

Mechanical Engineering - Curriculum

2017/2	
Semester: 1	
Subject	Studyload
ALGORITHMS AND COMPUTATIONAL LOGIC	40 hours
ENVIRONMENTAL SCIENCES	40 hours
TECHNICAL DRAWING I	80 hours
FUNDAMENTALS OF CALCULUS	40 hours
FUNDAMENTALS OF PHYSICS	40 hours
ENGLISH FOR SPECIFIC PURPOSES	40 hours
INTRODUCTION TO ENGINEERING	80 hours
PROFESSIONAL LEGISLATION AND WORK SAFETY	40 hours
PORTUGUESE LANGUAGE	80 hours

Semester: 2	
Subject	Studyload
CALCULUS I	80 hours
TECHNICAL DRAWING II	80 hours
PHYSICS I	80 hours
ANALYTICAL GEOMETRY	80 hours
METHODOLOGY OF SCIENTIFIC WORK	40 hours
METROLOGY I	40 hours
COMPUTER PROGRAMMING	40 hours

Semester: 3	
Subject	Studyload
LINEAR ALGEBRA	40 HOURS
CALCULUS II	80 HOURS
PHYSICS II	80 HOURS
APPLIED MECHANICS I - STATIC	40 HOURS
METROLOGY II	40 HOURS
PROBABILITY AND STATISTICS	40 HOURS
CHEMISTRY	80 HOURS

Semester: 4	
Subject	Studyload
CALCULUS III	80 hours
PHYSICS III	80 hours
MATERIALS I	80 hours
APPLIED MECHANICS II - DYNAMICS	80 hours
SOLID MECHANICS I	80 hours

Semester: 5	
Subject	Studyload
CALCULUS IV	80 hours
MACHINE ELEMENTS I	80 hours
ELECTROTECHNICS	40 hours
MATERIALS II	80 hours
SOLID MECHANICS II	80 hours
MACHINES PROJECT I	40 hours

Semester: 6	
Subject	Studyload
NUMERICAL AND COMPUTATIONAL CALCULUS	80 hours
CITIZENSHIP, ETHICS AND SPIRITUALITY	40 hours
MACHINE ELEMENTS II	40 hours
INSTRUMENTATION	40 hours
THERMODYNAMICS	80 hours
HEAT AND MASS TRANSFER I	80 hours
THERMAL AND THERMO-CHEMICAL TREATMENTS	40 hours

Semester: 7	
Subject	Studyload
ELECTRONICS	40 hours
CASTING AND MECHANICAL CONFORMATION	80 hours
FLUID MECHANICS	80 hours
PROGRAMMING FOR ENGINEERING	40 hours
WELDING	80 hours
HEAT AND MASS TRANSFER II	80 hours

Semester: 8	
Subject	Studyload
SUPERVISED INTERNSHIP I	40 hours
METAL STRUCTURES	40 hours
FLOW MACHINES	80 hours
THERMAL MACHINES	80 hours
MACHINING PROCESSES	80 hours
MACHINES PROJECT	80 hours
ROBOTICS	40 hours

Semester: 9	
Subject	Studyload
BOILERS AND PRESSURE VESSELS	40 hours
RENEWABLE ENERGIES	40 hours
SUPERVISED INTERNSHIP II	40 hours
COMPUTER ASSISTED MANUFACTURING	40 hours
HYDRAULIC AND PNEUMATIC	80 hours
EXPERIMENTAL METHODS	40 hours
ELECTIVE I	40 hours
FINAL PAPER I	40 hours
VIBRATIONS OF MECHANICAL SYSTEMS	80 hours

Semester: 10	
Subject	Studyload
ENTREPRENEURSHIP	40 hours
SUPERVISED INTERNSHIP III	120 hours
PRINCIPLES OF ADMINISTRATION	40 hours
PRINCIPLES OF ECONOMICS	40 hours
MANAGEMENT OF MAINTENANCE	40 hours
ELECTIVE II	40 hours
REFRIGERATION AND AIR CONDITIONING	80 hours
FINAL PAPER II	40 hours
AUTO-VEHICLES	40 hours