01.2022	MT04E17	Fractal Geometry
Tuesday 18.01.2022	MT04E18	Lie Algebras
Wednesday 19.01.2022	MT04E19	Algebraic Topology

CHEMISTRY
BRANCH III PURE CHEMISTRY
ELECTIVE COURSES

Tuesday 14.12.2021	CH4E01	Advanced Inorganic Chemistry
Friday 17.12.2021	CH4E02	Advanced Organic Chemistry
Tuesday 21.12.2021	CH4E03	Advanced Physical Chemistry
Monday 03.01.2022	CH4E04	Polymer Chemistry
Wednesday 05.01.2022	CH4E05/POE04/ AP4E04/ PHE04	Analytical Chemistry (common with Br. IV (B) Polymer Chemistry & Br. V (A) Applied Chemistry, Br. V (B) Pharmaceutical Chemistry)

BRANCH IV (A) ANALYTICAL CHEMISTRY

Tuesday 14.12.2021	AN4E01	Analytical Procedures
Friday 17.12.2021	AN4E02	Instrumental Methods of Analysis
Tuesday 21.12.2021	AN4E03	Modern Analytical Techniques and Green Chemistry
Monday 03.01.2022	AN4E04	Applied Analysis and Aquatic Resources

BRANCH IV (B) POLYMER CHEMISTRY

Tuesday 14.12.2021	PO4E01	Polymerization Methods and Properties of Polymers
Friday 17.12.2021	PO4E02	Advances in Polymer Science and Technology
Tuesday 21.12.2021	PO4E03	Advanced Organic Chemistry
Wednesday 05.01.2022	PO4E04/CH4E05/ AP4E04/PH4E04	Analytical Chemistry { <i>Common</i> with Br. III Pure Chemistry, Br. V(A) Applied Chemistry, Br. V(B) Pharmaceutical Chemistry }

BRANCH V (A) APPLIED CHEMISTRY
ELECTIVE COURSES

Tuesday 14.12.2021	AP4E01	Fats, Oils and Waxes
Friday 17.12.2021	AP4E02	Industrial Oil and Fat Products
Tuesday 21.12.2021	AP4E03	Chemistry of Aromatics and Essential Oil Constituents
Wednesday 05.01.2022	AP4E04/CH4E05/ PO4E04/PH4E04	Analytical Chemistry { <i>Common</i> with Br. III Pure Chemistry, Br. IV (B) – Polymer Chemistry, Br. V(B) Pharmaceutical Chemistry }

BRANCH V (B) PHARMACEUTICAL CHEMISTRY
ELECTIVE COURSES

Tuesday 14.12.2021	PH4E01	Bacteriology and Bio-Chemistry
Friday 17.12.2021	PH4E02	Advanced Pharmaceutical Operations and Dispensing
Tuesday 21.12.2021	PH4E03	Medicinal Chemistry
Wednesday 05.01.2022	PH4E04/CH4E05/ AP4E04/PO4E04	Analytical Chemistry { <i>Common</i> with Br. III Pure Chemistry, Br. IV(B) Polymer Chemistry, Br. V(A)-Applied Chemistry }

BRANCH VI BOTANY
PROGRAMME ELECTIVE – BIO-TECHNOLOGY

Tuesday 14.12.2021	PE1	Tissue Culture and Microbial Bio-Technology
Friday 17.12.2021	PE2	Genetic Engineering
Tuesday 21.12.2021	PE3	Genomics, Proteomics and Bio-informatics

PROGRAMME ELECTIVE – ENVIRONMENTAL SCIENCE

Tuesday 14.12.2021	PE1	Basic Concepts in Environmental Studies
Friday 17.12.2021	PE2	Natural Resources and their Management
Tuesday 21.12.2021	PE3	Environmental Monitoring and Management

PROGRAMME ELECTIVE – MICROBIOLOGY

Tuesday 14.12.2021	PE1	Food Agricultural and Environmental Microbiology
Friday 17.12.2021	PE2	Clinical Microbiology
Tuesday 21.12.2021	PE3	Industrial Microbiology

BRANCH VIII ZOOLOGY
ELECTIVE COURSE A- ENTOMOLOGY

Tuesday 14.12.2021	ZY4AET01	Morphology and Taxonomy
Friday 17.12.2021	ZY4AET02	Anatomy and Physiology
Tuesday 21.12.2021	ZY4AET03	Applied Entomology

ELECTIVE COURSE B- FISHERY SCIENCE

Tuesday 14.12.2021	ZY4BET01	Ichthyology
Friday 17.12.2021	ZY4BET02	Fishery Resources & Management
Tuesday 21.12.2021	ZY4BET03	Fishery Technology

ELECTIVE COURSE C- ENVIRONMENTAL SCIENCE

Tuesday 14.12.2021	ZY4CET01	Environmental Science: Concepts & Approaches
Friday 17.12.2021	ZY4CET02	Environmental Pollution & Toxicology
Tuesday 21.12.2021	ZY4CET03	Environmental Management & Development

ELECTIVE COURSE D- MEDICAL MICROBIOLOGY

Tuesday 14.12.2021	ZY4DET01	General Microbiology & Parasitology
Friday 17.12.2021	ZY4DET02	Bacteriology , Virology & Mycology
Tuesday 21.12.2021	ZY4DET03	Clinical Microbiology

BRANCH IX STATISTICS

Tuesday 14.12.2021	ST4C16/AS4E01	Statistical Quality Control (Programme Core-Common with M.Sc Applied Statistics with Computer Applications)
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ELECTIVES

Thursday 16.12.2021	ST4E01/AS4E02	Econometric Methods (Common with M.Sc Applied Statistics with Computer Applications)
Friday 17.12.2021	ST4E02/AS4E03	Operations Research (Common with M.Sc Applied Statistics with Computer Applications)
Monday 20.12.2021	ST4E03	Statistical Reliability Analysis
Tuesday 21.12.2021	ST4E04/AS4E04	Population Dynamics (Common with M.Sc Applied Statistics with Computer Applications)
Wednesday 22.12.2021	ST4E05	Statistical Decision Theory
Monday 03.01.2022	ST4E06	Advanced Distribution Theory
Wednesday 05.01.2022	ST4E07/AS4E08	Time Series Analysis (Common with M.Sc Applied Statistics with Computer Applications)
Thursday 06.01.2022	ST4E08	Statistical Computing - 3

BRANCH II: PHYSICS

A. PURE PHYSICS

(Common for all)

Tuesday 14.12.2021	PH4C11	Atomic & Molecular Physics
Friday 17.12.2021	PH4C12	Nuclear & Particle Physics

ELECTIVE BRANCH A- ELECTRONICS

Tuesday 21.12.2021	PH4EA3	Instrumentation & Communication Electronics
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ELECTIVE BRANCH B- INFORMATICS

Tuesday 21.12.2021	PH4EB3	Computer Applications in Physics
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ELECTIVE BRANCH C- MATERIAL SCIENCE

Tuesday 21.12.2021	PH4EC3/PHEME3	Nano Structures & Characterisation (Common with D Material Sciences)
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ELECTIVE BRANCH D-THEORETICAL PHYSICS

Tuesday 21.12.2021	PH4ED3	Quantum Field Theory
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OPEN ELECTIVE BRANCH

Monday 03.01.2022	PH4OE1	Optoelectronics
Wednesday 05.01.2022	PH4OE2	Software Engineering & Web Design
Thursday 06.01.2022	PH4OE3/PH4ME4	Thin Film & Nano Science (Common with D Material Science)
Friday 07.01.2022	PH4OE4	General Relativity & Cosmology

C. APPLIED PHYSICS

Tuesday 14.12.2021	AP4C11	Nuclear Physics & Astrophysics
Friday 17.12.2021	AP4C12	Computational Physics
Tuesday 21.12.2021	AP4E03	Photonics II
Monday 03.01.2022	AP4E04	Fibreoptics

D. MATERIAL SCIENCES

Tuesday 14.12.2021	PH4MC1	Advanced Quantum Mechanics
Friday 17.12.2021	PH4MC2	Atomic & Molecular Spectroscopy
Tuesday 21.12.2021	PH4ME3/PH4EC3	Nano Structures & Characterisation (<i>Common with A. Pure Physics</i>)
Thursday 06.01.2022	PH4ME4/PH4OE3	Thin Film & Nano Science (<i>Common with A. Pure Physics</i>)

BRANCH X: HOME SCIENCE

A-CHILD DEVELOPMENT & BEHAVIOUR SCIENCE

Tuesday 14.12.2021	HSCD4ET01	Gerontology & Care of the Elderly
Friday 17.12.2021	HSCD4ET02	Guidance & Counselling
Tuesday 21.12.2021	HSCD4ET03/ HSRM4ET03	Women's Studies (<i>Common</i> with B-Resource Management and Interior Designing)
Monday 03.01.2022	HSCD4ET04/ HSRM4ET04/ HFN4ET04/ HSDF4ET04	Entrepreneurship Management { <i>Common with X(B), X(C) & XE</i> }

B-RESOURCE MANAGEMENT & INTERIOR DESIGNING

Tuesday 14.12.2021	HSRM4ET01	Landscaping & Floriculture
Friday 17.12.2021	HSRM4ET02	Commercial & Residential Interior Space Designing
Tuesday 21.12.2021	HSRM4ET03/ HSCD4ET03	Women's Studies (Common with A, Child Development and Behaviour Science)
Monday 03.01.2022	HSRM4ET04/ HSCD4ET04/ HSFN4ET04/ HSDF4ET04	Entrepreneurship Management {Common with X(A), X(C) and X(E)}

C- FOOD SCIENCE & NUTRITION

Tuesday 14.12.2021	HSFN4ET01/ HSDF4ET01	Public Health Nutrition {Common with X(E)}
Friday 17.12.2021	HSFN4ET02	Biophysical Techniques
Tuesday 21.12.2021	HSFN4ET03/ HSDF4ET03	Nutrition for Sports & Fitness {Common with X(E)}
Monday 03.01.2022	HSFN4ET04/ HSRM4ET04/ HSCD4ET04/ HSDF4ET04	Entrepreneurship Management {Common with X(A), X(B) and X(E)}

D – COMMUNITY & FAMILY SCIENCE

Tuesday 14.12.2021	HSCF4ET01	Sustainable Development & Organisation
Friday 17.12.2021	HSCF4ET02	Product Development, Marketing & Entrepreneurship Development
Tuesday 21.12.2021	HSCF4ET03	Human Rights, Mental Health Perspectives & Gerontology
Monday 03.01.2022	HSCF4ET04	Clothes, Furnishing & Nutrition for Special Needs (Sports, Fitness & Disabilities)

E-DIETETICS & FOOD SERVICE MANAGEMENT

Tuesday 14.12.2021	HSDF4ET01/ HSFN4ET01	Public Health Nutrition {Common with X(C)}
Friday 17.12.2021	HSDF4ET02	Food Microbiology & Sanitation
Tuesday 21.12.2021	HSDF4ET03/ HSFN4ET03	Nutrition for Sports & Fitness {Common with X(C)}
Monday 03.01.2022	HSDF4ET04/ HSFN4ET04/ HSRM4ET04/ HSCD4ET04	Entrepreneurship Management {Common with X(A), X(B) and X(C)}

BRANCH XI: GEOLOGY

Tuesday 14.12.2021	GL4E1A	Marine Geology
Friday 17.12.2021	GL4E2B	Environmental Geology & Disaster Management
Tuesday 21.12.2021	GL4E3A	Petroleum Geology & Micro Paleontology

BIO-STATISTICS

Tuesday 14.12.2021	BSTA401	R Programming Bayesian Inference and MCMC Methods
Friday 17.12.2021	BSTA402	Survival Analysis and Demography
Tuesday 21.12.2021	BSTA403	Controlled Clinical Trials and Operations Research
Monday 03.01.2022	BSTA404	Bioinformatics and Computational Biology
Friday 07.01.2021	BSTA405	Advanced Statistical Computing and Data Analysis Using Advanced SAS and R *(4 hours - 1PM to 5 PM)

APPLIED STATISTICS WITH COMPUTER APPLICATIONS

(Common with M.Sc. Statistics)

Tuesday 14.12.2021	AS4E01/ST4C16	Statistical Quality Control (Common with Br IX Statistics)
Thursday 16.12.2021	AS4E02/ST4E01	Econometric Methods (Common with Br IX Statistics)
Friday 17.12.2021	AS4E03/ST4E02	Operations Research (Common with Br IX Statistics)
Tuesday 21.12.2021	AS4E04/ST4E04	Population Dynamics (Common with Br IX Statistics)
Wednesday 05.01.2022	AS4E08/ST4E07	Time Series Analysis (Common with Br IX Statistics)

(Not Common with M.Sc. Statistics)

Friday 07.01.2022	AS4E05	JAVA Programming
Tuesday 11.01.2022	AS4C16	Multivariate Analysis
Thursday 13.01.2022	AS4E06	Statistical Computing -2

OR & CA

Tuesday 14.12.2021	ORSE03	Advanced Game Theory
Friday 17.12.2021	ORSE06	Quality Control & Assurance
Tuesday 21.12.2021	ORCE01	Computer Networks
Monday 03.01.2022	ORCE02	Web Programming Using JavaScript & PHP

TEXTILES & FASHION

Tuesday 14.12.2021	TF4E01P	Entrepreneurship Management & Retailing
Friday 17.12.2021	TF4E02P	Technical Textiles
Tuesday 21.12.2021	TF4E03P	Fashion Presentation & Choreography

ACTUARIAL SCIENCE

Tuesday 14.12.2021	ACTS401	Life & Health Contingencies -II
Friday 17.12.2021	ACTS402	Statistical Methods -II
Tuesday 21.12.2021	ACTS403	Finance & Financial Reporting -II
Monday 03.01.2022	ACTS404	Actuarial Risk Management -II
Wednesday 05.01.2022	ACTS405	Marketing of Services

PSYCHOLOGY

Tuesday 14.12.2021	PS4PE13	Contemporary Issues & Role of Psychology in Social Engineering
Friday 17.12.2021	PS4PE14B2	Clinical Psychology - II
Tuesday 21.12.2021	PS4PE15B3	Psychotherapy
Monday 03.01.2022	PS4PE14C2	Psychology of Differently Abled
Wednesday 05.01.2022	PS4PE15C3	Counselling in School Setting
Friday 07.01.2022	PS4PE14E2	Forensic Psychology
Tuesday 11.01.2022	PS4PE15E3	Criminal Forensic Psychology
Thursday 13.01.2022	PS4PE14D2	Human Resource Development
Monday 17.01.2022	PS4PE15D3	Consumer Behaviour and Advertising Psychology

FOOD TECHNOLOGY AND QUALITY ASSURANCE/ FOOD SCIENCE AND QUALITY CONTROL/ FOOD SCIENCE AND TECHNOLOGY

Tuesday 14.12.2021	FT4MPE719	Food Quality Assurance & Management
Friday 17.12.2021	FT4MPE720	Fermentation Technology
Tuesday 21.12.2021	FT4MPE721	Food Processing Technology
Monday 03.01.2022	FT4MPE722	Spices & Flavour Technology
Wednesday 05.01.2022	FT4MPE723	Food Industrial Sanitation & Hygiene

FOOD AND INDUSTRIAL MICROBIOLOGY

Tuesday 14.12.2021	FDIM411	Food in Relation to Disease
Friday 17.12.2021	FDIM412	Biostatistics, Computer Applications and Research Methodology
Tuesday 21.12.2021	FDIM4E7	Elective: Nutraceuticals

COMPUTER SCIENCE

Tuesday 14.12.2021	MCS 4C1	Data Mining
<u>ELECTIVE GROUP- A</u>		
Friday 17.12.2021	MCS 4EA1 MCS 4EA2 MCS 4EA3 MCS 4EA4 MCS 4EA5 MCS 4EA6	Web Programming – Lamp Distributed Computing Compiler Construction Computational Linguistics Visual Programming Visual C++

ELECTIVE GROUP - B		
Tuesday 21.12.2021	MCS 4EB1 MCS 4EB2 MCS 4EB3 MCS 4EB4 MCS 4EB5 MCS 4EB6	Soft Computing System Security Advanced Java Programming Database Administration using SQL Server Microprocessors and Assembly Language Programming Advanced Computer Architecture

BIOTECHNOLOGY (ELECTIVES ONLY)

Tuesday 14.12.2021	BTPG 19E	Advanced Methods in Molecular Diagnostics
Thursday 16.12.2021	BTPG 20E	Biotechnology in Molecular Pathogenesis & Clinical Diagnosis
Friday 17.12.2021	BTPG 21E	Biotechnology & Forensic Medicine
Monday 20.12.2021	BTPG 22E	Genomics, Proteomics & Nanotechnology
Tuesday 21.12.2021	BTPG 23E	Molecular Breeding
Wednesday 22.12.2021	BTPG 24E	Molecular Markers in Cancer
Monday 03.01.2022	BTPG 25E	Cancer Biology
Wednesday 05.01.2022	BTPG 26E	Project Management & Pharmaco-Economics & Pharmacogenomics
Thursday 06.01.2022	BTPG 27E	Biopharmaceuticals & Applied Nanotechnology
Friday 07.01.2022	BTPG 28E	IPR, Biosafety & Biodiversity
Monday 10.01.2022	BTPG 29E	Biotechnology & IPR
Tuesday 11.01.2022	BTPG 30E	Microbial Biotechnology
Thursday 13.01.2022	BTPG 31E	Microbial Food Safety
Friday 14.01.2022	BTPG 32E	Food Biotechnology
Monday 17.01.2022	BTPG 33E	Nutritional Biochemistry
Tuesday 18.01.2022	BTPG 34E	Neurobiochemistry
Wednesday 19.01.2022	BTPG 35E	Developmental Biology
Thursday 20.01.2022	BTPG 36E	Physiology
Friday 21.01.2022	BTPG 37E	Environmental Science
Monday 24.01.2022	BTPG 38E	Evolution & Behaviour

MICROBIOLOGY

Tuesday 14.12.2021	MB4PG11	Systemic Bacteriology
Friday 17.12.2021	MB4PG12	Virology, Mycology & Protozoology
Tuesday 21.12.2021	MB4PGE7	Clinical Microbiology
Monday 03.01.2022	MB4PGE8	Microbial Genetics
Wednesday 05.01.2022	MB4PGE9	Biostatistics & Research Methodology

BIOCHEMISTRY

Tuesday 14.12.2021	BC4M004PE1	Clinical Biochemistry
Friday 17.12.2021	BC4M004PE2	Environmental Sciences
Tuesday 21.12.2021	BC4M004PE3	Nutrition Health & Life Style Diseases
Monday 03.01.2022	BC4M004PE4	Research Methodology IPR & Bioethics
Wednesday 05.01.2022	BC4M004PE5	Plant & Animal Cell Culture
Friday 07.01.2022	BC4M004PE6	Biochemical Toxicology

BIOINFORMATICS

Tuesday 14.12.2021	BIF4M004PE1	Genetic Engineering & IPR
Friday 17.12.2021	BIF4M004PE2	CADD & Molecular Modelling
Tuesday 21.12.2021	BIF4M004PE3	Bioprogramming & Soft Computing Techniques
Monday 03.01.2022	BIF4M004PE4	IPR & Bioethics
Wednesday 05.01.2022	BIF4M004PE5	Pharmaceutical Chemistry & Action of Selected Drugs
Friday 07.01.2022	BIF4M004PE6	Basics of Nanotechnology

APPLIED MICROBIOLOGY

Tuesday 14.12.2021	PG4AMBE01	Pharmaceutical Microbiology
Friday 17.12.2021	PG4AMBE02	Microbial Ecotechnology & Soil Microbiology
Tuesday 21.12.2021	PG4AMBE03	Clinical Microbiology
Monday 03.01.2022	PG4AMBE04	Nano Biotechnology & Space Microbiology

PLANT BIOTECHNOLOGY

Tuesday 14.12.2021	PBT4M004PE1	Research Methodology & Biostatistics
Friday 17.12.2021	PBT4M004PE2	Genomics & Proteomics
Tuesday 21.12.2021	PBT4M004PE3	Transgenic Techniques for Crop Improvement
Monday 03.01.2022	PBT4M004PE4	Green House Management & Plant Protection
Wednesday 05.01.2022	PBT4M004PE5	Marine Biotechnology
Friday 07.01.2022	PBT4M004PE6	Business Management

ELECTRONICS

Tuesday 14.12.2021	MES4C1	Advanced Embedded Systems
Friday 17.12.2021	MES4EA1 MES4EA2 MES4EA3	Nanotechnology Secure Communication Advanced Digital Communication
Tuesday 21.12.2021	MES4EB1 MES4EB2 MES4EB3	Biomedical Electronics and Biosensors RF Signals and Applications Artificial Intelligence and Neural Networks

PHYTOMEDICAL SCIENCE AND TECHNOLOGY

Tuesday 14.12.2021	PHYTOM4M004PE1	Pharmacology, Clinical Trial and Biostatistics
Friday 17.12.2021	PHYTOM4M004PE2	Product Development, Quality Control and IPR
Tuesday 21.12.2021	PHYTOM4M004PE3	Business Plan and Entrepreneurship Development
Monday 03.01.2022	PHYTOM4M004PE4	Research Methodology and Biostatistics
Wednesday 05.01.2022	PHYTOM4M004PE5	Transgenic Techniques for Crop Improvement
Friday 07.01.2022	PHYTOM4M004PE6	Basics of Plant Tissue Culture

APPLIED ELECTRONICS

	<i>ELECTIVE -1</i>	
Tuesday 14.12.2021	MAE4E11	Satellite Communication
	MAE4E12	Wireless Communication
	MAE4E13	Biomedical Instrumentation
	<i>ELECTIVE -2</i>	
Friday 17.12.2021	MAE4E21	Image Processing
	MAE4E22	Artificial Intelligence
	MAE4E23	Robotics

	<i>ELECTIVE -3</i>	
Tuesday 21.12.2021	MAE4E31	Non – Conventional Energy Systems
	MAE4E32	Micro Electro Mechanical Systems
	MAE4E33	Nano Electronics

**Sd/-
Dr. C M SREEJIT
Controller of Examinations**

P.D.Hills
27.11.2021

To

1. The Principals of the Colleges concerned
2. PS to VC/PVC.
3. PRO for a Press Release/Enquiry
4. JR II/ IV/DR I/VIII/AR VIII/IX/XI/XII/ XVIII/XXI/XXII(Exams)
5. PA to C.E./C.E's.Sn./CT&D Sn./ENI/II/III/VIII/CETEX/Front Office
6. EB/Tabulation Sns.concerned/Ac.C/ Ac.AV
7. SF/FC

Approved for Issue

SECTION OFFICER