Bachelor's Degree Programme in Computer, Biomedical and Telecommunications Engineering

COURSE CURRICULUM

1st Year

Course – Semester – credits

- Mathematics I – Annual – 15 credits
- Computer Programming – Annual – 15 credits
- General Physics – Annual – 15 credits
- Fundamentals of Telecommunications – Annual – 6 credits
- English Language – 3 credits
- Numerical Computing Laboratory – 3 credits

2nd Year

Course – Semester – credits

- Mathematics II – 1st Semester – 12 credits
- Introduction to Circuits – 1st Semester – 6 credits
- Fundamentals of Biomedical Engineering – 1st Semester – 9 credits
- Mathematical Methods for Engineering – 2nd Semester – 6 credits
- Signal Theory – 2nd Semester – 9 credits
- Systems Theory – 2nd Semester – 9 credits
- Electromagnetic Fields – 2nd Semester – 9 credits

3rd Year

Course – Semester – credits

- Electronics – 1st Semester – 12 credits
- Electrical Communications – 1st Semester – 12 credits
- Propagation – 1st Semester – 6 credits
- Biomedical Electronics – 2nd Semester – 6 credits

- Microprocessor Systems Architecture – 2nd Semester – 9 credits
- Elective Course – 2nd Semester – 6 credits
- Elective Course – 2nd Semester – 6 credits
- Final Exam (Thesis) – 6 credits

Pre-approved Electives

- Antennas – 2nd Semester – 6 credits
- Radar Imaging Techniques – 2nd Semester – 6 credits
- Sensors and Actuators – 2nd Semester – 6 credits
- Data Analysis and Management for Biomedical Applications – 2nd Semester – 6 credits
- Operating Systems – 2nd Semester – 6 credits