INSTRUMENTATION ENGINEERING
12,000/Sem

SEMESTER I

- ✓ Communicative English
- ✓ Calculus and Matrix Algebra
- ✓ Computational Thinking and Problem Solving
- ✓ Physics/Chemistry
- ✓ Physics/Chemistry Lab
- ✓ Workshop A/Workshop B
- ✓ Engineering Drawing- CAD
- ✓ Cultural Education I

SEMESTER II

- ✓ Vector Calculus and Ordinary Differential Equations
- ✓ Chemistry/Physics
- ✓ Computer Programming
- ✓ Solid State Devices
- ✓ Fundamentals of Electrical technology
- ✓ Chemistry Lab. / Physics Lab
- ✓ Workshop B / Workshop A
- ✓ Computer Programming Lab
- ✓ Cultural Education II

SEMESTER III

- ✓ Humanities Elective I
- ✓ Amrita Values Program I
- ✓ Transforms and Partial Differential Equations
- ✓ Electric Circuits
- ✓ Fluid Mechanics and Thermal Engineering
- ✓ Digital Systems
- ✓ Industrial Instrumentation I
- ✓ Industrial Instrumentation Lab
- ✓ Digital Systems Lab

SEMESTER IV

- ✓ Humanities Elective II
- ✓ Amrita Values Program II
- ✓ Complex Analysis and Numerical Methods
- ✓ Electronic Circuits
- ✓ Signals and Systems
- ✓ Electrical and Electronic Measurements
- ✓ Measurements Lab
- ✓ Electronic Circuits Lab

- ✓ Soft Skills I

SEMESTER V

- ✓ Probability and Statistics
- ✓ Linear Integrated Circuits
- ✓ Control Engineering
- ✓ Electrical Machines
- ✓ Digital Signal Processing
- ✓ Digital Signal Processing Lab
- ✓ Linear Integrated Circuits Lab
- ✓ Soft Skills II
- ✓ Live-in –Lab

SEMESTER VI

- ✓ Industrial Instrumentation II
- ✓ Process Control
- ✓ Biomedical Instrumentation
- ✓ Microprocessor and Microcontroller
- ✓ Elective I
- ✓ Microcontroller Lab
- ✓ Process Control Lab
- ✓ Open Lab
- ✓ Soft Skills III

SEMESTER VII

- ✓ Environmental Studies
- ✓ Power Electronics
- ✓ Industrial Automation
- ✓ Data Acquisition and Communication
- ✓ Elective II
- ✓ Industrial Automation Lab
- ✓ Project Phase 1
- ✓ Live-in –Lab

SEMESTER VIII

- ✓ Elective III
- ✓ Elective IV
- ✓ Project Phase II