

B.E.(ECE)-MAPPING OF PO WITH PEO

MAPPING OF PO WITH PEO					
POs	PEO1	PEO2	PEO3	PEO4	PEO5
PO1	✓	✓	✓		
PO2	✓	✓	✓		
PO3	✓	✓	✓		
PO4	✓	✓	✓		✓
PO5	✓	✓	✓		✓
PO6	✓			✓	✓
PO7				✓	✓
PO8	✓			✓	✓
PO9		✓	✓	✓	✓
PO10			✓	✓	✓
PO11			✓	✓	✓
PO12	✓		✓	✓	✓

SEMESTER I

Course Code	Category	Course	L	T	P	CA	FE	Total	Credits
ETBS101	BS-I	Physics	3	1	0	25	75	100	4
ETBS102	BS-II	Mathematics – I	3	1	0	25	75	100	4
ETES103	ES-I	Basic Electrical Engineering	3	1	0	25	75	100	4
ETBP104	BSP-I	Physics Laboratory	0	0	3	40	60	100	1.5
ETSP105	ESP-I	Electrical Engineering Laboratory	0	0	2	40	60	100	1
ETSP106	ESP-IV	Engineering workshop/ Manufacturing Practices	1	0	4	40	60	100	3
Total Credits									17.5

SEMESTER II

Course Code	Category	Course	L	T	P	CA	FE	Total	Credits
ETHS201	HS-I	English	2	0	0	25	75	100	2
ETBS202	BS-III	Chemistry	3	1	0	25	75	100	4
ETES203	ES-II	Programming for Problem Solving	3	0	0	25	75	100	3
ETBS204	BS-IV	Mathematics – II	3	1	0	25	75	100	4
ETHP205	HSP-I	Communication Skills and Language Laboratory	0	0	2	40	60	100	1
ETBP206	BSP-II	Chemistry Laboratory	0	0	3	40	60	100	1.5
ETSP207	ESP-III	Computer Programming Lab	0	0	4	40	60	100	2
ETSP208	ESP-II	Engineering Graphics and Drafting	1	0	4	40	60	100	3
Total Credits									20.5

Students must undergo Internship for 4 weeks during summer vacation which will be assessed in the forthcoming III Semester.

3

SEMESTER VII

Course Code	Category	Course	L	T	P	CA	FE	Total	Credits
ETHS701	HS-II	Engineering Ethics	2	-	-	25	75	100	2
ECPE702	PC-XIII	Microwave Engineering	3	-	-	25	75	100	3
ECPE703	PE-VI	Professional Elective-VI	3	-	-	25	75	100	3
ECPE704	PE-VII	Professional Elective-VII	3	-	-	25	75	100	3
YEO705	OE-II	Open Elective - II	3	-	-	25	75	100	3
ECCP706	PCP-XI	Microwave Engineering Lab	-	-	3	40	60	100	1.5
ETIT707	IT-III	Industrial Training / Rural Internship/Innovation / Entrepreneurship	<i>Four weeks during the summer vacation at the end of VI Semester</i>			100	100		4.0
Total Credits									19.5

SEMESTER VIII

Course Code	Category	Course	L	T	P	CA	FE	Total	Credits		
ECOES801	OE-III	Open Elective – III	3	-	-	25	75	100	3		
ECOES802	OE-IV	Open Elective – IV	3	-	-	25	75	100	3		
ECPV803	PV-I	Project Work and Viva-Voce				PR 10	S 2	40	60	100	6
Total Credits									12		

L	No. of Lecture Hours	TR	No. of Hours for Discussion on Industrial Training
T	No. of Tutorial Hours	S	No. of Seminar Hours on Industrial Training/Project
P	No. of Practical Hours	PR	No. of Hours for Discussion on Project work
CA	Continuous Assessment Marks	FE	Final Examination Marks
Credits	Credit Points allotted to that course	Total	Total Marks

6

SEMESTER III									
Course Code	Category	Course	L	T	P	CA	FE	Total	Credits
ETBS301	BS-V	Engineering Mathematics III	3	1	-	25	75	100	4
ETES302	ES-III	Environmental Studies	3	-	-	25	75	100	3
ETES303	ES-IV	Data structures & Algorithms	3	-	-	25	75	100	3
ECES304	ES-V	Basic Electronics	2	-	-	25	75	100	2
ECPC305	PC-I	Network Theory	3	-	-	25	75	100	3
ECPC306	PC-II	Digital System Design	3	1	-	25	75	100	4
ECSP307	ESP-V	Basic Electronics Lab	-	-	3	40	60	100	1.5
ECPS308	PCP-I	Network Analysis Lab	-	-	3	40	60	100	1.5
ECCP309	PCP-II	Digital System Design Lab	-	-	3	40	60	100	1.5
ETIT310	IT-I	Internship Inter/ Intra Institutional Activities*	<i>Four weeks during the summer vacation at the end of II Semester</i>			100	100		4.0
Total Credits									27.5

*For the Lateral entry students total credit for III Semester is 23.5 as they are exempted from internship during summer vacation of II semester.

SEMESTER IV

Course Code	Category	Course	L	T	P	CA	FE	Total	Credits
ECBS401	BS-VI	Probability Theory and Stochastic process	3	-	-	25	75	100	3
ECES402	ES-VI	Material Science	2	-	-	25	75	100	2
ECPC403	PC-III	Analog Circuits	3	-	-	25	75	100	3
ECPC404	PC-IV	Microprocessors and Micro Controllers	3	-	-	25	75	100	3
ECPC405	PC-V	Analog Communication	3	-	-	25	75	100	3
ECPC406	PC-VI	Signals and Systems	3	-	-	25	75	100	3
ECCP407	PCP-III	Analog Circuits Lab	-	-	3	40	60	100	1.5
ECCP408	PCP-IV	Microprocessors and Micro Controllers Lab	-	-	3	40	60	100	1.5
ECCP409	PCP-V	Analog Communication Lab	-	-	3	40	60	100	1.5
Total Credits									21.5

Students must undergo Internship for 4 weeks during summer vacation which will be assessed in the forthcoming V Semester.

4

S.NO	COURSE CODE	LIST OF PROFESSIONAL ELECTIVES
1.	ECPESCN	Information Theory and Coding
2.	ECPESCN	Antennas and Propagation
3.	ECPESCN	Control Systems
4.	ECPESCN	Biomedical Electronics
5.	ECPESCN	Electronic Measurements and Instrumentations
6.	ECPESCN	Fiber Optic Communication
7.	ECPESCN	Digital Image and Video Processing
8.	ECPESCN	Mixed Signal Design
9.	ECPESCN	Wireless Sensor Networks
10.	ECPESCN	High Speed Electronics
11.	ECPESCN	Nano Electronics
12.	ECPESCN	Scientific Computing
13.	ECPESCN	Computer Architecture
14.	ECPESCN	DSP Processor Architecture and Programming
15.	ECPESCN	Mobile Adhoc Networks
16.	ECPESCN	Introduction to MEMS
17.	ECPESCN	Cellular Mobile Communication
18.	ECPESCN	Digital Design Through Verilog

S.NO	COURSE CODE	LIST OF OPEN ELECTIVES
1.	ECOESCN	Soft Computing Techniques
2.	ECOESCN	Satellite Communication
3.	ECOESCN	Wavelets
4.	ECOESCN	Power Electronics
5.	ECOESCN	Radar and Navigation Aids
6.	ECOESCN	Network and Information Theory
7.	ECOESCN	Cloud Computing
8.	ECOESCN	Modern Communication Systems
9.	ECOESCN	Multimedia Compression Technique
10.	ECOESCN	Advanced Microprocessor and Microcontroller

S.NO	COURSE CODE	LIST OF HONOURS ELECTIVE	CREDITS
1.	ECHESCN	Transmission Lines and Waveguides	3
2.	ECHESCN	CMOS Analog IC Design	3
3.	ECHESCN	Data Structures and C++	3
4.	ECHESCN	Speech and Audio Processing	4
5.	ECHESCN	Adaptive Signal Processing	4
6.	ECHESCN	Mobile Communication and Networks	3

7

SEMESTER V									
Course Code	Category	Course	L	T	P	CA	FE	Total	Credits
ECPC501	PC-VII	Digital Communication	3	-	-	25	75	100	3
ECPC502	PC-VIII	Digital Signal Processing	3	-	-	25	75	100	3
ECPC503	PC-IX	VLSI Design	3	-	-	25	75	100	3
ECPC504	PC-X	Electromagnetic Waves	3	-	-	25	75	100	3
ECPE505	PE-I	Professional Elective I	3	-	-	25	75	100	3
ECPE506	PE-II	Professional Elective II	3	-	-	25	75	100	3
ECCP507	PCP-VI	Digital Communication Lab	-	-	3	40	60	100	1.5
ECCP508	PCP-VII	Digital Signal Processing Lab	-	-	3	40	60	100	1.5
ECCP509	PCP-VIII	VLSI Design Lab	-	-	3	40	60	100	1.5
ETIT510	IT-II	Industrial Training / Rural Internship/Innovation / Entrepreneurship	<i>Four weeks during the summer vacation at the end of IV Semester</i>			100	100		4.0
Total Credits									26.5

SEMESTER VI

Course Code	Category	Course	L	T	P	CA	FE	Total	Credits
ECPC601	PC-XI	Embedded Systems	3	-	-	25	75	100	3
ECPC602	PC-XII	Data Communication and Networks	3	-	-	25	75	100	3
ECPE603	PE-III	Professional Elective - III	3	-	-	25	75	100	3
ECPE604	PE-IV	Professional Elective - IV	3	-	-	25	75	100	3
ECPE605	PE-V	Professional Elective -V	3	-	-	25	75	100	3
YEO606	OE-I	Open Elective - I	3	-	-	25	75	100	3
ECCP607	PCP-IX	Embedded Systems Lab	-	-	3	40	60	100	1.5
ECCP608	PCP-X	Data Communication and Networks Lab	-	-	3	40	60	100	1.5
Total Credits									21.0

Students must undergo Internship for 4 weeks during summer vacation which will be assessed in the forthcoming VII Semester.

5

S.NO	COURSE CODE	LIST OF MINOR ENGINEERING ELECTIVE	CREDITS
1.	ECMISCN	Electronic Devices	3
2.	ECMISCN	Communication Engineering	3
3.	ECMISCN	Linear Integrated Circuits and Applications	3
4.	ECMISCN	Computer Networks	4
5.	ECMISCN	Telecommunication Switching and Networks	3
6.	ECMISCN	Wireless Communication	4

8

ETBS301	ENGINEERING MATHEMATICS III	L	T	P	C
		3	1	0	4

COURSE OBJECTIVES

- To learn partial and differential equations, Fourier series, Boundary value problems.
- To learn the transforms such as Sine, Cosine, Fourier transform and Z transforms
- To gain Knowledge of the method to find the solution of difference Method.

UNIT I

Partial Differential Equations

Formation of Partial Differential Equations by Eliminating Arbitrary Constants and Arbitrary Functions-Solution of Standard Type of First Order Partial Differential Equations - Lagrange's Linear Equation - Linear Partial Differential Equations of Second Order with Constant Coefficients.

UNIT II

Fourier Series

Dirichle's Conditions - General Fourier Series - Odd and Even Functions - Half Range Sine Series - Half Range Cosine Series - Complex Form of Fourier Series - Parseval's Identity.

UNIT III

Boundary Value Problems

Solutions of One Dimensional Wave Equation - One Dimensional Heat Equation (Without Derivation) - Fourier Series Solutions in Cartesian Co-Ordinates.

UNIT IV

Fourier Transform Fourier Integral Theorem (Without Proof) - Fourier Transform Pair- Sine and Cosine Transforms - Properties - Transforms of Simple Functions - Convolution Theorem - Parseval's Identity.

UNIT V

Z- Transform and Difference Equations

Z - Transform - Elementary Properties- Inverse Z -Transform-Convolution Theorem-Solution of Difference Equation Using Z Transform.

TEXT BOOKS

1. Kandasamy P., Thilagavathy. K. and Gunavathy, K., "Engineering Mathematics" Series. S.Chand & Co.Ltd.New Delhi. 2007.
2. Venkatraman M.K., "Engineering Mathematics" series, the National Pub Co., Chennai. 2003.

REFERENCES

1. Veerarajan T., "Engineering Mathematics" Series, Tata McGraw Hill Pub Co., Ltd. New Delhi, 2006.
2. Singaravelu. A., "Engineering Mathematics" Series, Meenakshi Publication, Chennai, 2004.