Course (Department, Number, Title)		Indicate Whether Course is Required, Elective or a Selected Elective by an R, an E or an SE.1	Subject Area (Credit Hours)			
			(Math & Basic Sciences)<mark>xx</mark>	Engineering Topics Check if Contains Significant Design (√)	General Education	Other
<td colspan="7" align="center">**1ˢᵗ year 1ˢᵗ semester**</td>						
EnLa1011	Communicative English Skills	R				
Phil1011	Reasoning Skill (Logic)	R				
MEng1031	Engineering Drawing	R				

CEng1061	Engineering Mechanics I – Statics	R				
GEng1031	Introduction to Engineering Profession	R				
Math1041	Applied Mathematics I	R	ü			
Econ1021	Introduction to Economics	R				ü
1ˢᵗ year 2ⁿᵈ semester						
MEng1062	Engineering Mechanics II – Dynamics	R				
MEng1032	Basic Workshop Practice	R				

Code	Course Title					
MEng1072	Strength of Materials I	R				
Math1042	Applied Mathematics II	R	ü			
EnLa1022	Basic Writing Skills	R			ü	
CvEt2012	Civics and Ethical Education	R			ü	
2ˢᵗ year 1ˢᵗ semester						
MEng2091	Engineering Thermodynamics I	R		ü		
MEng2081	Engineering Materials I	R		ü		
MEng2111	Machine Drawing	R		ü		

MEng2071	Strength of Materials II	R		ü		
Math2041	Applied Mathematics III	R	ü			
CoSc2051	Introduction to Computer Programming	R				ü

2ˢᵗ year 2ⁿᵈ semester

MEng2082	Engineering Materials II	R		ü		
MEng2092	Engineering Thermodynamics II	R		ü		
MEng2122	Machine Elements I	R		ü		

MEng2112	Computer Aided Drafting and Design	R		ü		
MEng2052	Numerical and Computational Methods	R	ü			
MEng2094	Fluid Mechanics I	R		ü		
3rd year 1st semester						
MEng3061	Mechanisms of Machinery	R		ü		
MEng3091	Fluid Mechanics II	R		ü		
Stat3041	Probability and Statistics for Engineers	R	ü			

MEng3121	Machine Elements II	R				
MEng3141	Workshop Technology	R				
MEng3101	Heat Transfer	R				
EEng3201	Fundamentals of Electricity and Electronics	R				
3rd year 2nd semester						
MEng3152	Turbo machinery	R				
MEng3062	Mechanical Vibration	R				
EEng3202	Electrical Machines and Drives	R				

MEng3154	Instrumentation and Measurement	R					
MEng3132	Machine Design Project	R					
MEng3142	Manufacturing Engineering, I	R					
MEng3092	Thermo-Fluid Laboratory	R					
4th year 1st semester							
MEng4181	Material Handling Equipment	R					
AEng4173	IC Engines and Reciprocating Machines	R					

MEng4101	Fluid Power Systems	R				
AEng4171	Motor Vehicle Engineering	R				
MEng4141	Manufacturing Engineering II	R				
MEng4281	Research Method	R				ü
MEng4211	Holistic Exam	R				
MEng4241	Tools Jigs and Die Design	E				
MEng4221	Machinery Design	E				
MEng4261	Renewable Energy Technology I	E				

MEng4271	Agro-Machinery and Processing I	E					
MEng4251	Fundamentals of Rail ways systems	E					
MEng4231	Thermo-Fluid System Design	E					
4th year 2nd semester							
MEng4212	Industrial Internship	R					
5th year 1st semester							
MEng5161	Power Plant Engineering	R					

Code	Course	Type				
MEng5131	Introduction to Finite Element Method	R				
MEng5181	Maintenance and Installation of Machinery	R				
IEng5021	Entrepreneurship for Engineers	R				ü
MEng5163	Refrigeration and Air conditioning	R				
MEng4271	Agro-Machinery and Processing I	E				
MEng5271	Agro-Machinery and Processing II	E				
MEng5251	Motive power Design	E				

MEng5241	CAM and CIM	E				
MEng5261	Renewable Energy Technology II	E				
MEng5221	Product Design and Development	E				
MEng5231	Gas Turbine and Jet Population	E				
5ᵗʰ year 2ⁿᵈ semester						
IEng5022	Industrial Management & Engineering Economy	R				ü
EEng5194	Regulation and Control	R				

MEng5192	Introduction to Mechatronics	R				
MEng5273 Design	Fundaments Principles and Agricultural Machinery	E				
MEng5282	Final Year Project	R				
MEng5263	Design of Renewable Energy Systems	E				
IEng5243	Process Planning and Product Costing	E				
MEng5223	Rotor Dynamics	E				
MEng5233	Computational Heat Transfer and Fluid Flow	E				

MEng5253	Rail Vehicle Design	E					
REQUIREMENTS				TOTALS-ABET BASIC-LEVEL			
OVERALL TOTAL CREDIT HOURS FOR COMPLETION OF THE PROGRAM				**86**	**142**	**14**	**12**
PERCENT OF TOTAL				**33.86%**	**55.91%**	**5.51%**	**4.72%**
Total must satisfy either credit hours or percentage	Minimum Semester Credit Hours						
	Minimum Percentage of Total Credits Required for Graduation			25%		37.5 %	