Bachelor of Engineering
Program in Mechanical Engineering
(Revised B.E.2017)

Year 1 – Semester 1

Course	Title	Credit
ENGL1101	Fundamental English	2
MATH0110	Mathematics I	3
MUTA0001	Preliminary Project Design	0
PHYS0110	Physics I	3
PHYS0190	Physics Laboratory I	1
SOHU0019	Innovation and Creativity	3
STAT0115	General Statistics	3
	Total	15

Year 1 – Semester 2

Course	Title	Credit
MATH0111	Mathematics II	3
MECH0110	Engineering Mechanics	3
MECH0115	Basic Engineering Drawing	3
MECH0190	Basic Tool Skills Practice	3
PHYS0111	Physics II	3
PHYS0191	Physics Laboratory II	1
	Total	16

Year 1 – Summer Semester

Course	Title	Credit
CHEM0120	Chemistry	3
CHEM0190	Chemistry Laboratory	1
ENGL1102	Fundamental English for Academic Purposes	2
	Total	6

Year 2 – Semester 1

Course	Title	Credit
EECP0101	Introduction to Computer	3
ENGL2101	Fundamental English Communication	2
MATH0210	Mathematics III	3
MATS0310	Engineering Materials	3
MECH0111	Engineering Dynamics	3
MECH0220	Thermodynamics	3
MECH0xxx	Mechanical Engineering Elective	3
	Total	20

Year 2 – Semester 2

Course	Title	Credit
ENCC0005	Engineering Innovation	3
EECC0232	Basic Electrical Engineering	3
ENGL2102	English Communication in the Workplace	2
MATH0211	Mathematics IV	3
MECH0210	Fluid Mechanics	3
MECH0215	Solid Mechanics	3
MECH0342	Manufacturing Technology	3
MUTA0002	Critical Project Design	0
	Total	20

Year 3 – Semester 1

Course	Title	Credit
ENGLxxxx	English Language Elective	2
MECH0240	Mechanics of Machinery	3
MECH0332	Machine Design	3
MECH0350	Mechanical Engineering Laboratory I	2
MECH0451	Turbomachinery	3
MECH0462	Heat Transfer	3
XXXXxxxx	Free Elective	3
	Total	19

Year 3 – Semester 2

Course	Title	Credit
MECH0351	Mechanical Engineering Laboratory II	2
MECH0360	Mechanical Vibration	3
MECH0443	Computer Aided Mechanical Design	3
MECH0463	Refrigeration and Air-Conditioning	3
MECH0468	Introduction to Combustion	3
MECH0xxx	Mechanical Engineering Elective	3
MECH0xxx	Mechanical Engineering Elective	3
	Total	20

Year 3 – Summer Semester

Course	Title	Credit
INDT0390	Industrial Training	0(160 hrs.)
	Total	0

Year 4 – Semester 1

Course	Title	Credit
ENGL1308	English for Future Careers	2
MECH0311	Power Plant Engineering	3
MECH0421	Fluid Power Control	3
MECH0430	Automatic Control	3
MECH0444	Computer Aided Mechanical Engineering	3
MECH0490	Mechanical Engineering Project	2
SCIE0103	Earth and Space	3
	Total	19

Year 4 – Semester 2

Course	Title	Credit
ENCC0006	Ethics for Engineers	1
MECH0478	Quality Control and Management	3
MECH0491	Mechanical Engineering Project II	2
MECH0xxx	Mechanical Engineering Elective	3
MECH0xxx	Mechanical Engineering Elective	3
XXXXxxxx	Free Elective	3
	Total	15