

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	MTHS005 Introduction to Probability and Statistics 3 4 2 2 0	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	GENS00X E-0 2 2 2 0 0	MTHS003 MTHS104 Differential Equations 3 4 2 2 0	MTHS003 MTHS102 Linear Algebra and Multivariable Integrals 3 4 2 2 0	E-A (GENS005) Elective E-A (Writing and Presentation Skills) 2 2 2 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	MEMS280 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	MEMS281 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	E-A (GENS120) Elective E-A (Fund. of Economics and Accounting) 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	E-A (GENS110) Elective E-A (Fundamental of Management, Risk and Environment) 2 2 2 0 0	MDPS328 Polymers Engineering 3 5 2 0 3	
	SPRING 19 CREDIT HOURS 27 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	MDPS232 + MDPS261 MDPS321 Fatigue, Creep and Fracture Mechanics 3 4 2 2 0	MDPS241 MDPS332 Computer Aided Design and Manufacturing CAD/CAM 3 4 2 2 0	Prog- elect PROGRAM REQUIREMENT 1 3 4 2 2 0		MEMS281 MEMS381 Industrial Training-2 2 0 0 0 0
SEMESTER 7-8	FALL 19 CREDIT HOURS 27 CONTACT HOURS	Prog- elect PROGRAM REQUIREMENT 2 3 4 2 2 0	Prog- elect PROGRAM REQUIREMENT 3 3 4 2 2 0	Prog- elect PROGRAM REQUIREMENT 4 3 4 2 2 0	MDPS241 + MDPS242 MDPS323 Modern Manufacturing Processes 3 4 2 2 0	MTHS003 MDPS482 Quality Management 3 4 2 2 0	MDPS242 MDPS444 Sheet Metal Processing 3 5 2 0 3	MEMS481 Graduation Project-1 1 2 0 2 0	
	SPRING 19 CREDIT HOURS 27 CONTACT HOURS	Prog- elect PROGRAM REQUIREMENT 5 3 4 2 2 0	Prog- elect PROGRAM REQUIREMENT 6 3 4 2 2 0	Prog- elect PROGRAM REQUIREMENT 7 3 4 2 2 0	GENS30X E-1 2 2 2 0 0	MDPS131 MDPS451 Composite Materials: Design and Manufacturing 3 4 2 2 0	MDPS410 Mechanical Lab 2 4 1 0 3	MEMS481 MEMS482 Graduation Project 2 3 5 1 4 0	

CREDIT HOURS	CONTACT HOURS
152	220

ELECTIVES
25

SWL is calculated according to TOR 2022.

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

COURSE MAP LEGEND

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