

Offered as: 1-professional					
Specialisation:					
Module name	Course type	ECT S	Applied grading scale	Evaluation method	Assessment method
1 SEMESTER					
Basic Electronic Systems	Project	15	7-point grading scale	Internal examination	Oral exam based on a project
Calculus	Course	5	7-point grading scale	Internal examination	Written or oral exam
Fundamental Energy System Physics and Topology	Course	5	Passed/Not Passed	Internal examination	Oral exam
Problem-based Learning in Science, Technology and Society	Course	5	Passed/Not Passed	Internal examination	Written exam
2 SEMESTER					
Microprocessor Based Systems	Project	10	7-point grading scale	External examination	Oral exam based on a project
Introduction to Electrical Engineering	Course	5	7-point grading scale	Internal examination	Written exam
Linear Algebra	Course	5	7-point grading scale	Internal examination	Written or oral exam
Real-Time Systems and Programming Languages	Course	10	Passed/Not Passed	Internal examination	Active participation and/or written assignment
3 SEMESTER					
Instrumentation	Project	15	7-point grading scale	External examination	Oral exam based on a project
AC Circuit Theory	Course	5	7-point grading scale	Internal examination	Written exam
Applied Engineering Mathematics	Course	5	7-point grading scale	Internal examination	Written exam
Signal Processing	Course	5	7-point grading scale	Internal examination	Written or oral exam
4 SEMESTER					
Control Systems	Project	15	7-point grading scale	Internal examination	Oral exam based on a project
Fundamental Control Theory	Course	5	7-point grading scale	Internal examination	Written or oral exam
Modelling and Simulation	Course	5	7-point grading scale	Internal examination	Written or oral exam
Power Electronics	Course	5	7-point grading scale	Internal examination	Written exam

Curriculum for the Bachelor of Science (BSc) in Applied Industrial Electronics

5 SEMESTER					
Automation including Power Electronics	Project	15	7-point grading scale	External examination	Oral exam based on a project
Modern and Digital Control	Course	5	7-point grading scale	Internal examination	Written exam
Electrical Machines	Course	5	7-point grading scale	Internal examination	Written exam
Numerical Methods	Course	5	7-point grading scale	Internal examination	Oral exam
6 SEMESTER					
Elective Projects 6th Semester One project must be chosen	Project	15			
Mechanics	Course	5	7-point grading scale	Internal examination	Written exam
Modelling and Control of Robot Manipulator	Course	5	7-point grading scale	External examination	Written or oral exam
Test and Validation including System Set-up and Understanding	Course	5	7-point grading scale	Internal examination	Written or oral exam

Elective Projects 6th Semester One project must be chosen					
Module name	Course type	ECT S	Applied grading scale	Evaluation Method	Assessment method
BSc Project: Power Electronics and Electrical Machines (elective)	Project	15	7-point grading scale	External examination	Oral exam based on a project
BSc Project: Modelling and Control of Robotic Systems (elective)	Project	15	7-point grading scale	External examination	Oral exam based on a project