

Syllabus for written Test

Syllabus for Written Exam

The examination aims to evaluate the basic mathematical skills of the candidates along with their knowledge in their chosen research area.

The written exam shall have two parts: Part A (Mathematics) and Part B (Research area chosen by the candidate in his/her application as listed in the advertisement).

Part A

Mathematics

Linear Algebra, Calculus, Differential Equations, Complex Variables, Probability and Statistics, Numerical Methods

Part B

Microwave Engineering

Electromagnetics (from syllabus of GATE EC 2018)

Microelectronics/Nanotechnology

Electronic Devices, Analog Circuits, and Digital Circuits (from syllabus of GATE EC 2018)

Communication

Signals and Systems, Communications, and Electromagnetics (from syllabus of GATE EC 2018)

Power Systems/Control Systems/Power Electronics

Power Systems/Control Systems/Power Electronics (from syllabus of GATE EE 2018)

Machine Learning and Signal Processing

Signals and Systems (from syllabus of GATE EC 2018) and Fundamentals of Image Processing