


SOET		B.Tech (ECE): 2018-2022 (SCHEME OF STUDIES)															
YEAR	ODD SEMESTER								EVEN SEMESTER								
	SN	COURSE CODE	COURSE TITLE	L	T	P	C	SN	COURSE CODE	COURSE TITLE	L	T	P	C			
Year	SNo	Course Code	Course Title	L	T	P	C	SNo	Course Code	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 ENGINEERING	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 ENGINEERING LAB	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	
				TOTAL				26	10	SE	ETME157	WORKSHOP PRACTICE	0	0	2	1.5	
			TOTAL				26									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	ETEC207	CIRCUITS & SYSTEMS	3	1	0	4	3	CC	ETEC301	DIGITAL CIRCUIT AND DESIGNING	3	1	0	4	
	4	CC	ETEC233	ANALOG ELECTRONICS	3	1	0	4	4	CC	ETEC309	INFORMATION THEORY AND CODING	3	0	0	3	
	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	ETEC351	DIGITAL CIRCUITS DESIGNING 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									25
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	SE	ETEC311	MICROPROCESSOR SYSTEMS	3	1	0	4	1		ETMC123	BUSINESS APPLICATION OF ECONOMICS	3	0	0	3	
	2	SE	ETEC308	CONTROL SYSTEM	3	1	0	4	2		ETEC314	DIGITAL SIGNAL PROCESSING	3	1	0	4	
	3	CC	ETEC305	MEASUREMENT & INSTRUMENTATION	3	0	0	3	3		ETEC406	WIRELESS COMMUNICATION	3	1	0	4	
	4	CC	ETEC304	ANTENNA & WAVE PROPAGATION	3	1	0	4	4		ETEC302	MICROWAVE ENGINEERING	3	1	0	4	
	5	CC	ETEC303	ANALOG & DIGITAL COMMUNICATION	3	1	0	4	5		ETEC401	EMBEDDED SYSTEMS	3	1	0	4	
	6	CC	ETEC310	LINEAR INTEGRATED CIRCUITS	3	1	0	4	6		ETEC320	IoT ARCHITECTURE AND PROTOCOLS	3	0	0	3	
	7	CC	ETEC359	ANALOG & DIGITAL COMMUNICATION LAB	0	0	2	1	7		ETEC360	DIGITAL SIGNAL PROCESSING LAB	0	0	2	1	
	8	CC	ETEC353	MICROPROCESSOR SYSTEMS LAB	0	0	2	1	8		ETEC451	EMBEDDED SYSTEMS LAB	0	0	2	1	
	9	CC	ETEC355	MEASUREMENT & INSTRUMENTATION LAB	0	0	2	1	9		ETEC352	MICROWAVE ENGINEERING LAB	0	0	2	1	
	10	CC	ETEC357	PRACTICAL TRAINING-I	0	0	2	1	10		ETEC356	ELECTRONIC DESIGN PROJECT LAB	0	0	2	1	
	11	CC	ETEC358	CONTROL SYSTEM LAB	0	0	2	1									
			TOTAL	20	5	10	28									26	
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		ETEC404	OPTICAL COMMUNICATION	3	1	0	4	1		ETEC403	DIGITAL IMAGE PROCESSING	3	1	0	4	
	2		ETEC405	ARTIFICIAL INTELLIGENCE	3	1	0	4	2		ETEC306	VLSI DESIGN	3	1	0	4	
	3			DEPARTMENTAL ELECTIVE	3	0	0	3	3			DEPARTMENTAL ELECTIVE	3	0	0	3	
	4			DEPARTMENTAL ELECTIVE	3	0	0	3	4		ETEC453	DIGITAL IMAGE PROCESSING LAB	0	0	2	1	
	5		ETEC452	OPTICAL COMMUNICATION LAB	0	0	2	1	5		ETEC460	MAJOR PROJECT	0	0	12	6	
	6		ETEC455	ARTIFICIAL INTELLIGENCE LAB	0	0	2	1									
	7		ETEC463	PRACTICAL TRAINING-II	0	0	2	1									
			ETEC457	MINOR PROJECT	0	0	4	2									
			TOTAL				19									18	
DEPARTMENTAL ELECTIVE																	
1		ETEC402	ROBOTICS	3	-	-	3	8		ETEC416	RF SIGNALS	3	-	-	3		
2		ETEC410	SATELLITE COMMUNICATION	3	-	-	3	9		ETEC418	NEURAL NETWORKS & FUZZY LOGIC	3	-	-	3		
3		ETEC411	WIRELESS SENSOR NETWORKS	3	-	-	3	10		ETEC419	MOBILE COMMUNICATION	3	-	-	3		
4		ETEC412	BIO MEDICAL ELECTRONICS	3	-	-	3	11		ETEC421	SPEECH AND AUDIO PROCESSING	3	-	-	3		
5		ETEC413	RADAR & SONAR ENGINEERING	3	-	-	3	12		ETEC423	INTELLIGENT INSTRUMENTATION	3	-	-	3		
6		ETEC414	INTRODUCTION TO NANO TECHNOLOGY	3	-	-	3	13		ETEC424	ADAPTIVE SIGNAL PROCESSING	3	-	-	3		
7		ETEC415	INTRODUCTION TO MEMS	3	-	-	3	14		ETEC425	DATA COMMUNICATION NETWORKS	3	-	-	3		
TOTAL CREDITS [C]																195	

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

SOET		B.Tech (ECE): 2019-2023 (Scheme of Studies as per Choice-Based Credit System)																	
YEAR	ODD SEMESTER								EVEN SEMESTER										
	SN	COURSE	COURSE TITLE			L	T	P	C	SN	COURSE	COURSE TITLE			L	T	P	C	
Year	SNo	Course Code	Course Title						SNo	Course Code	Course Title								
SECOND	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 ENGINEERING	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 ENGINEERING LAB	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			
				TOTAL				26				TOTAL						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	ETEC207A	CIRCUITS & SYSTEMS	3	1	0	4	3	CC	ETEC301A	DIGITAL CIRCUIT AND DESIGNING	3	1	0	4			
	4	CC	ETEC233A	ANALOG ELECTRONICS	3	1	0	4	4	CC	ETEC309A	INFORMATION THEORY AND CODING	3	0	0	3			
	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	ETEC351A	DIGITAL CIRCUITS DESIGNING 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 LAB	0	0	2	1											
			TOTAL	18	5	8	27				TOTAL	18	4	6	25				
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	ETMC123A	BUSINESS APPLICATION OF ECONOMICS	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	ETEC406A	WIRELESS COMMUNICATION	3	1	0	4			
	4	CC	ETEC304A	ANTENNA & WAVE PROPAGATION	3	1	0	4	4	CC	ETEC302A	MICROWAVE ENGINEERING	3	1	0	4			
	5	CC	ETEC303A	ANALOG & DIGITAL COMMUNICATION	3	1	0	4	5	CC	ETEC401A	EMBEDDED SYSTEMS	3	1	0	4			
	6	CC	ETEC310A	LINEAR INTEGRATED CIRCUITS	3	1	0	4	6	CC	ETEC320A	IoT ARCHITECTURE AND PROTOCOLS	3	0	0	3			
	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	ETEC352A	MICROWAVE ENGINEERING LAB	0	0	2	1			
				VALUE ADDED COURSE	2	0	0	0	10	SE	ETEC356A	ELECTRONIC DESIGN PROJECT LAB	0	0	2	1			
				PRACTICAL TRAINING-I	0	0	2	1											
			CONTROL SYSTEM LAB	0	0	2	1												
			TOTAL	20	5	10	28				TOTAL	18	4	8	26				
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	ETEC404A	OPTICAL COMMUNICATION	3	1	0	4	1	CC	ETEC403A	DIGITAL IMAGE PROCESSING	3	1	0	4			
	2	CC	ETEC405A	ARTIFICIAL INTELLIGENCE	3	1	0	4	2	CC	ETEC306A	VLSI DESIGN	3	1	0	4			
	3	DE		DEPARTMENTAL ELECTIVE	3	0	0	3	3	DE		DEPARTMENTAL ELECTIVE	3	0	0	3			
	4	DE		DEPARTMENTAL ELECTIVE	3	0	0	3	4	SE	ETEC453A	DIGITAL IMAGE PROCESSING LAB	0	0	2	1			
	5	SE	ETEC452A	OPTICAL COMMUNICATION LAB	0	0	2	1	5	SE	ETEC460A	MAJOR PROJECT	0	0	12	6			
	6	SE	ETEC455A	ARTIFICIAL INTELLIGENCE LAB	0	0	2	1											
	7	SE	ETEC463A	PRACTICAL TRAINING-II	0	0	2	1											
			MINOR PROJECT	0	0	4	2												
			TOTAL				19				TOTAL						18		
DEPARTMENTAL ELECTIVE																			
			ETEC402A	ROBOTICS	3	-	-	3	8		ETEC416A	RF SIGNALS	3	-	-	3			
			ETEC410A	SATELLITE COMMUNICATION	3	-	-	3	9		ETEC418A	NEURAL NETWORKS & FUZZY LOGIC	3	-	-	3			
			ETEC411A	WIRELESS SENSOR NETWORKS	3	-	-	3	10		ETEC419A	MOBILE COMMUNICATION	3	-	-	3			
			ETEC412A	BIO MEDICAL ELECTRONICS	3	-	-	3	11		ETEC421A	SPEECH AND AUDIO PROCESSING	3	-	-	3			
			ETEC413A	RADAR & SONAR ENGINEERING	3	-	-	3	12		ETEC423A	INTELLIGENT INSTRUMENTATION	3	-	-	3			
			ETEC414A	INTRODUCTION TO NANO TECHNOLOGY	3	-	-	3	13		ETEC424A	ADAPTIVE SIGNAL PROCESSING	3	-	-	3			
			ETEC415A	INTRODUCTION TO MEMS	3	-	-	3	14		ETEC425A	DATA COMMUNICATION NETWORKS	3	-	-	3			
TOTAL CREDITS [C]																			195

  
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ETEC 460	MAJOR PROJECT	C 6
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**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.

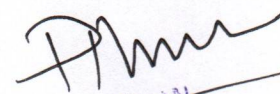
**COURSE OUTCOMES**

- 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

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

Verified by Dean-SOET

E TEC 460	MAJOR PROJECT	C
		6

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**COURSE OBJECTIVE**

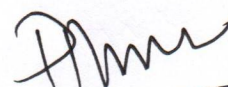
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ETEC 460	MAJOR PROJECT	C 6
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**COURSE OBJECTIVE**

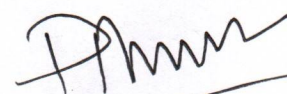
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ETEC 460	MAJOR PROJECT	C 6
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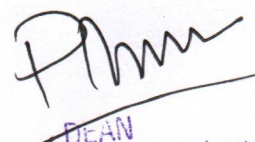
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Haryana 122103

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E TEC 460A	MAJOR PROJECT	C
		6

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**COURSE OBJECTIVE**

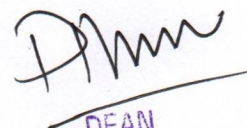
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