B.Tech Electrical Engineering *(Working Professionals)*

Study Scheme

SEMESTER – III

Course Code	Course Title	L	T	P	Credits
UWEE-301	Electrical Machines - I	3	0	0	3
UWEE-302	Electronic Devices & Circuits	3	0	0	3
UWEE-303	Circuit Theory & Networks	3	1	0	4
UWPD-301	Communication Skills for Engineers	2	0	0	2
UWEE-305	Electrical Machines - I Lab	0	0	2	1
UWEE-306	Industry field work	0	0	12	6
UWEE-307	Electronic Devices & Circuits Lab	0	0	2	1
UWPD-302	Communication Skills for Engineers Lab	0	0	2	1

Total Credits = 21

SEMESTER – IV

Course Code	Course Title	L	T	P	Credits
UWEE-401	Electrical Machines - II	3	1	0	4
UWEE-402	Signals & Systems	3	0	0	3
UWEE-403	Power Systems - I	3	0	0	3
UWES-401	Environment Science	3	0	0	3
UWEE-405	Electrical Machines - II Lab	0	0	2	1
UWEE-406	Applied Industrial Practices	0	0	12	6
UWEE-407	Analog Electronics Lab	0	0	2	1

Total Credits = 21

SEMESTER – V

Course Code	Course Title	L	T	P	Credits
UWEE-501	Power Systems - II	3	0	0	3
UWEE-502	Control Systems	3	0	0	3
UWPD-501	Professional Communication	3	0	0	3
UWEE-504X	Elective - 1	3	0	0	3

UWEE-505	Control Systems Lab	0	0	2	1
UWEE-506	Professional Practice & Industrial Assignment	0	0	12	6
UWPD-502	Professional Communication Lab	0	0	2	1

Total Credits = 20

SEMESTER – VI

Course Code	Course Title	L	T	P	Credits
UWEE-601	Power Electronics	3	1	0	4
UWPD-601	Workplace Communication & Ethics	3	0	0	3
UWEE-603X	Elective -2	3	0	0	3
UWEE-604X	Elective -3	3	0	0	3
UWEE-605	Power Electronics Lab	0	0	2	1
UWEE-606	Industrial Case Study	0	0	12	6

Total Credits = 20

SEMESTER – VII

Course Code	Course Title	L	T	P	Credits
UWEE-701	Seminar on Emerging Technologies	0	0	4	2
UWEE-702	Industrial Training / OJT-I	0	0	16	8
UWEE-703	Minor Project	0	0	16	8
UWEE-704	Industry Certification Course	0	0	6	3

Total Credits = 21

SEMESTER – VIII

Course Code	Course Title	L	T	P	Credits
UWEE-801	Industrial Training / OJT-II	0	0	16	8
UWEE-802	Major Project	0	0	24	12

Total Credits = 20

Electives

Elective - 1	Elective - 2	Elective - 3
UWEE-504A: Electrical Measurements & Instrumentation	UWEE-603A: Switchgear & Protection	UWEE-604A: Embedded Systems & IoT
UWEE-504B: Renewable Energy Systems	UWEE-603B: Power Quality & Management	UWEE-604B: Industrial Project Management

UWEE-504C: Smart Grid Technologies	UWEE-603C: Supply Chain Management	UWEE-604C: Advanced Instrumentation & Control
UWEE-504D: Electric Vehicle Technology	UWEE-603D: Environmental Pollution Control	UWEE-604D: Product Design & Development

Note: L = Lecture hours/week, T = Tutorial hours/week, P = Practical hours/week.