

Undergraduate — B.Sc in Mechanical Engineering

71 courses · 12 semesters · 160 credits

Course Structure

First Year: 1st Semester

7 courses · 16 credits

CODE	COURSE	CREDITS
Shop 1100	Foundry and Welding Shops	1
Ban 1101	Bengali Language and Literature	2
ME 1101	Basic Mechanical Engineering	4
Phy 1101	Physics I	3
Phy 1102	Physics I Sessional	1.5
Chem 1101	Engineering Chemistry	3
Chem 1102	Inorganic Quantitative Analysis	1.5

First Year: 2nd Semester

6 courses · 11.25 credits

CODE	COURSE	CREDITS
ME 1200	Mechanical Engineering Drawing I	1.5
Shop 1200	Machine Shop Practices	1
Math 1201	Mathematics I	3
Hum 1201	English Language	3
Hum 1202	English Language Sessional	0.75
Hum 1203	History of Bangladesh Independence	2

First Year: 3rd Semester

5 courses · 12.25 credits

CODE	COURSE	CREDITS
Math 1301	Mathematics II	3
EEE 1301	Electrical Engineering & Electronics Technology	4
EEE 1302	Electrical Engineering & Electronics Technology Sessional	0.75
CSE 1301	Computer Programming Language	3
CSE 1302	Computer Programming Language Sessional	1.5

Second Year: 1st Semester

5 courses · 13.5 credits

CODE	COURSE	CREDITS
ME 2100	Mechanical Engineering Drawing II	1.5
ME 2101	Engineering Mechanics I	3

Phy 2101	Physics II	3
Math 2101	Mathematics III	3
ME 2103	Numerical Analysis for Engineers	3

Second Year: 2nd Semester

7 courses · 13 credits

CODE	COURSE	CREDITS
Hum 2201	Environmental Protection	2
ME 2201	Engineering Mechanics II	3
EEE 2202	Electronics Technology Sessional	0.75
Hum 2203	Engineering Economics	2
ME 2204	Numerical Analysis for Engineers Sessional	1.5
ME 2205	Engineering Thermodynamics	3
ME 2206	Engineering Thermodynamics Sessional	0.75

Second Year: 3rd Semester

6 courses · 13.75 credits

CODE	COURSE	CREDITS
Hum 2301	Sociology and Accounting	3
Math 2301	Mathematics IV	3
ME 2303	Metallic Materials	3
ME 2304	Metallic Materials Sessional	0.75
ME 2307	Mechanics of Solids	3
ME 2308	Mechanics of Solid Sessional	1

Third Year: 1st Semester

6 courses · 13.75 credits

CODE	COURSE	CREDITS
ME 3121	Fluid Mechanics I	3
ME 3122	Fluid Mechanics I Sessional	0.75
ME 3141	Mechanics of Machinery	4
ME 3142	Mechanics of Machinery Sessional	1.5
ME 3143	Instrumentation and Measurement	3
ME 3144	Instrumentation & Measurement Sessional	1.5

Third Year: 2nd Semester

5 courses · 13.5 credits

CODE	COURSE	CREDITS
IPE 3201	Industrial Management	3
ME 3201	Heat and Mass Transfer	4

ME 3202	Heat and Mass Transfer Sessional	1.5
ME 3203	Power Plant Engineering	3
Hum 3261	Engineering Ethics & Professionalism	2

Third Year: 3rd Semester

6 courses · 13.25 credits

CODE	COURSE	CREDITS
ME 3323	Fluid Mechanics II	3
ME 3324	Fluid Mechanics II Sessional	1
IPE 3331	Manufacturing Processes	3
IPE 3332	Manufacturing Process Sessional	0.75
ME 3343	Machine Design	4
ME 3344	Machine Design Sessional	1.5

Fourth Year: 1st Semester

6 courses · 14.75 credits

CODE	COURSE	CREDITS
ME 4000-1	Project and Thesis I	2
ME 4101	Internal Combustion Engine	3
IPE 4103	Measurement and Quality Control	3
IPE 4104	Measurement & Quality Control Sessional	0.75
ME 4105	Refrigeration & Building Mechanical System	3
ME 41XX	Select a Course from Option-I	3

Fourth Year: 2nd Semester

6 courses · 12.5 credits

CODE	COURSE	CREDITS
ME 4000-2	Project and Thesis II	2
ME 4201	Automobile Engineering	3
ME 4202	Heat Engines Sessional	0.75
ME 42XX	Select a Course from Option-II	3
ME 4223	Fluid Machinery	3
ME 4224	Fluid Machinery Sessional	0.75

Fourth Year: 3rd Semester

6 courses · 12.5 credits

CODE	COURSE	CREDITS
ME 4000	Project and Thesis	2
ME 4304	Steam Laboratories Sessional	0.75
IPE 4305	Machine Tools	3

IPE 4306	Machine Tools Sessional	0.75
ME 43XX	Select a Courses from Option-II	3
ME 43XX	Select a Courses from Option-II	3

Credit Distribution

SEMESTER	THEORY	SESSIONAL	TOTAL	CUMULATIVE
First Year: 1st Semester	12	4	16	16
First Year: 2nd Semester	8	3.25	11.25	27.25
First Year: 3rd Semester	10	2.25	12.25	39.5
Second Year: 1st Semester	12	1.5	13.5	53
Second Year: 2nd Semester	10	3	13	66
Second Year: 3rd Semester	12	1.75	13.75	79.75
Third Year: 1st Semester	10	3.75	13.75	93.5
Third Year: 2nd Semester	12	1.5	13.5	107
Third Year: 3rd Semester	10	3.25	13.25	120.25
Fourth Year: 1st Semester	12	2.75	14.75	135
Fourth Year: 2nd Semester	9	3.5	12.5	147.5
Fourth Year: 3rd Semester	9	3.5	12.5	160