

Level/Term-wise Distribution of Courses

Level 1, Term 1 Courses

SL	Course code	Course title	Credits		Contact hours/week		Pre-requisite
			<i>Theory</i>	<i>Practical</i>	<i>Theory</i>	<i>Practical</i>	
1	EEE 1101	Electrical Circuits I	3		3		
2	EEE 1102	Electrical Circuits I Sessional		1.5		3	
3	PHY 1101	Physics I-Electricity and Magnetism	3		3		
4	PHY 1102	Physics I Sessional		1.5		3	
5	HUM 1101	History of Emergence of Bangladesh	3		3		
6	MAT 1101	Differential and Integral Calculus	3		3		
7	CEE 1104	Engineering Drawing		1.5		3	
8	ENG 1101	English for Technical Communication	3		3		
Total credits and total contact hours per week			15	4.5	15	9	
Total credits and total contact hours per week (theory + practical)			19.5		24		

Level 1, Term 2 Courses

SL	Course code	Course title	Credits		Contact hours/week		Pre-requisite
			<i>Th eo ry</i>	<i>P r a c t i c a l</i>	<i>Th eo ry</i>	<i>Pra ctic al</i>	
1	EEE 1203	Electrical Circuits II	3		3		EEE 1101
2	EEE 1204	Electrical Circuits II Sessional		1.5		3	EEE 1203
3	PHY 1203	Physics II-Optics, Modern Physics, Wave and Oscillation	3		3		PHY 1101
4	PHY 1204	Physics II Sessional		1.5		3	PHY 1102
5	CSE 1201	Structured Programming Language	3		3		
6	CSE 1202	Structured Programming Language Sessional		1.5		3	
7	MAT 1203	Ordinary & Partial Differential Equations	3		3		
8	ENG 1202	Developing English Language Skill Sessional		1.5		3	ENG 1101
Total credits and total contact hours per week			12	6	12	12	
Total credits and total contact hours per week (theory + practical)			18		24		

Level 2, Term 1 Courses

SL	Course code	Course title	Credits		Contact hours/week		Pre-requisite
			<i>Th eo ry</i>	<i>Pr act ica l</i>	<i>Th eo ry</i>	<i>Pr act ica l</i>	
1	EEE 2105	Electronic Circuits I	3		3		EEE 1203
2	EEE 2107	Electrical Machine I	3		3		EEE 1204
3	CHE 2101	Chemistry	3		3		
4	CHE 2102	Chemistry Sessional		1.5		3	
5	MAT 2105	Linear Algebra and Complex Variables	3		3		MAT 1203
6	MAT 2107	Coordinate Geometry and Vector Analysis	3		3		MAT 1203
7	CEE 2101	Mechanical Engineering Fundamentals	3		3		
Total credits and total contact hours per week			18	1.5	18	3	
Total credits and total contact hours per week (theory + practical)			19.5		21		

Level 2, Term 2 Courses

SL	Course code	Course title	Credits	Contact hours/week	Pre-requisite
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			<i>T h e o r y</i>	<i>P r a c t i c a l</i>	<i>The o r y</i>	<i>Pr a c t i c a l</i>	
1	EEE 2209	Electronic Circuits II	3		3		EEE 2105
2	EEE 2210	Electronic Circuits II Sessional		1.5		3	EEE 2209
3	EEE 2211	Electrical Machine II	3		3		EEE 2107
4	EEE 2212	Electrical Machine II Sessional		1.5		3	EEE 2211
5	EEE 2213	Signals and Linear System Analysis	3		3		MAT 2107
6	EEE 2217	Electromagnetic Fields and Waves	3		3		PHY 1203
7	MAT 2209	Probability and Statistics	3		3		MAT 1101
8	HUM 2203	Engineering Professional Ethics	3		3		
Total credits and total contact hours per week			18	3	18	6	
Total credits and total contact hours per week (theory + practical)			21		24		

Level 3, Term 1 Courses

SL	Course code	Course title	Credits	Contact hours/week	Pre-requisite
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			<i>T h e o r y</i>	<i>P r a c t i c a l</i>	<i>The o r y</i>	<i>P r a c t i c a l</i>	
1	EEE 3115	Communication Theory I	3		3		EEE 2217
2	EEE 3116	Communication Theory I Sessional		1.5		3	EEE 3115
3	EEE 3118	Electrical Services Design		1.5		3	EEE 1203
4	EEE 3119	Digital Electronics	3		3		EEE 2209
5	EEE 3120	Digital Electronics Sessional		1.5		3	EEE 3119
6	EEE 3121	Electrical Properties of Materials	3		3		PHY 1203
7	MAT 3111	Numerical Analysis	3		3		MAT 2107
8	ACT 3101	Financial and Managerial Accounting	3		3		
Total credits and total contact hours per week			15	4.5	15	9	
Total credits and total contact hours per week (theory + practical)			19.5		24		

Level 3, Term 2 Courses

SL	Course code	Course title	Credits	Contact hours/week	Pre-requisite
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			<i>Th eor y</i>	<i>Prac tical</i>	<i>The ory</i>	<i>Practica l</i>	
1	EEE 3223	Power System I	3		3		EEE 2211
2	EEE 3225	Industrial and Power Electronics	3		3		EEE 2209
3	EEE 3226	Industrial and Power Electronics Sessional		1.5		3	EEE 3225
4	EEE 3227	Microprocessors and Interfacing	3		3		EEE 3119
5	EEE 3228	Microprocessors and Interfacing Sessional		1.5		3	EEE 3227
6	EEE 3229	Digital Signal Processing	3		3		EEE 2213
7	EEE 3230	Digital Signal Processing Sessional		1.5		3	EEE 3229
8	EEE 3231	Industrial and Operations Management	3		3		
9	EEE 3200	Industrial Attachment		1		Two Weeks	
Total credits and total contact hours per week			15	5.5	15	9	
Total credits and total contact hours per week (theory + practical)			20.5		24		

Level 4, Term 1 Courses

SL	Course code	Course title	Credits	Contact hours/week	Pre-requisite
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			<i>The ory</i>	<i>Pra ctic al</i>	<i>The ory</i>	<i>Pra ctic al</i>	
1	EEE 4000	Project and Thesis		3		3	
2	EEE 4100	Capstone Project		1.5		3	
3	EEE 4137	Communication Theory II	3		3		EEE 3115
4	EEE 4139	Power System II	3		3		EEE 3223
5	EEE 4140	Power System II Sessional		1.5		3	EEE 4140
6	EEE 4141	Control Systems	3		3		EEE 3229
7	EEE 4142	Control Systems Sessional		1.5		3	EEE 4141
8	EEE 4143	Solid State Devices	3		3		EEE 3121
9	EEE 41xx	Elective I	3		3		
Total credits and total contact hours per week			15	7.5	15	12	
Total credits and total contact hours per week (theory + practical)			22.5		27		

Level 4, Term 2 Courses

SL	Course code	Course title	Credits	Contact hours/week	Pre-requisite
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			<i>Th eor y</i>	<i>Pr act ica l</i>	<i>Th eor y</i>	<i>Pr act ica l</i>	
1	EEE 4000	Project and Thesis		3		3	
2	EEE 4245	Switchgear and Protection	3		3		EEE 4139
3	EEE 4246	Switchgear and Protection Sessional		1.5		3	EEE 4245
4	EEE 42xx	Elective II	3		3		
5	EEE 42xx	Elective II Sessional		1.5		3	
6	EEE 42xx	Elective III	3		3		
7	EEE 42xx	Elective IV	3		3		
Total credits and total contact hours per week			12	6	12	9	
Total credits and total contact hours per week (theory + practical)			18		21		