

AHMEDNAGAR JILHA MARATHA VIDYA PRASARAK SAMAJ'S
New Arts, Commerce & Science College, Ahmednagar (Autonomous)
M.Sc. All Subjects CBCS 2021 Pattern

Examination of November/December 2024

INSTRUCTIONS FOR CANDIDATES

- Candidates are required to be present at the examination centre, THIRTY MINUTES before the stipulated time.
- Candidates are forbidden from taking any material into the examination hall that can be treated as a malpractice.
- Candidates are requested to see the Notice Board at their center of examination regularly for changes if any that may be notified later in the program.
- No request shall be granted for change in time or date for the University Examination on any ground.
- Candidates are requested to note the Day, Date and Time of Paper.
- Candidates are permitted to use stencils at the time of examination.
- The exchanges of side-rules, drawing instruments of other materials used in the examination hall is not permitted at the time of examination. Candidates must bring their own instruments and will not be allowed to borrow from each other under any circumstances.
- Use of non-programmable battery operated electronic pocket size Calculator is allowed. The exchange of Calculators is not allowed. Electronics Devices including mobile are not allowed at the time of examination.
- The written examination will be conducted in the following order.

M.Sc. All Subjects CBCS 2021 Pattern

Sem I (Backlog)

Time: 10.00 – 01.00

| Day & Date | Paper Code | Subject |
|-----------------------|--------------------|---|
| Monday 30/12/2024 | MSC-CH111T | Inorganic Chemistry-I (Molecular Symmetry and Chemistry of Main Group Elements) |
| | MSC-BO 111 T | Plant Systematics I |
| | MSC-ZO 111 T | Anatomy and Physiology of Non chordates and Cell Biology |
| | MSC-MT 111 T | Linear Algebra |
| | MSC-PH 111 T | Mathematical Methods in Physics |
| | MSC-ES 111T | Advanced Communication Tech |
| | MSC ST-111 T | Linear Algebra Using SCILAB |
| | MSC-BT 111T | Advanced Biological Chemistry |
| | MSC-MR 111 T | Cell Organization and Biochemistry |
| | MSC-EN 111 T | Environmental Biology & Biodiversity |
| | MSCWBAT 111T | Microbiology of Alcohol, Beer and Wine |
| | MSC-CS 111T | Paradigm of Programming Language |
| | MSC-CA 111T | Internet and Java Programming |
| | MSC BC 111 T | Biomolecules |
| | MSC-MS111T | Introduction to Communication Studies |
| Tuesday 31/12/2024 | MSC-CH112T | Organic Chemistry-I (Basic Organic Chemistry) |
| | MSC-BO112 T | Cell Biology and Evolution |
| | MSC-ZO 112 T | Biochemical Techniques and Skills in Scientific Communication |
| | MSC-MT 112 T | Real Analysis |
| | MSC-PH 112 T | Classical Mechanics |
| | MSC-ES 112T | Advanced Analog Circuit Design |
| | MSCST-112 T | Mathematical Analysis |
| | MSC-BT 112T | Cell and Molecular Biology |
| | MSC-MR 112 T | Quantitative Biology |
| | MSC-EN 112 T | Environmental Physics & Chemistry |
| | MSCWBAT 112T | Biochemistry of Alcohol, Beer and Wine |
| | MSC-CS 112T | Database Technologies |
| | MSC-CA 112T | Design and Analysis of Algorithms |
| | MSC BC 112 T | Cell Biochemistry |
| MSC-MS112TP | Media Technologies | |

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| Wednesday 01/01/2025 | MSC-CH113T | Fundamentals of Physical Chemistry |
| | MSC-BO113 T | Cytogenetics and Plant Breeding |
| | MSC-ZO 113 T | Molecular Biology |
| | MSC-MT 113 T | Group Theory |
| | MSC-PH 113 T | Electronics |
| | MSC-ES 113T | Advanced Digital System |
| | MSCST-113 T | Probability Distributions |
| | MSC-BT 113T | Immunology |
| | MSC-MR 113 T | Microbial Systematics |
| | MSC-EN 113 T | Environmental Geosciences |
| | MSCWBAT 113T | Viticulture |
| | MSC-CS 113T | Design and Analysis of Algorithms |
| | MSC-CA 113T | Advance Databases |
| | MSC BC 113 T | Enzymology |
| | MSC-MS113T | Media Law and Ethics |
| Thursday 02/01/2025 | MSC-CH117T | A: Chemical Kinetics and Reaction Dynamics B: Mathematics for Chemists |
| | MSC-BO 117 T | A. Biofertilizer and Algal Technology B. Pomo culture and Fruit Processing Technology |
| | MSC-ZO 117 T | Biochemistry |
| | MSC-MT 114 T | Advanced Calculus |
| | MSC-PH 117 T | Elective I Theory (Physics of Nanomaterials) |
| | MSC-ES117 T A | Fundamental and Application |
| | MSCST-114 T | Sampling Theory and Methods |
| | MSC-BT 117 T | A. Environmental Biotechnology B. Food Biotechnology |
| | MSC-MR 117 T | Fungal Systematics and Extremophiles |
| | MSC-EN117 T | Environmental Statistics-I(Elective-2) |
| | MSCWBAT 117T | A. Fermentation technology |
| | MSC-CS 117T | A. Artificial Intelligence B Cloud Computing |
| | MSC-CA 115T(A) | Web Technology |
| | MSC BC 117 A T | Genetics |
| MSC-MS116T (A) | New Media Studies | |
| Friday 03/01/2025 | MSC-CH119T | Introduction to Chemical Biology |
| | MSC-BO119 T | Biofuel Technology |
| | MSC-ZO 119 T | Economic Zoology |
| | MSC-MT 115 T | Ordinary Differential equations |
| | MSC-PH 119 T | General Elective I (Digital Electronics) |
| | MSC-ES119T | Computer Organization |
| | MSCST-115 T | Modeling and Simulation |
| | MSC-BT 119 T | Genetics |
| | MSC-MR 119 T | Evolution and Ecology |
| | MSC-EN 119 T | Environmental Instrumentation |
| | MSCWBAT 119T | Alcoholic beverages and Health |
| | MSC-CS 119T | Research Methodology – I |
| | MSC BC 119 T | Protein and Enzyme Technology |
| | MSC-MS117T | Film Appreciation |
| Saturday 04/01/2025 | | Constitution of India |

M.Sc. All Subjects CBCS 2021 Pattern
Semester II (Backlog)
Time: 02.00 – 05.00

| Day & Date | Paper Code | Subject |
|-------------------------|---|--|
| Monday 30/12/2024 | MSC-CH211T | Inorganic Chemistry-II (Coordination and Bioinorganic Chemistry) |
| | MSC-BO211 T | Plant Systematics -II |
| | MSC-ZO 211 T | Anatomy and Physiology of Chordates and Developmental Biology |
| | MSC-MT 211 T | Complex Analysis |
| | MSC-PH 211 T | Electrodynamics |
| | MSC-ES 211T | Electromagnetic Fields and Antennas |
| | MSCST-211 | Probability Theory |
| | MSC-BT 211T | Genetic Engineering |
| | MSC-MR211T | Instrumentation and Molecular Biophysics |
| | MSC-EN211T | Water & Soil Pollution: Management & Mitigation |
| | MSCWBAT 211T | Alcohol Technology-I |
| | MSC-CS 211 T | Advanced Operating System |
| | MSC-CA 211T | ASP.NET |
| | MSC BC 211 T | Metabolism |
| MSC-MS 211T | A. Audio Visual Production Process B. Journalism | |
| Tuesday 31/12/2024 | MSC-CH212T | Organic Chemistry-II (Photochemistry, Pericyclic and Organic Spectroscopy) |
| | MSC-BO212 T | Molecular Biology |
| | MSC-ZO 212 T | Endocrinology and Population Ecology |
| | MSC-MT 212 T | General Topology |
| | MSC-PH 212 T | Quantum Mechanics |
| | MSC-ES 212T | Advanced Embedded System Design |
| | MSCST-212 | Statistical Inference |
| | MSC-BT 212T | Plant Biotechnology |
| | MSC-MR212T | Molecular Biology I |
| | MSC-EN212T | Air, Noise & Radiation Pollution: Management & Mitigation |
| | MSCWBAT 212T | Brewing Technology-I |
| | MSC-CS 212 T | Information System Security |
| | MSC-CA 212T | Operating System Concepts |
| | MSC BC 212 T | Physical Biochemistry |
| MSC-MS 212T | Media : Society and Culture | |
| Wednesday 01/01/2025 | MSC-CH213T | Molecular Spectroscopy |
| | MSC-BO213 T | Biochemistry |
| | MSC-ZO 213 T | Biostatistics and Bioinformatics |
| | MSC-MT 213 T | Ring Theory |

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| | MSC-PH 213 T | Atoms and Molecules |
| | MSC-ES 213T | Optical Fiber Communication (OFC) |
| | MSCST-213 | Multivariate Analysis using R |
| | MSC-BT 213T | Bacteriology |
| | MSC-MR213T | Nitrogen Metabolism, Respiration and Photosynthesis |
| | MSC-EN213T | Environmental Law, Ethics & Policy |
| | MSCWBAT 213T | Oenology-I |
| | MSC-CS 213 T | Mobile Technologies |
| | MSC-CA 213T | Advance Networking Concepts |
| | MSC BC 213 T | General Microbiology |
| | MSC-MS 213T | Writing for the Media Platforms |
| Thursday 02/01/2025 | MSC-CH217T | A: Nuclear and Radiation Chemistry B: Material Characterization Technique |
| | MSC-BO217 T A | A. Floriculture and Nursery Management B. Mushroom Cultivation and Bio pesticide Technology |
| | MSC-ZO 217 T (A) | Genetics |
| | MSC-MT 214 T | A. Numerical Analysis Operations Research |
| | MSC-PH 217 T | Physics of Thin Films |
| | MSC-ES217 T A | Digital Image Processing (DIP) |
| | MSCST-214 | Regression Analysis Using R |
| | MSC-BT 217T | Biostatistics |
| | MSC-MR217T | Enzymology and Bioenergetics |
| | MSC EN 217 A | Water and Waste Water Technology |
| | MSCWBAT 217T | A. Chemical Engineering and Plant Management –I B Laboratory Management |
| | MSC-CS 217 T | Dot Net |
| | MSC-CA 215T | Django |
| | MSC BC 217 A T | Research Methodology |
| MSC-MS 216T | Advertising | |
| Friday 03/01/2025 | MSC-CH219T | Organometallic and Inorganic Reaction Mechanism |
| | MSC-BO219 T | GE-2 Plant Organism Interaction |
| | MSC-ZO 219 T | Ethology |
| | MSC-MT 215 T (A) | Partial Differential Equations |
| | MSC-PH 219 T | Sensors and Transducer |
| | MSC-ES219T | Electronic Instrumentation |
| | MSC-ST-215 | Computer Intensive Operation Research |
| | MSC-BT 219A | Virology |
| | MSC-MR219T | Basic Virology |
| | MSC-EN219T | Research Methodology |
| | MSCWBAT 219T | Regulatory policies for alcoholic beverages |
| | MSC-CS219T | Internet of Things (IoT) |
| | MSC-CA 216 T | Data Warehousing and Data Mining |
| MSC BC 219 T | Forensic Science | |
| MSC-MS 217T | Film Studies | |

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| Saturday 04/01/2025 | | Human Rights |
| Monday 06/01/2025 | MSC-MT 216 T | Probability and Statistical Techniques |

M.Sc. All Subjects CBCS 2021 Pattern
Sem III (Backlog)
Time: 10.00 – 01.00

| Day & Date | Paper Code | Subject |
|-----------------------|--|---|
| Monday 06/01/2025 | MSC-OC311T | Organic Reaction Mechanism |
| | MSC-IC311T | Bioinorganic and Medicinal Inorganic Chemistry |
| | MSC-DC311T | Advanced Analytical Methods |
| | MSC-AC311T | Electrochemical and Thermogravimetric Methods of chemical analysis |
| | MSC-BO311 T | Botanical Techniques |
| | MSC-ZO 311 T | Animal Physiology I |
| | MSC-MT 311 T | Functional Analysis |
| | MSC-PH 311 T | Statistical Mechanics |
| | MSC-ES 311 T | Digital Signal Processing (DSP) |
| | MSCST-311 T | Bayesian Inference using R |
| | MSC-BT 311T | Animal Biotechnology and Stem Cell Technology |
| | MSC-MR311T | Immunology |
| | MSC-EN311 T | EIA & Environmental Audit |
| | MSC-WBAT311 T | Alcohol Technology II |
| | MSC-CS 311 T | Software Project Management |
| | MSC-CA 311T | Mobile Application Development Using Android |
| | MSC-BC 311 T | Molecular Biology |
| MSC-MS 311T | A. Direction B. Mobile Journalism | |
| Tuesday 07/01/2025 | MSC-OC312T | Structure Determination of Organic Compounds by Spectroscopic Methods |
| | MSC-IC312T | Inorganic Reaction Mechanism |
| | MSC-DC312T | Drug Discovery and Development |
| | MSC-AC312T | Analytical Method Development and Extraction Techniques |
| | MSC-BO312 T | Plant Physiology |
| | MSC-ZO 312 T | Immunology and Evolution |
| | MSC-MT 312 T | Field Theory |
| | MSC-PH 312 T | Solid State Physics |
| | MSC-ES 312 T | Internet of Things (IoT) |
| | MSCST-312 T | Stochastic Process |
| | MSC-BT 312T | Bioprocess Engineering |
| | MSC-MR312T | Molecular Biology II |
| | MSC-EN312 T | Remote Sensing & GIS |
| | MSC-WBAT312 T | Brewing Technology II |
| | MSC-CS 312 T | Machine Learning |
| | MSC-CA 312T | Artificial Intelligence |
| | MSC-BC 312 T | Medical Biochemistry and Immunology |
| MSC-MS 312T | A. Audio Visual Production Techniques B. Research Methods | |

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| Wednesday 08/01/2025 | MSC-OC313T | Stereochemistry of Organic compounds |
| | MSC-IC313T | Material Science - I |
| | MSC-DC313T | Stereochemistry |
| | MSC-AC313T | Advanced Chromatographic Methods of Analysis-I |
| | MSC-BO313 T | Advanced Ecology |
| | MSC-ZO 313 T | Histochemistry |
| | MSC-MT 313 T | Mathematics and Python Programming |
| | MSC-PH 313 T | Experimental Techniques in Physics - I |
| | MSC-ES 313 T | Advanced Power Electronics |
| | MSCST-313 T | Machine Learning |
| | MSC-BT 313T | Bioinformatics |
| | MSC-MR313T | Waste Water Treatment |
| | MSC-EN313 T | Restoration Ecology and Watershed Management |
| | MSC-WBAT313 T | Oenology II |
| | MSC-CS 313 T | Advanced Database Management System |
| | MSC-CA 313T | Software Project Management |
| | MSC-BC 313 T | Plant Biochemistry |
| MSC-MS 315T | Digital Marketing | |
| Thursday 09/01/2025 | MSC-OC317T | A. Asymmetric Synthesis B. Carbohydrates Chemistry |
| | MSC-IC317T | A. Modern Instrumental methods in Inorganic Chemistry Sec I B. Polymer Chemistry |
| | MSC-DC317T | A. Asymmetric Synthesis B. Supramolecular and Green Chemistry |
| | MSC-AC317P | A. Bioanalytical Techniques B. Analytical methods of Food |
| | MSC-BO317 T | A. Mycology B. Angiosperm Taxonomy |
| | MSC-ZO 317 T | A. Mammalian Reproductive Physiology B. Cytogenetics |
| | MSC-MT 314 T | A. Mechanics B. Integral transforms |
| | MSC-PH 317 T | Energy Studies I |
| | MSC-ES 317 T | A. Virtual Instrumentation (VI) B. VLSI System Design |
| | MSCST-314 T | Design and analysis of Experiments. |
| | MSC-BT317T | A. Agricultural Biotechnology B. Nanobiotechnology |
| | MSC- MR317T | A. Cell Culture Technique B. Microbiology in Sustainable Development |
| | MSC-EN317 T | A. Environmental Biotechnology -I B. Environmental policy, Climate change and Sustainability |
| | MSC-WBAT317 T | Chemical Engineering and Plant Management II |
| | MSC-CS 317 T | Block Chain Management |
| | MSC-CA 315T | Angular JS |
| | MSC-BC 317 T | A. Advance Techniques in Biochemistry B. Pharmacology |
| MSC-MS 316T | A. Communication for Social Change Feature Writing | |
| Friday 10/01/2025 | MSC-OC319T | Advanced Heterocyclic Chemistry |
| | MSC-IC319T | Organometallic Chemistry. |

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| | MSC-DC319T | Advanced Heterocyclic Chemistry |
| | MSC-AC319T | Analysis of Controlled Substance |
| | MSC-BO319 T | Industrial Botany |
| | MSC-ZO 319 T | Research Methodology |
| | MSC-MT 315 T | A. Integral Equations B. Lattice Theory |
| | MSC-PH 319 T | Competitive Examination |
| | MSC-ES 319 T | Technical Communication |
| | MSCST-315 T | Software Testing |
| | MSC-BT 319A | Pharmaceutical Biotechnology |
| | MSC-MR319T | Clinical Microbiology |
| | MSC-EN319T | CETP-STP-ETP Operation and Maintenance |
| | MSC-WBAT319 T | Business Management and Marketing |
| | MSC-CS 319 T | Data Mining & Data Warehousing |
| | MSC-BC 319 T | Industrial Ethics and Disciplines |
| | MSC-MS 317T | Graphic Design |
| Saturday 11/01/2025 | | Cyber Security |
| Monday 13/01/2025 | MSC-MT 316 T | Fractional Calculus |

M.Sc. All Subjects CBCS 2021 Pattern

Sem IV Backlog

Time: 02.00 – 05.00

| Day & Date | Paper Code | Subject |
|-------------------------|---|---|
| Monday 06/01/2025 | MSC-OC411T | Chemistry of Natural Products |
| | MSC-IC411T | Heterogeneous Catalysis and its Applications |
| | MSC-DC411T | Advanced Medicinal Chemistry |
| | MSC-AC411T | Advanced Analytical Spectroscopic Techniques |
| | MSC-BO411 T | Computational Botany |
| | MSC-ZO 411 T | Animal Physiology II |
| | MSC-MT 411 T | Fourier Series and Boundary Value Problems |
| | MSC-PH 411 T | Nuclear Physics |
| | MSC-ES 411 T | Control Systems |
| | MSCST-411 | Survival Analysis |
| | MSC-BT 411T | Genomics and Proteomics |
| | MSC-MR411T | Drug Discovery and Development |
| | MSC-EN411 T | Solid & Hazardous Waste Management |
| | MSC-WBAT 411 T | Industrial waste treatment & Environmental management |
| | MSC-BC 411 T | Genetic Engineering |
| MSC-MS 411T | A. Advance Production Process B. Political Communication | |
| Tuesday 07/01/2025 | MSC-OC412T | Organometallic Reagents in Organic Synthesis |
| | MSC-IC412T | Inorganic Nanomaterials |
| | MSC-DC412T | Drug Design |
| | MSC-AC412T | Chemical Methods of Pharmaceuticals Analysis |
| | MSC-BO412 T | Developmental Botany |
| | MSC-ZO 412 T | Freshwater Biology and Ichthyology |
| | MSC-MT 412 T | Differential Geometry |
| | MSC-PH 412 T | Experimental Techniques in Physics-II |
| | MSC-ES 412 T | Robotics and Mechatronics |
| | MSCST-412 | Applications of Statistics in Clinical Trials |
| | MSC-BT 412T | Advanced Bioanalytical Techniques |
| | MSC-MR412T | Microbial Technology |
| | MSC-EN412 T | Renewable and Non-renewable energy |
| | MSC-WBAT 412 T | Bioanalytical Techniques |
| | MSC-BC 412 T | Endocrinology and Neurochemistry |
| MSC-MS 416T | A. Sports Journalism B. Civic Journalism | |
| Wednesday 08/01/2025 | MSC-OC413T | Concepts and Applications of Medicinal Chemistry |
| | MSC-IC413T | Material Science - II |
| | MSC-DC413T | Advanced Synthetic Methods in Chemistry |
| | MSC-AC413T | Advanced Chromatographic Methods of Analysis-II |
| | MSC-BO413 T | Plant Tissue culture Technology |
| | MSC-ZO 413 T | Forensic Entomology and Animal Tissue Culture |
| | MSC-MT 413 T | Introduction to Data Science |

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| | MSC-PH 413 T | Astrophysics and Astronomy |
| | MSC-ES 413 T | Semiconductor Devices and Technology |
| | MSCST-413 | Actuarial Statistics |
| | MSC-BT 413T | Research Methodology and Scientific Communication |
| | MSC-MR413T | Advanced Virology |
| | MSC-EN413 T | Environmental Toxicology and Health |
| | MSC-WBAT 413 T | Research Methodology |
| | MSC-BC 413 T | Food Technology |
| | MSC-MS 417T | Data Analytics |
| Thursday 09/01/2025 | MSC-OC417T | A: Designing Organic Syntheses and Protection B: Applied Organic Chemistry |
| | MSC-IC417T | A: Modern Instrumental methods in Inorganic Chemistry Sec II B: Homogeneous Catalysis |
| | MSC-DC417T | A: Organometallic Reagents in Organic Synthesis B: Supramolecular, Green Chemistry and Forensic chemistry |
| | MSC-AC417T | A: Agricultural Analytical Chemistry B: Laboratory Automation and Sensor Based Techniques |
| | MSC-BO417 T | A. Applied Mycology B. Advanced Medicinal Botany |
| | MSC-ZO 417 T (A) | A. Neural Physiology Population Genetics |
| | MSC-MT 414 T | A. Number Theory Optimization Techniques |
| | MSC-PH 417 T | Special Elective II Theory |
| | MSC-ES 416 T (A) | A. Wireless Sensor Network (WSN) Computational Methods for Electronics (CME) |
| | MSCST-414 | Time Series Analysis using ITSM |
| | MSC-BT 416A | Medical Biotechnology |
| | MSC-MR417 | A. Bioethics, Biosafety, Quality Control and Quality Assurance B. Scientific Writing |
| | MSC-EN417 T | A. Environmental Biotechnology -II B. Environmental Economics |
| | MSC-WBAT 416T | Oenology III |
| | MSC-BC 417 T | A: Fermentation Technology B: Biology of Infectious Diseases |
| | MSC MS 407 (Backlog) | Broadcast Management |
| | Friday 10/01/2025 | MSC-OC419T |
| MSC-IC419T | | Research Methodology |
| MSC-DC419T | | Project / Research Methodology |
| MSC-AC419T | | Project / Research Methodology |

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| | MSC-MT 415 T | A. Coding Theory B. Fuzzy Set Theory |
| | MSC-PH 419 T | Guidance NET/SET/GATE |
| | MSC-ES 418 T | Technical Writing |
| | MSC-BT 417 | A. Animal and Plant Physiology B. Ecology and Evolution |
| | MSC-EN419 T | Industrial Safety |
| | MSC-WBAT 417 T | Brewing Technology |
| Saturday 11/01/2025 | | Intellectual Property Rights |

