

SEMESTER 1-2	FALL CREDIT HOURS 19 CONTACT HOURS 26	CHE5001 Chemistry for Engineers 2 3 1 2 0	MTHS002 Calculus 1 3 4 2 2 0	PHYS001 Mechanical Properties of Matter and Thermodynamics 3 5 2 0 3	EMCS001 Engineering Mechanics - Dynamics 3 4 2 2 0	INTS004 Information Technology 2 4 1 0 3	GENS004 Proficiency and Capacity Building 1 1 1 0 0	INTS001 Engineering Graphics 3 5 2 0 3	GENS001 Critical and Creative Thinking 2 2 2 0 0
	SPRING CREDIT HOURS 19 CONTACT HOURS 29	MDPS132 Materials Science 3 5 2 0 3	MTHS002 MTHS003 Calculus 2 3 4 2 2 0	PHYS001 MCNS101 Thermodynamics 3 4 2 2 0	EMCS002 Engineering Mechanics - Statics 2 3 1 0 2	PHYS002 Electricity and Magnetism 3 5 2 0 3	MDPS001 Fundamentals of Manufacturing Engineering 2 4 1 0 3	18 CR. HRS MTHS005 Introduction to Probability and Statistics 3 4 2 2 0	
SEMESTER 3-4	FALL CREDIT HOURS 19 CONTACT HOURS 26	EMCS002 MDPS261 Stress Analysis 3 4 2 0 2	34 credits E-A (GENS110) Elective E-A (Fundamental of Management, Risk and Environment) 2 2 2 0 0	E-A (GENS005) Elective E-A (Writing and Presentation Skills) 2 2 2 0 0	PHYS002 EPES201 Electrical Engineering Fundamentals 3 5 2 0 3	MTHS001 MCNS202 Fluid Mechanics 3 4 2 2 0	MTHS002 MTHS104 Differential Equations 3 4 2 2 0	MCNS101 MEPS209 ENGINEERING THERMODYNAMICS 3 5 2 2 1	
	SPRING CREDIT HOURS 19 CONTACT HOURS 27	MCNS202 MEPS231 Laboratory of Mechanical Engineering 3 4 2 0 2	MCNS202 MEPS224 Intermediate Fluid Mechanics 2 4 2 0 2	GENS002 Societal Issues 2 2 2 0 0	MEPS209 MEPS201 Internal Combustion Engines (Theory and Development) 3 5 2 0 3	MCNS101 MCNS326 Heat Transfer 3 4 2 2 0	MTHS002 MTHS102 Linear Algebra and Multivariable Integrals 3 4 2 2 0	MEPS209 MEPS203 Fundamentals of Combustion Systems 3 4 2 0 2	60 CR. HRS. + FRESHMAN SEES281 Industrial Training-1 1 0 0 0 0
SEMESTER 5-6	FALL CREDIT HOURS 19 CONTACT HOURS 28	30 CR. HRS. + AA APPROVAL SEES280 Engineering Seminar 1 1 1 0 0	E-2 ELECTIVE E-2 3 5 2 0 3	MTHS102 + MTHS104 MTHS114 Numerical Analysis 3 4 2 2 0	EPES201 MEPS306 Instrumentation and Computer Control (Application and Design) 3 4 2 2 0	MTHS002 + MEPS224 MEPS305 Applied Control Technologies for Energy System 3 4 2 2 0	MCNS326 MCNS327 Heat and Mass Transfer 3 5 2 0 3	MDPS261 MEPS310 Mechanics of Machines and Vibration 3 5 2 0 3	
	SPRING CREDIT HOURS 21 CONTACT HOURS 28	34 credits E-A (GENS120) Elective E-A (Fund. of Economics and Accounting) 2 2 2 0 0	MCNS202 + MEPS203 MEPS316 Air and Water Pollution and Quality Monitoring 3 4 2 2 0	MCNS326 + MEPS201 MEPS332 Laboratory of Energy Systems 2 4 2 0 2	MCNS202 + MCNS326 MEPS309 Thermal Design of Energy Facilities 3 4 2 0 2	E-3 ELECTIVE E-3 3 4 2 2 0	E-2 ELECTIVE E-2 3 5 2 0 3	MCNS326 MEPS320 Fundamentals and Applications of Solar Energy 3 5 2 0 3	SEES281 + AA APPROVAL SEES381 Industrial Training-2 2 0 0 0 0
SEMESTER 7-8	FALL CREDIT HOURS 19 CONTACT HOURS 28	MCNS202 MEPS436 Fundamentals of Turbomachinery 3 4 2 2 0	GENSXXX UR Elective Course 2 2 2 0 0	MCNS326 + MEPS209 MEPS421 Fundamentals of Refrigeration and Air Conditioning Design 3 4 2 2 0	MEPS209 MEPS404 Nuclear Energy 3 4 2 2 0	E-3 ELECTIVE E-3 3 4 2 2 0	E-4 ELECTIVE E-4 2 4 2 0 2	E-4 ELECTIVE E-4 2 4 2 0 2	110 CR. HRS. + SOPHOMORE SEES481 Graduation Project - 1 1 2 0 2 0
	SPRING CREDIT HOURS 19 CONTACT HOURS 28	MEPS224 MEPS430 Wind Energy Systems Design 2 4 2 0 2	MEPS421 MEPS420 Fundamentals of Energy in Buildings 2 3 1 0 2	85 credits + AA MEPS415 Power Generation 3 4 2 0 2	MEPS224 MEPS472 Automatic Control 3 4 2 2 0	MEPS436 + 102 credits MEPS446 Applications of Turbomachinery 3 4 2 2 0	E-3 ELECTIVE E-3 3 4 2 2 0	SEES481 + AA APPROVAL SEES482 Graduation Project - 2 3 5 2 0 3	

154	CREDIT HOURS
222	CONTACT HOURS
23	ELECTIVES

SWL is calculated according to TOR 2022.

A Relaxed Plan for Below-Average Students can be applied on all Specialised Programs allowing students to graduate in 10 semesters

COURSE MAP LEGEND	COURSE CODE				
	COURSE NAME				
	CR	CNTC			
	LEC	TUT(2)	TUT(LAB/STUDIOS)		
	UNIVERSITY REQ. (UR)	FACULTY REQ. (FR)	DISCIPLINE REQ. (DR)	PROGRAM REQ. (PR)	ELECTIVE= 15%