

# BSc in Mechanical Engineering

TABLE 2: COURSE DISTRIBUTION PER SEMESTER

A/A	Course Type	Course Name	Course Code	Periods per week	Period duration	Number of weeks/ Academic semester	Total periods/ Academic semester	Number of ECTS
<b>A' Semester</b>								
1.	R	Calculus I	MATH-195	4	50'	13	52	6
2.	R	Programming for Engineers	ENGR-111	4	50'	13	52	8
3.	R	Computer Aided Design	MENG-110	3	50'	13	39	6
4.	E	General Chemistry or General Physics I	CHEM-106 or PHYS-150	5	50'	13	65	8
<b>B' Semester</b>								
5.	R	Calculus II	MATH-196	4	50'	13	52	6
6.	R	Electrical Networks & Machines	MENG-100	4	50'	13	52	6
7.	R	Engineering Mechanics: Statics	MENG-250	3	50'	13	39	6
8.	R	General Physics II	PHYS-160	5	50'	13	65	8
9.	R	Technical Writing & Research	BADM-332	3	50'	13	39	6
<b>C' Semester</b>								
10.	R	Electronics I	ECE-210	3	50'	13	39	6
11.	R	Thermodynamics I	MENG-260	3	50'	13	39	6
12.	R	Ordinary Differential Equations	MATH-330	3	50'	13	39	6
13.	R	Materials Science and Engineering	MENG-272	3	50'	13	39	6
14.	R	Mechanical Measurements and Instrumentation	MENG-314	3	50'	13	39	6
<b>D' Semester</b>								
15.	R	Calculus III	MATH-276	4	50'	13	52	6
16.	R	Strength of Materials	MENG-270	3	50'	13	39	6
17.	R	Fluid Mechanics	MENG-280	3	50'	13	39	6
18.	R	Mechanical Engineering Design	MENG-310	4	50'	13	52	6
19.	R	Manufacturing Processes	MENG-312	4	50'	13	52	6

E' Semester								
20.	R	Linear Algebra I	MATH-280	3	50'	13	39	6
21.	R	Engineering Mechanics: Dynamics	MENG-252	3	50'	13	39	6
22.	R	Thermodynamics II	MENG-262	3	50'	13	39	6
23.	R	Machine Elements	MENG-350	4	50'	13	52	6
24.	E	Industrial Production Engineering *	MENG-412	3	50'	13	39	6
F' Semester								
25.	R	Numerical Methods using MATLAB	ENGR-290	3	50'	13	39	6
26.	R	Heat and Mass Transfer	MENG-290	3	50'	13	39	6
27.	R	System Dynamics and Vibrations	MENG-340	3	50'	13	39	6
28.	R	Energy Conversion Systems	MENG-482	3	50'	13	39	6
29.	E	Biomaterials *	MENG-422	3	50'	13	39	6
G' Semester								
30.	R	Systems and Control Engineering	MENG-342	3	50'	13	39	6
31.	R	Internal Combustion Engines	MENG-430	4	50'	13	52	6
32.	R	Capstone Design Project I	MENG-490	1	50'	13	13	6
33.	E	Mechatronics and Robotics *	MENG-440	3	50'	13	39	6
34.	E	Composite Materials *	MENG-470	4	50'	13	52	6
H' Semester								
35.	R	Capstone Design Project II	MENG-492	0	50'	13	0	12
36.	E	Engineering Economy **	ENGR-300	3	50'	13	39	6
37.	E	Environmental Pollution *	MENG-484	3	50'	13	39	6
38.	E	Alternative Energy Systems*	MENG-486	3	50'	13	39	6

\* Indicative Mechanical Engineering Elective. Students may select from a list of 19 different electives.

\*\* Indicative Business Elective. Students may select another elective from the Business School