

SOET		B.Tech (EEE)-YEAR 2018-2022 (SCHEME OF STUDIES)											
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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	EETEC101	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	EETEC151	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	EETEC202	SIGNALS & SYSTEMS	3	1	0	4
	2	SE	ETDM301	DISASTER MANAGEMENT	3	0	0	3	2	CC	EETEC216	ADVANCE ANALOG ELECTRONICS	3	1	0	4
	3	CC	EETEC233	ANALOG ELECTRONICS	3	1	0	4	3	CC	EETEE315	POWER SYSTEM-I	3	1	0	4
	4	CC	EETEC207	CIRCUITS & SYSTEMS	3	1	0	4	4	CC	EETEE206	ELECTRICAL MACHINES	3	1	0	4
	5	CC	EETEC210	DIGITAL ELECTRONICS	3	1	0	4	5	CC	EETEC204	ELECTROMAGNETIC FIELDS THEORY	3	1	0	4
	6	CC	EETEE201	ELECTROMECHANICAL ENERGY CONVERSION	3	1	0	4	6	SE	ETMC226	FUNDAMENTALS OF MANAGEMENT	3	0	0	3
	7	SE	EETEC263	ANALOG ELECTRONICS LAB	0	0	2	1	7	SE	EETEC264	ADVANCE ANALOG ELECTRONICS LAB	0	0	2	1
	8	SE	EETEC253	CIRCUITS & SYSTEMS LAB	0	0	2	1	8	SE	EETEE256	ELECTRICAL MACHINES LAB	0	0	2	1
	9	SE	EETEC256	DIGITAL ELECTRONICS LAB	0	0	2	1	9	SE	EETEC252	MATLAB PROJECT LAB	0	0	2	1
	10	SE	EETEE251	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	EETEC311	MICROPROCESSOR SYSTEMS	3	1	0	4	1	SE	ETMC421	ENTREPRENEURSHIP DEVELOPMENT	3	0	0	3
	2	CC	EETEC308	CONTROL SYSTEM	3	1	0	4	2	CC	EETEC314	DIGITAL SIGNAL PROCESSING	3	1	0	4
	3	CC	EETEC305	MEASUREMENT & INSTRUMENTATION	3	0	0	3	3	CC	EETEE403	SWITCHGEAR AND PROTECTION	3	1	0	4
	4	CC	EETEE304	INDUSTRIAL ELELCTRICAL SYSTEMS	3	0	0	3	4	CC	EETEE316	POWER ELECTRONICS	3	1	0	4
	5	CC	EETEC303	ANALOG & DIGITAL COMMUNICATION	3	1	0	4	5	CC	EETEC312	IoT ARCHITECTURE AND PROTOCOLS	3	0	0	3
	6	CC	EETEE312	POWER SYSTEM-II	3	1	0	4	6	CC	EETEC401	EMBEDDED SYSTEMS	3	1	0	4
	7	SE	EETEC359	ANALOG & DIGITAL COMMUNICATION LAB	0	0	2	1	7	SE	EETEC360	DIGITAL SIGNAL PROCESSING LAB	0	0	2	1
	8	SE	EETEC353	MICROPROCESSOR SYSTEMS LAB	0	0	2	1	8	SE	EETEC451	EMBEDDED SYSTEMS LAB	0	0	2	1
	9	SE	EETEC355	MEASUREMENT & INSTRUMENTATION LAB	0	0	2	1	9	SE	EETEE364	POWER ELECTRONICS LAB	0	0	2	1
	10	SE	EETEC358	CONTROL SYSTEM LAB	0	0	2	1	10	SE	EETEC356	ELECTRONICS PROJECT DESIGN LAB	0	0	2	1
	11	SE	EETEE351	PRACTICAL TRAINING-I	0	0	2	1	11	SE	EETEE362	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	EETEE401	RENEWABLE ENERGY SYSTEM	3	1	0	4	1	CC	EETEE422	SMART ELECTRIC GRID	3	1	0	4
	2	CC	EETEC405	ARTIFICIAL INTELLIGENCE	3	1	0	4	2	CC	EETEE425	ELECTRIC & HYBRID VEHICLES	3	1	0	4
	3	DE		DEPARTMENTAL ELECTIVE	3	0	0	3	3	DE		DEPARTMENTAL ELECTIVE	3	0	0	3
	4	CC	EETEE404	ELECTRIC DRIVES	3	1	0	4	4	SE	EETEE460	MAJOR PROJECT	0	0	12	6
	4	SE	EETEE452	POWER SYSTEMS SIMULATION LAB	0	0	2	1								
	5	SE	EETEE457	MINOR PROJECT	0	0	4	2								
	6	SE	EETEE463	PRACTICAL TRAINING-II	0	0	2	1								
7	SE	EETEC455	ARTIFICIAL INTELLIGENCE LAB	0	0	2	1									
TOTAL				12	3	10	20	TOTAL				9	2	12	17	

DEPARTMENTAL ELECTIVE															
1	EETEC412	BIO MEDICAL ELECTRONICS	3	0	0	3	9	EETEE408	ELECTRIC TRACTION	3	0	0	3		
2	EETEC402	ROBOTICS	3	0	0	3	10	EETEE410	SWITCHED MODE POWER CONVERTERS	3	0	0	3		
3	EETEC410	SATELLITE COMMUNICATION	3	0	0	3	11	EETEE413	DESIGN OF ELECTRICAL SYSTEMS	3	0	0	3		
4	EETEC413	RADAR & SONAR ENGINEERING	3	0	0	3	12	EETEE414	HIGH VOLTAGE ENENGINEERING	3	0	0	3		
5	EETEC414	INTRODUCTION TO NANO TECHNOLOGY	3	0	0	3	13	EETEE415	COMPUTER METHODS IN POWER SYSTEM	3	0	0	3		
6	EETEC425	DATA COMMUNICATION NETWORKS	3	0	0	3	14	EETEE418	POWER QUALITY	3	0	0	3		
7	EETEC430	FUZZY LOGIC AND SYSTEMS	3	0	0	3	15	EETEE421	POWER SYSTEM OPERATION AND CONTROL	3	0	0	3		
8	EETEE407	HVDC AND FLEXIBLE AC TRANSMISSION	3	0	0	3	16	EETEE423	PLC AND SCADA	3	0	0	3		

TOTAL CREDITS [C]	196
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 Registrar
 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																	
	SN _o	COURSE	COURSE TITLE	L	T	P	C	SN _o	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	EETEC101A	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	EETEL101A	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	EETEC151A	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	EETEL171A	COMMUNICATION SKILLS LAB	0	0	2	1												
									10	SE	ETME157A	WORKSHOP PRACTICE	0	0	3	1.5												
			TOTAL				15									13			3			12			26			
SECOND	1	SE	ETMA201A	APPLIED MATHEMATICS-III	3	1	0	4	1	CC	EETEC202A	SIGNALS & SYSTEMS	3	1	0	4												
	2	SE	ETDM301A	DISASTER MANAGEMENT	3	0	0	3	2	CC	EETEC216A	ADVANCE ANALOG ELECTRONICS	3	1	0	4												
	3	CC	EETEC233A	ANALOG ELECTRONICS	3	1	0	4	3	CC	EETEE315A	POWER SYSTEM-I	3	1	0	4												
	4	CC	EETEC207A	CIRCUITS & SYSTEMS	3	1	0	4	4	CC	EETEC206A	ELECTRICAL MACHINES	3	1	0	4												
	5	CC	EETEC210A	DIGITAL ELECTRONICS	3	1	0	4	5	CC	EETEC204A	ELECTROMAGNETIC FIELDS THEORY	3	1	0	4												
	6	CC	EETEE201A	ELECTROMECHANICAL ENERGY CONVERSION	3	1	0	4	6	SE	ETMC226A	FUNDAMENTALS OF MANAGEMENT	3	0	0	3												
	7	SE	EETEC263A	ANALOG ELECTRONICS LAB	0	0	2	1	7	SE	EETEC264A	ADVANCE ANALOG ELECTRONICS LAB	0	0	2	1												
	8	SE	EETEC253A	CIRCUITS & SYSTEMS LAB	0	0	2	1	8	SE	EETEE256A	ELECTRICAL MACHINES LAB	0	0	2	1												
	9	SE	EETEC256A	DIGITAL ELECTRONICS LAB	0	0	2	1	9	SE	EETEC252A	MATLAB PROJECT LAB	0	0	2	1												
	10	SE	EETEE251A	ELECTROMECHANICAL ENERGY CONVERSION	0	0	2	1																				
				TOTAL				18													18			5			6	27
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	EETEC311A	MICROPROCESSOR SYSTEMS	3	1	0	4	1	SE	ETMC421A	ENTREPRENEURSHIP DEVELOPMENT	3	0	0	3												
	2	CC	EETEC308A	CONTROL SYSTEM	3	1	0	4	2	CC	EETEC314A	DIGITAL SIGNAL PROCESSING	3	1	0	4												
	3	CC	EETEC305A	MEASUREMENT & INSTRUMENTATION	3	0	0	3	3	CC	EETEE403A	SWITCHGEAR AND PROTECTION	3	1	0	4												
	4	CC	EETEE304A	INDUSTRIAL ELECTRICAL SYSTEMS	3	0	0	3	4	CC	EETEE316A	POWER ELECTRONICS	3	1	0	4												
	5	CC	EETEC303A	ANALOG & DIGITAL COMMUNICATION	3	1	0	4	5	CC	EETEC312A	IoT ARCHITECTURE AND PROTOCOLS	3	0	0	3												
	6	CC	EETEE312A	POWER SYSTEM-II	3	1	0	4	6	CC	EETEC401A	EMBEDDED SYSTEMS	3	1	0	4												
	7	SE	EETEC359A	ANALOG & DIGITAL COMMUNICATION LAB	0	0	2	1	7	SE	EETEC360A	DIGITAL SIGNAL PROCESSING LAB	0	0	2	1												
	8	SE	EETEC353A	MICROPROCESSOR SYSTEMS LAB	0	0	2	1	8	SE	EETEC451A	EMBEDDED SYSTEMS LAB	0	0	2	1												
	9	SE	EETEC355A	MEASUREMENT & INSTRUMENTATION LAB	0	0	2	1	9	SE	EETEE364A	POWER ELECTRONICS LAB	0	0	2	1												
	10	SE	EETEC358A	CONTROL SYSTEM LAB	0	0	2	1	10	SE	EETEC356A	ELECTRONICS PROJECT DESIGN LAB	0	0	2	1												
	11	SE	EETEE351A	PRACTICAL TRAINING-I	0	0	2	1	11	SE	EETEE362A	POWER SYSTEM LAB	0	0	2	1												
	12	SE		VALUE ADDED COURSE	2	0	0	0																				
				TOTAL				20													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	EETEE401A	RENEWABLE ENERGY SYSTEM	3	1	0	4	1	CC	EETEE422A	SMART ELECTRIC GRID	3	1	0	4												
	2	CC	EETEC405A	ARTIFICIAL INTELLIGENCE	3	1	0	4	2	CC	EETEE425A	ELECTRIC & HYBRID VEHICLES	3	1	0	4												
	3	DE		DEPARTMENTAL ELECTIVE	3	0	0	3	3	DE		DEPARTMENTAL ELECTIVE	3	0	0	3												
		CC	EETEE404A	ELECTRIC DRIVES	3	1	0	4	4	SE	EETEE460A	MAJOR PROJECT	0	0	12	6												
	4	SE	EETEE452A	POWER SYSTEMS SIMULATION LAB	0	0	2	1																				
	5	SE	EETEE457A	MINOR PROJECT	0	0	4	2																				
	6	SE	EETEE463A	PRACTICAL TRAINING-II	0	0	2	1																				
7	SE	EETEC455A	ARTIFICIAL INTELLIGENCE LAB	0	0	2	1																					
			TOTAL				12													9			2			12	17	
DEPARTMENTAL ELECTIVE																												
1		EETEC412A	BIO MEDICAL ELECTRONICS	3	0	0	3	9		EETEE408A	ELECTRIC TRACTION	3	0	0	3													
2		EETEC402A	ROBOTICS	3	0	0	3	10		EETEE410A	SWITCHED MODE POWER CONVERTERS	3	0	0	3													
3		EETEC410A	SATELLITE COMMUNICATION	3	0	0	3	11		EETEE413A	DESIGN OF ELECTRICAL SYSTEMS	3	0	0	3													
4		EETEC413A	RADAR & SONAR ENGINEERING	3	0	0	3	12		EETEE414A	HIGH VOLTAGE ENGINEERING	3	0	0	3													
5		EETEC414A	INTRODUCTION TO NANO TECHNOLOGY	3	0	0	3	13		EETEE415A	COMPUTER METHODS IN POWER SYSTEM	3	0	0	3													
6		EETEC425A	DATA COMMUNICATION NETWORKS	3	0	0	3	14		EETEE418A	POWER QUALITY	3	0	0	3													
7		EETEC430A	FUZZY LOGIC AND SYSTEMS	3	0	0	3	15		EETEE421A	POWER SYSTEM OPERATION AND CONTROL	3	0	0	3													
8		EETEE407A	HVDC AND FLEXIBLE AC TRANSMISSION	3	0	0	3	16		EETEE423A	PLC AND SCADA	3	0	0	3													
TOTAL CREDITS [C]																							196					


Registrar
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 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.

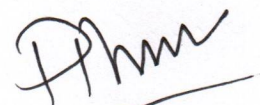
EXPECTED OUTCOME:

- 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

K.R. Mangalam University
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DEAN

School of Engineering & Technology (SOET)
K.R. Mangalam University
Sohna road, Gurugram
Haryana 122103

Verified by Dean-SOET

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.

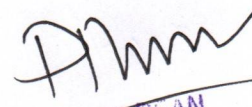
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Haryana 122103

Verified by Dean-SOET

ETEE460	MAJOR PROJECT	L	T	P	C
		0	0	0	6

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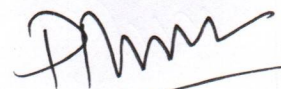
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Sohna road, Gurugram
Haryana 122103

Verified by Dean-SOET

ETEE460	MAJOR PROJECT	L	T	P	C
		0	0	0	6

COURSE OBJECTIVES:

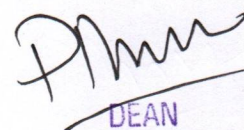
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Haryana 122103

Verified by Dean-SOET

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

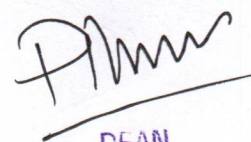
The objective of Project Work II & Dissertation is to enable the student to extend further the investigative study taken up under EC P1, either fully theoretical/practical or involving both theoretical and practical work, under the guidance of a Supervisor from the Department alone or jointly with a 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.



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



DEAN
School of Engineering & Technology (SOET)
K.R. Mangalam University
Sohna road, Gurugram
Haryana 122103

Verified by Dean-SOET

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