

BACHELOR OF ENGINEERING (MECHANICAL - MANUFACTURING) CURRICULUM

FIRST YEAR

Semester I

Code	Subjects	Lec.	Tut.	Prac./ Studio	Credit	Prerequisite
SME 1203	Statics	3	1	0	3	
SME 1503	Engineering Drawing	2	0	3	3	
SME 1613	Materials Science	3	1	0	3	
SME 1912	Laboratory I	1	0	3	2	
SSE 1792	Calculus	2	1	0	2	
UHB 1412	English For Academic Communication	4	0	0	2	
Total					15	

Semester II

Code	Subjects	Lec.	Tut.	Prac./ Studio	Credit	Prerequisite
SME 1013	Programming for Engineers	3	1	0	3	
SME 1213	Dynamics	3	1	0	3	SME 1203
SME 1313	Fluid Mechanics I	3	1	0	3	SME 1203
SME 1413	Thermodynamics I	3	1	0	3	
SSE 1893	Engineering Mathematics	3	1	0	3	SSE 1792
ULT 1022	TITAS	2	0	0	2	
UQX 1xx1	Co-Curriculum	0	0	3	1	
Total					18	

Short Semester

Code	Subjects	Lec.	Tut.	Prac./ Studio	Credit	Prerequisite
SME 1902	Engineering Workshop	0	0	6	2	
Total					2	

SECOND YEAR

Semester III

Code	Subjects	Lec.	Tut.	Prac./ Studio	Credit	Prerequisite
SME 2113	Solid Mechanics I	3	1	0	3	SME 1203
SME 2423	Thermodynamics II	3	1	0	3	SME 1413
SME 2713	Manufacturing Processes	3	1	0	3	
SEU 2002	Electrical Technology	2	1	0	2	
SSE 1793	Differential Equation	3	1	0	3	SSE 1792
UHS 1152	Ethnic Relations	2	0	0	2	
Total					16	

Semester IV

Code	Subjects	Lec.	Tut.	Prac./ Studio	Credit	Prerequisite
SME 2123	Solid Mechanics II	3	1	0	3	SME 2113
SME 2223	Vibration & Mechanics of Machine	3	1	0	3	SME 1213
SME 2323	Fluid Mechanics II	3	1	0	3	SME 1313
SME 2512	Introduction to Design	1	0	3	2	SME 1203, SME 1503
SME 2921	Laboratory II	0	0	2	1	SME 1912
SEU 2012	Electronics	2	1	0	2	
SSE 2193	Engineering Statistics	3	1	0	3	
Total					17	

THIRD YEAR
Semester V

Code	Subjects	Lec.	Tut.	Prac./ Studio	Credit	Prerequisite
SME 3023	Applied Numerical Methods	3	1	0	3	SME 1013, SSE 1893
SME 3233	Control Engineering	3	1	0	3	SME 1213, SME 1893, SSE 1793
SME 3242	Instrumentation	2	1	0	2	SEU 2012
SME 3931	Laboratory III	0	0	3	1	SME 2921
SMR 3713	Metrology and Quality Control	3	1	0	3	SSE 2193*
UHB 2422	Advanced English For Academic Communication	4	0	0	2	
UHS 2xx2	Humanities Electives	2	0	0	2	
Total					16	

Semester VI

Code	Subjects	Lec.	Tut.	Prac./ Studio	Credit	Prerequisite
SME 3033	Finite Elements Methods	3	1	0	3	SME 2113
SME 3523	Component Design	2	0	3	3	SME 2123, SME 2512
SME 3622	Materials Technology	2	1	0	2	SME 1613
SMR 3942	CNC/CAD/CAM Technology Laboratory	0	0	6	2	SME 3931, SME 2713
SMR 3732	Quality Engineering	2	1	0	2	SMR 3713*
UHB 3xx2	English Electives	4	0	0	2	
ULT 2122/ ULT 2132	Islamic Institution/Islamic & Current Issues	2	0	0	2	
Total					16	

Short Semester

Code	Subjects	Lec.	Tut.	Prac./ Studio	Credit	Prerequisite
SME 3915	Industrial Training	0	0	15	5	SME 2123, SME 2223, SME 2323, SME 2423
Total					5	

FOURTH YEAR
Semester VII

Code	Subjects	Lec.	Tut.	Prac./ Studio	Credit	Prerequisite
SMN 4832	Engineering Management	2	1	0	2	
SME 4912	Undergraduate Project I	0	0	6	2	SME 2123, SME 2223, SME 2323, SME 2423
SMR 4712	Design for Manufacture and Assembly	2	1	0	2	SME 2713
SMR 4713	Manufacturing System	3	1	0	3	
SMR 4723	Tooling for Production	3	1	0	3	SME 2713
UHS 3012	Entrepreneurship & Enterprise Development	2	0	0	2	
UQX 1xx1	Co-Curriculum	0	0	3	1	
Total					15	

Semester VIII

Code	Subjects	Lec.	Tut.	Prac./ Studio	Credit	Prerequisite
SME 4833	Engineering Economics	3	0	0	3	
SME 4901	Engineering Professional Practise	1	0	0	1	
SME 4924	Undergraduate Project II	0	0	12	4	SME 4912
SMN 4842	Project Management and Maintenance	2	1	0	2	
SMR 4722	Manufacturing Automation	2	1	0	2	
SMR 47x2	Option	2	1	0	2	
Total					14	

* pre-requisite subjects already taken