

MEC 3204	Heat Transfer	3
ELE 3201	Instrumentation	4
ELE 3202	Control System Engineering I	4
ELE 3203	Power Electronics	4
ELE 3204	Communication Engineering I	4
ELE 3205	Electrical Machines II	4
ELE 3206	Business Management for Electrical Engineers I	3
ELE 3207	Law for Electrical Engineers	3
EMT 3201	Engineering Mathematics IV	4
<b>Recess Term</b>		
IND 3301	Industrial Training II	2
ELE 3301	Industrial Training for Electrical Engineers II	2
	<b>Total Year III Credit Units</b>	<b>49</b>
<b>Year IV: Semester I</b>		
ELE 4100	Electrical Engineering Project I	2
ELE 4101	Communication Engineering II	3
ELE 4102	Propagation	3
ELE 4103	Telecommunication Systems I	3
ELE 4104	Microprocessors	3
ELE 4105	Power Systems Engineering I	4
ELE 4106	Network Theory II	4

ELE 4107	Power System Protection and coordination	3
ELE 4108	Business Management for Electrical Engineers II	3
<b>Semester II</b>		
ELE 4200	Electrical Engineering Project II	4
ELE 4201	Project	3
ELE 4202	Telecommunication System II	3
ELE 4203	Computer System Engineering	3
ELE 4204	Radio Frequency Engineering	4
ELE 4205	Antennas	3
ELE 4206	Integrated Circuits Design and Fabrication	3
ELE 4207	Control Engineering II	3
ELE 4208	Power Systems Engineering II	3
ELE 4209	High Voltage Engineering	4
ELE 4210	Electrical Installation Design	3
ELE 4211	Business Management for Electrical Engineers III	3
ELE 4301	Project	6

## BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING (BMEC)

### Programme Structure

<b>Year I: Semester I</b>		<b>CU</b>
CSK 1101	Communication Skills	
ELE 1103	Physical Electronics	4
EMT 1101	Engineering Mathematics I	4
MEC 1101	Engineering Drawing	4
MEC 1102	Engineering Mechanics I	4
MEC 1103	Electrical Engineering for Mechanics Engineers I	4
MEC 1104	Engineering Drawing	5
MEC 1107	Electrical Engineering	5
MEC 1109	Thermodynamics	5
TEC 1101	Communication Skills for Technology	3
<b>Semester II</b>		
EMT 1201	Engineering Mathematics II	4
EMT 1204	Information Communications Technology	4

MEC 1201	Engineering Mechanics II	4
MEC 1203	Thermodynamics	4
MEC 1204	Mechanics of Materials I	4
MEC 1205	Fluid Mechanics I	4
MEC 1206	Introduction to Computers	5
MEC 1208	Communication Skills	5
MEC 1209	Mechanics of Materials I	5
<b>Recess Term</b>		
IND 1301	Workshop Practice	2
TEC 1301	Workshop Practice	2
TEC 1302	Workshop Practice	5
	<b>Total Year I Credit Units</b>	<b>50</b>
<b>Year II: Semester I</b>		
EMT 2101	Engineering Maths III	4
MEC 2101	Fluid Mechanics for Mechanical Engineers I	4
MEC 2102	Mechanics of Materials II	4

MEC 2103	Computer Aided Design for Mechanic Engineers I	4
MEC 2104	Fluid Mechanics II	5
MEC 2106	Mechanics of Materials	5
MEC 2108	Machine Drawing	5
MEC 2109	Machine Drawing	4
TEC 2101	Sociology of Technology	3
<b>Semester II</b>		
EMT 2201	Engineering Mathematics IV	4
MEC 2201	Electrical Engineering for Mechanical Engineers II	4
MEC 2202	Theory of Machines	4
MEC 2203	Computer Programming for Mechanical Engineers I	4
MEC 2204	Materials Science and Engineering I	
MEC 2205	Fluid Mechanics for Mechanical Engineers II	4
MEC 2206	Electrical Engineering II	5
MEC 2209	Heat Transfer	4
MEC 2210	Computer Programming	5
MEC 2211	Computer Programming	3
MEC 2212	Materials Science	4
<b>Recess Term</b>		
IND 2301	Industrial Training I	2
MEC 2301	Industrial Training for Mechanical Engineers I	2
MEC 2302	Industrial Training	5
	<b>Total Year II Credit Units</b>	<b>52</b>
<b>Year III: Semester I</b>		
EMG 3101	Engineering Management	4
MEC 3101	Materials Science and Engineering II	4
MEC 3102	Engineering Management	4
MEC 3103	Production Engineering I	4
MEC 3104	Design of Machine Elements	4
MEC 3105	Dynamic Systems Engineering	4
MEC 3106	Properties of Materials	4
MEC 3107	Business Management I	4
MEC 3108	Business Management I	4
MEC 3109	Production Engineering I	5
MEC 3111	Design of Machine Elements	5
MEC 3113	Dynamic Systems Engineering	5
MEC 3131	Properties of Materials	4
MEC 3132	Business Management I	4

<b>Semester II</b>		
MEC 3201	Mechanical Engineering Maintenance	4
MEC 3202	Production Engineering II	4
MEC 3203	Product Design Development	4
MEC 3104	Heat Transfer	4
MEC 3205	Control Systems Engineering	4
MEC 3206	Computer-Aided Engineering	5
MEC 3207	Computer –Aided Engineering	4
MEC 3209	Product Design	3
MEC 3211	Applied Thermodynamics	5
MEC 3233	Product Design	4
<b>Recess Term</b>		
IND 3301	Industrial Training II	2
MEC 3301	Industrial Training for Mechanical Engineers II	2
MEC 3302	Industrial Training	5
<b>Year IV: Semester I</b>		
EMG 4101	Business Management for Engineers	4
EMG 4102	Production Planning and Control	4
MEC 4101	Business Management for Mechanical Engineers	4
MEC 4102	Applied Thermodynamics	2
MEC 4103	Production Planning and Control for Mechanical Engineers	4
MEC 4104	Mechanical Engineering Project I	4
<b>One Elective</b>		
MEC 4105	Renewable Energy Systems	4
MEC 4106	Materials Handling	4
MEC 4107	Welding Technology	4
MEC 4108	Computer Aided Mechanical Engineering	4
MEC 4110	Applied Thermodynamics	4
MEC 4113	Engineering Project I	4
MEC 4117	Automotive Engineering	4
MEC 4119	Air Conditioning and Refrigeration	4
MEC 4131	Business Management	4
<b>Semester II</b>		
EMG 4201	Entrepreneurship	4
EMG 4202	Operations and Project Management	4
MEC 4201	Entrepreneurship for Mechanical Engineers	4

MEC 4202	Environmental Engineering	4
MEC 4203	Mechanical Vibrations	4
MEC 4204	Automotive Engineering	4
MEC 4205	Air Conditioning and Refrigeration	4
MEC 4206	Fluid Power Systems	4
MEC 4207	Operations the Project Management for Mechanical Engineers	4
MEC 4209	Mechanical Engineering Project II	4
MEC 4208	Kinematics Linkage Design	4
MEC 4210	Project	6
MEC 4212	Maintenance Engineering	4

MEC 4216	Welding Technology	4
MEC 4220	Operations Research	4
<b>Elective Courses (Select Two)</b>		
MEC 4105	Renewable Energy Systems	4
MEC 4106	Materials Handling	4
MEC 4117	Automotive Engineering	4
MEC 4119	Air Conditioning and Refrigeration	4
MEC 4203	Mechanical Vibrations	4
MEC 4208	Kinematics Linkage Design	4
MEC 4216	Welding Technology	4
MEC 4220	Operations Research	4

## BACHELOR OF SCIENCE IN SURVEYING (BSUR)

### Programme Structure

Year I: Semester I		CU
CSK 1101	Communication Skills	
SUV 1101	Principles of Surveying I	4
EMT 1102	Survey Mathematics I	4
SUV 1102	Physics for Surveyors	4
SUV 1103	Plan Drawing	4
SUV 1104	Natural Environment Studies	4
TEC 1101	Communication Skills for Technology	3
<b>Semester II</b>		
SUV 1201	Introduction to Advanced Surveying	4
SUV 1202	Measurement Science	4
SUV 1203	Land Economy I	3
SUV 1204	Economics for Surveyors	3
SUV 1205	Computer Studies for Surveyors I	4
SUV 1206	Engineering Surveying	3
<b>Recess Period</b>		
IND 1302	Survey Camp	4
SUV 1301	Survey Camp	4
	<b>Total Year I Credit Units</b>	<b>50</b>
<b>Year II: Semester I</b>		
EMT 2101	Engineering Mathematics II	4
EMT 2102	Survey Mathematics II	4
TEC 2101	Sociology for Technology	4
SUV 2101	Cartography	4

SUV 2102	Building Economics I	3
SUV 2103	Land Economy II	4
SUV 2104	Map Projections	4
SUV 2132	Building Economics	3
<b>Semester II</b>		
EMT 2202	Information Communication Technology III	4
SUV 2201	Principles of Landscape Design	4
SUV 2202	Photogrammetry I	4
SUV 2203	Hydrographic Surveying	3
SUV 2204	Computer Studies to Surveyors II	4
SUV 2205	Land Law for Surveyors	4
<b>Recess Period</b>		
IND 2302	Field Training	2
SUV 2301	Field Training for Surveyors I	2
	<b>Total Year II Credit Units</b>	<b>46</b>
<b>Year III : Semester I</b>		
EMT 3101	Survey Mathematics III	4
SUV 3101	Survey Adjustments I	3
SUV 3102	Land Registration	4
SUV 3103	Photogrammetry II	4
SUV 3104	Physical Geodesy	3
SUV 3105	Research Methods to Surveyors	3