SOET — **B.Tech (EEE)-YEAR 2018-2022 (SCHEME OF STUDIES)**

YEAR		ODD SEMESTER								EVEN SEMESTER							
	SNo		COURSE	COURSE TITLE	L	T	P	C		SNo		COURSE	COURSE TITLE	L	T	P	C
FIRST	1	SE	ETMA105	APPLIED MATHEMATICS-I	3	1	0	4		1	SE	ETMA104	APPLIED MATHEMATICS-II	3	1	0	4
	2	SE	ETPH109	ENGINEERING PHYSICS	3	1	0	4		2	SE	ETEC101	BASICS OF ELECTRICAL & ELECTRONICS	3	1	0	4
	3	SE	ETCH125	ENVIRONMENTAL STUDIES	3	0	0	3		3	SE	ETCS112	OBJECT ORIENTED PROGRAMMING	3	1	0	4
	4	SE	ETCS103	PROGRAMMING FOR PROBLEM SOLVING	3	1	0	4		4	SE	ETEL101	COMMUNICATION SKILLS	4	0	0	4
	5	SE	ETME101	BASICS OF MECHANICAL ENGINEERING	3	1	0	4		5	OE		OPEN ELECTIVE - II				4
	6	OE		OPEN ELECTIVE-I				4		6	SE	ETME155	ENGINEERING GRAPHICS LAB	0	0	3	1.5
	7	SE	ETPH151	ENGINEERING PHYSICS LAB	0	0	2	1		7	SE	ETEC151	BASICS OF ELECTRICAL & ELECTRONICS	0	0	2	1
	8	SE	ETCS153	PROGRAMMING FOR PROBLEM SOLVING LAB	0	0	2	1		8	SE	ETCS166	OBJECT ORIENTED PROGRAMMING LAB	0	0	2	1
	9	SE	ETME151	BASICS OF MECHANICAL ENGINEERING LAB	0	0	2	1		9	SE	ETEL171	COMMUNICATION SKILLS LAB	0	0	2	1
										10	SE	ETME157	WORKSHOP PRACTICE	0	0	3	1.5
			TOTAL		**15**	**4**	**6**	**26**				**TOTAL**		**13**	**3**	**12**	**26**
SECOND	1	SE	ETMA201	APPLIED MATHEMATICS-III	3	1	0	4		1	CC	ETEC202	SIGNALS & SYSTEMS	3	1	0	4
	2	SE	ETDM301	DISASTER MANAGEMENT	3	0	0	3		2	CC	ETEC216	ADVANCE ANALOG ELECTRONICS	3	1	0	4
	3	CC	ETEC233	ANALOG ELECTRONICS	3	1	0	4		3	CC	ETEE315	POWER SYSTEM-I	3	1	0	4
	4	CC	ETEC207	CIRCUITS & SYSTEMS	3	1	0	4		4	CC	ETEE206	ELECTRICAL MACHINES	3	1	0	4
	5	CC	ETEC210	DIGITAL ELECTRONICS	3	1	0	4		5	CC	ETEC204	ELECTROMAGNETIC FIELDS THEORY	3	1	0	4
	6	CC	ETEE201	ELECTROMECHANICAL ENERGY CONVERSION	3	1	0	4		6	SE	ETMC226	FUNDAMENTALS OF MANAGEMENT	3	0	0	3
	7	SE	ETEC263	ANALOG ELECTRONICS LAB	0	0	2	1		7	SE	ETEC264	ADVANCE ANALOG ELECTRONICS LAB	0	0	2	1
	8	SE	ETEC253	CIRCUITS & SYSTEMS LAB	0	0	2	1		8	SE	ETEE256	ELECTRICAL MACHINES LAB	0	0	2	1
	9	SE	ETEC256	DIGITAL ELECTRONICS LAB	0	0	2	1		9	SE	ETEC252	MATLAB PROJECT LAB	0	0	2	1
	10	SE	ETEE251	ELECTROMECHANICAL ENERGY CONVERSION LAB	0	0	2	1									
			TOTAL		**18**	**5**	**8**	**27**				**TOTAL**		**18**	**5**	**6**	**26**

NOTE: PRACTICAL TRAINING WILL BE FOUR WEEKS DURATION AT THE END OF FOURTH SEMESTER DURING SUMMER BREAK AND THE EVALUATION WILL BE DONE AT THE END OF FIFTH SEMESTER.

THIRD	1	CC	ETEC311	MICROPROCESSOR SYSTEMS	3	1	0	4		1	SE	ETMC421	ENTREPRENEURSHIP DEVELOPMENT	3	0	0	3
	2	CC	ETEC308	CONTROL SYSTEM	3	1	0	4		2	CC	ETEC314	DIGITAL SIGNAL PROCESSING	3	1	0	4
	3	CC	ETEC305	MEASUREMENT & INSTRUMENTATION	3	0	0	3		3	CC	ETEE403	SWITCHGEAR AND PROTECTION	3	1	0	4
	4	CC	ETEE304	INDUSTRIAL ELELCTRICAL SYSTEMS	3	0	0	3		4	CC	ETEE316	POWER ELECTRONICS	3	1	0	4
	5	CC	ETEC303	ANALOG & DIGITAL COMMUNICATION	3	1	0	4		5	CC	ETEC312	IoT ARCHITECTURE AND PROTOCOLS	3	0	0	3
	6	CC	ETEE312	POWER SYSTEM-II	3	1	0	4		6	CC	ETEC401	EMBEDDED SYSTEMS	3	1	0	4
	7	SE	ETEC359	ANALOG & DIGITAL COMMUNICATION LAB	0	0	2	1		7	SE	ETEC360	DIGITAL SIGNAL PROCESSING LAB	0	0	2	1
	8	SE	ETEC353	MICROPROCESSOR SYSTEMS LAB	0	0	2	1		8	SE	ETEC451	EMBEDDED SYSTEMS LAB	0	0	2	1
	9	SE	ETEC355	MEASUREMENT & INSTRUMENTATION LAB	0	0	2	1		9	SE	ETEE364	POWER ELECTRONICS LAB	0	0	2	1
	10	SE	ETEC358	CONTROL SYSTEM LAB	0	0	2	1		10	SE	ETEC356	ELECTRONICS PROJECT DESIGN LAB	0	0	2	1
	11	SE	ETEE351	PRACTICAL TRAINING-I	0	0	2	1		11	SE	ETEE362	POWER SYSTEM LAB	0	0	2	1
	12	SE		VALUE ADDED COURSE	2	0	0	0									
			TOTAL		**20**	**4**	**10**	**27**				**TOTAL**		**18**	**4**	**10**	**27**

NOTE: PRACTICAL TRAINING WILL BE FOUR WEEKS DURATION AT THE END OF SIXTH SEMESTER DURING SUMMER BREAK AND THE EVALUATION WILL BE DONE AT THE END OF SEVENTH SEMESTER.

FOURTH	1	CC	ETEE401	RENEWABLE ENERGY SYSTEM	3	1	0	4		1	CC	ETEE422	SMART ELECTRIC GRID	3	1	0	4
	2	CC	ETEC405	ARTIFICIAL INTELLIGENCE	3	1	0	4		2	CC	ETEE425	ELECTRIC & HYBRID VEHICLES	3	1	0	4
	3	DE		DEPARTMENTAL ELECTIVE	3	0	0	3		3	DE		DEPARTMENTAL ELECTIVE	3	0	0	3
		CC	ETEE404	ELECTRIC DRIVES	3	1	0	4		4	SE	ETEE460	MAJOR PROJECT	0	0	12	6
	4	SE	ETEE452	POWER SYSTEMS SIMULATION LAB	0	0	2	1									
	5	SE	ETEE457	MINOR PROJECT	0	0	4	2									
	6	SE	ETEE463	PRACTICAL TRAINING-II	0	0	2	1									
	7	SE	ETEC455	ARTIFICIAL INTELLIGENCE LAB	0	0	2	1									
			TOTAL		**12**	**3**	**10**	**20**				**TOTAL**		**9**	**2**	**12**	**17**

DEPARTMENTAL ELECTIVE

1		ETEC412	BIO MEDICAL ELECTRONICS	3	0	0	3		9		ETEE408	ELECTRIC TRACTION	3	0	0	3
2		ETEC402	ROBOTICS	3	0	0	3		10		ETEE410	SWITCHED MODE POWER CONVERTERS	3	0	0	3
3		ETEC410	SATELLITE COMMUNICATION	3	0	0	3		11		ETEE413	DESIGN OF ELECTRICAL SYSTEMS	3	0	0	3
4		ETEC413	RADAR & SONAR ENGINEERING	3	0	0	3		12		ETEE414	HIGH VOLTAGE ENEGINEERING	3	0	0	3
5		ETEC414	INTRODUCTION TO NANO TECHNOLOGY	3	0	0	3		13		ETEE415	COMPUTER METHODS IN POWER SYSTEM	3	0	0	3
6		ETEC425	DATA COMMUNICATION NETWORKS	3	0	0	3		14		ETEE418	POWER QUALITY	3	0	0	3
7		ETEC430	FUZZY LOGIC AND SYSTEMS	3	0	0	3		15		ETEE421	POWER SYSTEM OPERATION AND CONTROL	3	0	0	3
8		ETEE407	HVDC AND FLEXIBLE AC TRANSMISSION	3	0	0	3		16		ETEE423	PLC AND SCADA	3	0	0	3

TOTAL CREDITS [C]	**196**

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K.R. Mangalam University
Sohna Road, Gurugram, (Haryana)

SOET		B.Tech (EEE): 2019-2023 (Scheme of Studies as per Choice-Based Credit System)															
YEAR	ODD SEMESTER									EVEN SEMESTER							
	SNo		COURSE	COURSE TITLE	L	T	P	C		SNo		COURSE	COURSE TITLE	L	T	P	C
FIRST	1	SE	ETMA105A	APPLIED MATHEMATICS-I	3	1	0	4		1	SE	ETMA104A	APPLIED MATHEMATICS-II	3	1	0	4
	2	SE	ETPH109A	ENGINEERING PHYSICS	3	1	0	4		2	SE	ETEC101A	BASICS OF ELECTRICAL & ELECTRONICS	3	1	0	4
	3	SE	ETCH125A	ENVIRONMENTAL STUDIES	3	0	0	3		3	SE	ETCS112A	OBJECT ORIENTED PROGRAMMING	3	1	0	4
	4	SE	ETCS103A	PROGRAMMING FOR PROBLEM SOLVING	3	1	0	4		4	SE	ETEL101A	COMMUNICATION SKILLS	4	0	0	4
	5	SE	ETME101A	BASICS OF MECHANICAL ENGINEERING	3	1	0	4		5	OE		OPEN ELECTIVE - II				4
	6	OE		OPEN ELECTIVE-I				4		6	SE	ETME155A	ENGINEERING GRAPHICS LAB	0	0	3	1.5
	7	SE	ETPH151A	ENGINEERING PHYSICS LAB	0	0	2	1		7	SE	ETEC151A	BASICS OF ELECTRICAL & ELECTRONICS	0	0	2	1
	8	SE	ETCS153A	PROGRAMMING FOR PROBLEM SOLVING LAB	0	0	2	1		8	SE	ETCS166A	OBJECT ORIENTED PROGRAMMING LAB	0	0	2	1
	9	SE	ETME151A	BASICS OF MECHANICAL ENGINEERING LAB	0	0	2	1		9	SE	ETEL171A	COMMUNICATION SKILLS LAB	0	0	2	1
										10	SE	ETME157A	WORKSHOP PRACTICE	0	0	3	1.5
			TOTAL		15	4	6	26				TOTAL		13	3	12	26
SECOND	1	SE	ETMA201A	APPLIED MATHEMATICS-III	3	1	0	4		1	CC	ETEC202A	SIGNALS & SYSTEMS	3	1	0	4
	2	SE	ETDM301A	DISASTER MANAGEMENT	3	0	0	3		2	CC	ETEC216A	ADVANCE ANALOG ELECTRONICS	3	1	0	4
	3	CC	ETEC233A	ANALOG ELECTRONICS	3	1	0	4		3	CC	ETEE315A	POWER SYSTEM-I	3	1	0	4
	4	CC	ETEC207A	CIRCUITS & SYSTEMS	3	1	0	4		4	CC	ETEE206A	ELECTRICAL MACHINES	3	1	0	4
	5	CC	ETEC210A	DIGITAL ELECTRONICS	3	1	0	4		5	CC	ETEC204A	ELECTROMAGNETIC FIELDS THEORY	3	1	0	4
	6	CC	ETEE201A	ELECTROMECHANICAL ENERGY CONVERSION	3	1	0	4		6	SE	ETMC226A	FUNDAMENTALS OF MANAGEMENT	3	0	0	3
	7	SE	ETEC263A	ANALOG ELECTRONICS LAB	0	0	2	1		7	SE	ETEC264A	ADVANCE ANALOG ELECTRONICS LAB	0	0	2	1
	8	SE	ETEC253A	CIRCUITS & SYSTEMS LAB	0	0	2	1		8	SE	ETEE256A	ELECTRICAL MACHINES LAB	0	0	2	1
	9	SE	ETEC256A	DIGITAL ELECTRONICS LAB	0	0	2	1		9	SE	ETEC252A	MATLAB PROJECT LAB	0	0	2	1
	10	SE	ETEE251A	ELECTROMECHANICAL ENERGY CONVERSION	0	0	2	1									
			TOTAL		18	5	8	27				TOTAL		18	5	6	26
NOTE: PRACTICAL TRAINING WILL BE FOUR WEEKS DURATION AT THE END OF FOURTH SEMESTER DURING SUMMER BREAK AND THE EVALUATION WILL BE DONE AT THE END OF FIFTH SEMESTER.																	
THIRD	1	CC	ETEC311A	MICROPROCESSOR SYSTEMS	3	1	0	4		1	SE	ETMC421A	ENTREPRENEURSHIP DEVELOPMENT	3	0	0	3
	2	CC	ETEC308A	CONTROL SYSTEM	3	1	0	4		2	CC	ETEC314A	DIGITAL SIGNAL PROCESSING	3	1	0	4
	3	CC	ETEC305A	MEASUREMENT & INSTRUMENTATION	3	0	0	3		3	CC	ETEE403A	SWITCHGEAR AND PROTECTION	3	1	0	4
	4	CC	ETEE304A	INDUSTRIAL ELELCTRICAL SYSTEMS	3	0	0	3		4	CC	ETEE316A	POWER ELECTRONICS	3	1	0	4
	5	CC	ETEC303A	ANALOG & DIGITAL COMMUNICATION	3	1	0	4		5	CC	ETEC312A	IoT ARCHITECTURE AND PROTOCOLS	3	0	0	3
	6	CC	ETEE312A	POWER SYSTEM-II	3	1	0	4		6	CC	ETEC401A	EMBEDDED SYSTEMS	3	1	0	4
	7	SE	ETEC359A	ANALOG & DIGITAL COMMUNICATION LAB	0	0	2	1		7	SE	ETEC360A	DIGITAL SIGNAL PROCESSING LAB	0	0	2	1
	8	SE	ETEC353A	MICROPROCESSOR SYSTEMS LAB	0	0	2	1		8	SE	ETEC451A	EMBEDDED SYSTEMS LAB	0	0	2	1
	9	SE	ETEC355A	MEASUREMENT & INSTRUMENTATION LAB	0	0	2	1		9	SE	ETEE364A	POWER ELECTRONICS LAB	0	0	2	1
	10	SE	ETEC358A	CONTROL SYSTEM LAB	0	0	2	1		10	SE	ETEC356A	ELECTRONICS PROJECT DESIGN LAB	0	0	2	1
	11	SE	ETEE351A	PRACTICAL TRAINING-I	0	0	2	1		11	SE	ETEE362A	POWER SYSTEM LAB	0	0	2	1
	12	SE		VALUE ADDED COURSE	2	0	0	0									
			TOTAL		20	4	10	27				TOTAL		18	4	10	27
NOTE: PRACTICAL TRAINING WILL BE FOUR WEEKS DURATION AT THE END OF SIXTH SEMESTER DURING SUMMER BREAK AND THE EVALUATION WILL BE DONE AT THE END OF SEVENTH SEMESTER.																	
FOURTH	1	CC	ETEE401A	RENEWABLE ENERGY SYSTEM	3	1	0	4		1	CC	ETEE422A	SMART ELECTRIC GRID	3	1	0	4
	2	CC	ETEC405A	ARTIFICIAL INTELLIGENCE	3	1	0	4		2	CC	ETEE425A	ELECTRIC & HYBRID VEHICLES	3	1	0	4
	3	DE		DEPARTMENTAL ELECTIVE	3	0	0	3		3	DE		DEPARTMENTAL ELECTIVE	3	0	0	3
		CC	ETEE404A	ELECTRIC DRIVES	3	1	0	4		4	SE	ETEE460A	MAJOR PROJECT	0	0	12	6
	4	SE	ETEE452A	POWER SYSTEMS SIMULATION LAB	0	0	2	1									
	5	SE	ETEE457A	MINOR PROJECT	0	0	4	2									
	6	SE	ETEE463A	PRACTICAL TRAINING-II	0	0	2	1									
	7	SE	ETEC455A	ARTIFICIAL INTELLIGENCE LAB	0	0	2	1									
			TOTAL		12	3	10	20				TOTAL		9	2	12	17

DEPARTMENTAL ELECTIVE														
1		ETEC412A	BIO MEDICAL ELECTRONICS	3	0	0	3	9		ETEE408A	ELECTRIC TRACTION	3	0	0	3
2		ETEC402A	ROBOTICS	3	0	0	3	10		ETEE410A	SWITCHED MODE POWER CONVERTERS	3	0	0	3
3		ETEC410A	SATELLITE COMMUNICATION	3	0	0	3	11		ETEE413A	DESIGN OF ELECTRICAL SYSTEMS	3	0	0	3
4		ETEC413A	RADAR & SONAR ENGINEERING	3	0	0	3	12		ETEE414A	HIGH VOLTAGE ENEGINEERING	3	0	0	3
5		ETEC414A	INTRODUCTION TO NANO TECHNOLOGY	3	0	0	3	13		ETEE415A	COMPUTER METHODS IN POWER SYSTEM	3	0	0	3
6		ETEC425A	DATA COMMUNICATION NETWORKS	3	0	0	3	14		ETEE418A	POWER QUALITY	3	0	0	3
7		ETEC430A	FUZZY LOGIC AND SYSTEMS	3	0	0	3	15		ETEE421A	POWER SYSTEM OPERATION AND CONTROL	3	0	0	3
8		ETEE407A	HVDC AND FLEXIBLE AC TRANSMISSION	3	0	0	3	16		ETEE423A	PLC AND SCADA	3	0	0	3

TOTAL CREDITS [C]	196

Registrar
K.R. Mangalam University
Sohna Road, Gurugram, (Haryana)

ETEE460	MAJOR PROJECT	L	T	P	C
		0	0	0	6

COURSE OBJECTIVES:

The undergraduate student in last semester is ready to apply and integrate the knowledge of variety of subjects which he/she had been taught in previous semesters.

EXPECTED OUTCOME:

- The major-project is a team activity having 1-4 students in a team. This is simulation based/electronic product design work with a focusing on electrical & electronic circuit.
- The major project may be a complete hardware or a combination of hardware and software. This part is the extension of minor project
- Major Project should design a system required in real life.
- It should encompass components, devices, analog or digital ICs, micro controller with which functional familiarity is introduced.
- After interactions with coordinator/supervisors and based on comprehensive literature survey/ need analysis, the student shall identify the title and define the aim and objectives of major project in extension with minor project.
- Students are expected to detail out specifications, methodology, resources required, critical issues involved in design and implementation and submit the proposal within first week of the semester.
- The student is expected to exert on design, development and testing of the proposed work as per the schedule.
- Completed major project and documentation in the form of major project report is to be submitted at the end of semester.
- Students are expected to prepare Major project on topics of general importance using new software and presentation tools. Students will also prepare a project report along with implementation and present it for the final evaluation.

Registrar
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K.R. Mangalam University
Sohna road, Gurugram
Haryana 122103

Verified by Dean-SOET

ETEE460	MAJOR PROJECT	L	T	P	C
		0	0	0	6

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ETEE460	MAJOR PROJECT	L	T	P	C
		0	0	0	6

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ETEE460	MAJOR PROJECT	L	T	P	C
		0	0	0	6

COURSE OBJECTIVES:

The undergraduate student in last semester is ready to apply and integrate the knowledge of variety of subjects which he/she had been taught in previous semesters.

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Haryana 122103

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ETEE460A	MAJOR PROJECT	L	T	P	C
		0	0	12	6

COURSE OVERVIEW

The student will submit a synopsis at the beginning of the semester for approval from the departmental committee in a specified format. The student will have to present the progress of the work through seminars and progress reports.

COURSE OBJECTIVE

The objective of Project Work II & Dissertation is to enable the student to extend further the investigative study taken up under EC P1, either fully theoretical/practical or involving both theoretical and practical work, under the guidance of a Supervisor from the Department alone or jointly with a Supervisor drawn from R&D laboratory/Industry. This is expected to provide a good training for the student(s) in R&D work and technical leadership.

COURSE OUTCOMES

- In depth study of the topic assigned in the light of the Report prepared under minor project.
- Review and finalization of the Approach to the Problem relating to the assigned topic;
- Preparing an Action Plan for conducting the investigation, including team work;
- Detailed Analysis/Modelling/Simulation/Design/Problem Solving/Experiment as needed;
- Final development of product/process, testing, results, conclusions and future directions;
- Preparing a paper for Conference presentation/Publication in Journals, if possible;
- Preparing a Dissertation in the standard format for being evaluated by the Department.
- Final Seminar Presentation before a Departmental Committee.

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