

GURU JAMBHESHWAR UNIVERSITY OF SC. & TECHNOLOGY, HISAR

SCHEME OF STUDIES AND EXAMINATION

B. TECH. 2ND YEAR (3RD SEMESTER) ELECTRICAL ENGINEERING

Course No.	Course Title	Teaching Schedule				Internal	External		Total	Credit
		L	T	P	Total		Theory	Practical		
HUM-201E	Economics	3	1	-	4	30	70	-	100	3.5
ET-201-E	Transmission and Distribution	3	0	-	3	30	70	-	100	3
ET-203-E	Network Analysis & Synthesis	3	1	-	4	30	70	-	100	3.5
ET-205-E	Analog Electronics	3	0	-	3	30	70	-	100	3
ET-207-E	Electrical Machines-I	3	1	-	4	30	70	-	100	3.5
ET-209-E	Electrical Measurements & Measuring Instruments	3	1	-	4	30	70	-	100	3.5
ET-211-E	Electrical Measurements & Measuring Instruments lab.	-	-	2	2	30	-	70	100	1
ET-213E	Analog Electronics Lab.	-	-	2	2	30	-	70	100	1
ET-215-E	Electric Machines-I lab.	-	-	2	2	30	-	70	100	1
ET-217-E	Network Analysis & Synthesis Lab.	-	-	2	2	30	-	70	100	1
ET-219-E	Electrical Workshop	-	-	2	2	30	-	70	100	1
UCC-581	Environmental Studies	4	-	1	5	30	-	70	100	-
	TOTAL	22	5	10	37	360	490	350	1200	25

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B. TECH. 2ND YEAR (4th SEMESTER) ELECTRICAL ENGINEERING

Course No.	Course Title	Teaching Schedule				Internal	External		Total	Credit
		L	T	P	Total		Theory	Practical		
MATH-201E	Mathematics-III	3	2	-	5	30	70	-	100	4
HUM-201E	Fundamental of Management	3	1	-	4	30	70	-	100	3.5
ET-202-E	Power generation & Control	3	1	-	4	30	70	-	100	3.5
ET-204-E	Digital Electronics	3	0	-	3	30	70	-	100	3
ET-206-E	Communication Systems	3	0	-	3	30	70	-	100	3
ET-208-E	Signal & System	3	1	-	4	30	70	-	100	3.5
ET-210-E	Electrical Machine –II	3	1	-	4	30	70	-	100	3.5
ET-212-E	Power System Lab. – I	-	-	2	2	30	-	70	100	1
ET-214-E	Electrical Machine Lab –II	-	-	2	2	30	-	70	100	1
ET-218-E	Digital Electronics Lab	-	-	2	2	30	-	70	100	1
ET-220-E	Communication Systems Lab	-	-	2	2	30	-	70	100	1
	TOTAL	18	6	8	35	330	490	280	1100	28

Note : Practical Training of 6 weeks duration during summer vacation, evaluation in V Sem.

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B. TECH. 3RD YEAR (5TH SEMESTER) ELECTRICAL ENGINEERING (2012-13)

Course No.	Course Title	Teaching Schedule				Examination schedule			Total Marks	Credit
		L	T	P/D	Total	External	Internal	Practical Viva		
ET-301-E	FIELDS & WAVES	3	1	-	4	70	30	-	100	3.5
ET-303-E	CONTROL SYSTEM	3	1	-	4	70	30	-	100	3.5
ET-305-E	POWER ELECTRONICS-I	3	1	-	4	70	30	-	100	3.5
ET-307-E	ANALOG ELECTRONIC CIRCUITS	3	1	-	4	70	30	-	100	3.5
ET-309-E	ELETRONIC MEASUREMENT& INSTRUMENTS	3	1	-	4	70	30	-	100	3.5
ET-321E	MICROPROCESSORS & INTERFACING	3	1	-	4	70	30	-	100	3.5
ET-311-E	CONTROL SYSTEM LAB	-	-	2	2	-	30	70	100	1
ET-313-E	MICROPROCESSORS APPLICATION LAB	-	-	2	2	-	30	70	100	1
ET-315E	ELECTRONICS MEASUREMENTS & INSTRUMENTS LAB.	-	-	2	2	-	30	70	100	1
ET-317-E	POWER ELECTRONICS-I LAB	-	-	2	2	-	30	70	100	1
ET-319-E	INDUSTRIAL TRAINING REPORT	-	-	-	-	-	100	-	100	1
	TOTAL	18	6	8	32	420	400	280	1100	26

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SCHEME OF STUDIES AND EXAMINATION
B. TECH. 3RD YEAR (6TH SEMESTER) ELECTRICAL ENGINEERING (2012-13)

Course No.	Course Title	Teaching Schedule				Examination schedule			Total Marks	Credit
		L	T	P/D	Total	External	Internal	Practical Viva		
ET-302-E	POWER SYSTEM ANALYSIS & PROTECTION	3	1	-	4	70	30	-	100	3.5
ET-304-E	MICROCONTROLLERS & APPLICATIONS	3	1	-	4	70	30	-	100	3.5
ET-306-E	DIGITAL SIGNAL PROCESSING	3	1	-	4	70	30	-	100	3.5
ET-308-E	POWER ELECTRONICS –II	3	1	-	4	70	30	-	100	3.5
ET-310-E	ELECTRIC DRIVES & TRACTION	3	1	-	4	70	30	-	100	3.5
ET-312-E	ADVANCED PROGRAMMING	3	1	-	4	70	30	-	100	3.5
ET-314-E	ADVANCED PROGRAMMING LAB.	-	-	2	2	-	30	70	100	1
ET-316-E	MICROCONTROLLERS APPLICATIONS LAB.	-	-	2	2	-	30	70	100	1
ET-318-E	POWER ELECTRONICS –II LAB	-	-	2	2	-	30	70	100	1
ET-320-E	ELECTRIC DRIVES LAB.	-	-	2	2	-	30	70	100	1
	TOTAL	18	6	8	32	420	300	280	1000	25

Note : - Students shall devote 8 weeks to industrial training after sixth semester exam outside the college campus at approved works.

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B. TECH. 4TH YEAR (7TH SEMESTER) ELECTRICAL ENGINEERING (2012-13)

Course No.	Course Title	Teaching Schedule				Examination schedule			Total Marks	Credit
		L	T	P/D	Total	External	Internal	Practical Viva		
ET-401E	ELECTRICAL MACHINE DESIGN	3	1	-	4	70	30	-	100	3.5
ET-403E	HIGH VOLTAGE ENGG.	3	1	-	4	70	30	-	100	3.5
ET-405E	DISCRETE DATA NON LINEAR CONTROL SYSTEM.	3	1	-	4	70	30	-	100	3.5
ET-419E	TRANSDUCER & THEIR APPLICATIONS	3	1	-	4	70	30	-	100	3.5
	DEPTT. ELECTIVE	3	1	-	4	70	30	-	100	3.5
ET-421E	TRANSDUCER & THEIR APPLICATION LAB.	-	-	2	2	-	30	70	100	1
ET-423E	POWER SYSTEM LAB.	-	-	2	2	-	30	70	100	1
ET-425E	CIRCUIT SIMULATION LAB.	-	-	2	2	-	30	70	100	1
ET-427E	MINOR PROJECT	-	-	2	2	-	30	70	100	1
ET-429E	MAJOR PROJECT	-	-	1	1	-	-	-	-	-
ET-431E	SUMMER TRAINING REPORT	-	-	-	-	-	100	-	100	1
	TOTAL	15	5	9	29	350	370	280	1000	22.5

- List of Electives of B.Tech. 7th semester –**
- 1. ET-407E- Non Conventional Sources of Energy & Management**
 - 2. ET-409E- Fuzzy Logic & Neural Networks**

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B. TECH. 4TH YEAR (8TH SEMESTER) ELECTRICAL ENGINEERING (2012-13)

Course No.	Course Title	Teaching Schedule				Examination schedule			Total Marks	Credit
		L	T	P/D	Total	External	Internal	Practical Viva		
ET-402E	COMPUTER METHODS IN POWER SYSTEM	3	1	-	4	70	30	-	100	3.5
ET-404E	ELECTRICAL ENGG. MATERIAL & PROCESSES	3	0	-	3	70	30	-	100	3.0
ET-406E	OPERATION RESEARCH	3	1	-	4	70	30	-	100	3.5
	DEPTT. ELECTIVE-I	4	0	-	4	70	30	-	100	4
	DEPTT. ELECTIVE-II	4	0	-	4	70	30	-	100	4
	DEPTT. ELECTIVE- II LAB.	-	-	2	2	-	30	70	100	1
ET-424E	COMPUTER METHODS IN POWER SYSTEM LAB.	-	-	2	2	-	30	70	100	1
ET-426E	SEMINAR	-	-	1	1	-	30	70	100	0.5
ET-428E	MAJOR PROJECT	-	-	2	2	-	30	70	100	1
ET-432E	GENERAL FITNESS & PROFESSIONAL APTITUDE	-	-	-	-	-	-	100	100	1
	TOTAL	15	4	11	30	321	270	380	1000	22.5

List of Electives-I of B.Tech. 8th semester –

1. **ET-408E- Special Electrical Machines**
2. **EE-412E- Power System Planning**

List of Elective-II of B.Tech. 8th semester-

1. **ET- 416E Internet Fundamentals**
2. **ET-418E – Internet Fundamentals lab.**
3. **ET- 420E- Microware & Radar Engg.**
4. **ET- 422E -Microware lab.**