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PRIMEASIA UNIVERSITY

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Department of Electrical & Electronic Engineering

Bachelor of Science in Electrical & Electronic Engineering

List of Courses

Semester 1			
Course No.	Course Name	Pre-Req.	Credits
EEE-1111	Electrical Circuits I	NI	3
EEE-1112	Electrical Circuits I Sessional	NI	1
MATH-1101	Elementary Mathematics	NI	3
PHY-1101	Physics I	NI	3
PHY-1102	Physics I Sessional	NI	1
ENG-1101	Basic English	NI	3
Total Credits in Semester			14
Semester 2			
Course No.	Course Name	Pre-Req.	Credits
EEE-1211	Electrical Circuits II	EEE-1111	3
EEE-1212	Electrical Circuits II Sessional	EEE-1111	1
PHY-1213	Physics II	PHY-1101	3
PHY-1214	Physics II Sessional	PHY-1101	1
MATH-1201	Mathematics I	MATH-1101	3
CSE-1201	Computer Fundamentals	NI	3
CSE-1202	Computer Appl. Sessional	NI	1
Total Credits in Semester			15
Semester 3			
Course No.	Course Name	Pre-Req.	Credits
CHEM-1301	Chemistry	NI	3
CHEM-1302	Chemistry Sessional	NI	1
MATH-1315	Mathematics II	MATH-1201	3
ME-1317	Fundamental of Mechanical Eng.	PHY-1101	3
ENG-1303	Advanced English	ENG-1101	3
Total Credits in Semester			13
Semester 4			
Course No.	Course Name	Pre-Req.	Credits
EEE-2111	Electronics Circuits I	EEE-1111	3
EEE-2112	Electronics Circuits I Sessional	EEE-1111	1
MATH-2117	Mathematics III	MATH-1315	3
CSE-2113	Computer Programming	CSE-1201	3
CSE-2114	Computer Programming Sessional	CSE-1202	1
STAT-2111	Engg. Stats & Prob. Theory	NI	3
Total Credits in Semester			14
Semester 5			
Course No.	Course Name	Pre-Req.	Credits
EEE-2213	Electronics Circuits II	EEE-2111	3
EEE-2214	Electronics Circuits II Sessional	EEE-2112	1
MATH-2219	Mathematics IV	MATH-2117	3
EEE-2211	Engineering Electromagnetics	PHY-1101	3
EEE-2217	Energy Conversion I	EEE-1211	3
Total Credits in Semester			13
Semester 6			
Course No.	Course Name	Pre-Req.	Credits
EEE-2319	Energy Conversion II	EEE-2217	3
EEE-2310	Energy Conversion Sessional	EEE-2217	1
EEE-2311	Power System I	EEE-2217	3
EEE-2312	Power System I Sessional	EEE-2217	1
EEE-2324	Electrical Service Design	NI	1
HUM-2373	World Civilization	NI	3
Total Credits in Semester			12

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Semester 7			
Course No.	Course Name	Pre-Req.	Credits
EEE-3115	Digital Electronics	EEE-2111	3
EEE-3116	Digital Electronics Sessional	EEE-2111	1
HUM-3171	Bangladesh Study	NI	3
EEE-3111	Numerical Techniques	MATH-1201	2
EEE-3119	Continuous Signals & Linear Systems	EEE-2213	3
Total Credits in Semester			12
Semester 8			
Course No.	Course Name	Pre-Req.	Credits
MGT-3213	Industrial Management	NI	3
EEE-3215	Digital Signal Processing I	EEE-3119	3
EEE-3216	Digital Signal Processing I Sessional	EEE-3119	1
HUM-3273	Sociology	NI	3
ECO-1371	Principles of Economics	NI	3
Total Credits in Semester			13
Semester 9			
Course No.	Course Name	Pre-Req.	Credits
EEE-3313	Control System I	EEE-3119	3
EEE-3314	Control System I Sessional	EEE-3119	1
EEE-3311	Communication Theory	EEE-3119	3
EEE-3312	Communication Theory Sessional	EEE-3119	1
HUM-3371	Professional Ethics	NI	3
CE-3112	Engineering Drawing Sessional	EEE-2324	1
Total Credits in Semester			12
Semester 10			
Course No.	Course Name	Pre-Req.	Credits
EEE-4111	Microprocessor & Interfacing	EEE-3115	3
EEE-4112	Microprocessor & Interfacing Sessional	EEE-3115	1
EEE-41XX	Elective I	NI	3
EEE-41XX	Elective I Sessional	NI	1
EEE-41XX	Elective II	NI	3
EEE-41XX	Elective II Sessional	NI	1
Total Credits in Semester			12
Semester 11			
Course No.	Course Name	Pre-Req.	Credits
EEE-4205A	Senior Project/ Thesis	NI	1.5
EEE-42XX	Elective III (Major)	NI	3
EEE-42XX	Elective IV (Minor)	NI	3
EEE-42XX	Elective IV (Optional Core)	NI	3
EEE-43XX	Elective IV sessional	NI	1
EEE-43XX	Elective V (Minor)	NI	3
Total Credits in Semester			14.5
Semester 12			
Course No.	Course Name	Pre-Req.	Credit
EEE-4200 B	Senior Project/ Thesis	NI	3
Total Credit in Semester			3

Total Semester : 12 | Total Credits : 147.5

Department of Electrical & Electronic Engineering

List of Elective Courses

Electrical Power			
Course No.	Course Name	Pre-Req.	Credits
EEE-4121	Power System II	EEE-2311	3
EEE-4123	Energy Conversion III	EEE-2319	3
EEE-4125	Power Electronics	EEE-2111	3
EEE-4126	Power Electronics Sessional	EEE-2111	1
EEE-4227	Power Plant Engineering	EEE-2311	3
EEE-4221	Power System Protection	EEE-4121	3
EEE-4222	Power System Protection Sessional	EEE-4121	1
EEE-4223	Power System Reliability	EEE-2311	3
EEE-4225	Power System Operation & Control	EEE-2311	3
EEE-4223	High Voltage Engineering	EEE-4121	3
EEE-4224	High Voltage Engineering Sessional	EEE-4121	1
Electronics			
Course No.	Course Name	Pre-Req.	Credits
EEE-4133	Processing & Fabrication Technology	NI	3
EEE-4135	VLSI I	EEE-3115	3
EEE-4136	VLSI I Sessional	EEE-3115	1
EEE-4237	Solid State Device	EEE-2111	3
EEE-4231	VLSI II	EEE-4135	3
EEE-4232	VLSI II Sessional	EEE-4135	1
EEE-4233	Optoelectronics	EEE-4237	3
EEE-4247	Digital Integrated Circuits	EEE-3115	3
EEE-4248	Digital Integrated Circuit Design laboratory	EEE-3115	1

Optional Core Courses			
Course No.	Course Name	Pre-Req.	Credits
EEE-4365	Biomedical Instrumentation	EEE-3119	3
EEE-4366	Biomedical Instrumentation Sessional	EEE-3119	1
EEE-4367	Measurement & Instrumentation	EEE-1211	3
EEE-4368	Measurement & Instrumentation Sessional	EEE-1211	1
EEE-4369	Electrical Properties of Materials	NI	3

Telecommunication Engineering			
Course No.	Course Name	Pre-Req.	Credits
EEE-4141	Random Signals & Processes	EEE-3119	3
EEE-4143	Digital Signal Processing II	EEE-3241	3
EEE-4145	Microwave Engineering	EEE-2211	3
EEE-4146	Microwave Engineering Sessional	EEE-2211	1
EEE-4247	Optical Fiber Communication	EEE-2211	3
EEE-4241	Digital Communication	EEE-3311	3
EEE-4242	Digital Communication Sessional	EEE-3311	1
EEE-4243	Mobile Cellular Communication	EEE-3311	3
EEE-4245	Telecommunication Engineering	EEE-3311	3
Computer Engineering			
Course No.	Course Name	Pre-Req.	Credits
CSE-4155	Microprocessor System Design	EEE-4111	3
CSE-4151	Operating System	CSE-1201	3
CSE-4156	Microprocessor System Design Sessional	EEE-4111	1
CSE-4153	Software Engineering	CSE-2113	3
CSE-4257	Real Time Computer System	CSE-1201	3
CSE-4251	Data Structure	CSE-1201	3
CSE-4252	Data Structure Sessional	CSE-1201	1
CSE-4253	Computer Architecture	CSE-1201	3
CSE-4255	Multimedia Communication	CSE-4151	3
CSE-4357	Computer Network	CSE-1201	3
CSE-4358	Computer Network Sessional	CSE-1201	1

Credit Summary of B.Sc. in EEE		
SL	Category of Courses	Credits Hours
1.	English	6
2.	Mathematics	20
3.	Basic Science Courses	12
4.	General Education	18
5.	Interdisciplinary Courses	12
6.	Program Core Courses	54
7.	Major Area Courses	11
8.	Minor Area Courses	6
9.	Optional Core Courses	4
10.	Thesis/ Senior Project	4.5
Total		147.5