

SEMESTER 1-2	FALL 19 CREDIT HOURS 28 CONTACT HOURS	CHES001 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	INTS005 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 19 CREDIT HOURS 29 CONTACT HOURS	18 Cr Hrs MTHS005 Introduction to Probability and Statistics 3 4 2 2 0	MTHS002 MTHS003 Calculus 2 3 4 2 2 0	PHYS002 Electricity and Magnetism 3 5 2 0 3	EMCS002 Engineering Mechanics Statics 2 3 1 2 0	PHYS001 MCNS101 Thermodynamics 3 4 2 2 0	MDPS001 Fundamentals of Manufacturing Engineering 2 4 1 0 3	MDPS132 Materials Science 3 5 2 0 3	
SEMESTER 3-4	FALL 19 CREDIT HOURS 26 CONTACT HOURS	GENS005 Writing and Presentation Skills (E-A) 2 2 2 0 0	MTHS003 MTHS104 Differential Equations 3 4 2 2 0	MTHS002 MTHS102 Linear Algebra and Multivariable Integrals 3 4 2 2 0	34 Cr Hrs GENS120 Fund. of Economics and Accounting (E-A) 2 2 2 1 0 0	EMCS002 MDPS261 Stress Analysis 3 4 2 2 0	PHYS001 MDPS241 Manufacturing Processes I 3 5 2 0 3	INTS001 MDPS217 Machine Drawing 3 5 1 2 2	
	SPRING 19 CREDIT HOURS 28 CONTACT HOURS	MTHS002 MCNS202 Fluid Mechanics 3 4 2 2 0	MTHS102 + MTHS104 MTHS114 Numerical Analysis 3 4 2 2 0	PHYS002 EPES201 Electrical Engineering Fundamentals 3 5 2 0 3	60 Cr Hrs IEMS281 Seminar 1 1 1 0 0	EMCS001 MDPS251 Kinematics of Machine Components 3 5 2 0 3	MDPS132 MDPS232 Engineering Materials 3 4 2 2 0	MDPS132 MDPS242 Manufacturing Processes II 3 5 2 0 3	IEMS281 Industrial Training-1 1 0 0 0 0
SEMESTER 5-6	FALL 19 CREDIT HOURS 28 CONTACT HOURS	EPES201 EPES303 Electric Drive Systems 3 5 2 0 3	GENS002 Societal Issues 2 2 2 0 0	MCNS101 MCNS326 Heat Transfer 3 4 2 2 0	MDPS251 MDPS355 Dynamics of Machine Components 3 5 2 0 3	MDPS261 MDPS352 Machine Design 3 5 2 0 3	34 Cr Hrs GENS110 Fundamental of Management, Risk and Environment (E-A) 2 2 2 0 0	MDPS381 Fundamentals of Industrial Engineering 3 5 2 0 3	
	SPRING 19 CREDIT HOURS 28 CONTACT HOURS	MDPS355 MDPS371 Mechanical Vibrations 3 4 2 2 0	MDPS355 MDPS372 Control System Dynamics 3 5 2 0 3	MDPS352 + MDPS355 MDPS354 Machine and System Design 4 6 2 4 0	GENS120 MDPS382 Engineering Economy and Financial Manag. 3 4 2 2 0	MTHS102 MDPS383 Operation Research I 3 5 2 0 3	Prog- elect ELECTIVE 1 3 4 2 2 0	IEMS281 IEMS381 Industrial Training-2 2 0 0 0 0	
SEMESTER 7-8	FALL 19 CREDIT HOURS 27 CONTACT HOURS	Prog- elect ELECTIVE 2 3 4 2 2 0	Prog- elect ELECTIVE 3 3 4 2 2 0	Prog- elect ELECTIVE 4 3 4 2 2 0	MDPS383 MDPS481 Facilities Planning and Design 3 4 2 2 0	MTHS005 MDPS482 Quality Engineering 3 4 2 2 0	MTHS005 MDPS483 System Modeling and Simulation 3 5 2 0 3	110 Cr Hrs + Sophomore IEMS481 Graduation Project-1 1 2 0 2 0	
	SPRING 19 CREDIT HOURS 27 CONTACT HOURS	Prog- elect ELECTIVE 5 3 4 2 2 0	Prog- elect ELECTIVE 6 3 4 2 2 0	Prog- elect ELECTIVE 7 3 4 2 2 0	GENS2XX UR Free Elective 2 2 2 0 0	MDPS381 MDPS484 Production and Operations Management 3 4 2 2 0	MDPS481 MDPS485 Industrial Design Lab 2 4 1 0 3	IEMS481 IEMS482 GRADUATION PROJECT 2 3 5 1 4 0	

CREDIT HOURS	152
CONTACT HOURS	221

ELECTIVES	23
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SWL is calculated according to TOR2022.

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

COURSE CODE	
COURSE NAME	
CR	CNTC
LEC	TUT(2) <small>TUT/LAB/STU DR</small>
COURSE MAP LEGEND	
UNIVERSITY REQ. (UR)	FACULTY REQ. (FR)
DISCIPLINE REQ. (DR)	PROGRAM REQ. (PR)
ELECTIVE 15%	BASIC SCIENCE (BS)