National Institute of Technology Calicut, Calicut 673 601 - CL

M.Tech. Degree in Engineering/ Technology in the appropriate branch of study with first class or minimum 60% marks (CGPA 6.5/10). [For SC/ST candidates, the minimum mark is 55% (CGPA 6.0/10)].

Candidates shall be required to have passed the **four-year regular full time** B.E./B. Tech. Degree in an appropriate branch with minimum 60% marks (CGPA 6.5/10) in the qualifying examination. [For SC/ST candidates 55% marks (CGPA 6.0/10)].

Candidates under lateral entry should have passed the three-year diploma in engineering with minimum 60% marks (CGPA 6.5/10) [For SC/ST candidates 55% marks (CGPA 6.0/10)].

Code	Department	Fields of Specialization	Minimum Qualification
CLCE01	Civil Engineering	Structural Engineering	Structural Engineering
		Offshore Structures	Offshore Structures/ Structural Engineering/ Ocean Engineering/ Coastal Engineering
		Traffic & Transportation Planning	Transportation Engineering/ Highway Engineering/ Traffic & Transportation Planning/ Urban Engineering
		Geotechnical Engineering	Geotechnical Engineering/ Environmental Geotechnology
		Water Resources Engineering	Water Resources Engineering/ Hydraulic Engineering/ Hydraulics and Water Resources Engineering/ Irrigation Engineering/ Coastal Engineering/ Environmental Geotechnology/ Environmental Engineering / Remote Sensing and GIS/ Geoinformatics
		Environmental Engineering	Environmental Engineering/ Environmental Geotechnology
		Building Technology and Construction Management.	Building (Construction) Technology/Construction Management/ Structural Engineering/ Architecture
		Town Planning	Town Planning / Urban Design/ Architecture
	Electrical Engineering	Instrumentation and Control Systems.	Electrical Engineering/ Power Systems/ Energy Systems/ Energetic/ Industrial Power / Industrial Power & Automation/ Power Electronics/ Power Electronics& Drives/ Control Systems/ Instrumentation and Control Systems/ Instrumentation Engineering/ Applied Electronics and Instrumentation/ Biomedical Engineering/ Computer Controlled Industrial Power/ Avionics Engineering/ Guidance and Navigation Control/ High Voltage Engineering/ Control and Automation.
		Power and Energy Systems.	
		Power Electronics & Machines.	
CLEE01		Industrial Power & Automation.	
		Biomedical Instrumentation and Signal Processing.	
		High Voltage Engineering.	
CLEC01	Electronics and Communication Engineering	Electronics Design and Technology (Embedded System Design, EMI/ EMC, Control System Design, Biomedical System Design, System Design for Signal Processing and Communication)	Post Graduate Degree in relevant streams of Electrical & Electronics Engineering/ Electronics Engineering/ Electronics & Communication Engineering/ Computer Science Engineering

		Microelectronics and VLSI Design (Power Management in IC Design, Analog & Mixed-signal IC design, Semiconductor Device modeling, Micro fabrication Technology, Micro/Nano Electro Mechanical System MEMS/NEMS, VLSI architectures for Signal Processing and Communication) Telecommunication (Wireless Communications and Networks, OFDM/MIMO and Massive MIMO, 5G Wireless Communications, Cryptography and Secure Communication, RF/Microwave)	
		Signal Processing (Speech/Audio/Image/Video Processing, Signal Theory, Compressed Sensing/Sparse Signal Processing, Multi-rate Signal Processing and Filter banks, Biomedical Signal Processing, Machine Learning, VLSI architectures for Signal Processing)	
CLME01	Mechanical Engineering	Industrial Engineering and Management. (Ergonomics and Product Design, Supply Chain Management, Marketing Management, Human Resource Management, Data Science Applications in Operations Management)	
		Machine Design. (Computational Mechanics, Robotics, Tribology, Machine Dynamics and Vibrations, Nano- and Micro-mechanics, Product Design)	
		Materials and Manufacturing. (Macro and Micro Machining, Modern Machining, Metrology, CAD/CAM, Composite Materials, Ferrous and Non-Ferrous Metallurgy, Materials for Electronics Application, Additive Manufacturing/3D printing, Digital Manufacturing and Design, Automation of Manufacturing Functions)	Post Graduate Degree in Mechanical Engineering in the relevant fields of specialization.
		Thermal and Energy Engineering. (Renewal Energy Technologies, Energy Conservation, Fuel Cells and Hydrogen Technology, Computational Fluid Dynamics, Heat Pipes, Cryogenics, Jets and Flow Acoustics, Combustion and Fire Safety, Fluid-Structure Interactions, Multi-phase Flows, High Performance Computing, Lattice Boltzmann Modeling, High Speed Flows, Turbo- machinery, Internal Combustion Engines, Convection and Radiation Heat Transfer)	