

## Spring 2022 Semester Courses - SMME

UG/PG Entry	Semester	Course Title	Credit Hours		No of Sections
			Theory	Prac	
<b>UG Mechanical Engineering</b>					
2018	8	HU-222 Professional Ethics	2	0	3
2018	8	ME-420 Project Management	2	0	3
2018	8	ME-424 Health, Safety and Environment	1	0	3
2018	8	ME-414 Computational Fluid Dynamics	2	0	3
2018	8	ME-439 Internal Combustion Engines	3	0	3
2018	8	ME-431 IC Engines & Power Plants Lab	0	1	3
2018	8	ME-498 Internship (Pass/Fail basis)	0	0	3
2018	8	ME-499 Final Year Project-II	0	3	3
2019	6	ME-310 Mechanics of Machines	3	0	3
2019	6	ME-327 Instrumentation and Measurement	2	1	3
2019	6	ME-320 Machine Design-II	2	0	3
2019	6	MATH-361 Probability & Statistics	3	0	3
2019	6	ME-414 Computational Fluid Dynamics	2	0	3
2019	6	ME-489 Robotics and Automation	2	0	3
2019	6	ME-326 Heating, Ventilating and Air Conditioning	3	0	3
2019	6	ME-332 Heat Transfer and HVAC Lab	0	1	3
2019	6	CSL-401 Community Service Learning	0	2	3
2020	4	MATH-351 Numerical Methods	3	0	3
2020	4	ME-210 Mechanics of Materials-I	3	0	3
2020	4	ME-330 Fluid Mechanics-II	3	0	3
2020	4	ME-231 Thermodynamics-II	3	0	3
2020	4	EE-227 Electronics Engineering	2	1	3
2020	4	HU-212 Technical and Business Writing	2	0	3
2020	4	ME-337 Fluid Mechanics Lab	0	1	3
2020	4	ME-232 Thermodynamics Lab	0	1	3
2021	2	MATH-121 Linear Algebra & ODEs	3	0	3
2021	2	ME-221 Engineering Materials	3	0	3
2021	2	ME-113 Engineering Mechanics-I: Statics	3	0	3
2021	2	HU-101 Islamic Studies	2	0	3
2021	2	HU-109 Communication Skills	2	0	3
2021	2	ME-109 Engineering Drawing	0	2	3
<b>MS &amp; PhD Design and Manufacturing Engineering</b>					
DME	2	DME-839 Quality and Reliability Management	3	0	1
DME	2	DME-828 Design of Machine Elements	3	0	1

DME	2	ESE-821 Energy Resources and Technologies	3	0	1
DME	2	DME-843 Special Topics: Facility Planning and Layout	3	0	1
DME	2	DME-821 Rapid Prototyping, Tooling and Manufacturing	3	0	1
DME	2	DME-811 Product Design and Development	3	0	1
DME	2	DME-813 Product Lifecycle Management	3	0	1
DME	2	DME-838 Special Topics: Advanced Mechanical Behavior of Materials	3	0	1
<b>MS &amp; PhD Robotics &amp; Artificial Intelligence</b>					
RIME	2	RIME 812 Mobile Robotics	3	0	1
RIME	2	RIME 832 Machine Learning	3	0	1
RIME	2	EC 803 Computer Vision	3	0	1
RIME	2	RIME 852 Digital Control Systems	3	0	1
RIME	2	RIME 822 Advanced Logic Design	3	0	1
RIME	2	RIME 838 AI in Healthcare and Diagnosis	3	0	1
RIME	2	RIME 835 Human Robot Interaction	3	0	1
RIME	2	RIME 811 Robot Mechanics and Control	3	0	1
RIME	2	RIME 816 Robot Design	3	0	1
<b>MS &amp; PhD Biomedical Engineering and Sciences</b>					
BMS	2	IBT-827 Immunization And Vaccine Development	3	0	1
BMS	2	BMES-823 Molecular Neuroscience	3	0	1
BMS	2	MVI-851 Medical Genetics	3	0	1
BMS	2	BMS-844 Nano and Micro Drug Delivery Systems	3	0	1
BMS	2	BMES-811 Signals and Images in Medicine - Core	3	0	1
BMS	2	BMES-813 Biomedical Instrumentation - Core	3	0	1
BME	2	BMES-814 Neural Engineering	3	0	1
BME	2	BMES-813 Biomedical Instrumentation - Core	3	0	1
BME	2	BMES-812 Medical Devices Design and Standards - Core	3	0	1
BME	2	BMES-842 Biomechanics	3	0	1
<b>MS &amp; PhD Mechanical Engineering</b>					
MS ME	2	ME-881 Advanced Fluid Mechanics	3	0	1
PhD	2	ME-935 Renewable Energy	3	0	1
MS ME	2	ME-820 Advanced Instrumentation and Experimental Methods	3	0	1
MS ME	2	ME-831 Computational Fluid Dynamics-I	3	0	1
PhD	2	ME-938 Mechanical Vibration and Noise	3	0	1
MS ME	2	ME-891 Internal Combustion Engines	3	0	1
MS ME	2	ME-824 Engine Tribology	3	0	1
PhD	2	ME-941 Analytical Dynamics	3	0	1
MS ME A & B	2	ME-801 Optimization of Engineering Systems - Core	3	0	2
MS ME A & B	2	ME-802 Finite Element Methods - Core	3	0	2