

University of Engineering and Management, Kolkata

Syllabus for B.Tech(Electrical Engineering)

DEPARTMENT OF ELECTRICAL ENGINEERING

Second Year

Third Semester

A.THEORY							
Sl No.	Subject Code	Theory	Contact Hours/Week				Credit Points
			L	T	P	Total	
1	M (CS) 301	Numerical Methods	2	1	0	3	2
2	M302	Mathematics-III	3	1	0	4	4
3	EC(EE)301	Analog Electronic circuits	3	0	0	3	3
4	EC(EE)302	Digital Electronic circuits	3	0	0	3	3
5	EE-301	Electric Circuit theory	3	1	0	4	4
6	EE-302	Field theory	3	1	0	4	4
7	GS-301	Essential Studies for Professionals(ESP)	2	0	0	2	2
Total of Theory						23	22
B. PRACTICAL							
7	EC(EE)391	Analog & Digital Electronic circuit	0	0	3	3	2
8	M (CS)391	Numerical Methods	0	0	2	2	1
9	EE-391	Electric Circuit Theory	0	0	3	3	2
10	HU-381	Technical report writing and language practice	0	0	3	3	2
11	GS-381	Skill Development for Professionals	0	0	2	2	1
Total of Practical						13	8
Total of Semester						36	30

University of Engineering and Management, Kolkata

Syllabus for B.Tech(Electrical Engineering)

Fourth Semester

A.THEORY

Sl No.	Subject Code	Theory	Contact Hours/Week				Credit Points
			L	T	P	Total	
1	HU-401	Values & Ethics in Profession	3	0	0	3	3
2	ME(EE)-411	Thermal Power Engineering	3	0	0	3	3
3	CH-401	Basic Environmental Engineering & Elementary Biology	3	0	0	3	3
4	EE-401	Electric Machine-I	3	1	0	4	4
5	EE-402	Electrical & Electronic Measurement	3	1	0	3	3
6	EE-403	Computer Organization	3	1	0	4	4
7	GS-401	Essential Studies for Professionals(ESP)	2	0	0	2	2
Total of Theory						22	22

B. PRACTICAL

7	ME(EE)-481	Thermal Power Engineering Lab	0	0	3	3	2
8	EE-491	Electric Machine Lab-I	0	0	3	3	2
9	EE-492	Electrical & Electronic measurement Lab	0	0	3	3	2
10	EE-493	Computer Organization Lab	0	0	3	3	2
11	GS-481	Skill Development for Professionals	0	0	2	2	1
Total of Practical						14	9
Total of Semester						36	31

University of Engineering and Management, Kolkata

Syllabus for B.Tech (Electrical Engineering)

Third Year

Fifth Semester

A. THEORY

Sl No.	Subject Code	Theory	Contact Hours/Week				Credit Points
			L	T	P	Total	
1	HU-501	Economics for Engineers	3	0	0	3	3
2	EE-501	Electric machine-II	3	1	0	4	4
3	EE-502	Power system-I	3	1	0	4	4
4	EE-503	Control System-I	3	1	0	4	4
5	EE-504	Signals & Systems	3	0	0	3	3
6	EE-505	Data Base Management System	3	0	0	3	3
7	GS-501	Essential Studies for Professionals(ESP)	2	0	0	2	2
Total of Theory						23	23
B. PRACTICAL							
7	EE-591	Electric machine-II	0	0	3	3	2
8	EE-592	Power System-I	0	0	3	3	2
9	EE-593	Control System-I	0	0	3	3	2
10	EE-594	Data Base Management System	0	0	3	3	2
11	EE-581	Seminar	0	0	3	3	2
12	GS-581	Skill development for Professionals(SDP)	0	0	2	2	1
Total of Practical						17	11
Total of Semester						40	34

University of Engineering and Management, Kolkata

Syllabus for B.Tech (Electrical Engineering)

Sixth Semester

A.THEORY

Sl No	Subject Code	Theory	Contact Hours/Week				Credit Points
			L	T	P	Total	
1	HU-601	Principles of Management	2	0	0	2	2
2	EE-601	Control System-II	3	1	0	4	4
3	EE-602	Power System-II	3	1	0	4	4
4	EE-603	Microprocessor & Microcontroller	3	1	0	4	4
5	EE-604	Digital Signal Processing	3	0	0	3	3
6	EE-605	A. Data Science and Data Analytics	3	0	0	3	3
		B. Object Oriented Programming					
		C. Embedded Systems					
7	GS-601	Essential Studies for Professionals(ESP)	2	0	0	2	2
Total of Theory						22	22
B. PRACTICAL							
7	EE-691	Control System-II	0	0	3	3	2
8	EE-692	Power System-II	0	0	3	3	2
9	EE-693	Microprocessor & Microcontroller	0	0	3	3	2
10	EE-695	A. Data Science and Data Analytics	0	0	3	3	2
		B. Object Oriented Programming					
		C. Embedded Systems					
11	GS-681	Skill Development for Professionals(SDP)	0	0	2	2	1
Total of Practical						14	9
Total of Semester						36	31

University of Engineering and Management, Kolkata

Syllabus for B.Tech (Electrical Engineering)

Fourth Year

Seventh Semester

A.THEORY

Sl No.	Subject Code	Theory	Contact Hours/Week				Credit Points
			L	T	P	Total	
1	EE-701	Power Electronics & Drives	3	1	0	4	4
2	EE-702	Utilization of Electric Power	3	1	0	4	4
3	EE-703	A. Power system-III B. Control system-III C. Electric Machine-III	3	0	0	3	3
4	EE-704	A. High voltage Engineering B. Power Plant Engineering C. Power generation and economics D. Renewable & Non-conventional Energy	3	0	0	3	3
5	EE-705	A. Computer Network B. AI & Soft Computing C. Digital Communication D. Digital Image Processing	3	0	0	3	3
6	GS-701	Essential Studies for Professionals(ESP)	2	0	0	2	2
Total of Theory						19	19

B. PRACTICAL

6	EE-781	Seminar on industrial training	0	0	3	3	2
7	EE-791	Power Electronics & Drives	0	0	3	3	2
8	EE-792	A. Computer Network B. AI & Soft Computing C. Digital Communication D. Digital Image Processing	0	0	3	3	2
9	EE-782	Electrical system design-I	0	0	3	3	2
10	EE-783	Project-I	0	0	3	3	2
11	GS-781	Skill Development for Professionals(SDP)	0	0	2	2	1
Total of Practical						17	11
Total of Semester						36	30

University of Engineering and Management, Kolkata

Syllabus for B.Tech (Electrical Engineering)

Eighth Semester

A.THEORY

Sl No.	Subject Code	Theory	Contact Hours/Week				Credit Points
			L	T	P	Total	
1	HU-801	Organizational Behavior	2	0	0	2	2
2	EE-801	A. HVDC Transmission B. Illumination Engineering C. Energy management & Audit D. Digital Speech Signal Processing	3	0	0	3	3
3	EEE-802	A. Power Plant Instrumentation & Control B. Sensor & Transducers C. Biomedical Instrumentation D. Process Control	3	0	0	3	3
4	GS-801	Essential Studies for Professionals(ESP)	2	0	0	2	2
Total of Theory						10	10

B. PRACTICAL

4	EE-881	Project –II	0	0	12	12	6
5	EE-882	Electrical Systems Laboratory-II	0	0	6	6	4
6	EE-883	Grand Viva					3
7	GS-881	Skill Development for Professionals(SDP)	0	0	2	2	1
Total of Practical						20	14
Total of Semester						30	24