

## 7. Indian Institute of Technology Madras-MD

The minimum eligibility is a graduate degree with first class or minimum of 60% aggregate marks (or equivalent grade point average) in the corresponding or specified branch.

Code	Department	Fields of Specialization	Minimum Qualification (The candidate should possess the following degree in B.E./B.Tech or equivalent)
MDAE01	Aerospace Engineering	Aerodynamics, Propulsion, Structures.	Aerospace Engineering, Automobile Engineering, Chemical Engineering, Civil Engineering, Computer Science & Engineering, Electronics & Communication Engineering, Electrical & Electronics Engineering, Energy Engineering, Instrumentation, Mechanical Engineering, Manufacturing Engineering, Metallurgical Engineering, Naval Architecture, Production Engineering.
MDAM01	Applied Mechanics	Computational and Experimental Mechanics.	Aerospace Engineering, Chemical Engineering, Civil Engineering, Energy Engineering, Mechanical Engineering, Metallurgical Engineering, Naval Architecture.
MDAM02		Biomedical Engineering.	Biomedical Engineering, Electrical and Electronics Engineering, ECE, Civil, Mechanical, E&I Engineering, Computer Science Engineering / Computer Science.
MDCH01	Chemical Engineering	Transport and Reaction Engineering, Systems and Control, Biochemical Engineering, Environmental Engineering, Materials and processes.	B.E./ B.Tech or equivalent degree in Chemical Engineering, Biochemical Engineering, or Environmental Engineering.
MDCE01	Civil Engineering	Building Technology & Construction Management.	Architecture (B.Arch.), Civil Engineering.
MDCE02		Environmental Engineering.	Agricultural Engineering, Biotechnology, Chemical, Engineering, Environmental & Civil Engineering, M.Sc. in Life science.
MDCE03		Geotechnical Engineering.	Civil Engineering.
MDCE04		Hydraulic & Water Resources Engineering.	Agricultural Engineering, Environmental and Civil Engineering.
MDCE05		Structural Engineering.	Civil Engineering.
MDCE06		Transportation Engineering.	Architecture (B.Arch.), Civil Engineering.
MDCS01	Computer Science & Engineering	Computer Science & Engineering.	B.E./ B.Tech (CSE, CS, or IT) or MCA with a prev. B.Sc. degree or M.Sc (CS).
MDEE01	Electrical Engineering	Communications, Networks, Signal processing, Speech & Image Processing Information Theory.	Electronics & Communication Engineering.
MDEE02		Power Systems & Power Electronics.	Electronics & Communication Engineering, Electrical & Electronics Engineering, Instrumentation Engineering.
MDEE03		Micro Electronics & VLSI Design.	Electronics & Communication Engineering.
MDEE04		Control and Instrumentation.	Electrical and Electronics Engineering, Electronics and Communication Engg., Control and Instrumentation Engineering.
MDEE05		Microelectronics.	B.E./ B.Tech./ M.Sc., in Electrical & Communication Engg./ Instrumentation Engg./ Electrical & Electronics Engineering / Physics who qualify with GATE subject EE/EC/IN/PH.
MDEE06		Integrated Circuits and Systems.	Electronics & Communication Engg., Electrical & Electronics Engineering, Instrumentation Engineering.

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MDME01	Mechanical Engineering	Thermal Engineering Stream: (Combustion & Propulsion, Heat Transfer & Thermal Power, I.C. Engines & Gas Turbines, Refrigeration & Air Conditioning, Turbo machines).	Aeronautical/ Aerospace Engineering, Automobile Engineering, Chemical Engineering, Energy Engineering, Mechanical Engineering, Marine Engineering, Petroleum Engineering.
MDME02		Design Stream: (Mechanical Design).	Aeronautical/ Aerospace Engineering, Automobile Engineering, Mechanical Engineering, Production Engineering.
MDME03		Manufacturing Engineering Stream: (Manufacturing and Precision Engineering).	Aerospace Engineering, Automobile Engineering, Computer Science & Engineering, Electronics & Communication Engineering, Electrical & Electronics Engineering, Industrial Engineering, Instrumentation, Mechanical Engineering Manufacturing Engineering, Machine Tool Engineering, Naval Architecture, Production & Industrial Engineering, Production Engineering.
MDMM01	Metallurgical & Materials Engineering	Metallurgical & Materials Engineering.	B.E./ B.Tech or equivalent in Biotechnology, Chemical Engineering, Ceramics Manufacturing Engineering, Materials Technology, Mechanical Engineering, Metallurgical Engineering, Nanotechnology, Production Engineering or other appropriate branch of Engineering/Technology. Science postgraduates (M.Sc. or equivalent) in Physics, Chemistry, Materials Science, Nanoscience, Nanotechnology or other appropriate branch of Science with exceptional merit and research or industrial experience may be considered.
MDOE01	Ocean Engineering	Ocean Engineering.	Civil Engineering, Naval Architecture, Mechanical Engineering, Marine Engineering, Aerospace Engineering OR M.Sc. in Oceanography.
MDOE02		Petroleum Engineering.	Chemical Engineering, Civil Engineering, Marine Engineering, Mechanical Engineering, Naval Architecture, Petroleum Engineering Or any other appropriate engineering discipline OR M.Sc in Physics, Mathematics, Statistics Oceanography, Geology and Geophysics.
MDMA01	Mathematics	Industrial Mathematics and Scientific Computing.	M.Sc. in Mathematics or Physics or B.E./ B.Tech or equivalent in Aerospace Engineering, Chemical Engineering, Civil Engineering, Computer Science & Engg., Electronics & Communication Engineering, Electrical & Electronics Engineering, Mechanical Engineering, Metallurgical Engineering, Naval Architecture.
MDPH01	Physics	Functional Materials & Nanotechnology.	M.Sc. Physics/ Applied Physics, M.Sc. Material Science, B.Tech or equivalent in Electronics and Communications Engg., Electrical and Electronics Engineering, Metallurgical and Materials Engineering. Materials Science Engineering, Engineering Physics, Nanotechnology.