

| Programs | Institutes |
|--|--|
| All Master of Technology (M.Tech) Programs | Manipal Institute of Technology (MIT), Manipal |
| All Master of Engineering (M.E) Programs | Manipal School of Information Sciences (MSIS), Manipal |

Manipal Entrance Test (MET) 2022 Details

- Test Duration: 90 minutes
- Based on the qualifying degree, candidate is expected to **select any ONE of the 8 Test disciplines** listed below, during Day / Slot booking in the Online Test booking system (OTBS).
 - Once test discipline is selected during test slot booking, **NO** request for change of discipline will be considered under any circumstances
 - [Click here](#) for the Eligibility requirements for M.Tech & M.E programs
- Total Questions: 60 questions comprising of Chosen Discipline (50 questions) & Engg Maths (10 questions)
- Max marks: 240
- Marking Scheme: + 4 awarded for correct answer, - 1 deducted for wrong answer, 0 for every unattempted question
- No. of Attempts: 1
- Schedule & Mode: Refer www.manipal.edu/met for updates
- Candidates possessing valid GATE score will be given 10 % additional marks to the MET 2022 score and then ranked in the merit list.
 - Additional marks will **NOT** be awarded if GATE score card is not uploaded before the last date of applications
- There will be two ranks allotted
 - General Rank based on the overall test score
 - Stream Rank based on the overall score amongst the chosen test discipline.

Note: The counseling process will be as per the general rank only

Common MET 2022 Syllabus for M.Tech & M.E programs

Test Discipline: Biotechnology (BT)

Process calculations, Thermodynamics, Transport Processes, Chemical and Biochemical reaction Engineering, Bioprocess Engineering, Biochemistry, Microbiology, Bioinformatics, Animal and Plant Biotechnology, Molecular Biology, Genetic Engineering, Immunotechnology, Downstream Processing

Engineering Maths: Linear Algebra, Differential Equations, Probability and Statistics, Numerical Methods

Test Discipline: Chemical (CH)

Process Calculations and Thermodynamics, Fluid Mechanics and Mechanical Operations, Heat Transfer, Mass Transfer, Chemical Reaction Engineering, Instrumentation and Process Control, Plant Design and Economics, Chemical Technology, Material of Construction and Corrosion, Energy Engineering, Pollution Control and Safety.

Engg Maths: Linear Algebra, Differential Equations, Probability & Statistics, Numerical Methods, Transform Theory

Test Discipline: Civil (CV)

Engineering Mechanics, Strength of Materials, Design of Steel and Concrete Structures, Structural Analysis, Geotechnical Engineering, Foundation Engineering, Surveying, Transportation Engineering, Construction Planning - Organization and Management, Environmental Engineering, Fluid Mechanics, Water Resources Engineering, Concrete Technology, Engineering Materials, Estimations and Specification.

Engg Maths: Linear Algebra, Calculus, Differential Equations, Probability & Statistics, Numerical Methods

Test Discipline: Computer Science (CS)

Programming Languages, Data Structure, Logic Design & Circuits, Computer Organization & Architecture, Operating Systems, Database Systems, Computer Networks, Design and Analysis of algorithms, Software Engineering.

Manipal Academy of Higher Education (MAHE) www.manipal.edu

Engg Maths: Probability & Statistics, Numerical Methods, Combinatorics, Graph Theory, Mathematic & Predicate Logic

Test Discipline: Electrical Engineering (EE)

Electrical Circuit Analysis, Electrical Machinery, Electromagnetic Field Theory, Generation, Transmission, Distribution, Power System Analysis, Stability, Protection, Power Electronics & Drives, Analog & Digital Electronic Circuits, Signals & systems, Digital Signal Processing, Electrical & Electronic Measurements & Instrumentation, Control systems and Microcontrollers.

Engg Maths: Linear Algebra, Differential Equations, Probability & Statistics, Numerical Methods, Transform Theory

Test Discipline: Electronics & Communication (EC)

Electric Circuit Analysis, Analog Devices & Circuits, Digital VLSI design, Digital Logic design, Verilog HDL, Electromagnetic Waves, Analog Communication, Digital Communication, Antennas & Propagation, Microprocessor & Microcontrollers (16 / 32-bit family), Signal Processing, Linear and Digital Control System.

Engg Maths: Linear Algebra, Complex Variables, Probability & Statistics, Numerical Methods, Transform Theory

Test Discipline: Instrumentation & Control (IC)

Network Analysis & Signals, Electronics Measurements, Transducers & Instrumentation, Linear, Modern, Nonlinear Control Theory, Signal Processing, Microcontrollers (ARM and 8051), Analog & Digital Electronics Circuits & System Design, Biomedical Equipment & Instruments, Control System Components, Process Control & Automation

Engg Maths: Linear algebra, differential equations, probability and statistics, Numerical methods, Transform methods

Test Discipline: Mechanical Engineering (ME)

Engineering Mechanics, Strength of Materials, Design of Machine Elements, Basics of Manufacturing Science, Measurement & Metrology, Theory of Machines, Mechanical Vibrations, Thermodynamics & Heat Transfer, Material Science & Metallurgy.

Engg Maths: Linear Algebra, Calculus, Differential Equations, Probability & Statistics, Numerical Methods

♣ Best of Luck ♣

Updated: 4.30 PM, Mar 11, 2022

Eligibility Requirements for Master of Technology (MTech) and Master of Engineering (ME) Programs

- Pass in BE / BTech in a relevant branch from a recognized University, with minimum 50 % aggregate marks or equivalent
- The Bachelor's program eligibility & Choice of MET Question Paper (QP), for the MTech / ME programs are as follows

| Master of Technology (M.Tech) Program Eligibility | Choice of MET 2022 Test Discipline |
|---|------------------------------------|
| Chemical Stream (2) | |
| M.Tech Industrial Biotechnology BE / BTech in Biotechnology / Biochemical Engg / Bioprocess Engg / Bioinformatics / Chemical Engg / Pharmaceutical Technology, or equivalent | BT / CH |
| M.Tech Chemical Engg BE / BTech in Biochemical Engg / Bio Process Engg / Bio Technology / Chemical Engg / Petroleum Engg / Petrochemicals Engg / Polymer Technology, or equivalent | |
| Civil Stream (3) | |
| M.Tech Construction Engg & Management BE / BTech in Architecture / Civil Engg, or equivalent | CV |
| M.Tech Environmental Engg BE / BTech in Biochemical Engg / Biotechnology / Civil / Chemical Engg / Ceramic Technology / Environmental / Mechanical / Metallurgy / Mining, or equivalent | BT / CH / CV / ME |
| M.Tech Structural Engg BE / BTech in Civil Engg, or equivalent | CV |
| Computer Stream (6) | |
| M.Tech Computer Science & Engg BE / BTech in Computer Science & Engg / Computer & Communication Engg / Electronics & Communication Engg / Electronics & Telecommunication Engg / Information Technology, or equivalent | CS / EC |
| M.Tech Computer Science & Information Security BE / BTech in Computer Science & Engg / Computer & Communication Engg / Electronics & Communication Engg / Electronics & Telecommunication Engg / Information Technology, or equivalent | |
| M.Tech Computer Networking & Engg BE / BTech in Artificial Intelligence & Machine Learning / Biomedical Engg / Computer Science & Engg / Computer & Communication Engg / Cyber Security / Data Science & Engg / Electrical & Electronics Engg / Electronics & Communication Engg / Information Technology / Instrumentation Engg, or equivalent | CS / EC / EE / IC |
| M.Tech Data Science & Engineering BE / BTech in Computer Science & Engg / Computer & Communication Engg / Electrical & Electronics / Electronics & Communication / Information Technology, or equivalent | CS / EC / EE |
| M.Tech Machine Intelligence and Decision Science BE / BTech in Artificial Intelligence & Machine Learning / Biomedical Engg / Computer Science & Engg / Computer & Communication Engg / Cyber Security / Data Science & Engg / Electrical & Electronics Engg / Electronics & Communication Engg / Information Technology / Instrumentation Engg, or equivalent | CS / EE / EC / IC |
| M.Tech Software Engg BE / BTech in Artificial Intelligence & Machine Learning / Biomedical Engg / Computer Science & Engg / Computer & Communication Engg / Cyber Security / Data Science & Engg / Electrical & Electronics Engg / Electronics & Communication Engg / Information Technology / Instrumentation Engg, or equivalent | |
| Electrical Stream (9) | |
| M.Tech Biomedical Engg BE / BTech in Biomedical Engg / Biotechnology / Chemical Engg / Computer Science & Engg / Computer & Communication Engg / Electrical & Electronics Engg / Electronics & Communication Engg / Engineering Physics / Information Technology / Instrumentation & Control Engg / Mechanical Engg / Medical Electronics / Metallurgy & Materials Science / Pharmaceutical Technology, or equivalent | BT / CH / CS / EC / EE / IC / ME |

| Master of Technology (M.Tech) Program Eligibility | Choice of MET 2022 Test Discipline |
|--|---------------------------------------|
| M.Tech Control Systems BE / BTech in Aeronautical Engg / Aerospace Engg / Applied Electronics & Instrumentation Engg / Automobile Engg / Biomedical Engg / Chemical Engg / Electrical & Electronics Engg / Electronics & Communication Engg / Electronics & Instrumentation Engg / Instrumentation & Control Engg / Mechatronics Engg / Medical Electronics / Robotics & Automation Engg, or equivalent | CH / EC / EE / IC / ME |
| M.Tech Digital Electronics & Communication Engg BE / BTech in Electrical & Electronics Engg / Electronics & Communication Engg, or equivalent | EC, EE |
| M.Tech Electric Vehicle Technology BE / BTech in Automobile Engg / Electrical & Electronics Engg / Electronics & Communication Engg / Industrial Production Engg / Instrumentation & Control Engg / Manufacturing Engg / Mechanical Engg / Mechatronics Engg, or equivalent | EC / EE / IC / ME |
| M.Tech Internet of Things BE / BTech in Artificial Intelligence & Machine Learning / Biomedical Engg / Computer Science & Engg / Computer & Communication Engg / Cyber Security / Data Science / Electrical & Computer Engg / Electrical & Electronics Engg / Electronics & Computer Engg / Electronics & Communication Engg / Electronics & Instrumentation / Instrumentation & Control Engineering / Information Technology / Mechatronics Engg, or equivalent | CS / EC / EE / IC / ME |
| M.Tech Medical Informatics BE / BTech in Biomedical Engineering / Biotechnology / Computer Science & Engg / Computer & Communication Engg / Electrical & Electronics Engg / Electronics & Communication Engg / Information Technology / Instrumentation & Control Engg / Mechatronics / Medical Electronics, or equivalent | CS / EC / EE / ME |
| M.Tech Microelectronics BE / BTech in Electrical & Electronics Engg / Electronics & Communication Engg / Instrumentation & Control Engg, or equivalent | EC / EE / IC |
| M.Tech Power Electronics & Drives BE / BTech in Electrical & Electronics Engg / Electronics & Communication Engg / Electronics & Instrumentation Engg, or equivalent | |
| M.Tech Wireless & Mobile Communications BE / BTech in Applied Electronics Engg / Biomedical Engg / Computer Science & Engg / Computer & Communication Engg / Electrical & Computer Engg / Electronics & Communication Engg / Electronics & Computer Engg / Electronics & Instrumentation Engg / Information and Communication Technology Engg / Mechatronics Engg, or equivalent | CS / EC / EE / ME |
| Management (1) | |
| M.Tech Engineering Management BE / BTech in any branch of Engg | BT / CH / CS / CV / EC / EE / IC / ME |
| Mechanical (8) | |
| M.Tech Applied Computational Fluid Dynamics BE / BTech in Aeronautical Engg / Automobile Engg / Chemical Engg / Civil Engg / Industrial Production Engg / Manufacturing Engg / Mechanical Engg / Mechatronics Engg, or equivalent | CH / CV / ME |
| M.Tech Automobile Engg BE / BTech in Automobile Engg / Automobile Maintenance Engg / Automotive Technology / Industrial Production Engg / Manufacturing Engg / Material Science & Technology / Mechanical Engg / Mechanical & Smart Manufacturing / Mechatronics Engg / Tool Engg, or equivalent | ME |
| M.Tech Avionics BE / BTech in Aeronautical Engg / Computer Science & Engg / Computer & Communication Engg / Electrical & Electronics Engg / Electronics & Communication Engg / Instrumentation & Control Engg / Mechanical Engg / Mechatronics Engg, or equivalent | CS / EC / EE / IC / ME |
| M.Tech Computer Aided Analysis & Design BE / BTech in Aeronautical Engg stream / Automobile Engg / Industrial Engg / Marine Engineering / Mechanical Engg / Mechatronics Engg / Material and Metallurgy / Tool Engineering, or equivalent | ME |

| Master of Technology (M.Tech) Program Eligibility | Choice of MET 2022 Test Discipline |
|--|------------------------------------|
| M.Tech Defence Technology BE / BTech in Aerospace Engg / Aeronautical Engg / Applied Electronics & Communication Engg / Applied Electronics & Instrumentation Engg / Chemical Engg / Computer Science & Engg / Computer & Communication Engg / Computer Networking / Electrical & Computer Engg / Electrical & Electronics Engineering / Electrical and Instrumentation Engg / Electronics & Communication Engg / Electronics and Computer Engineering / Instrumentation & Control Engg / Marine Engg / Marine Technology / Mechanical Engg / Mechatronics Engg / Metallurgical & Materials Engg / Military Engg / Optics and Opto-Electronics / Radio, Physics & Electronics / Software Engg / Structural Engg, or equivalent | CH / CS / CV / EC / EE / IC / ME |
| M.Tech Industrial Automation & Robotics BE / BTech in Aeronautical Engg stream / Automobile Engg / Electrical & Electronics Engg / Electronics & Communication Engg / Industrial & Production Engg / Instrumentation & Control Engg / Mechanical Engg / Mechatronics Engg, or equivalent | EC / EE / IC / ME |
| M.Tech Manufacturing Engg BE / BTech in Aeronautical Engg / Automobile Engg / Industrial Engg / Manufacturing Engg / Marine Engineering / Material and Metallurgy / Mechanical Engg / Mechatronics Engg / Tool Engineering, or equivalent | ME |
| M.Tech Thermal Sciences & Energy Systems BE / BTech in Aeronautical Engg / Automobile Engg / Industrial Engg / Marine Engineering / Material and Metallurgy / Mechanical Engg / Mechatronics Engg, / Tool Engineering, or equivalent | |

| Master of Engineering (ME) Program Eligibility | Choice of MET 2022 Test Discipline |
|---|------------------------------------|
| Computer Stream | |
| M.E Artificial Intelligence & Machine Learning BE / BTech in Biomedical Engg / Computer Science & Engg / Electronics & Communication Engg / Electrical & Electronics Engg / Information Technology / Instrumentation & Control Engg / Medical Electronics or equivalent | CS / EC / EE / IC |
| M.E Big Data Analytics BE / BTech in Biomedical Engg / Biotechnology / Computer Science & Engg / Electrical & Electronics Engg / Electronics & Communication Engg / Information Technology / Instrumentation & Control or equivalent | CH / CS / EC / EE / IC |
| M.E Cloud Computing BE / BTech in Biomedical / Computer Science / Electrical & Electronics / Electronics & Communication / Information Technology / Instrumentation & Control / Mechatronics / Medical Electronics or equivalent | CS / EC / EE / IC / ME |
| Electrical Stream | |
| M.E Embedded Systems BE / BTech in Biomedical Engineering / Computer Science / Electrical & Electronics / Electronics & Communication / Information Technology / Instrumentation & Control / Medical Electronics / Mechatronics or equivalent | CS / EC / EE / IC / ME |
| M.E VLSI Design BE / BTech in Biomedical Engineering / Computer Science / Electrical & Electronics / Electronics & Communication / Information Technology / Instrumentation & Control / Medical Electronics / Mechatronics / Telecommunication or equivalent | |

Note

If you are pursuing / completed your Bachelor's Degree with a specialization other than those listed above, please email admissions@manipal.edu with your BTech syllabus contents for us to check for your eligibility for the M.Tech / M.E program that you are interested in.