Sapthagiri College of Engi ering

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Department of Biotechnology (AY 2018-19)

1.3.2.1: Number of courses that include experiential learning through project work/field work/internship/mini project

YEAR	COURSE NAME	COURSE CODE	PROJECT WORK	FIELD WORK	INTERNSHIP	MINI PROJECT
1ST YEAR	ENGINEERING MATHEMATICS-I	15MAT11	✓		✓	
	ENGINEERING PHYSICS	15PHY12/15PHY22				
	ENGINEERING CHEMISTRY	15CHE12/ 15CHE 22	✓		✓	
	ELEMENTS OF CIVIL ENGINEERING AND MECHANICS	15CIV13/15CIV23				
	PROGRAMMING IN C AND DATA STRUCTURES	15PCD13/23				
	ELEMENTS OF MECHANICAL ENGINEERING	15EME14/15EME24				
	COMPUTER AIDED ENGINEERING DRAWING	15CED14/15CED24				
	BASIC ELECTRICAL ENGINEERING	15ELE15/15ELE25	✓			
	BASIC ELECTRONICS	15ELN15 / 15ELN25 I	✓			
	WORKSHOP PRACTICE	15WSL16/15WSL26				
	COMPUTER PROGRAMMING LABORATORY	15CPL 16 / 15CPL26				
	ENGINEERING PHYSICS LAB	15PHYL17 / 15PHYL27				
	ENGINEERING CHEMISTRY LABORATORY	15CHEL17/15CHEL27 !				
	ENVIRONMENTAL STUDIES	15CIV18/15CIV28	✓		✓	
	CONSTITUTION OF INDIA, PROFESSIONAL ETHICS & HUMAN RIGHTS	15CPH18/15CPH28				
	ENGINEERING MATHEMATICS-II	15MAT21				
2ND YEAR	ENGINEERING MATHMATICS III	15BT31				
	UNIT OPERATIONS	15BT32			✓	
	BIOCHEMISTRY	15BT33	✓		✓	
	MICROBIOLOGY	15BT34	✓		✓	
	CELL BIOLOGY AND GENETICS	15BT35	✓		✓	
	BASICS COMPUTER APPLICATION	15BT36				
	UNIT OPERATION LABORATORT	15BTL37	✓		✓	

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Department of Biotechnology (AY 2018-19)

	MICROBIOLOGY LABORATORY	15BTL38	✓		✓	
	BIOSTASTICS AND BIOMODELING	15BT41	✓		✓	
	BIOCHEMICAL THERMODYNAMICS	15BT42				
	MOLECULAR BIOLOGY	15BT43	✓		✓	
	BIOPROCESS PRINCIPLES AND CALUCULATIONS	15BT44				
	STRUCTURAL BIOLOGY	15BT45				
	CLINICAL BIOCHEMISTRY	15BT46	✓		✓	
	CELL AND MOLECULAR BIOLOGY	15BTL47	✓		✓	
	CLINICAL BIOCHEMISTRY	15BTL48	✓		✓	
3RD YEAR	BIOKINETICS AND BIOREACTION ENGINEERING	15BT51	✓		✓	
	GENETIC ENGINEERING AND APPLICATION	15BT52	✓		✓	
	IMMUNOTECHNOLOGY	15BT53	✓		✓	
	BIOINFORMATICS	15BT54	✓			
	ANIMAL BIOTECHNOLOGY	15BT553	✓		✓	
	BIOTECHNOLOGY FOR SUSTAINABLE	15BT563	✓		✓	
	GENETIC ENGINEERING AND IMMUNOTECHNOLOGY LABOROTORY	15BTL57	✓		✓	
	BIOINFORMATIC LABOROTORY	15BTL58	✓		✓	
	BIOBUSINESS AND ENTERPRENEURSHIP	15BT61				
	BIOPROCESS CONTROL AND AUTOMATION	15BT62	✓		✓	
	ENZYME TECHNOLOGY AND	15BT63	✓		✓	
	BIOPROCESS EQUIPMENT AND DESIGN AND	15BT64				
	CELL CULTURE TECHNIQUES	15BT653	✓		✓	
	NANOBIOTECHNOLOGY	15BT662	✓		✓	
	BIOPROCESS CONTROL AND AUTOMATION	15BTL67	✓		✓	
	BIOKINETICS AND ENZYMETECHNOLOGY	15BTL68	✓		✓	
4TH	FERMENTATION TECHNOLOGY	15BT71	✓		✓	

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Department of Biotechnology (AY 2018-19)

YEAR	GENOMICS AND PROTEOMICS	15BT72	✓		✓	
	PLANT BIOTECHNOLOGY	15BT73	✓		✓	
	LAB TO INDUSTRIAL SCALING	15BT743	✓		✓	
	FORENSIC SCIENCES	15BT752				
	FERMENTATION TECHNOLOGY LABORATORY	15BTL76	✓		✓	
	PLANT BIOTECHNOLOGY LABORATORY	15BTL77	✓		✓	
	PROJECT PHASE 1+SEMINAR	15BT78	✓			
	CLINICAL PHARMACEUTICAL BIOTECHNOLOGY	15BT81	✓		✓	
	REGULATORY AFFAIRS IN BIOTECHNOLOGY	15BT82			✓	
	ENVIRONMENTAL BIOTECHNOLOGY	15BT833	✓		✓	
	PROJECT	15BT85	✓		✓	
	SEMINAR	15BT86	✓		✓	

CADEMIC COMMITTEE CONVENER

HOD

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Department of Biotechnology (AY 2017-18)

1.3.2.1: Number of courses that include experiential learning through project work/field work/internship/mini project

YEAR	COURSE NAME	COURSE CODE	PROJECT WORK	FIELD WORK	INTERNSHIP	MINI PROJECT
1ST YEAR	ENGINEERING MATHEMATICS-I	10MAT11				
	ENGINEERING PHYSICS	10PHY12/10PHY22				
	ENGINEERING CHEMISTRY	10CHE12/ 10CHE 22	✓			
	ELEMENTS OF CIVIL ENGINEERING & ENGINEERING MECHANICS	10CIV13/10CIV23				
	COMPUTER CONCEPTS AND C PROGRAMMING	10CCP13/10CCP23				
	ELEMENTS OF MECHANICAL ENGINEERING	10EME14 / 10EME24				
	COMPUTER AIDED ENGINEERING DRAWING	10CED14 / 10CED24				
	BASIC ELECTRICAL ENGINEERING	10ELE15/ 10ELE25				
	BASIC ELECTRONICS	10ELN15 / 10ELN25				
	WORKSHOP PRACTICE	10WSL16/ 10WSL26				
	COMPUTER PROGRAMMING LABORATORY	10CPL16 / 10CPL26				
	LABORATORY EXPERIMENTS IN ENGINEERING	10PHYL17/10PHYL27				
	ENGINEERING CHEMISTRY LABORATORY	10CHEL17/10CHEL27				
	CONSTITUTION OF INDIA AND PROFESSIONAL	10CIP18/10CIP28				
	ENVIRONMENTAL STUDIES	10CIV18/10CIV28				
	ENGINEERING MATHEMATICS – II	10MAT21				
2ND YEAR	ENGINEERING MATHEMATICS – III	10BT31				
	INTRODUCTION TO UNIT OPERATIONS	10BT32				
	HUMAN PHYSIOLOGY	10BT33				
	BIOCHEMISTRY	10BT34	✓			
	MICROBIOLOGY	10BT35	✓			

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Department of Biotechnology (AY 2017-18)

	CELL BIOLOGY AND GENETICS	10BT36	✓			
	BIOCHEMISTRY LABORATORY	10BTL37	✓			
	UNIT OPERATIONS LABORATORY	10BTL38	✓			
	BIOSTATISTICS AND BIOMODELLING	10BT41	✓			
	BIOCHEMICAL THERMODYNAMICS	10BT42	✓			
	STRUCTURAL BIOLOGY	10BT43				
	MOLECULAR BIOLOGY	10BT44	✓			
	BASIC OF COMPUTER APPLICATION	10BT45				
	BIOPROCESS PRINCIPLES AND CALCULATIONS	10BT46				
	CELL AND MOLECULAR BIOLOGY LAB	10BTL47	✓			
	MICROBIOLOGY LAB	10BTL48	✓			
3RD YEAR	MANAGEMENT AND ENTERORENEURSHIP	10AL51				
	BIOKINETICS AND BIOREACTION ENGINEERING	10BT52	✓			
	BIOINSTRUMENTATION AND BIOSENSOR	10BT53	✓			
	IMMUNOTECHNOLOGY	10BT54	✓			
	GENETIC ENGINEERING AND APPLICATION	10BT55	✓			
	BIOINFORMATICS	10BT56				
	GENETIC ENGINEERING AND IMMUNOTECHNOLOGY LABORATORY	10BTL57	✓			
	BIOOINFORMATICS LABORATORY	10BTL58	✓			
	BIOPROCESS CONTROL AND AUTOMATION	10BT61	✓			
	CLINICAL AND PHARMACEUTICAL BIOTECHNOLOGY	10BT62	✓			
	ENZYME TECHNOLOGY AND BIOTRANSFORMATION	10BT63	✓			
	GENOMICS AND PROTEOMICS	10BT64	✓			

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Department of Biotechnology (AY 2017-18)

	BIOPROCESS EQUIPMENT DESIGN AND CAED	10BT65				
	ANIMAL BT	10BT661	✓			
	BIOPROCESS CÓNTROL AND AUTOMATION LAB	10BTL67	✓			
	BIOKINETICS AND ENZYMETECHNOLOGY LAB	10BTL68	✓			
4TH YEAR	ECONOMICS AND PLANT DESIGN	10BT71	✓			
	UPSTREAM PROCESS TECHNOLOGY	10BT72	✓			
	DOWNSTREAM PROCESS TECHNOLOGY	10BT73	✓			
	FOOD BIOTECHNOLOGY	10BT74	✓			
	FORENSIC SCIENCE	10BT753				
	HEALTH DIAGNOSTIC	10BT763				
	UPSTREAM BIOPROCESSING LABORATORY	10BTL77	✓			
	DOWNSTREAM BIOPROCESSING LABORATORY	10BTL78	✓			
	PROJECT MANAGEMENT AND IPR	10BT81				
	BIOETHICS AND BIOSAFETY	10BT82				
	LAB TO INDUSTRIL SCALING	10BT832	✓			
	ENVIRONMENTAL BIOTECHNOLOGY	10BT841	✓			
	PROJECT WORK	10BT85	✓			
	TECHNICAL SEMINAR	10BT86	✓			

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Department of Biotechnology (AY 2016-17)

1.3.2.1: Number of courses that include experiential learning through project work/field work/internship/mini project

YEAR	COURSE NAME	COURSE CODE	PROJECT WORK	FIELD WORK	INTERNSHIP	MINI PROJECT
1ST YEAR	ENGINEERING MATHEMATICS-I	10MAT11				
	ENGINEERING PHYSICS	10PHY12/10PHY22				
	ENGINEERING CHEMISTRY	10CHE12/ 10CHE 22	✓			
	ELEMENTS OF CIVIL ENGINEERING & ENGINEERING MECHANICS	10CIV13/10CIV23				
	COMPUTER CONCEPTS AND C PROGRAMMING	10CCP13/10CCP23				
	ELEMENTS OF MECHANICAL ENGINEERING	10EME14 / 10EME24				
	COMPUTER AIDED ENGINEERING DRAWING	10CED14 / 10CED24				
	BASIC ELECTRICAL ENGINEERING	10ELE15/ 10ELE25				
	BASIC ELECTRONICS	10ELN15 / 10ELN25				
	WORKSHOP PRACTICE	10WSL16/ 10WSL26				
	COMPUTER PROGRAMMING LABORATORY	10CPL16 / 10CPL26				
	LABORATORY EXPERIMENTS IN ENGINEERING	10PHYL17/10PHYL27				
	ENGINEERING CHEMISTRY LABORATORY	10CHEL17/10CHEL27				
	CONSTITUTION OF INDIA AND PROFESSIONAL	10CIP18/10CIP28				
	ENVIRONMENTAL STUDIES	10CIV18/10CIV28	✓			
	ENGINEERING MATHEMATICS – II	10MAT21				
2ND YEAR	ENGINEERING MATHEMATICS – III	10BT31				
	INTRODUCTION TO UNIT OPERATIONS	10BT32	✓			
	HUMAN PHYSIOLOGY	10BT33				
	BIOCHEMISTRY	10BT34	✓			

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Department of Biotechnology (AY 2016-17)

	MICROBIOLOGY	10BT35	✓			
	CELL BIOLOGY AND GENETICS	10BT36	✓			
	BIOCHEMISTRY LABORATORY	10BTL37	✓			
	UNIT OPERATIONS LABORATORY	10BTL38	✓			
	BIOSTATISTICS AND BIOMODELLING	10BT41	✓			
	BIOCHEMICAL THERMODYNAMICS	10BT42	✓			
	STRUCTURAL BIOLOGY	10BT43				
	MOLECULAR BIOLOGY	10BT44	✓			
	BASIC OF COMPUTER APPLICATION	10BT45				
	BIOPROCESS PRINCIPLES AND CALCULATIONS	10BT46				
	CELL AND MOLECULAR BIOLOGY LAB	10BTL47	✓			
	MICROBIOLOGY LAB	10BTL48	✓			
3RD YEAR	MANAGEMENT AND ENTERORENEURSHIP	10AL51				
	BIOKINETICS AND BIOREACTION ENGINEERING	10BT52	✓			
	BIOINSTRUMENTATION AND BIOSENSOR	10BT53	✓			
	IMMUNOTECHNOLOGY	10BT54	✓			
	GENETIC ENGINEERING AND APPLICATION	10BT55	✓			
	BIOINFORMATICS	10BT56	✓			
	GENETIC ENGINEERING AND IMMUNOTECHNOLOGY LABORATORY	10BTL57	✓			
	BIOOINFORMATICS LABORATORY	10BTL58	✓			
	BIOPROCESS CONTROL AND AUTOMATION	10BT61	✓			
	CLINICAL AND PHARMACEUTICAL BIOTECHNOLOGY	10BT62	✓			
	ENZYME TECHNOLOGY AND BIOTRANSFORMATION	10BT63	✓			

	GENOMICS AND PROTEOMICS	10BT64	✓			
	BIOPROCESS EQUIPMENT DESIGN AND CAED	10BT65	✓			
	ANIMAL BT	10BT661	✓			
	BIOPROCESS CONTROL AND AUTOMATION LAB	10BTL67	✓			
	BIOKINETICS AND ENZYMETECHNOLOGY LAB	10BTL68	✓			
4TH YEAR	ECONOMICS AND PLANT DESIGN	10BT71	✓			
	UPSTREAM PROCESS TECHNOLOGY	10BT72	✓			
	DOWNSTREAM PROCESS TECHNOLOGY	10BT73	✓			
	FOOD BIOTECHNOLOGY	10BT74	✓			
	FORENSIC SCIENCE	10BT753				
	HEALTH DIAGNOSTIC	10BT763				
	UPSTREAM BIOPROCESSING LABORATORY	10BTL77	✓			
	DOWNSTREAM BIOPROCESSING LABORATORY	10BTL78	✓			
	PROJECT MANAGEMENT AND IPR	10BT81				
	BIOETHICS AND BIOSAFETY	10BT82				
	LAB TO INDUSTRIL SCALING	10BT832	✓			
	ENVIRONMENTAL BIOTECHNOLOGY	10BT841	✓			
	PROJECT WORK	10BT85	✓			
	TECHNICAL SEMINAR	10BT86	✓			

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Department of Biotechnology (AY 2015-16)

1.3.2.1: Number of courses that include experiential learning through project work/field work/internship/mini project

YEAR	COURSE NAME	COURSE CODE	PROJECT WORK	FIELD WORK	INTERNSHIP	MINI PROJECT
1ST YEAR	ENGINEERING MATHEMATICS-I	10MAT11				
	ENGINEERING PHYSICS	10PHY12/10PHY22				
	ENGINEERING CHEMISTRY	10CHE12/ 10CHE 22	✓			
	ELEMENTS OF CIVIL ENGINEERING & ENGINEERING MECHANICS	10CIV13/10CIV23				
	COMPUTER CONCEPTS AND C PROGRAMMING	10CCP13/10CCP23				
	ELEMENTS OF MECHANICAL ENGINEERING	10EME14 / 10EME24				
	COMPUTER AIDED ENGINEERING DRAWING	10CED14 / 10CED24				
	BASIC ELECTRICAL ENGINEERING	10ELE15/ 10ELE25				
	BASIC ELECTRONICS	10ELN15 / 10ELN25				
	WORKSHOP PRACTICE	10WSL16/ 10WSL26				
	COMPUTER PROGRAMMING LABORATORY	10CPL16 / 10CPL26				
	LABORATORY EXPERIMENTS IN ENGINEERING	10PHYL17/10PHYL27				
	ENGINEERING CHEMISTRY LABORATORY	10CHEL17/10CHEL27				
	CONSTITUTION OF INDIA AND PROFESSIONAL	10CIP18/10CIP28				
	ENVIRONMENTAL STUDIES	10CIV18/10CIV28	✓			
	ENGINEERING MATHEMATICS – II	10MAT21				
2ND YEAR	ENGINEERING MATHEMATICS – III	10BT31				
	INTRODUCTION TO UNIT OPERATIONS	10BT32	✓			
	HUMAN PHYSIOLOGY	10BT33				
	BIOCHEMISTRY	10BT34	✓			

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Department of Biotechnology (AY 2015-16)

	MICROBIOLOGY	10BT35	✓			
	CELL BIOLOGY AND GENETICS	10BT36	✓			
	BIOCHEMISTRY LABORATORY	10BTL37	✓			
	UNIT OPERATIONS LABORATORY	10BTL38	✓			
	BIOSTATISTICS AND BIOMODELLING	10BT41				
	BIOCHEMICAL THERMODYNAMICS	10BT42	✓			
	STRUCTURAL BIOLOGY	10BT43				
	MOLECULAR BIOLOGY	10BT44	✓			
	BASIC OF COMPUTER APPLICATION	10BT45				
	BIOPROCESS PRINCIPLES AND CALCULATIONS	10BT46				
	CELL AND MOLECULAR BIOLOGY LAB	10BTL47	✓			
	MICROBIOLOGY LAB	10BTL48	✓			
3RD YEAR	MANAGEMENT AND ENTERORENEURSHIP	10AL51				
	BIOKINETICS AND BIOREACTION ENGINEERING	10BT52	✓			
	BIOINSTRUMENTATION AND BIOSENSOR	10BT53	✓			
	IMMUNOTECHNOLOGY	10BT54	✓			
	GENETIC ENGINEERING AND APPLICATION	10BT55	✓			
	BIOINFORMATICS	10BT56				
	GENETIC ENGINEERING AND IMMUNOTECHNOLOGY LABORATORY	10BTL57	✓			
	BIO0INFORMATICS LABORATORY	10BTL58	✓			
	BIOPROCESS CONTROL AND AUTOMATION	10BT61	✓			
	CLINICAL AND PHARMACEUTICAL BIOTECHNOLOGY	10BT62	✓			
	ENZYME TECHNOLOGY AND BIOTRANSFORMATION	10BT63	✓			
	GENOMICS AND PROTEOMICS	10BT64	✓			

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Department of Biotechnology (AY 2015-16)

	BIOPROCESS EQUIPMENT DESIGN AND CAED	10BT65	✓			
	ANIMAL BT	10BT661	✓			
	BIOPROCESS CONTROL AND AUTOMATION LAB	10BTL67	✓			
	BIOKINETICS AND ENZYMETECHNOLOGY LAB	10BTL68	✓			
4TH YEAR	ECONOMICS AND PLANT DESIGN	10BT71	✓			
	UPSTREAM PROCESS TECHNOLOGY	10BT72	✓			
	DOWNSTREAM PROCESS TECHNOLOGY	10BT73	✓			
	FOOD BIOTECHNOLOGY	10BT74				
	FORENSIC SCIENCE	10BT753				
	HEALTH DIAGNOSTIC	10BT763				
	UPSTREAM BIOPROCESSING LABORATORY	10BTL77	✓			
	DOWNSTREAM BIOPROCESSING LABORATORY	10BTL78	✓			
	PROJECT MANAGEMENT AND IPR	10BT81				
	BIOETHICS AND BIOSAFETY	10BT82				
	LAB TO INDUSTRIL SCALING	10BT832	✓			
	ENVIRONMENTAL BIOTECHNOLOGY	10BT841	✓			
	PROJECT WORK	10BT85	✓			
	TECHNICAL SEMINAR	10BT86	✓			

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Department of Biotechnology (AY 2014-15)

1.3.2.1: Number of courses that include experiential learning through project work/field work/internship/mini project (Academic year 2014-15)

YEAR	COURSE NAME	COURSE CODE	PROJECT WORK	FIELD WORK	INTERNSHIP	MINI PROJECT
1ST YEAR	ENGINEERING MATHEMATICS-I	10MAT11				
	ENGINEERING PHYSICS	10PHY12/10PHY22				
	ENGINEERING CHEMISTRY	10CHE12/ 10CHE 22	✓			
	ELEMENTS OF CIVIL ENGINEERING & ENGINEERING MECHANICS	10CIV13/10CIV23				
	COMPUTER CONCEPTS AND C PROGRAMMING	10CCP13/10CCP23				
	ELEMENTS OF MECHANICAL ENGINEERING	10EME14 / 10EME24				
	COMPUTER AIDED ENGINEERING DRAWING	10CED14 / 10CED24				
	BASIC ELECTRICAL ENGINEERING	10ELE15/ 10ELE25				
	BASIC ELECTRONICS	10ELN15 / 10ELN25				
	WORKSHOP PRACTICE	10WSL16/ 10WSL26				
	COMPUTER PROGRAMMING LABORATORY	10CPL16 / 10CPL26				
	LABORATORY EXPERIMENTS IN ENGINEERING	10PHYL17/10PHYL27				
	ENGINEERING CHEMISTRY LABORATORY	10CHEL17/10CHEL27				
	CONSTITUTION OF INDIA AND PROFESSIONAL	10CIP18/10CIP28				
	ENVIRONMENTAL STUDIES	10CIV18/10CIV28	✓			
	ENGINEERING MATHEMATICS – II	10MAT21				
2ND YEAR	ENGINEERING MATHEMATICS – III	10BT31	✓			
	INTRODUCTION TO UNIT OPERATIONS	10BT32	✓			
	HUMAN PHYSIOLOGY	10BT33				
	BIOCHEMISTRY	10BT34	✓			
	MICROBIOLOGY	10BT35	✓			
	CELL BIOLOGY AND GENETICS	10BT36	✓			
	BIOCHEMISTRY LABORATORY	10BTL37	✓			

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Phone: 080-28372800/1/2 www.sapthagiri.edu.in Fax: 080-28372797

Department of Biotechnology (AY 2014-15)

	UNIT OPERATIONS LABORATORY	10BTL38	✓			
	BIOSTATISTICS AND BIOMODELLING	10BT41				
	BIOCHEMICAL THERMODYNAMICS	10BT42	✓			
	STRUCTURAL BIOLOGY	10BT43				
	MOLECULAR BIOLOGY	10BT44	✓			
	BASIC OF COMPUTER APPLICATION	10BT45				
	BIOPROCESS PRINCIPLES AND CALCULATIONS	10BT46				
	CELL AND MOLECULAR BIOLOGY LAB	10BTL47	✓			
	MICROBIOLOGY LAB	10BTL48	✓			
3RD YEAR	MANAGEMENT AND ENTERORENEURSHIP	10AL51				
	BIOKINETICS AND BIOREACTION ENGINEERING	10BT52	✓			
	BIOINSTRUMENTATION AND BIOSENSOR	10BT53	✓			
	IMMUNOTECHNOLOGY	10BT54	✓			
	GENETIC ENGINEERING AND APPLICATION	10BT55	✓			
	BIOINFORMATICS	10BT56	✓			
	GENETIC ENGINEERING AND IMMUNOTECHNOLOGY LABORATORY	10BTL57	✓			
	BIO0INFORMATICS LABORATORY	10BTL58	✓			
	BIOPROCESS CONTROL AND AUTOMATION	10BT61	✓			
	CLINICAL AND PHARMACEUTICAL BIOTECHNOLOGY	10BT62	✓			
	ENZYME TECHNOLOGY AND BIOTRANSFORMATION	10BT63	✓			
	GENOMICS AND PROTEOMICS	10BT64	✓			
	BIOPROCESS EQUIPMENT DESIGN AND CAED	10BT65	✓			
	ANIMAL BT	10BT661	✓			

Sapthagiri College of Engineering

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Department of Biotechnology (AY 2014-15)

	BIOPROCESS CONTROL AND AUTOMATION LAB	10BTL67	✓			
	BIOKINETICS AND ENZYMETECHNOLOGY LAB	10BTL68	✓			
4TH YEAR	ECONOMICS AND PLANT DESIGN	10BT71	✓			
	UPSTREAM PROCESS TECHNOLOGY	10BT72	✓			
	DOWNSTREAM PROCESS TECHNOLOGY	10BT73	✓			
	FOOD BIOTECHNOLOGY	10BT74				
	FORENSIC SCIENCE	10BT753				
	HEALTH DIAGNOSTIC	10BT763				
	UPSTREAM BIOPROCESSING LABORATORY	10BTL77	✓			
	DOWNSTREAM BIOPROCESSING LABORATORY	10BTL78	✓			
	PROJECT MANAGEMENT AND IPR	10BT81				
	BIOETHICS AND BIOSAFETY	10BT82				
	LAB TO INDUSTRIL SCALING	10BT832	✓			
	ENVIRONMENTAL BIOTECHNOLOGY	10BT841	✓			
	PROJECT WORK	10BT85	✓			
	TECHNICAL SEMINAR	10BT86	✓			

ACADEMIC COMMITTEE CONVENER

Principal
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Chikkasandra, Hesaraghatta Road,
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HOD

Head of the Department
Dept. of Bio-Technology
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SAPTHAGIRI COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING AY: -2018-19

1.3.2.1: Number of courses that include experiential learning through project work/field work/internship/mini project

YEAR	COURSE NAME	COURSE CODE	PROJECT WORK	FIELD WORK	INTERNSHIP	MINI PROJECT
Chemistry Cycle 1ST Semester	COMPUTER AIDED ENGINEERING DRAWING	15CED14/15CED24				
	ENGINEERING CHEMISTRY	15CHE12/15CHE22				
	BASIC ELECTRONICS	15ELN15/15ELN25	√		√	
	ENGINEERING MATHS-I	15MAT11/15MAT21	√		√	
	PROGRAMMING IN C & DATA STRUCTURES	15PCD13/15PCD23	√		√	
Physics Cycle 1ST Semester	ELEMENTS OF CIVIL ENGG. & MECHANICS	15CIV13/15CIV23				
	CONSTITUTION OF INDIA, PROFESSIONAL ETHICS AND HUMAN RIGHTS (CPH)	15CPH18/15CPH28				
	BASIC ELECTRICAL ENGG.	15ELE15/15ELE25				
	ELEMENTS OF MECHANICAL ENGG.	15EME14/15EME24				
	ENGINEERING MATHS-I	15MAT11/15MAT21				
	ENGINEERING PHYSICS	15PHY12/15PHY22				
	ENGG. PHYSICS LAB	15PHYL17/15PHYL27				
	WORKSHOP PRACTICE	15WSL16/15WSL26				
2ND YEAR	ENGINEERING MATHEMATICS-III	15MAT31	√		√	
	ANALOG AND DIGITAL ELECTRONICS	15CS32	√		√	
	DATA STRUCTURES AND APPLICATIONS	15CS33	√		√	
	COMPUTER ORGANIZATION	15CS34	√		√	
	UNIX AND SHELL PROGRAMMING	15CS35	√		√	
	DISCRETE MATHEMATICAL STRUCTURES	15CS36	√		√	
	ANALOG AND DIGITAL ELECTRONICS LABORATORY	15CSL37	√		√	
	DATA STRUCTURES LABORATORY	15CSL38	√		√	
	ENGINEERING MATHEMATICS-IV	15MAT41	√		√	
	SOFTWARE ENGINEERING	15CS42	√		√	
	DESIGN AND ANALYSIS OF ALGORITHMS	15CS43	√		√	
	MICROPROCESSORS AND	15CS44	√		√	

	OBJECT ORIENTED PR[illegible]AMMING WITH	15CS45	√		√	
	DATA COMMUNICATIONS	15CS46	√		√	
	MICROPROCESSORS AND MICROCONTROLLERS LAB	15CSL48	√		√	
	DESIGN AND ANALYSIS OF ALGORITHMS LAB	15CSL47	√		√	
3RD YEAR	MANAGEMENT AND ENTREPRENEURSHIP	15CS51				
	COMPUTER NETWORKS	15CS52	√		√	
	DATABASE MANAGEMENT SYSTEM	15CS53	√		√	
	AUTOMATA THEORY AND COMPUTABILITY	15CS54	√		√	
	OBJECT ORIENTED MODELING AND DESIGN	15CS55	√		√	
	ADVANCED JAVA AND J2EE	15CS553	√		√	
	CLOUD COMPUTING	15CS565	√		√	
	COMPUTER NETWORKS LAB	15CSL57	√		√	
	DATABASE MANAGEMENT LAB	15CSL58	√		√	
	CRYPTOGRAPHY, NETWORK SECURITY AND	15CS61	√		√	
	COMPUTER GRAPHICS AND VISUALIZATION	15CS62	√		√	
	SYSTEM SOFTWARE AND COMPILER	15CS63	√		√	
	OPERATING SYSTEMS	15CS64	√		√	
	OPERATION RESEARCH	15CS653				
	PYTHON APPLICATION PROGRAMMING	15CS664	√		√	
	SYSTEM SOFTWARE AND OPERATING SYSTEM LABORATORY	15CSL67	√		√	√
	COMPUTER GRAPHICS LABORATORY WITH MINI PROJECT	15CSL68	√		√	√
4TH YEAR	WEB TECHNOLOGY AND ITS APPLICATIONS	15CS71	√		√	√
	ADVANCED COMPUTER ARCHITECTURES	15CS72				
	MACHINE LEARNING	15CS73	√		√	
	UNIX SYSTEM PROGRAMMING	15CS744				
	STORAGE AREA NETWORKS	15CS754				
	MACHINE LEARNING LABORATORY	15CSL76	√		√	
	WEB TECHNOLOGY LABORATORY WITH	15CSL77	√		√	√
	PROJECT PHASE 1 + SEMINAR	15CSP78	√		√	
	INTERNET OF THINGS AND APPLICATIONS	15CS81	√		√	
	BIG DATA ANALYTICS	15CS82	√		√	
	SYSTEM MODELING AND SIMULATION	15CS834	√		√	

	INTERNSHIP / PROFESS IAL PRACTICE	15CS84			√	
	PROJECT WORK PHASE II	15CSP85	√			
	SEMINAR	15CSS86				

2

ACADEMIC COMMITTEE CONVENER

HOD

Professor & Head of the Department
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SAPTHAGIRI COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING AY: -2017-18

1.3.2.1: Number of courses that include experiential learning through project work/field work/internship/mini project

YEAR	COURSE NAME	COURSE CODE	PROJECT WORK	FIELD WORK	INTERNSHIP	MINI PROJECT
1ST YEAR	ENGINEERING MATHEMATICS-I	14MAT11	√			
	ENGINEERING PHYSICS	14PHY12/14PHY22				
	ENGINEERING CHEMISTRY	14CHE12/ 14CHE 22				
	ELEMENTS OF CIVIL ENGINEERING & ENGINEERING MECHANICS	14CIV13/14CIV23				
	COMPUTER CONCEPTS AND C PROGRAMMING	14CCP13/14CCP23	√		√	
	ELEMENTS OF MECHANICAL ENGINEERING	14EME14 / 14EME24				
	COMPUTER AIDED ENGINEERING DRAWING	14CED14 / 14CED24				
	BASIC ELECTRICAL ENGINEERING	14ELE15/ 14ELE25	√			
	BASIC ELECTRONICS	14ELN15 / 14ELN25	√			
	WORKSHOP PRACTICE	14WSL16/ 14WSL26				
	COMPUTER PROGRAMMING LABORATORY	14CPL16 / 14CPL26	√		√	
	LABORATORY EXPERIMENTS IN ENGINEERING	14PHYL17/14PHYL27				
	ENGINEERING CHEMISTRY LABORATORY	14CHEL17/14CHEL27				
	CONSTITUTION OF INDIA AND PROFESSIONAL	14CIP18/14CIP28				
	ENVIRONMENTAL STUDIES	14CIV18/14CIV28				
	ENGINEERING MATHEMATICS – II	14MAT21	√			
2ND YEAR	ENGINEERING MATHEMATICS-III	10MAT31	√		√	
	ELECTRONIC CIRCUITS	10CS32	√		√	
	LOGIC DESIGN	10CS33	√		√	
	DISCRETE MATHEMATICAL STRUCTURES	10CS34	√		√	
	DATA STRUCTURES WITH C	10CS35	√		√	
	OBJECT ORIENTED PROGRMMING WITH C++	10CS36	√		√	
	DATA STRUCTURES WITH C/C++ LABORATORY	10CSL37	√		√	
	ELECTRONIC CIRCUITS AND LOGIC DESIGN LABORATORY	10CSL38	√		√	
	ENGINEERING MATHEMATICS-IV	10MAT41	√		√	
	GRAPH THEORY AND COMBINATORICS	10CS42	√		√	
	DESIGN AND ANALYSIS OF ALGORITHM	10CS43	√		√	
	UNIX AND SHELL PROGRAMMING	10CS44	√		√	

	MICROPROCESSORS	10CS45	√		√	
	COMPUTER ORGANIZATION	10CS46	√		√	
	DESIGN AND ANALYSIS OF ALGORITHM LABORATORY	10CSL47	√		√	
	MICROPROCESSORS LABORATORY	10CSL48	√		√	
3RD YEAR	SOFTWARE ENGINEERING	10IS51	√		√	
	SYSTEMS SOFTWARE	10CS52				
	OPERATING SYSTEM	10CS53	√		√	
	DATABASE MANAGEMENT SYSTEMS	10CS54	√		√	
	COMPUTER NETORKS-I	10CS55	√		√	
	FORMAL LANGUAGES AND AUTOMATA THEORY	10CS56				
	DATABASE APPLICATIONS LABORATORY	10CSL57	√		√	√
	SYSTEMS SOFTWARE & OPERATING SYSTEM LABORATORY	10CSL58	√		√	
	MANAGEMENT AND ENTREPRENEURSHIP	10CS61				
	UNIX SYSTEM PROGRAMMING	10CS62	√		√	
	COMPILER DESIGN	10CS63	√		√	
	COMPUTR NETWORKS-II	10CS64	√		√	
	COMPUTER GRAPHICS AND VISUALIZATION	10CS65	√		√	
	OPERATIONS RESEARCH	10CS661				
	COMPUTER GRAPHICS AND VISUALIZATION LABORATORY	10CSL67	√		√	√
	UNIX SYSTEM PROGRAMMING AND COMPILER DESIGN	10CSL68	√		√	
4TH YEAR	OBJECT-ORIENTED MODELING AND DESIGN	10CS71				
	EMBEDDED COMPUTING SYSTEMS	10CS72	√		√	
	PROGRAMMING THE WEB	10CS73	√		√	
	ADVANCED COMPUTER ARCHITECTURES	10CS74				
	JAVA ANDJ2EE	10CS753	√		√	
	STORAGE AREA NETWORKS	10CS765				
	NETWORKS LABORATORY	10CSL77	√		√	
	WEB PROGRAMMING LABORATORY	10CSL78	√		√	√
	SOFTWARE ARCHITECTURES	10CS81				
	SYSTEM MODELING AND SIMULATION	10CS82	√		√	
	WIRELESS NETWORKS AND MOBILE COMPUTING	10CS831	√		√	

	AD-HOC NETWORKS	10CS841	√		√	
	PROJECT WORK	10CS85	√		√	
	SEMINAR	10CS86				

Madhushree
ACADEMIC COMMITTEE CONVENER

For HOD

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SAPTHAGIRI COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING AY: -2016-17

1.3.2.1: Number of courses that include experiential learning through project work/field work/internship/mini project

YEAR	COURSE NAME	COURSE CODE	PROJECT WORK	FIELD WORK	INTERNSHIP	MINI PROJECT
1ST YEAR	ENGINEERING MATHEMATICS-I	10MAT11	√			
	ENGINEERING PHYSICS	10PHY12/10PHY22				
	ENGINEERING CHEMISTRY	10CHE12/ 10CHE 22				
	ELEMENTS OF CIVIL ENGINEERING & ENGINEERING MECHANICS	10CIV13/10CIV23				
	COMPUTER CONCEPTS AND C PROGRAMMING	10CCP13/10CCP23	√		√	
	ELEMENTS OF MECHANICAL ENGINEERING	10EME14 / 10EME24				
	COMPUTER AIDED ENGINEERING DRAWING	10CED14 / 10CED24				
	BASIC ELECTRICAL ENGINEERING	10ELE15/ 10ELE25	√			
	BASIC ELECTRONICS	10ELN15 / 10ELN25	√			
	WORKSHOP PRACTICE	10WSL16/ 10WSL26				
	COMPUTER PROGRAMMING LABORATORY	10CPL16 / 10CPL26	√		√	
	LABORATORY EXPERIMENTS IN ENGINEERING	10PHYL17/10PHYL27				
	ENGINEERING CHEMISTRY LABORATORY	10CHEL17/10CHEL27				
	CONSTITUTION OF INDIA AND PROFESSIONAL	10CIP18/10CIP28				
	ENVIRONMENTAL STUDIES	10CIV18/10CIV28				
	ENGINEERING MATHEMATICS – II	10MAT21	√			
2ND YEAR	ENGINEERING MATHEMATICS-III	10MAT31	√		√	
	ELECTRONIC CIRCUITS	10CS32	√		√	
	LOGIC DESIGN	10CS33	√		√	
	DISCRETE MATHEMATICAL STRUCTURES	10CS34	√		√	
	DATA STRUCTURES WITH C	10CS35	√		√	
	OBJECT ORIENTED PROGRMMING WITH C++	10CS36	√		√	
	DATA STRUCTURES WITH C/C++ LABORATORY	10CSL37	√		√	
	ELECTRONIC CIRCUITS AND LOGIC DESIGN LABORATORY	10CSL38	√		√	
	ENGINEERING MATHEMATICS-IV	10MAT41	√		√	
	GRAPH THEORY AND COMBINATORICS	10CS42	√		√	
	DESIGN AND ANALYSIS OF ALGORITHM	10CS43	√		√	

	UNIX AND SHELL PROGRAMM G	10CS44	√		√	
	MICROPROCESSORS	10CS45	√		√	
	COMPUTER ORGANIZATION	10CS46	√		√	
	DESIGN AND ANALYSIS OF ALGORITHM LABORATORY	10CSL47	√		√	
	MICROPROCESSORS LABORATORY	10CSL48	√		√	
3RD YEAR	SOFTWARE ENGINEERING	10IS51	√		√	
	SYSTEMS SOFTWARE	10CS52				
	OPERATING SYSTEM	10CS53	√		√	
	DATABASE MANAGEMENT SYSTEMS	10CS54	√		√	
	COMPUTER NETORKS-I	10CS55	√		√	
	FORMAL LANGUAGES AND AUTOMATA THEORY	10CS56				
	DATABASE APPLICATIONS LABORATORY	10CSL57	√		√	√
	SYSTEMS SOFTWARE & OPERATING SYSTEM LABORATORY	10CSL58	√		√	
	MANAGEMENT AND ENTREPRENEURSHIP	10CS61				
	UNIX SYSTEM PROGRAMMING	10CS62	√		√	
	COMPILER DESIGN	10CS63	√		√	
	COMPUTR NETWORKS-II	10CS64	√		√	
	COMPUTER GRAPHICS AND VISUALIZATION	10CS65	√		√	
	OPERATIONS RESEARCH	10CS661				
	COMPUTER GRAPHICS AND VISUALIZATION LABORATORY	10CSL67	√		√	√
	UNIX SYSTEM PROGRAMMING AND COMPILER DESIGN	10CSL68	√		√	
4TH YEAR	OBJECT-ORIENTED MODELING AND DESIGN	10CS71				
	EMBEDDED COMPUTING SYSTEMS	10CS72	√		√	
	PROGRAMMING THE WEB	10CS73	√		√	
	ADVANCED COMPUTER ARCHITECTURES	10CS74				
	JAVA ANDJ2EE	10CS753	√		√	
	STORAGE AREA NETWORKS	10CS765				
	NETWORKS LABORATORY	10CSL77	√		√	
	WEB PROGRAMMING LABORATORY	10CSL78	√		√	√
	SOFTWARE ARCHITECTURES	10CS81				
	SYSTEM MODELING AND SIMULATION	10CS82	√		√	

	WIRELESS NETWORKS AND MOBILE COMPUTING	10CS831	√		√	
	AD-HOC NETWORKS	10CS841	√		√	
	PROJECT WORK	10CS85	√		√	
	SEMINAR	10CS86				

Madhushree

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Computer Science Engineering
Sapthagiri College of Engineering
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SAPTHAGIRI College of Engineering Creating Tomorrow

SAPTHAGIRI COLLEGE OF ENG.. 'EERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING AY: -2015-16

1.3.2.1: Number of courses that include experiential learning through project work/field work/internship/mini project

YEAR	COURSE NAME	COURSE CODE	PROJECT WORK	FIELD WORK	INTERNSHIP	MINI PROJECT
1ST YEAR	ENGINEERING MATHEMATICS-I	10MAT11	√			
	ENGINEERING PHYSICS	10PHY12/10PHY22				
	ENGINEERING CHEMISTRY	10CHE12/ 10CHE 22				
	ELEMENTS OF CIVIL ENGINEERING & ENGINEERING MECHANICS	10CIV13/10CIV23				
	COMPUTER CONCEPTS AND C PROGRAMMING	10CCP13/10CCP23	√		√	
	ELEMENTS OF MECHANICAL ENGINEERING	10EME14 / 10EME24				
	COMPUTER AIDED ENGINEERING DRAWING	10CED14 / 10CED24				
	BASIC ELECTRICAL ENGINEERING	10ELE15/ 10ELE25	√			
	BASIC ELECTRONICS	10ELN15 / 10ELN25	√			
	WORKSHOP PRACTICE	10WSL16/ 10WSL26				
	COMPUTER PROGRAMMING LABORATORY	10CPL16 / 10CPL26	√		√	
	LABORATORY EXPERIMENTS IN ENGINEERING	10PHYL17/10PHYL27				
	ENGINEERING CHEMISTRY LABORATORY	10CHEL17/10CHEL27				
	CONSTITUTION OF INDIA AND PROFESSIONAL	10CIP18/10CIP28				
	ENVIRONMENTAL STUDIES	10CIV18/10CIV28				
	ENGINEERING MATHEMATICS – II	10MAT21	√			
2ND YEAR	ENGINEERING MATHEMATICS-III	10MAT31	√		√	
	ELECTRONIC CIRCUITS	10CS32	√		√	
	LOGIC DESIGN	10CS33	√		√	
	DISCRETE MATHEMATICAL STRUCTURES	10CS34	√		√	
	DATA STRUCTURES WITH C	10CS35	√		√	
	OBJECT ORIENTED PROGRMMING WITH C++	10CS36	√		√	
	DATA STRUCTURES WITH C/C++ LABORATORY	10CSL37	√		√	
	ELECTRONIC CIRCUITS AND LOGIC DESIGN LABORATORY	10CSL38	√		√	
	ENGINEERING MATHEMATICS-IV	10MAT41	√		√	
	GRAPH THEORY AND COMBINATORICS	10CS42	√		√	
	DESIGN AND ANALYSIS OF ALGORITHM	10CS43	√		√	
	UNIX AND SHELL PROGRAMMING	10CS44	√		√	

	MICROPROCESSORS	10CS45	√		√	
	COMPUTER ORGANIZATION	10CS46	√		√	
	DESIGN AND ANALYSIS OF ALGORITHM LABORATORY	10CSL47	√		√	
	MICROPROCESSORS LABORATORY	10CSL48	√		√	
3RD YEAR	SOFTWARE ENGINEERING	10IS51	√		√	
	SYSTEMS SOFTWARE	10CS52				
	OPERATING SYSTEM	10CS53	√		√	
	DATABASE MANAGEMENT SYSTEMS	10CS54	√		√	
	COMPUTER NETORKS-I	10CS55	√		√	
	FORMAL LANGUAGES AND AUTOMATA THEORY	10CS56				
	DATABASE APPLICATIONS LABORATORY	10CSL57	√		√	√
	SYSTEMS SOFTWARE & OPERATING SYSTEM LABORATORY	10CSL58	√		√	
	MANAGEMENT AND ENTREPRENEURSHIP	10CS61				
	UNIX SYSTEM PROGRAMMING	10CS62	√		√	
	COMPILER DESIGN	10CS63	√		√	
	COMPUTR NETWORKS-II	10CS64	√		√	
	COMPUTER GRAPHICS AND VISUALIZATION	10CS65	√		√	
	OPERATIONS RESEARCH	10CS661				
	COMPUTER GRAPHICS AND VISUALIZATION LABORATORY	10CSL67	√		√	√
	UNIX SYSTEM PROGRAMMING AND COMPILER DESIGN	10CSL68	√		√	
4TH YEAR	OBJECT-ORIENTED MODELING AND DESIGN	10CS71				
	EMBEDDED COMPUTING SYSTEMS	10CS72	√		√	
	PROGRAMMING THE WEB	10CS73	√		√	
	ADVANCED COMPUTER ARCHITECTURES	10CS74				
	JAVA ANDJ2EE	10CS753	√		√	
	STORAGE AREA NETWORKS	10CS765				
	NETWORKS LABORATORY	10CSL77	√		√	
	WEB PROGRAMMING LABORATORY	10CSL78	√		√	√
	SOFTWARE ARCHITECTURES	10CS81				
	SYSTEM MODELING AND SIMULATION	10CS82	√		√	
	WIRELESS NETWORKS AND MOBILE COMPUTING	10CS831	√		√	

	AD-HOC NETWORKS	10CS841	√		√	
	PROJECT WORK	10CS85	√		√	
	SEMINAR	10CS86				

Madhushree

ACADEMIC COMMITTEE CONVENER

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SAPTHAGIRI COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING AY: -2014-15

1.3.2.1: Number of courses that include experiential learning through project work/field work/internship/mini project

YEAR	COURSE NAME	COURSE CODE	PROJECT WORK	FIELD WORK	INTERNSHIP	MINI PROJECT
1ST YEAR	ENGINEERING MATHEMATICS-I	10MAT11	√			
	ENGINEERING PHYSICS	10PHY12/10PHY22				
	ENGINEERING CHEMISTRY	10CHE12/ 10CHE 22				
	ELEMENTS OF CIVIL ENGINEERING & ENGINEERING MECHANICS	10CIV13/10CIV23				
	COMPUTER CONCEPTS AND C PROGRAMMING	10CCP13/10CCP23	√		√	
	ELEMENTS OF MECHANICAL ENGINEERING	10EME14 / 10EME24				
	COMPUTER AIDED ENGINEERING DRAWING	10CED14 / 10CED24				
	BASIC ELECTRICAL ENGINEERING	10ELE15/ 10ELE25	√			
	BASIC ELECTRONICS	10ELN15 / 10ELN25	√			
	WORKSHOP PRACTICE	10WSL16/ 10WSL26				
	COMPUTER PROGRAMMING LABORATORY	10CPL16 / 10CPL26	√		√	
	LABORATORY EXPERIMENTS IN ENGINEERING	10PHYL17/10PHYL27				
	ENGINEERING CHEMISTRY LABORATORY	10CHEL17/10CHEL27				
	CONSTITUTION OF INDIA AND PROFESSIONAL	10CIP18/10CIP28				
	ENVIRONMENTAL STUDIES	10CIV18/10CIV28				
	ENGINEERING MATHEMATICS – II	10MAT21	√			
2ND YEAR	ENGINEERING MATHEMATICS-III	10MAT31	√		√	
	ELECTRONIC CIRCUITS	10CS32	√		√	
	LOGIC DESIGN	10CS33	√		√	
	DISCRETE MATHEMATICAL STRUCTURES	10CS34	√		√	
	DATA STRUCTURES WITH C	10CS35	√		√	
	OBJECT ORIENTED PROGRMMING WITH C++	10CS36	√		√	
	DATA STRUCTURES WITH C/C++ LABORATORY	10CSL37	√		√	
	ELECTRONIC CIRCUITS AND LOGIC DESIGN LABORATORY	10CSL38	√		√	
	ENGINEERING MATHEMATICS-IV	10MAT41	√		√	
	GRAPH THEORY AND COMBINATORICS	10CS42	√		√	
	DESIGN AND ANALYSIS OF ALGORITHM	10CS43	√		√	

	UNIX AND SHELL PROGRAMMING	10CS44	√		√	
	MICROPROCESSORS	10CS45	√		√	
	COMPUTER ORGANIZATION	10CS46	√		√	
	DESIGN AND ANALYSIS OF ALGORITHM LABORATORY	10CSL47	√		√	
	MICROPROCESSORS LABORATORY	10CSL48	√		√	
3RD YEAR	SOFTWARE ENGINEERING	10IS51	√		√	
	SYSTEMS SOFTWARE	10CS52				
	OPERATING SYSTEM	10CS53	√		√	
	DATABASE MANAGEMENT SYSTEMS	10CS54	√		√	
	COMPUTER NETORKS-I	10CS55	√		√	
	FORMAL LANGUAGES AND AUTOMATA THEORY	10CS56				
	DATABASE APPLICATIONS LABORATORY	10CSL57	√		√	√
	SYSTEMS SOFTWARE & OPERATING SYSTEM LABORATORY	10CSL58	√		√	
	MANAGEMENT AND ENTREPRENEURSHIP	10CS61				
	UNIX SYSTEM PROGRAMMING	10CS62	√		√	
	COMPILER DESIGN	10CS63	√		√	
	COMPUTR NETWORKS-II	10CS64	√		√	
	COMPUTER GRAPHICS AND VISUALIZATION	10CS65	√		√	
	OPERATIONS RESEARCH	10CS661				
	COMPUTER GRAPHICS AND VISUALIZATION LABORATORY	10CSL67	√		√	√
	UNIX SYSTEM PROGRAMMING AND COMPILER DESIGN	10CSL68	√		√	
4TH YEAR	OBJECT-ORIENTED MODELING AND DESIGN	10CS71				
	EMBEDDED COMPUTING SYSTEMS	10CS72	√		√	
	PROGRAMMING THE WEB	10CS73	√		√	
	ADVANCED COMPUTER ARCHITECTURES	10CS74				
	JAVA ANDJ2EE	10CS753	√		√	
	STORAGE AREA NETWORKS	10CS765				
	NETWORKS LABORATORY	10CSL77	√		√	
	WEB PROGRAMMING LABORATORY	10CSL78	√		√	√
	SOFTWARE ARCHITECTURES	10CS81				
	SYSTEM MODELING AND SIMULATION	10CS82	√		√	

	WIRELESS NETWORKS AND MOBILE COMPUTING	10CS831	√		√	
	AD-HOC NETWORKS	10CS841	√		√	
	PROJECT WORK	10CS85	√		√	
	SEMINAR	10CS86				

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Department of Civil Engineering

1.3.2.1: Number of courses that include experiential learning through project work/field work/internship 2018-2019

YEAR	COURSE NAME	COURSE CODE	PROJECT	FIELD WORK	INTERNSHIP
1ST YEAR	ENGINEERING MATHEMATICS-I	15MAT11	√	√	√
	ENGINEERING PHYSICS	15PHY12/15PHY22	√		
	ENGINEERING CHEMISTRY	15CHE12/ 15CHE22	√		√
	ELEMENTS OF CIVIL ENGINEERING & ENGINEERING MECHANICS	15CIV13/15CIV23	√		
	PROGRAMMING IN C AND DATA STRUCTURES	15PCD13/15PCD23			
	ELEMENTS OF MECHANICAL ENGINEERING	15EME14 / 15EME24			
	COMPUTER AIDED ENGINEERING DRAWING	15CED14 / 15CED24	√		
	BASIC ELECTRICAL ENGINEERING	15ELE15/ 15ELE25			
	BASIC ELECTRONICS	15ELN15 / 15ELN25			
	WORKSHOP PRACTICE	15WSL16/ 15WSL26			
	COMPUTER PROGRAMMING LABORATORY	15CPL16 / 15CPL26			
	LABORATORY EXPERIMENTS IN ENGINEERING PHYSICS	15PHYL17/15PHYL27			
	ENGINEERING CHEMISTRY LABORATORY	15CHEL17/15CHEL27	√		√
	CONSTITUTION OF INDIA AND PROFESSIONAL ETHICS	15CPD18/15CPD28			
	ENVIRONMENTAL STUDIES	15CIV18/15CIV28	√		
	KANNADA LANGUAGE	15KM/KK18/15KM/KK28			
	ENGLISH LANGUAGE	15ENG18/15ENG28			
	ENGINEERING MATHEMATICS – II	15MAT21	√	√	√
2ND YEAR	ENGINEERING MATHEMATICS – III	15MAT31	√	√	√
	STRENGTH OF MATERIALS	15CV32	√	√	√
	FLUIDS MECHANICS	15CV33			
	BASIC SURVEYING	15CV34		√	
	ENGINEERING GEOLOGY	15CV35		√	
	BUILDING MATERIALS AND CONSTRUCTION	15CV36	√	√	√
	MATERIALS TESTING LABORATORY	15CVL37	√	√	√
	BASIC SURVEYING PRACTICE	15CVL38		√	
	ENGINEERING MATHEMATICS – IV	15MAT41	√	√	√
	ANALYSIS OF DETERMINATE STRUCTURES	15CV42	√		√
	APPLIED HYDRAULICS	15CV43			

Department of Civil Engineering

1.3.2.1: Number of courses that include experiential learning through project work/field work/internship

	CONCRETE TECHNOLOGY	15CV44	√	√	√
	BASIC GEOTECHNICAL ENGINEERING	15CV45	√	√	√
	ADVANCED SURVEYING	15CV46		√	
	FLUID MECHANICS LABORATORY	15CVL47			
	ENGINEERING GEOLOGY LABORATORY	15CVL48		√	
3RD YEAR	DESIGN OF RC STRUCTURAL ELEMENTS	15CV51	√	√	√
	ANALYSIS OF INDETERMINATE STRUCTURES	15CV52	√	√	√
	APPLIED GEOTECHNICAL ENGINEERING	15CV53	√	√	√
	COMPUTER AIDED BUILDING PLANNING AND DRAWING	15CV54	√	√	√
	RAILWAYS, HARBOUR, TUNNELLING AND AIRPORTS (ELECTIVE)	15CV552		√	
	TRAFFIC ENGINEERING (ELECTIVE)	15CV561	√	√	√
	GEOTECHNICAL ENGINEERING LAB	15CVL57	√	√	√
	CONCRETE AND HIGHWAY MATERIALS LABORATORY	15CVL58	√	√	√
	CONSTRUCTION MANAGEMENT AND ENTREPRENEURSHIP	15CV61	√	√	√
	DESIGN OF STEEL STRUCTURAL ELEMENTS	15CV62	√	√	√
	HIGHWAY ENGINEERING	15CV63	√	√	√
	WATER SUPPLY AND TREATMENT ENGINEERING	15CV64	√	√	√
	SOLID WASTE MANAGEMENT (ELECTIVE)	15CV651	√		√
	WATER RESOURCES MANAGEMENT (ELECTIVE)	15CV661	√	√	√
	SOFTWARE APPLICATION LAB	15CVL67	√	√	√
	EXTENSIVE SURVEY PROJECT /CAMP	15CVP68	√	√	√
4TH YEAR	MUNICIPAL AND INDUSTRIAL WASTE WATER ENGINEERING	15CV71	√	√	√
	DESIGN OF RCC AND STEEL STRUCTURES	15CV72	√	√	√
	HYDROLOGY AND IRRIGATION ENGINEERING	15CV73	√	√	√
	DESIGN OF BRIDGES	15CV741	√	√	√
	GROUND WATER AND HYDRALUICS	15CV742		√	
	URBAN TRANSPORTATION AND PLANNING	15CV751	√	√	√
	ENVIRONMENTAL ENGINEERING LABORATORY	15CVL76	√	√	√
	COMPUTER AIDED DETAILING OF STRUCTURES	15CVL77	√	√	√
	PROJECT PHASE I +PROJECT SEMINAR	15CVL78	√	√	√
	QUANTITY SURVEYING AND CONTRACTS MANAGEMENT	15CV81	√	√	√

Department of Civil Engineering

1.3.2.1: Number of courses that include experiential learning through project work/field work/internship

	DESIGN OF PRE STRESSED CONCRETE ELEMENTS	15CV82	√	√	√
	PAVEMENT DESIGN	15CV833	√	√	√
	INTERNSHIP/PROFESSIONAL PRACTICE	15CV84	√	√	√
	PROJECT WORK	15CVP85	√	√	√
	SEMINAR ON CURRENT TRENDS IN ENGINEERING AND TECHNOLOGY	15CVS86			

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Department of Civil Engineering

1.3.2.1: Number of courses that include experiential learning through project work/field work/internship 2017-2018

YEAR	COURSE NAME	COURSE CODE	PROJECT WORK	FIELD WORK	INTERNSHIP
1ST YEAR	ENGINEERING MATHEMATICS-I	10MAT11	√	√	√
	ENGINEERING PHYSICS	10PHY12/10PHY22	√		
	ENGINEERING CHEMISTRY	10CHE12/ 10CHE22	√		√
	ELEMENTS OF CIVIL ENGINEERING & ENGINEERING MECHANICS	10CIV13/10CIV23	√		
	COMPUTER CONCEPTS AND C PROGRAMMING	10CCP13/10CCP23			
	ELEMENTS OF MECHANICAL ENGINEERING	10EME14 / 10EME24			
	COMPUTER AIDED ENGINEERING DRAWING	10CED14 / 10CED24	√		
	BASIC ELECTRICAL ENGINEERING	10ELE15/ 10ELE25			
	BASIC ELECTRONICS	10ELN15 / 10ELN25			
	WORKSHOP PRACTICE	10WSL16/ 10WSL26			
	COMPUTER PROGRAMMING LABORATORY	10CPL16 / 10CPL26			
	LABORATORY EXPERIMENTS IN ENGINEERING PHYSICS	10PHYL17/10PHYL27			
	ENGINEERING CHEMISTRY LABORATORY	10CHEL17/10CHEL27	√		√
	CONSTITUTION OF INDIA AND PROFESSIONAL ETHICS	10CIP18/10CIP28			
	ENVIRONMENTAL STUDIES	10CIV18/10CIV28	√		
	ENGINEERING MATHEMATICS – II	10MAT21	√	√	√
2ND YEAR	ENGINEERING MATHEMATICS – III	10MAT31	√	√	√
	BUILDING MATERIALS AND CONSTRUCTION TECHNOLOGY	10CV32	√		
	STRENGTH OF MATERIALS	10CV33	√		
	SURVEYING – I	10CV34		√	√
	FLUID MECHANICS	10CV35			
	APPLIED ENGINEERING GEOLOGY	10CV36		√	
	BASIC MATERIAL TESTING LAB	10CVL37	√		
	SURVEYING PRACTICE – I	10CVL38		√	
	ENGINEERING MATHEMATICS – IV	10MAT41	√	√	√
	CONCRETE TECHNOLOGY	10CV42	√		√
	STRUCTURAL ANALYSIS –I	10CV43	√	√	√

Department of Civil Engineering

1.3.2.1: Number of courses that include experiential learning through project work/field work/internship

	SURVEYING – II	10CV44		√	
	HYDRAULICS & HYDRAULIC MACHINES	10CV45			
	BUILDING PLANNING AND DRAWING	10CV46		√	
	SURVEYING PRACTICE – II LABORATORY	10CVL47		√	
	APPLIED ENGINEERING GEOLOGY LABORATORY	10CVL48		√	
3RD YEAR	MANAGEMENT & ENTREPRENEURSHIP	10AL51	√		√
	DESIGN OF RCC STRUCTURAL ELEMENTS	10CV52	√	√	√
	STRUCTURAL ANALYSIS – II	10CV53	√	√	√
	GEOTECHNICAL ENGINEERING – I	10CV54	√	√	√
	HYDROLOGY AND IRRIGATION ENGINEERING	10CV55		√	
	TRANSPORTATION ENGINEERING I	10CV56	√	√	√
	HYDRAULICS AND HYDRAULICS MACHINERY LABORATORY	10CVL57			
	COMPUTER AIDED DESIGN LABORATORY	10CVL58	√	√	√
	ENVIRONMENTAL ENGINEERING-I	10CV61	√	√	√
	DESIGN & DRAWING OF RC STRUCTURES	10CV62	√		√
	TRANSPORTATION ENGINEERING II	10CV63	√	√	√
	GEOTECHNICAL ENGINEERING – II	10CV64	√	√	√
	HYDRAULIC STRUCTURES & IRRIGATION DESIGN-DRAWING	10CV65	√	√	√
	RURAL WATER SUPPLY AND SANITATION	10CV666	√	√	√
	GEOTECHNICAL ENGINEERING LABORATORY	10CVL67	√	√	√
	EXTENSIVE SURVEY VIVA - VOCE	10CVP68	√	√	√
4TH YEAR	ENVIRONMENTAL ENGINEERING – II	10CV71	√	√	√
	DESIGN OF STEEL STRUCTURES	10CV72	√		√
	ESTIMATION & VALUATION	10CV73	√		√
	DESIGN OF PRE-STRESSED CONCRETE STRUCTURES	10CV74	√		√
	HIGHWAY GEOMETRIC DESIGN	10CV755	√	√	√
	SOLID WASTE MANAGEMENT	10CV757	√		√
	ENVIRONMENTAL ENGINEERING LABORATORY	10CVL77	√		√
	CONCRETE AND HIGHWAY MATERIALS LABORATORY	10CVL78	√	√	√

Department of Civil Engineering

1.3.2.1: Number of courses that include experiential learning through project work/field work/internship

	ADVANCED CONCRETE TECHNOLOGY	10CV81	√	√	√
	DESIGN AND DRAWING OF STEEL STRUCTURES	10CV82	√	√	
	PAVEMENT DESIGN (ELECTIVE)	10CV833	√	√	√
	URBAN TRANSPORT PLANNING (ELECTIVE)	10CV843	√	√	√
	PROJECT WORK	10CV85	√	√	√
	SEMINAR	10CV86			

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SAPTHAGIRI COLLEGE OF ENGINEERING

Department of ECE - AY 2018 -19

1.3.2.1: Number of courses that include experiential learning through project work/field work/internship/mini project

YEAR	COURSE NAME	COURSE CODE	PROJECT WORK	FIELD WORK	INTERNSHIP	MINI PROJECT
1	ENGINEERING MATHEMATICS-I	15MAT11	√			
	ENGINEERING PHYSICS	15PHY12/15PHY22				
	ENGINEERING CHEMISTRY	15CHE12/ 15CHE 22				
	ELEMENTS OF CIVIL ENGINEERING & ENGINEERING MECHANICS	15CIV13/15CIV23				
	COMPUTER CONCEPTS AND C PROGRAMMING	15CCP13/15CCP23	√			
	ELEMENTS OF MECHANICAL ENGINEERING	15EME14 / 15EME24				
	COMPUTER AIDED ENGINEERING DRAWING	15CED14 / 15CED24				
	BASIC ELECTRICAL ENGINEERING	15ELE15/ 15ELE25	√			
	BASIC ELECTRONICS	15ELN15 / 15ELN25	√			
	WORKSHOP PRACTICE	15WSL16/ 15WSL26				
	COMPUTER PROGRAMMING LABORATORY	15CPL16 / 15CPL26	√			
	LABORATORY EXPERIMENTS IN ENGINEERING PHYSICS	15PHYL17/15PHYL27				
	ENGINEERING CHEMISTRY LABORATORY	15CHEL17/15CHEL27				
	CONSTITUTION OF INDIA AND PROFESSIONAL ETHICS	15CIP18/15CIP28				
	ENVIRONMENTAL STUDIES	15CIV18/15CIV28				
	ENGINEERING MATHEMATICS – II	15MAT21	√			
	ENGINEERING MATHEMATICS – III	15MAT31	√			
	ANALOG ELECTRONICS	15EC32	√			

2	DIGITAL ELECTRONICS	15EC33	√			
	NETWORK ANALYSIS	15EC34				
	ELECTRONIC INSTRUMENTATION	15EC35	√			
	ENGINEERING ELECTROMAGNETICS	15EC36	√			
	ANALOG ELECTRONICS LAB	15ECL37	√			
	DIGITAL ELECTRONICS LAB	15ECL38	√			
	ENGINEERING MATHEMATICS – IV	15MAT41	√			
	MICROPROCESSOR	15EC42	√			
	CONTROL SYSTEMS	15EC43	√			
	SIGNALS AND SYSTEMS	15EC44	√			
	PRINCIPLES OF COMMUNICATION SYSTEMS	15EC45				
	LINEAR INTEGRATED CIRCUITS	15EC46	√			
	LIC AND COMMUNICATION LAB	15ECL47	√			
	MICROPROCESSOR LAB	15ECL48				
3	MANAGEMENT & ENTREPRENEURSHIP DEVELOPMENT	15ES51	√			
	DIGITAL SIGNAL PROCESSING	15EC52	√			
	VERILOG HDL	15EC53				
	INFORMATION THEORY AND CODING	15EC54				
	OPERATING SYSTEMS	15EC553				
	OBJECT ORIENTED PROGRAMMING USING C++	15EC562				
	DSP LAB	15ECL57				
	HDL LAB	15ECL58				
	DIGITAL COMMUNICATION	15EC61	√			
	ARM MICROCONTROLLER AND EMBEDDED SYSTEMS	15EC62	√			
	VLSI DESIGN	15EC63				
	COMPUTER COMMUNICATION NETWORKS	15EC64	√			

	CELLULAR MOBILE COMMUNICATION	15EC651	√			
	DIGITAL SWITCHING SYSTEMS	15EC654	√			
	DIGITAL SYSTEM DESIGN USING VERILOG	15EC663				
	EMBEDDED CONTROLLER LAB	15ECL67				
	COMPUTER NETWORKS LAB	15ECL68				
4	MICROWAVE AND ANTENNAS	15EC71				
	DIGITAL IMAGE PROCESSING	15EC72	√			
	POWER ELECTRONICS	15EC73				
	MULTIMEDIA COMMUNICATION	15EC741	√			
	DSP ALGORITHMS AND ARCHITECTURE	15EC751	√			
	ADVANCED COMMUNICATION LAB	15ECL76				
	VLSI LAB	15ECL77				
	PROJECT WORK PHASE 1+ PROJECT WORK SEMINAR	15ECP78				
	WIRELESS CELLULAR AND LTE 4G BROADBAND	15EC81				
	FIBER OPTICS AND NETWORKS	15EC82	√			
	MACHINE LEARNING	15EC834	√			
	NETWORK AND CYBER SECURITY	15EC835	√			
	INTERNSHIP/PROFESSIONAL PRACTICE	15EC84				
	NETWORK AND CYBER SECURITY	15EC836				
	PROJECT WORK	10ECP85				
	SEMINAR	10ECS86				

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SAPTHAGIRI COLLEGE OF ENGINEERING

Department of ECE - AY 2017 -18

1.3.2.1: Number of courses that include experiential learning through project work/field work/internship/mini project

YEAR	COURSE NAME	COURSE CODE	PROJECT WORK	FIELD WORK	INTERNSHIP	MINI PROJECT
1	ENGINEERING MATHEMATICS-I	10MAT11	√			
	ENGINEERING PHYSICS	10PHY12/10PHY22				
	ENGINEERING CHEMISTRY	10CHE12/ 10CHE 22				
	ELEMENTS OF CIVIL ENGINEERING & ENGINEERING MECHANICS	10CIV13/10CIV23				
	COMPUTER CONCEPTS AND C PROGRAMMING	10CCP13/10CCP23	√			
	ELEMENTS OF MECHANICAL ENGINEERING	10EME14 / 10EME24				
	COMPUTER AIDED ENGINEERING DRAWING	10CED14 / 10CED24				
	BASIC ELECTRICAL ENGINEERING	10ELE15/ 10ELE25	√			
	BASIC ELECTRONICS	10ELN15 / 10ELN25	√			
	WORKSHOP PRACTICE	10WSL16/ 10WSL26				
	COMPUTER PROGRAMMING LABORATORY	10CPL16 / 10CPL26	√			
	LABORATORY EXPERIMENTS IN ENGINEERING PHYSICS	10PHYL17/10PHYL27				
	ENGINEERING CHEMISTRY LABORATORY	10CHEL17/10CHEL27				
	CONSTITUTION OF INDIA AND PROFESSIONAL ETHICS	10CIP18/10CIP28				
	ENVIRONMENTAL STUDIES	10CIV18/10CIV28				
	ENGINEERING MATHEMATICS – II	10MAT21	√			
	ENGINEERING MATHEMATICS – III	10MAT31	√			

	ANALOG ELECTRONIC CIRCUITS	10EC32	√			
	LOGIC DESIGN	10EC33	√			
	NETWORK ANALYSIS	10EC34				
	ELECTRONIC INSTRUMENTATION	10EC35	√			
	FIELD THEORY	10EC36	√			
	ANALOG ELECTRONICS LAB	10ESL37	√			
2	LOGIC DESIGN LAB	10ESL38	√			
	ENGINEERING MATHEMATICS – IV	10MAT41	√			
	MICROCONTROLLERS	10EC42	√			
	CONTROL SYSTEMS	10EC43	√			
	SIGNALS AND SYSTEMS	10EC44	√			
	FUNDAMENTALS OF HDL	10EC45				
	LINEAR ICS AND APPLICATIONS	10EC46	√			
	MICROCONTROLLERS LAB	10ESL47	√			
	HDL LAB	10ESL48				
	MANAGEMENT & ENTREPRENEURSHIP	10AL51	√			
	DIGITAL SIGNAL PROCESSING	10EC52	√			
	ANALOG COMMUNICATION	10EC53	√			
	MICROWAVES AND RADAR	10EC54				
	INFORMATION THEORY AND CODING	10EC55				
	FUNDAMENTALS OF CMOS VLSI	10EC56				
	DSP LAB	10ECL57	√			
	ANALOG COMMUNICATION + LIC LAB	10ECL58	√			
3	DIGITAL COMMUNICATION	10EC61	√			
	MICROPROCESSOR	10EC62	√			
	MICROELECTRONIC CIRCUITS	10EC63				
	ANTENNAS AND PROPAGATION	10EC64				
	OPERATING SYSTEMS	10EC65				
	ANALOG AND MIXED MODE VLSI DESIGN	10EC661				

SATELLITE COMMUNICTAION	10EC662				
DATA STRUCTURES USING C++	10EC665				
ADVANCED COMMUNICATION LAB	10ECL67	√			
MOCROPROCESSOR LAB	10ECL68	√			
COMPUTER COMMUNICATION NETWORKS	10EC71	√			
OPTICAL FIBRE COMMUNICATION	10EC72	√			
POWER ELECTRONICS	10EC73				
EMBEDDED SYSTEM DESIGN	10EC74	√			
DSP ALGORITHMS AND ARCHITECTURE	10EC751				
IMAGE PROCESSING	10EC763				
VLSI LAB	10EC77				
POWER ELECTRONICS LAB	10EC78				
WIRELESS COMMUNICATION	10EC81	√			
DIGITAL SWITCHING SYSTEMS	10EC82				
NETWORK SECURITY	10EC832				
MULTIMEDIA COMMUNICATION	10EC841	√			
PROJECT WORK	10ECP85	√			
TECHNICAL SEMINAR	10ECS86				

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SAPTHAGIRI COLLEGE OF ENGINEERING

Department of ECE - AY 2016 -17

1.3.2.1: Number of courses that include experiential learning through project work/field work/internship/mini project

YEAR	COURSE NAME	COURSE CODE	PROJECT WORK	FIELD WORK	INTERNSHIP	MINI PROJECT
1	ENGINEERING MATHEMATICS-I	10MAT11	√			
	ENGINEERING PHYSICS	10PHY12/10PHY22				
	ENGINEERING CHEMISTRY	10CHE12/ 10CHE 22				
	ELEMENTS OF CIVIL ENGINEERING & ENGINEERING MECHANICS	10CIV13/10CIV23				
	COMPUTER CONCEPTS AND C PROGRAMMING	10CCP13/10CCP23	√			
	ELEMENTS OF MECHANICAL ENGINEERING	10EME14 / 10EME24				
	COMPUTER AIDED ENGINEERING DRAWING	10CED14 / 10CED24				
	BASIC ELECTRICAL ENGINEERING	10ELE15/ 10ELE25	√			
	BASIC ELECTRONICS	10ELN15 / 10ELN25	√			
	WORKSHOP PRACTICE	10WSL16/ 10WSL26				
	COMPUTER PROGRAMMING LABORATORY	10CPL16 / 10CPL26	√			
	LABORATORY EXPERIMENTS IN ENGINEERING PHYSICS	10PHYL17/10PHYL27				
	ENGINEERING CHEMISTRY LABORATORY	10CHEL17/10CHEL27				
	CONSTITUTION OF INDIA AND PROFESSIONAL ETHICS	10CIP18/10CIP28				
	ENVIRONMENTAL STUDIES	10CIV18/10CIV28				
	ENGINEERING MATHEMATICS – II	10MAT21	√			
	ENGINEERING MATHEMATICS – III	10MAT31	√			
	ANALOG ELECTRONIC CIRCUITS	10EC32	√			

	LOGIC DESIGN	10EC33	√			
	NETWORK ANALYSIS	10EC34				
	ELECTRONIC INSTRUMENTATION	10EC35	√			
	FIELD THEORY	10EC36				
	ANALOG ELECTRONICS LAB	10ESL37	√			
	LOGIC DESIGN LAB	10ESL38	√			
2	ENGINEERING MATHEMATICS – IV	10MAT41	√			
	MICROCONTROLLERS	10EC42	√			
	CONTROL SYSTEMS	10EC43	√			
	SIGNALS AND SYSTEMS	10EC44	√			
	FUNDAMENTALS OF HDL	10EC45				
	LINEAR ICS AND APPLICATIONS	10EC46	√			
	MICROCONTROLLERS LAB	10ESL47	√			
	HDL LAB	10ESL48	√			
	MANAGEMENT & ENTREPRENEURSHIP	10AL51	√			
	DIGITAL SIGNAL PROCESSING	10EC52	√			
	ANALOG COMMUNICATION	10EC53	√			
	MICROWAVES AND RADAR	10EC54	√			
	INFORMATION THEORY AND CODING	10EC55				
	FUNDAMENTALS OF CMOS VLSI	10EC56	√			
	DSP LAB	10ECL57	√			
	ANALOG COMMUNICATION + LIC LAB	10ECL58	√			
3	DIGITAL COMMUNICATION	10EC61	√			
	MICROPROCESSOR	10EC62	√			
	MICROELECTRONIC CIRCUITS	10EC63				
	ANTENNAS AND PROPAGATION	10EC64				
	OPERATING SYSTEMS	10EC65				
	ANALOG AND MIXED MODE VLSI DESIGN	10EC661	√			
	SATELLITE COMMUNICTAION	10EC662	√			

	DATA STRUCTURES USING C++	10EC665				
	ADVANCED COMMUNICATION LAB	10ECL67	√			
	MOCROPROCESSOR LAB	10ECL68	√			
	COMPUTER COMMUNICATION NETWORKS	10EC71	√			
	OPTICAL FIBRE COMMUNICATION	10EC72	√			
	POWER ELECTRONICS	10EC73				
	EMBEDDED SYSTEM DESIGN	10EC74	√			
	DSP ALGORITHMS AND ARCHITECTURE	10EC751	√			
4	IMAGE PROCESSING	10EC763	√			
	VLSI LAB	10EC77	√			
	POWER ELECTRONICS LAB	10EC78	√			
	WIRELESS COMMUNICATION	10EC81	√			
	DIGITAL SWITCHING SYSTEMS	10EC82	√			
	NETWORK SECURITY	10EC832	√			
	MULTIMEDIA COMMUNICATION	10EC841	√			
	PROJECT WORK	10ECP85	√			
	TECHNICAL SEMINAR	10ECS86				

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SAPTHAGIRI COLLEGE OF ENGINEERING

Department of ECE - AY 2015 -16

1.3.2.1: Number of courses that include experiential learning through project work/field work/internship/mini project

YEAR	COURSE NAME	COURSE CODE	PROJECT WORK	FIELD WORK	INTERNSHIP	MINI PROJECT
1	ENGINEERING MATHEMATICS-I	10MAT11	√			
	ENGINEERING PHYSICS	10PHY12/10PHY22				
	ENGINEERING CHEMISTRY	10CHE12/ 10CHE 22				
	ELEMENTS OF CIVIL ENGINEERING & ENGINEERING MECHANICS	10CIV13/10CIV23				
	COMPUTER CONCEPTS AND C PROGRAMMING	10CCP13/10CCP23	√			
	ELEMENTS OF MECHANICAL ENGINEERING	10EME14 / 10EME24				
	COMPUTER AIDED ENGINEERING DRAWING	10CED14 / 10CED24				
	BASIC ELECTRICAL ENGINEERING	10ELE15/ 10ELE25	√			
	BASIC ELECTRONICS	10ELN15 / 10ELN25	√			
	WORKSHOP PRACTICE	10WSL16/ 10WSL26				
	COMPUTER PROGRAMMING LABORATORY	10CPL16 / 10CPL26	√			
	LABORATORY EXPERIMENTS IN ENGINEERING PHYSICS	10PHYL17/10PHYL27				
	ENGINEERING CHEMISTRY LABORATORY	10CHEL17/10CHEL27				
	CONSTITUTION OF INDIA AND PROFESSIONAL ETHICS	10CIP18/10CIP28				
	ENVIRONMENTAL STUDIES	10CIV18/10CIV28				
	ENGINEERING MATHEMATICS – II	10MAT21	√			
	ENGINEERING MATHEMATICS – III	10MAT31	√			
	ANALOG ELECTRONIC CIRCUITS	10EC32	√			

	LOGIC DESIGN	10EC33	√			
	NETWORK ANALYSIS	10EC34				
	ELECTRONIC INSTRUMENTATION	10EC35	√			
	FIELD THEORY	10EC36				
	ANALOG ELECTRONICS LAB	10ESL37	√			
2	LOGIC DESIGN LAB	10ESL38	√			
	ENGINEERING MATHEMATICS – IV	10MAT41	√			
	MICROCONTROLLERS	10EC42	√			
	CONTROL SYSTEMS	10EC43				
	SIGNALS AND SYSTEMS	10EC44				
	FUNDAMENTALS OF HDL	10EC45				
	LINEAR ICS AND APPLICATIONS	10EC46	√			
	MICROCONTROLLERS LAB	10ESL47	√			
	HDL LAB	10ESL48	√			
	MANAGEMENT & ENTREPRENEURSHIP	10AL51	√			
	DIGITAL SIGNAL PROCESSING	10EC52	√			
	ANALOG COMMUNICATION	10EC53				
	MICROWAVES AND RADAR	10EC54				
	INFORMATION THEORY AND CODING	10EC55				
	FUNDAMENTALS OF CMOS VLSI	10EC56	√			
	DSP LAB	10ECL57	√			
	ANALOG COMMUNICATION + LIC LAB	10ECL58	√			
3	DIGITAL COMMUNICATION	10EC61	√			
	MICROPROCESSOR	10EC62	√			
	MICROELECTRONIC CIRCUITS	10EC63				
	ANTENNAS AND PROPAGATION	10EC64				
	OPERATING SYSTEMS	10EC65				
	ANALOG AND MIXED MODE VLSI DESIGN	10EC661	√			
	SATELLITE COMMUNICTAION	10EC662				

DATA STRUCTURES USING C++	10EC665				
ADVANCED COMMUNICATION LAB	10ECL67				
MOCROPROCESSOR LAB	10ECL68	√			
COMPUTER COMMUNICATION NETWORKS	10EC71	√			
OPTICAL FIBRE COMMUNICATION	10EC72	√			
POWER ELECTRONICS	10EC73				
EMBEDDED SYSTEM DESIGN	10EC74	√			
DSP ALGORITHMS AND ARCHITECTURE	10EC751	√			
IMAGE PROCESSING	10EC763	√			
VLSI LAB	10EC77	√			
POWER ELECTRONICS LAB	10EC78	√			
WIRELESS COMMUNICATION	10EC81	√			
DIGITAL SWITCHING SYSTEMS	10EC82	√			
NETWORK SECURITY	10EC832	√			
MULTIMEDIA COMMUNICATION	10EC841	√			
PROJECT WORK	10ECP85	√			
TECHNICAL SEMINAR	10ECS86				

4

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SAPTHAGIRI COLLEGE OF ENGINEERING

Department of ECE - AY 2014 -15

1.3.2.1: Number of courses that include experiential learning through project work/field work/internship/mini project

YEAR	COURSE NAME	COURSE CODE	PROJECT WORK	FIELD WORK	INTERNSHIP	MINI PROJECT
1	ENGINEERING MATHEMATICS-I	10MAT11	√			
	ENGINEERING PHYSICS	10PHY12/10PHY22				
	ENGINEERING CHEMISTRY	10CHE12/ 10CHE 22				
	ELEMENTS OF CIVIL ENGINEERING & ENGINEERING MECHANICS	10CIV13/10CIV23				
	COMPUTER CONCEPTS AND C PROGRAMMING	10CCP13/10CCP23	√			
	ELEMENTS OF MECHANICAL ENGINEERING	10EME14 / 10EME24				
	COMPUTER AIDED ENGINEERING DRAWING	10CED14 / 10CED24				
	BASIC ELECTRICAL ENGINEERING	10ELE15/ 10ELE25	√			
	BASIC ELECTRONICS	10ELN15 / 10ELN25	√			
	WORKSHOP PRACTICE	10WSL16/ 10WSL26				
	COMPUTER PROGRAMMING LABORATORY	10CPL16 / 10CPL26	√			
	LABORATORY EXPERIMENTS IN ENGINEERING PHYSICS	10PHYL17/10PHYL27				
	ENGINEERING CHEMISTRY LABORATORY	10CHEL17/10CHEL27				
	CONSTITUTION OF INDIA AND PROFESSIONAL ETHICS	10CIP18/10CIP28				
	ENVIRONMENTAL STUDIES	10CIV18/10CIV28				
	ENGINEERING MATHEMATICS – II	10MAT21	√			
	ENGINEERING MATHEMATICS – III	10MAT31	√			
	ANALOG ELECTRONIC CIRCUITS	10EC32	√			

	LOGIC DESIGN	10EC33	√			
	NETWORK ANALYSIS	10EC34				
	ELECTRONIC INSTRUMENTATION	10EC35	√			
	FIELD THEORY	10EC36				
	ANALOG ELECTRONICS LAB	10ESL37	√			
2	LOGIC DESIGN LAB	10ESL38	√			
	ENGINEERING MATHEMATICS – IV	10MAT41	√			
	MICROCONTROLLERS	10EC42	√			
	CONTROL SYSTEMS	10EC43	√			
	SIGNALS AND SYSTEMS	10EC44	√			
	FUNDAMENTALS OF HDL	10EC45				
	LINEAR ICS AND APPLICATIONS	10EC46	√			
	MICROCONTROLLERS LAB	10ESL47	√			
	HDL LAB	10ESL48	√			
	MANAGEMENT & ENTREPRENEURSHIP	10AL51	√			
	DIGITAL SIGNAL PROCESSING	10EC52	√			
	ANALOG COMMUNICATION	10EC53	√			
	MICROWAVES AND RADAR	10EC54	√			
	INFORMATION THEORY AND CODING	10EC55				
	FUNDAMENTALS OF CMOS VLSI	10EC56				
	DSP LAB	10ECL57	√			
	ANALOG COMMUNICATION + LIC LAB	10ECL58	√			
3	DIGITAL COMMUNICATION	10EC61	√			
	MICROPROCESSOR	10EC62	√			
	MICROELECTRONIC CIRCUITS	10EC63				
	ANTENNAS AND PROPAGATION	10EC64				
	OPERATING SYSTEMS	10EC65				
	ANALOG AND MIXED MODE VLSI DESIGN	10EC661				
	SATELLITE COMMUNICTAION	10EC662	√			

DATA STRUCTURES USING C++	10EC665				
ADVANCED COMMUNICATION LAB	10ECL67	√			
MOCROPROCESSOR LAB	10ECL68	√			
COMPUTER COMMUNICATION NETWORKS	10EC71	√			
OPTICAL FIBRE COMMUNICATION	10EC72	√			
POWER ELECTRONICS	10EC73				
EMBEDDED SYSTEM DESIGN	10EC74	√			
DSP ALGORITHMS AND ARCHITECTURE	10EC751	√			
IMAGE PROCESSING	10EC763	√			
VLSI LAB	10EC77	√			
POWER ELECTRONICS LAB	10EC78	√			
WIRELESS COMMUNICATION	10EC81	√			
DIGITAL SWITCHING SYSTEMS	10EC82	√			
NETWORK SECURITY	10EC832	√			
MULTIMEDIA COMMUNICATION	10EC841	√			
PROJECT WORK	10ECP85	√			
TECHNICAL SEMINAR	10ECS86				

4

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SAPTHAGIRI COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
AY 2018-2019

1.3.2.1: Number of courses that include experiential learning through project work/field work/internship/mini project

YEAR	COURSE NAME	COURSE CODE	PROJECT WORK	FIELD WORK	INTERNSHIP	MINI PROJECT
Chemistry cycle 1st year	Engineering Mathematics-I	15MAT11	√		√	
	Engineering Mathematics-II	15MAT21	√		√	
	Engineering Chemistry	15CHE12/15CHE22				
	C-programming & data structure	15PCD13/15PCD23				
	Computer Aided Engineering Drawing	15CED14/15CED24				
	Basic Electronics	15ELEN15/15ELN25	√		√	
Physics cycle 1st year	Engineering Mathematics-I	15MAT11	√		√	
	Engineering Mathematics-II	15MAT11	√		√	
	Engineering Physics	15PHY12/15PHY22				
	Elements Of Civil Engineering	15CIV13/15CIV23	√		√	
	Elements Of Mechanical Engineering	15EME14/15EME24				
	Basic Electrical Engineering	15ELE15/15ELE25				
	Constitution Of India ,Professional Ehics And Human Rights	15CPH18/15CPH28				
	Workshop Practice Lab	15WSL16/15WSL26				
	Engineering Physics Lab	15PHY17/15PHY22	√			
2ND YEAR	Engineering Mathematics-III	15MAT31	√		√	
	Electric Circuit Analysis	15EE32	√		√	
	Transformers and Generators	15EE33	√		√	
	Analog Electronic Circuits	15EE34	√		√	
	Digital System Design	15EE35	√		√	
	Electrical and Electronic Measurements	15EE36	√		√	

	Electrical Machines Laboratory -1	15EEL37	√		√	
	Electronics Laboratory	15EEL38	√		√	
	Engineering Mathematics-IV	15MAT41	√		√	
	Power Generation and Economics	15EE42	√		√	
	Transmission and Distribution	15EE43	√		√	
	Electric Motors	15EE44	√		√	
	Electromagnetic Field Theory	15EE45	√		√	
	Operational Amplifiers and Linear ICs	15EE46	√		√	
	Electrical Machines Laboratory -2	15EEL47	√		√	
	Op- amp and Linear ICs Laboratory	15EEL48	√		√	
3rd YEAR	Management and Entrepreneurship	15EE51				
	Microcontroller	15EE52	√		√	
	Power Electronics	15EE53	√		√	
	Signals and Systems	15EE54	√		√	
	Microcontroller Laboratory	15EEL57	√		√	
	Power Electronics Laboratory	15EEL58	√		√	
	Introduction to Nuclear Power	15EE551	√		√	
	Electrical Engineering Materials	15EE552	√		√	
	Estimating and Costing	15EE553	√		√	
	Special Electrical Machines	15EE554	√		√	
	Control Systems	15EE61	√		√	
	Power System Analysis – 1	15EE62	√		√	
	Digital Signal Processing	15EE63	√		√	
	Electrical Machine Design	15EE64	√		√	
	Control System Laboratory	15EEL67	√		√	
	Digital Signal Processing Laboratory	15EEL68	√		√	
	Computer Aided Electrical Drawing	15EE651	√		√	
	Advanced Power Electronics	15EE652	√		√	
	Energy Audit and Demand side Management	15EE653	√		√	
	Solar and Wind Energy	15EE654	√		√	
	Advanced Power Electronics	15EE652	√		√	
	Energy Audit and Demand side Management	15EE653	√		√	
	Solar and Wind Energy	15EE654	√		√	

4TH YEAR	Power System Analysis - 2	15EE71	√		√	
	Power System Protection	15EE72	√		√	
	High Voltage Engineering	15EE73	√		√	
	Power system Simulation Laboratory	15EEL76				
	Rely and High Voltage Laboratory	15EEL77	√		√	
	Project Phase – I + Seminar	15EEP78	√		√	
	Advanced Control Systems	15EE741	√		√	
	Utilization of Electrical Power	15EE742	√		√	
	Carbon Capture and Storage	15EE743	√		√	
	Power System Planning	15EE744	√		√	
	FACTs and HVDC Transmission	15EE751	√		√	
	Testing and Commissioning of Power System Apparatus	15EE752	√		√	
	Spacecraft Power Technologies	15EE753	√		√	
	Industrial Heating	15EE754	√		√	
	Power System Operation and Control	15EE81	√		√	
	Industrial Drives and Applications	15EE82	√		√	
	Internship / Professional Practice	15EE84	√		√	
	Project Work Phase -II	15EEP85	√		√	
	Seminar	15EES86	√		√	
	Smart Grid	15EE831	√		√	
	Operation and Maintenance of Solar Electric Systems	15EE832	√		√	
	Integration of Distributed Generation	15EE833	√		√	
	Power System in Emergencies	15EE834	√		√	

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SAPTHAGIRI COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
AY 2017-2018

1.3.2.1: Number of courses that include experiential learning through project work/field work/internship/mini project

YEAR	COURSE NAME	COURSE CODE	PROJECT WORK	FIELD WORK	INTERNSHIP	MINI PROJECT
1ST YEAR	ENGINEERING MATHEMATICS-I	14MAT11	√			
	ENGINEERING PHYSICS	14PHY12/14PHY22				
	ENGINEERING CHEMISTRY	14CHE12/ 14CHE22				
	ELEMENTS OF CIVIL ENGINEERING & ENGINEERING MECHANICS	14CIV13/14CIV23				
	COMPUTER CONCEPTS AND C PROGRAMMING	14CCP13/14CCP23	√		√	
	ELEMENTS OF MECHANICAL ENGINEERING	14EME14 / 14EME24				
	COMPUTER AIDED ENGINEERING DRAWING	14CED14 / 14CED24				
	BASIC ELECTRICAL ENGINEERING	14ELE15/ 14ELE25	√			
	BASIC ELECTRONICS	14ELN15 / 14ELN25	√			
	WORKSHOP PRACTICE	14WSL16/ 14WSL26				
	COMPUTER PROGRAMMING LABORATORY	14CPL16 / 14CPL26	√		√	
	LABORATORY EXPERIMENTS IN ENGINEERING PHYSICS	14PHYL17/14PHYL27				
	ENGINEERING CHEMISTRY LABORATORY	14CHEL17/14CHEL27				
	CONSTITUTION OF INDIA AND PROFESSIONAL ETHICS	14CIP18/14CIP28				
	ENVIRONMENTAL STUDIES	14CIV18/14CIV28				
	ENGINEERING MATHEMATICS – II	14MAT21	√			
2ND YEAR	ENGINEERING MATHEMATICS-III	10MAT31	√		√	
	Analog Electronic Circuits	10ES32	√		√	

	Logic Design	10ES33	√		√	
	Network Analysis	10ES34	√		√	
	Electrical and Electronic Measurements and Instrumentation	10EE35	√		√	
	Electric Power Generation	10EE36		√	√	
	Analog Electronics Lab	10ESL37	√		√	
	Logic Design Lab	10ESL38	√		√	
	ENGINEERING MATHEMATICS-IV	10MAT41	√		√	
	Microcontrollers	10ES42	√		√	
	Control Systems	10ES43	√		√	
	Field Theory	10EE44	√		√	
	Power Electronics	10EE45	√		√	
	Transformers and Induction Machines	10EE46	√		√	
	Microcontrollers Lab	10ESL47	√		√	
	Power Electronics Lab	10EEL48	√		√	
3rd YEAR	Management and Entrepreneurship	10AL51	√		√	
	Signals and System	10EE52	√		√	
	Transmission and Distribution	10EE53	√		√	
	DC Machines and Synchronous Machines	10EE54	√		√	
	Modern Control Theory	10EE55	√		√	
	Linear IC's and Applications	10EE56	√		√	
	Measurements and Circuit Simulation Laboratory	10EEL57	√		√	
	Transformers and Induction Machines Laboratory	10EEL58	√		√	
	Power System Analysis and Stability	10EE61	√		√	
	Switchgear and Protection	10EE62	√		√	
	Electrical Machine Design	10EE63	√		√	
	Digital Signal Processing	10EE64	√		√	
	CAED(Computer Aided Electrical Drawing)	10EE65	√		√	
	Operation Research	10EE661	√		√	
	Advanced Power Electronics	10EE662	√		√	
	DC machines and Synchronous Machines Laboratory	10EEL67	√		√	
	Control System Laboratory	10EEL68	√		√	
4TH	Computer techniques in Power system	10EE71	√		√	

YEAR	analysis					
	Electrical Power Utilization	10EE72	√		√	
	High Voltage Engineering	10EE73	√		√	
	Industrial Drives and Applications	10EE74	√		√	
	Testing and commissioning of Electrical Equipment	10EE756	√		√	
	Electromagnetic Compatibility	10EE756	√		√	
	Relay and High Voltage Laboratory	10EEL77				
	Power System Simulation Laboratory	10EEL78	√		√	
	Electrical Design, Estimating and costing	10EE81	√		√	
	Power system operation and control	10EE82	√		√	
	Renewable energy Sources	10EE836	√		√	
	Energy auditing and Demand Side Management	10EE842	√		√	
	Project work	10EE85	√		√	
	Seminar	10EES86	√		√	

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SAPTHAGIRI COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
AY 2016-2017

1.3.2.1: Number of courses that include experiential learning through project work/field work/internship/mini project

YEAR	COURSE NAME	COURSE CODE	PROJECT WORK	FIELD WORK	INTERNSHIP	MINI PROJECT
1ST YEAR	ENGINEERING MATHEMATICS-I	10MAT11	√			
	ENGINEERING PHYSICS	10PHY12/10PHY22				
	ENGINEERING CHEMISTRY	10CHE12/ 10CHE 22				
	ELEMENTS OF CIVIL ENGINEERING & ENGINEERING MECHANICS	10CIV13/10CIV23				
	COMPUTER CONCEPTS AND C PROGRAMMING	10CCP13/10CCP23	√		√	
	ELEMENTS OF MECHANICAL ENGINEERING	10EME14 / 10EME24				
	COMPUTER AIDED ENGINEERING DRAWING	10CED14 / 10CED24				
	BASIC ELECTRICAL ENGINEERING	10ELE15/ 10ELE25	√			
	BASIC ELECTRONICS	10ELN15 / 10ELN25	√			
	WORKSHOP PRACTICE	10WSL16/ 10WSL26				
	COMPUTER PROGRAMMING LABORATORY	10CPL16 / 10CPL26	√		√	
	LABORATORY EXPERIMENTS IN ENGINEERING PHYSICS	10PHYL17/10PHYL27				
	ENGINEERING CHEMISTRY LABORATORY	10CHEL17/10CHEL27				
	CONSTITUTION OF INDIA AND PROFESSIONAL ETHICS	10CIP18/10CIP28				
	ENVIRONMENTAL STUDIES	10CIV18/10CIV28				
	ENGINEERING MATHEMATICS – II	10MAT21	√			
2ND YEAR	ENGINEERING MATHEMATICS-III	10MAT31	√		√	
	Analog Electronic Circuits	10ES32	√		√	

	Logic Design	10ES33	√		√	
	Network Analysis	10ES34	√		√	
	Electrical and Electronic Measurements and Instrumentation	10EE35	√		√	
	Electric Power Generation	10EE36		√	√	
	Analog Electronics Lab	10ESL37	√		√	
	Logic Design Lab	10ESL38	√		√	
	ENGINEERING MATHEMATICS-IV	10MAT41	√		√	
	Microcontrollers	10ES42	√		√	
	Control Systems	10ES43	√		√	
	Field Theory	10EE44	√		√	
	Power Electronics	10EE45	√		√	
	Transformers and Induction Machines	10EE46	√		√	
	Microcontrollers Lab	10ESL47	√		√	
	Power Electronics Lab	10EEL48	√		√	
3rd YEAR	Management and Entrepreneurship	10AL51	√		√	
	Signals and System	10EE52	√		√	
	Transmission and Distribution	10EE53	√		√	
	DC Machines and Synchronous Machines	10EE54	√		√	
	Modern Control Theory	10EE55	√		√	
	Linear IC's and Applications	10EE56	√		√	
	Measurements and Circuit Simulation Laboratory	10EEL57	√		√	
	Transformers and Induction Machines Laboratory	10EEL58	√		√	
	Power System Analysis and Stability	10EE61	√		√	
	Switchgear and Protection	10EE62	√		√	
	Electrical Machine Design	10EE63	√		√	
	Digital Signal Processing	10EE64	√		√	
	CAED(Computer Aided Electrical Drawing)	10EE65	√		√	
	Operation Research	10EE661	√		√	
	Advanced Power Electronics	10EE662	√		√	
	DC machines and Synchronous Machines Laboratory	10EEL67	√		√	
	Control System Laboratory	10EEL68	√		√	
4TH	Computer techniques in Power system	10EE71	√		√	

YEAR	analysis					
	Electrical Power Utilization	10EE72	√		√	
	High Voltage Engineering	10EE73	√		√	
	Industrial Drives and Applications	10EE74	√		√	
	Testing and commissioning of Electrical Equipment	10EE756	√		√	
	Electromagnetic Compatibility	10EE756	√		√	
	Relay and High Voltage Laboratory	10EEL77				
	Power System Simulation Laboratory	10EEL78	√		√	
	Electrical Design, Estimating and costing	10EE81	√		√	
	Power system operation and control	10EE82	√		√	
	Renewable energy Sources	10EE836	√		√	
	Energy auditing and Demand Side Management	10EE842	√		√	
	Project work	10EE85	√		√	
	Seminar	10EES86	√		√	

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SAPTHAGIRI COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
AY 2015-2016

1.3.2.1: Number of courses that include experiential learning through project work/field work/internship/mini project

YEAR	COURSE NAME	COURSE CODE	PROJECT WORK	FIELD WORK	INTERNSHIP	MINI PROJECT
1ST YEAR	ENGINEERING MATHEMATICS-I	10MAT11	√			
	ENGINEERING PHYSICS	10PHY12/10PHY22				
	ENGINEERING CHEMISTRY	10CHE12/ 10CHE 22				
	ELEMENTS OF CIVIL ENGINEERING & ENGINEERING MECHANICS	10CIV13/10CIV23				
	COMPUTER CONCEPTS AND C PROGRAMMING	10CCP13/10CCP23	√		√	
	ELEMENTS OF MECHANICAL ENGINEERING	10EME14 / 10EME24				
	COMPUTER AIDED ENGINEERING DRAWING	10CED14 / 10CED24				
	BASIC ELECTRICAL ENGINEERING	10ELE15/ 10ELE25	√			
	BASIC ELECTRONICS	10ELN15 / 10ELN25	√			
	WORKSHOP PRACTICE	10WSL16/ 10WSL26				
	COMPUTER PROGRAMMING LABORATORY	10CPL16 / 10CPL26	√		√	
	LABORATORY EXPERIMENTS IN ENGINEERING PHYSICS	10PHYL17/10PHYL27				
	ENGINEERING CHEMISTRY LABORATORY	10CHEL17/10CHEL27				
	CONSTITUTION OF INDIA AND PROFESSIONAL ETHICS	10CIP18/10CIP28				
	ENVIRONMENTAL STUDIES	10CIV18/10CIV28				
	ENGINEERING MATHEMATICS – II	10MAT21	√			
2ND YEAR	ENGINEERING MATHEMATICS-III	10MAT31	√		√	
	Analog Electronic Circuits	10ES32	√		√	

	Logic Design	10ES33	√		√	
	Network Analysis	10ES34	√		√	
	Electrical and Electronic Measurements and Instrumentation	10EE35	√		√	
	Electric Power Generation	10EE36		√	√	
	Analog Electronics Lab	10ESL37	√		√	
	Logic Design Lab	10ESL38	√		√	
	ENGINEERING MATHEMATICS-IV	10MAT41	√		√	
	Microcontrollers	10ES42	√		√	
	Control Systems	10ES43	√		√	
	Field Theory	10EE44	√		√	
	Power Electronics	10EE45	√		√	
	Transformers and Induction Machines	10EE46	√		√	
	Microcontrollers Lab	10ESL47	√		√	
	Power Electronics Lab	10EEL48	√		√	
3rd YEAR	Management and Entrepreneurship	10AL51	√		√	
	Signals and System	10EE52	√		√	
	Transmission and Distribution	10EE53	√		√	
	DC Machines and Synchronous Machines	10EE54	√		√	
	Modern Control Theory	10EE55	√		√	
	Linear IC's and Applications	10EE56	√		√	
	Measurements and Circuit Simulation Laboratory	10EEL57	√		√	
	Transformers and Induction Machines Laboratory	10EEL58	√		√	
	Power System Analysis and Stability	10EE61	√		√	
	Switchgear and Protection	10EE62	√		√	
	Electrical Machine Design	10EE63	√		√	
	Digital Signal Processing	10EE64	√		√	
	CAED(Computer Aided Electrical Drawing)	10EE65	√		√	
	Operation Research	10EE661	√		√	
	Advanced Power Electronics	10EE662	√		√	
	DC machines and Synchronous Machines Laboratory	10EEL67	√		√	
	Control System Laboratory	10EEL68	√		√	
4TH	Computer techniques in Power system	10EE71	√		√	

YEAR	analysis					
	Electrical Power Utilization	10EE72	√		√	
	High Voltage Engineering	10EE73	√		√	
	Industrial Drives and Applications	10EE74	√		√	
	Testing and commissioning of Electrical Equipment	10EE756	√		√	
	Electromagnetic Compatibility	10EE756	√		√	
	Relay and High Voltage Laboratory	10EEL77				
	Power System Simulation Laboratory	10EEL78	√		√	
	Electrical Design, Estimating and costing	10EE81	√		√	
	Power system operation and control	10EE82	√		√	
	Renewable energy Sources	10EE836	√		√	
	Energy auditing and Demand Side Management	10EE842	√		√	
	Project work	10EE85	√		√	
	Seminar	10EES86	√		√	

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
AY 2014-2015

1.3.2.1: Number of courses that include experiential learning through project work/field work/internship/mini project

YEAR	COURSE NAME	COURSE CODE	PROJECT WORK	FIELD WORK	INTERNSHIP	MINI PROJECT
1ST YEAR	ENGINEERING MATHEMATICS-I	10MAT11	√			
	ENGINEERING PHYSICS	10PHY12/10PHY22				
	ENGINEERING CHEMISTRY	10CHE12/ 10CHE 22				
	ELEMENTS OF CIVIL ENGINEERING & ENGINEERING MECHANICS	10CIV13/10CIV23				
	COMPUTER CONCEPTS AND C PROGRAMMING	10CCP13/10CCP23	√		√	
	ELEMENTS OF MECHANICAL ENGINEERING	10EME14 / 10EME24				
	COMPUTER AIDED ENGINEERING DRAWING	10CED14 / 10CED24				
	BASIC ELECTRICAL ENGINEERING	10ELE15/ 10ELE25	√			
	BASIC ELECTRONICS	10ELN15 / 10ELN25	√			
	WORKSHOP PRACTICE	10WSL16/ 10WSL26				
	COMPUTER PROGRAMMING LABORATORY	10CPL16 / 10CPL26	√		√	
	LABORATORY EXPERIMENTS IN ENGINEERING PHYSICS	10PHYL17/10PHYL27				
	ENGINEERING CHEMISTRY LABORATORY	10CHEL17/10CHEL27				
	CONSTITUTION OF INDIA AND PROFESSIONAL ETHICS	10CIP18/10CIP28				
	ENVIRONMENTAL STUDIES	10CIV18/10CIV28				
	ENGINEERING MATHEMATICS – II	10MAT21	√			
2ND YEAR	ENGINEERING MATHEMATICS-III	10MAT31	√		√	
	Analog Electronic Circuits	10ES32	√		√	

	Logic Design	10ES33	√		√	
	Network Analysis	10ES34	√		√	
	Electrical and Electronic Measurements and Instrumentation	10EE35	√		√	
	Electric Power Generation	10EE36		√	√	
	Analog Electronics Lab	10ESL37	√		√	
	Logic Design Lab	10ESL38	√		√	
	ENGINEERING MATHEMATICS-IV	10MAT41	√		√	
	Microcontrollers	10ES42	√		√	
	Control Systems	10ES43	√		√	
	Field Theory	10EE44	√		√	
	Power Electronics	10EE45	√		√	
	Transformers and Induction Machines	10EE46	√		√	
	Microcontrollers Lab	10ESL47	√		√	
	Power Electronics Lab	10EEL48	√		√	
3rd YEAR	Management and Entrepreneurship	10AL51	√		√	
	Signals and System	10EE52	√		√	
	Transmission and Distribution	10EE53	√		√	
	DC Machines and Synchronous Machines	10EE54	√		√	
	Modern Control Theory	10EE55	√		√	
	Linear IC's and Applications	10EE56	√		√	
	Measurements and Circuit Simulation Laboratory	10EEL57	√		√	
	Transformers and Induction Machines Laboratory	10EEL58	√		√	
	Power System Analysis and Stability	10EE61	√		√	
	Switchgear and Protection	10EE62	√		√	
	Electrical Machine Design	10EE63	√		√	
	Digital Signal Processing	10EE64	√		√	
	CAED(Computer Aided Electrical Drawing)	10EE65	√		√	
	Operation Research	10EE661	√		√	
	Advanced Power Electronics	10EE662	√		√	
	DC machines and Synchronous Machines Laboratory	10EEL67	√		√	
	Control System Laboratory	10EEL68	√		√	
4TH	Computer techniques in Power system	10EE71	√		√	

YEAR	analysis					
	Electrical Power Utilization	10EE72	√		√	
	High Voltage Engineering	10EE73	√		√	
	Industrial Drives and Applications	10EE74	√		√	
	Testing and commissioning of Electrical Equipment	10EE756	√		√	
	Electromagnetic Compatibility	10EE756	√		√	
	Relay and High Voltage Laboratory	10EEL77				
	Power System Simulation Laboratory	10EEL78	√		√	
	Electrical Design, Estimating and costing	10EE81	√		√	
	Power system operation and control	10EE82	√		√	
	Renewable energy Sources	10EE836	√		√	
	Energy auditing and Demand Side Management	10EE842	√		√	
	Project work	10EE85	√		√	
	Seminar	10EES86	√		√	

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1.3.2.1: Number of courses that include experiential learning through project work/field work/internship/mini project

YEAR	COURSE NAME	COURSE CODE	PROJECT WORK	FIELD WORK	INTERNSHIP	MINI PROJECT
1ST YEAR	Engineering Maths-I	15MAT11	√		√	
	Engineering Physics	15PHY12/22				
	Elements of Civil Engineering & Mechanics	15CIV13/23				
	Elements of Mechanical Engineering	15EME14/24				
	Basic Electrical Engineering	15ELE15/25				
	Workshop Practice	15WSL16/26				
	Engineering Physics Lab	15PHYL17/27				
	Engineering Maths-II	15MAT21	√		√	
	Engineering Chemistry	15CHE22/12				
	Programming in C & Data Structures	15PCD23/13	√		√	
	Computer Aided Engineering Drawing	15CED24/14				
	Basic Electronics	15ELN25/15				
	Computer programming laboratory	15CPL26/16	√		√	
	Engineering chemistry laboratory	15CHL27/17				
	Constitution of india and professional ethics	15CIP28/18				
	Environmental studies	15CIV28/18				
2ND YEAR	Engineering Mathematics - III	15MAT31	√		√	
	Analog and Digital Electronics	15CS32	√		√	
	Data Structures and Applications	15CS33	√		√	
	Computer Organization	15CS34	√		√	
	Unix and Shell Programming	15CS35	√		√	
	Discrete Mathematical structures	15CS36	√		√	
	Analog and Digital Electronics Laboratory	15CSL37	√		√	
	Data Structures and Applications Laboratory	15CSL38	√		√	
	Engineering Mathematics - IV	15MAT41	√		√	
	Software Engineering	15CS 42	√		√	
	Design and Analysis of Algorithms	15CS43	√		√	
	Microprocessors and Microcontrollers	15CS 44	√		√	

	Object Oriented Concepts	15CS45	√		√	
	Data Communication	15CS46	√		√	
	Design and Analysis of Algorithm Laboratory	15CSL47	√		√	
	Microprocessors Laboratory	15CSL48	√		√	
3RD YEAR	Management and Entrepreneurship for IT	15CS51	√		√	
	Computer Networks	15CS52	√		√	
	Database Management System	15CS53				
	Automata theory and Computability	15CS54	√		√	
	Advanced JAVA and J2EE	15CS553	√		√	
	Cloud Computing	15CS564	√		√	
	Computer Network Laboratory	15CSL57	√		√	
	DBMS Laboratory with mini project	15CSL58	√		√	√
	Cryptography, Network Security and Cyber	15CS61	√		√	
	File Structures	15IS62	√		√	
	Software Testing	15IS63	√		√	
	Operating Systems	15CS64	√		√	
	Operation research	15CS653				
	Python Application Programming	15CS664	√		√	
	Software Testing Laboratory	15ISL67	√		√	
	File Structures Laboratory with mini project	15ISL68	√		√	√
4TH YEAR	Web technology and its applications	15CS71	√		√	
	Software architecture and design patterns	15IS72	√		√	
	Machine learning	15CS73	√		√	
	Unix system programming	15CS744				
	Storage area networks	15CS754				
	Machine learning laboratory	15CSL76	√		√	
	Web technology laboratory with mini	15CSL77	√		√	√

	Internet of things technology	15CS81	√		√	
	Big data analytics	15CS82	√		√	
	System modelling and simulation	15CS834				
	Internship / professional practice	15CS84				
	Project work phase II	15CSP85				
	Seminar	15CSS86				

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1.3.2.1: Number of courses that include experiential learning through project work/field work/internship/mini project

YEAR	COURSE NAME	COURSE CODE	PROJECT WORK	FIELD WORK	INTERNSHIP	MINI PROJECT
1ST YEAR	ENGINEERING MATHEMATICS-I	14MAT11	√			
	ENGINEERING PHYSICS	14PHY12/14PHY22				
	ENGINEERING CHEMISTRY	14CHE12/ 14CHE 22				
	ELEMENTS OF CIVIL ENGINEERING & ENGINEERING MECHANICS	14CIV13/14CIV23				
	COMPUTER CONCEPTS AND C PROGRAMMING	14CCP13/14CCP23	√		√	
	ELEMENTS OF MECHANICAL ENGINEERING	14EME14 / 14EME24				
	COMPUTER AIDED ENGINEERING DRAWING	14CED14 / 14CED24				
	BASIC ELECTRICAL ENGINEERING	14ELE15/ 14ELE25	√			
	BASIC ELECTRONICS	14ELN15 / 14ELN25	√			
	WORKSHOP PRACTICE	14WSL16/ 14WSL26				
	COMPUTER PROGRAMMING LABORATORY	14CPL16 / 14CPL26	√		√	
	LABORATORY EXPERIMENTS IN ENGINEERING	14PHYL17/14PHYL27				
	ENGINEERING CHEMISTRY LABORATORY	14CHEL17/14CHEL27				
	CONSTITUTION OF INDIA AND PROFESSIONAL	14CIP18/14CIP28				
	ENVIRONMENTAL STUDIES	14CIV18/14CIV28				
	ENGINEERING MATHEMATICS – II	14MAT21	√			
2ND YEAR	ENGINEERING MATHEMATICS-III	10MAT31	√		√	
	ELECTRONIC CIRCUITS	10CS32	√		√	
	LOGIC DESIGN	10CS33	√		√	
	DISCRETE MATHEMATICAL STRUCTURES	10CS34	√		√	
	DATA STRUCTURES WITH C	10CS35	√		√	
	OBJECT ORIENTED PROGRMMING WITH C++	10CS36	√		√	
	DATA STRUCTURES WITH C/C++ LABORATORY	10CSL37	√		√	
	ELECTRONIC CIRCUITS AND LOGIC DESIGN LABORATORY	10CSL38	√		√	

	ENGINEERING MATHEMATICS-IV	10MAT41	√		√	
	GRAPH THEORY AND COMBINATORICS	10CS42	√		√	
	DESIGN AND ANALYSIS OF ALGORITHM	10CS43	√		√	
	UNIX AND SHELL PROGRAMMING	10CS44	√		√	
	MICROPROCESSORS	10CS45	√		√	
	COMPUTER ORGANIZATION	10CS46	√		√	
	DESIGN AND ANALYSIS OF ALGORITHM LABORATORY	10CSL47	√		√	
	MICROPROCESSORS LABORATORY	10CSL48	√		√	
3RD YEAR	SOFTWARE ENGINEERING	10IS51	√		√	
	SYSTEMS SOFTWARE	10CS52				
	OPERATING SYSTEM	10CS53	√		√	
	DATABASE MANAGEMENT SYSTEMS	10CS54	√		√	
	COMPUTER NETORKS-I	10CS55	√		√	
	FORMAL LANGUAGES AND AUTOMATA THEORY	10CS56				
	DATABASE APPLICATIONS LABORATORY	10CSL57	√		√	√
	SYSTEMS SOFTWARE & OPERATING SYSTEM LABORATORY	10CSL58	√		√	
	MANAGEMENT AND ENTREPRENEURSHIP	10CS61				
	UNIX SYSTEM PROGRAMMING	10CS62	√		√	
	FILE STRUCTURES	10IS63			√	
	COMPUTR NETWORKS-II	10CS64	√		√	
	SOFTWARE TESTING	10IS65	√		√	
	OPERATIONS RESEARCH	10CS661				
	FILE STRUCTURES LABORATORY	10ISL67				√
	SOFTWARE TESTING LABORATORY	10ISL68	√		√	
4TH YEAR	OBJECT-ORIENTED MODELING AND DESIGN	10CS71	√		√	
	INFORMATION SYSTEMS	10IS72	√		√	
	PROGRAMMING THE WEB	10CS73	√		√	

	DATA WAREHOUSING AND DATA MINING	10IS74	√		√	
	JAVA AND J2EE	10CS753	√		√	
	C# PROGRAMMING AND .NTET	10IS761	√		√	
	NETWORKS LABORATORY	10CSL77	√		√	
	WEB PROGRAMMING LABORATORY	10CSL78	√		√	√
	SOFTWARE ARCHITECTURES	10CS81	√		√	
	SYSTEM MODELING AND SIMULATION	10CS82	√		√	
	INFORMATION AND NETWORK SECURITY	10IS835	√		√	
	AD-HOC NETWORKS	10CS841	√		√	
	PROJECT WORK	10CS85	√		√	
	SEMINAR	10CS86				

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1.3.2.1: Number of courses that include experiential learning through project work/field work/internship/mini project

YEAR	COURSE NAME	COURSE CODE	PROJECT WORK	FIELD WORK	INTERNSHIP	MINI PROJECT
1ST YEAR	ENGINEERING MATHEMATICS-I	10MAT11	√			
	ENGINEERING PHYSICS	10PHY12/10PHY22				
	ENGINEERING CHEMISTRY	10CHE12/ 10CHE 22				
	ELEMENTS OF CIVIL ENGINEERING & ENGINEERING MECHANICS	10CIV13/10CIV23				
	COMPUTER CONCEPTS AND C PROGRAMMING	10CCP13/10CCP23	√		√	
	ELEMENTS OF MECHANICAL ENGINEERING	10EME14 / 10EME24				
	COMPUTER AIDED ENGINEERING DRAWING	10CED14 / 10CED24				
	BASIC ELECTRICAL ENGINEERING	10ELE15/ 10ELE25	√			
	BASIC ELECTRONICS	10ELN15 / 10ELN25	√			
	WORKSHOP PRACTICE	10WSL16/ 10WSL26				
	COMPUTER PROGRAMMING LABORATORY	10CPL16 / 10CPL26	√		√	
	LABORATORY EXPERIMENTS IN ENGINEERING	10PHYL17/10PHYL27				
	ENGINEERING CHEMISTRY LABORATORY	10CHEL17/10CHEL27				
	CONSTITUTION OF INDIA AND PROFESSIONAL	10CIP18/10CIP28				
	ENVIRONMENTAL STUDIES	10CIV18/10CIV28				
	ENGINEERING MATHEMATICS – II	10MAT21	√			
2ND YEAR	ENGINEERING MATHEMATICS-III	10MAT31	√		√	
	ELECTRONIC CIRCUITS	10CS32	√		√	
	LOGIC DESIGN	10CS33	√		√	
	DISCRETE MATHEMATICAL STRUCTURES	10CS34	√		√	
	DATA STRUCTURES WITH C	10CS35	√		√	
	OBJECT ORIENTED PROGRMMING WITH C++	10CS36	√		√	
	DATA STRUCTURES WITH C/C++ LABORATORY	10CSL37	√		√	
	ELECTRONIC CIRCUITS AND LOGIC DESIGN LABORATORY	10CSL38	√		√	

	ENGINEERING MATHEMATICS-IV	10MAT41	√		√	
	GRAPH THEORY AND COMBINATORICS	10CS42	√		√	
	DESIGN AND ANALYSIS OF ALGORITHM	10CS43	√		√	
	UNIX AND SHELL PROGRAMMING	10CS44	√		√	
	MICROPROCESSORS	10CS45	√		√	
	COMPUTER ORGANIZATION	10CS46	√		√	
	DESIGN AND ANALYSIS OF ALGORITHM LABORATORY	10CSL47	√		√	
	MICROPROCESSORS LABORATORY	10CSL48	√		√	
3RD YEAR	SOFTWARE ENGINEERING	10IS51	√		√	
	SYSTEMS SOFTWARE	10CS52				
	OPERATING SYSTEM	10CS53	√		√	
	DATABASE MANAGEMENT SYSTEMS	10CS54	√		√	
	COMPUTER NETORKS-I	10CS55	√		√	
	FORMAL LANGUAGES AND AUTOMATA THEORY	10CS56				
	DATABASE APPLICATIONS LABORATORY	10CSL57	√		√	√
	SYSTEMS SOFTWARE & OPERATING SYSTEM LABORATORY	10CSL58	√		√	
	MANAGEMENT AND ENTREPRENEURSHIP	10CS61				
	UNIX SYSTEM PROGRAMMING	10CS62	√		√	
	FILE STRUCTURES	10IS63			√	
	COMPUTR NETWORKS-II	10CS64	√		√	
	SOFTWARE TESTING	10IS65	√		√	
	OPERATIONS RESEARCH	10CS661				
	FILE STRUCTURES LABORATORY	10ISL67				√
	SOFTWARE TESTING LABORATORY	10ISL68	√		√	
4TH YEAR	OBJECT-ORIENTED MODELING AND DESIGN	10CS71	√		√	
	INFORMATION SYSTEMS	10IS72	√		√	
	PROGRAMMING THE WEB	10CS73	√		√	

	DATA WAREHOUSING AND DATA MINING	10IS74	√		√	
	JAVA AND J2EE	10CS753	√		√	
	C# PROGRAMMING AND .NTET	10IS761	√		√	
	NETWORKS LABORATORY	10CSL77	√		√	
	WEB PROGRAMMING LABORATORY	10CSL78	√		√	√
	SOFTWARE ARCHITECTURES	10CS81	√		√	
	SYSTEM MODELING AND SIMULATION	10CS82	√		√	
	INFORMATION AND NETWORK SECURITY	10IS835	√		√	
	AD-HOC NETWORKS	10CS841	√		√	
	PROJECT WORK	10CS85	√		√	
	SEMINAR	10CS86				

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1.3.2.1: Number of courses that include experiential learning through project work/field work/internship/mini project

YEAR	COURSE NAME	COURSE CODE	PROJECT WORK	FIELD WORK	INTERNSHIP	MINI PROJECT
1ST YEAR	ENGINEERING MATHEMATICS-I	10MAT11	√			
	ENGINEERING PHYSICS	10PHY12/10PHY22				
	ENGINEERING CHEMISTRY	10CHE12/ 10CHE 22				
	ELEMENTS OF CIVIL ENGINEERING & ENGINEERING MECHANICS	10CIV13/10CIV23				
	COMPUTER CONCEPTS AND C PROGRAMMING	10CCP13/10CCP23	√		√	
	ELEMENTS OF MECHANICAL ENGINEERING	10EME14 / 10EME24				
	COMPUTER AIDED ENGINEERING DRAWING	10CED14 / 10CED24				
	BASIC ELECTRICAL ENGINEERING	10ELE15/ 10ELE25	√			
	BASIC ELECTRONICS	10ELN15 / 10ELN25	√			
	WORKSHOP PRACTICE	10WSL16/ 10WSL26				
	COMPUTER PROGRAMMING LABORATORY	10CPL16 / 10CPL26	√		√	
	LABORATORY EXPERIMENTS IN ENGINEERING	10PHYL17/10PHYL27				
	ENGINEERING CHEMISTRY LABORATORY	10CHEL17/10CHEL27				
	CONSTITUTION OF INDIA AND PROFESSIONAL	10CIP18/10CIP28				
	ENVIRONMENTAL STUDIES	10CIV18/10CIV28				
	ENGINEERING MATHEMATICS – II	10MAT21	√			
2ND YEAR	ENGINEERING MATHEMATICS-III	10MAT31	√		√	
	ELECTRONIC CIRCUITS	10CS32	√		√	
	LOGIC DESIGN	10CS33	√		√	
	DISCRETE MATHEMATICAL STRUCTURES	10CS34	√		√	
	DATA STRUCTURES WITH C	10CS35	√		√	
	OBJECT ORIENTED PROGRMMING WITH C++	10CS36	√		√	
	DATA STRUCTURES WITH C/C++ LABORATORY	10CSL37	√		√	
	ELECTRONIC CIRCUITS AND LOGIC DESIGN LABORATORY	10CSL38	√		√	

	ENGINEERING MATHEMATICS-IV	10MAT41	√		√	
	GRAPH THEORY AND COMBINATORICS	10CS42	√		√	
	DESIGN AND ANALYSIS OF ALGORITHM	10CS43	√		√	
	UNIX AND SHELL PROGRAMMING	10CS44	√		√	
	MICROPROCESSORS	10CS45	√		√	
	COMPUTER ORGANIZATION	10CS46	√		√	
	DESIGN AND ANALYSIS OF ALGORITHM LABORATORY	10CSL47	√		√	
	MICROPROCESSORS LABORATORY	10CSL48	√		√	
3RD YEAR	SOFTWARE ENGINEERING	10IS51	√		√	
	SYSTEMS SOFTWARE	10CS52				
	OPERATING SYSTEM	10CS53	√		√	
	DATABASE MANAGEMENT SYSTEMS	10CS54	√		√	
	COMPUTER NETORKS-I	10CS55	√		√	
	FORMAL LANGUAGES AND AUTOMATA THEORY	10CS56				
	DATABASE APPLICATIONS LABORATORY	10CSL57	√		√	√
	SYSTEMS SOFTWARE & OPERATING SYSTEM LABORATORY	10CSL58	√		√	
	MANAGEMENT AND ENTREPRENEURSHIP	10CS61				
	UNIX SYSTEM PROGRAMMING	10CS62	√		√	
	FILE STRUCTURES	10IS63			√	
	COMPUTR NETWORKS-II	10CS64	√		√	
	SOFTWARE TESTING	10IS65	√		√	
	OPERATIONS RESEARCH	10CS661				
	FILE STRUCTURES LABORATORY	10ISL67				√
	SOFTWARE TESTING LABORATORY	10ISL68	√		√	
4TH YEAR	OBJECT-ORIENTED MODELING AND DESIGN	10CS71	√		√	
	INFORMATION SYSTEMS	10IS72	√		√	
	PROGRAMMING THE WEB	10CS73	√		√	

	DATA WAREHOUSING AND DATA MINING	10IS74	√		√	
	JAVA AND J2EE	10CS753	√		√	
	C# PROGRAMMING AND .NTET	10IS761	√		√	
	NETWORKS LABORATORY	10CSL77	√		√	
	WEB PROGRAMMING LABORATORY	10CSL78	√		√	√
	SOFTWARE ARCHITECTURES	10CS81	√		√	
	SYSTEM MODELING AND SIMULATION	10CS82	√		√	
	INFORMATION AND NETWORK SECURITY	10IS835	√		√	
	AD-HOC NETWORKS	10CS841	√		√	
	PROJECT WORK	10CS85	√		√	
	SEMINAR	10CS86				

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1.3.2.1: Number of courses that include experiential learning through project work/field work/internship/mini project

YEAR	COURSE NAME	COURSE CODE	PROJECT WORK	FIELD WORK	INTERNSHIP	MINI PROJECT
1ST YEAR	ENGINEERING MATHEMATICS-I	10MAT11	√			
	ENGINEERING PHYSICS	10PHY12/10PHY22				
	ENGINEERING CHEMISTRY	10CHE12/ 10CHE 22				
	ELEMENTS OF CIVIL ENGINEERING & ENGINEERING MECHANICS	10CIV13/10CIV23				
	COMPUTER CONCEPTS AND C PROGRAMMING	10CCP13/10CCP23	√		√	
	ELEMENTS OF MECHANICAL ENGINEERING	10EME14 / 10EME24				
	COMPUTER AIDED ENGINEERING DRAWING	10CED14 / 10CED24				
	BASIC ELECTRICAL ENGINEERING	10ELE15/ 10ELE25	√			
	BASIC ELECTRONICS	10ELN15 / 10ELN25	√			
	WORKSHOP PRACTICE	10WSL16/ 10WSL26				
	COMPUTER PROGRAMMING LABORATORY	10CPL16 / 10CPL26	√		√	
	LABORATORY EXPERIMENTS IN ENGINEERING	10PHYL17/10PHYL27				
	ENGINEERING CHEMISTRY LABORATORY	10CHEL17/10CHEL27				
	CONSTITUTION OF INDIA AND PROFESSIONAL	10CIP18/10CIP28				
	ENVIRONMENTAL STUDIES	10CIV18/10CIV28				
	ENGINEERING MATHEMATICS – II	10MAT21	√			
2ND YEAR	ENGINEERING MATHEMATICS-III	10MAT31	√		√	
	ELECTRONIC CIRCUITS	10CS32	√		√	
	LOGIC DESIGN	10CS33	√		√	
	DISCRETE MATHEMATICAL STRUCTURES	10CS34	√		√	
	DATA STRUCTURES WITH C	10CS35	√		√	
	OBJECT ORIENTED PROGRMMING WITH C++	10CS36	√		√	
	DATA STRUCTURES WITH C/C++ LABORATORY	10CSL37	√		√	
	ELECTRONIC CIRCUITS AND LOGIC DESIGN LABORATORY	10CSL38	√		√	

	ENGINEERING MATHEMATICS-IV	10MAT41	√		√	
	GRAPH THEORY AND COMBINATORICS	10CS42	√		√	
	DESIGN AND ANALYSIS OF ALGORITHM	10CS43	√		√	
	UNIX AND SHELL PROGRAMMING	10CS44	√		√	
	MICROPROCESSORS	10CS45	√		√	
	COMPUTER ORGANIZATION	10CS46	√		√	
	DESIGN AND ANALYSIS OF ALGORITHM LABORATORY	10CSL47	√		√	
	MICROPROCESSORS LABORATORY	10CSL48	√		√	
3RD YEAR	SOFTWARE ENGINEERING	10IS51	√		√	
	SYSTEMS SOFTWARE	10CS52				
	OPERATING SYSTEM	10CS53	√		√	
	DATABASE MANAGEMENT SYSTEMS	10CS54	√		√	
	COMPUTER NETORKS-I	10CS55	√		√	
	FORMAL LANGUAGES AND AUTOMATA THEORY	10CS56				
	DATABASE APPLICATIONS LABORATORY	10CSL57	√		√	√
	SYSTEMS SOFTWARE & OPERATING SYSTEM LABORATORY	10CSL58	√		√	
	MANAGEMENT AND ENTREPRENEURSHIP	10CS61				
	UNIX SYSTEM PROGRAMMING	10CS62	√		√	
	FILE STRUCTURES	10IS63			√	
	COMPUTR NETWORKS-II	10CS64	√		√	
	SOFTWARE TESTING	10IS65	√		√	
	OPERATIONS RESEARCH	10CS661				
	FILE STRUCTURES LABORATORY	10ISL67				√
	SOFTWARE TESTING LABORATORY	10ISL68	√		√	
4TH YEAR	OBJECT-ORIENTED MODELING AND DESIGN	10CS71	√		√	
	INFORMATION SYSTEMS	10IS72	√		√	
	PROGRAMMING THE WEB	10CS73	√		√	

	DATA WAREHOUSING AND DATA MINING	10IS74	√		√	
	JAVA AND J2EE	10CS753	√		√	
	C# PROGRAMMING AND .NTET	10IS761	√		√	
	NETWORKS LABORATORY	10CSL77	√		√	
	WEB PROGRAMMING LABORATORY	10CSL78	√		√	√
	SOFTWARE ARCHITECTURES	10CS81	√		√	
	SYSTEM MODELING AND SIMULATION	10CS82	√		√	
	INFORMATION AND NETWORK SECURITY	10IS835	√		√	
	AD-HOC NETWORKS	10CS841	√		√	
	PROJECT WORK	10CS85	√		√	
	SEMINAR	10CS86				

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SAPTHAGIRI COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING
AY 2018-19

1.3.2.1: Number of courses that include experiential learning through project work/field work/internship/mini project

YEAR	COURSE NAME	COURSE CODE	PROJECT WORK	FIELD WORK	INTERNSHIP	MINI PROJECT
1st YEAR	ENGINEERING MATHEMATICS-I	15MAT11	√			
	ENGINEERING PHYSICS	15PHY12/15PHY22				
	ENGINEERING CHEMISTRY	15CHE12/ 15CHE 22				
	ELEMENTS OF CIVIL ENGINEERING & ENGINEERING MECHANICS	15CIV13/15CIV23	√		√	
	COMPUTER CONCEPTS AND C PROGRAMMING	15CCP13/15CCP23				
	ELEMENTS OF MECHANICAL ENGINEERING	15EME14 / 15EME24	√		√	
	COMPUTER AIDED ENGINEERING DRAWING	15CED14 / 15CED24				
	BASIC ELECTRICAL ENGINEERING	15ELE15/ 15ELE25				
	BASIC ELECTRONICS	15ELN15 / 15ELN25	√		√	
	COMPUTER PROGRAMMING LABORATORY	15CPL16 / 15CPL26				
	LABORATORY EXPERIMENTS IN ENGINEERING PHYSICS	15PHYL17/15PHYL27				
	ENGINEERING CHEMISTRY LABORATORY	15CHEL17/15CHEL27				
	ENGINEERING MATHEMATICS – II	15MAT21				
2nd YEAR	ENGINEERING MATHEMATICS - III	15MAT31	√			
	MATERIAL SC. & METALLURGY	15ME32A	√		√	
	MECHANICAL MEASUREMENTS & METROLOGY	15ME36B	√		√	
	BASIC THERMODYNAMICS	15ME33				
	MECHANICS OF MATERIALS	15ME34	√			
	METAL CASTING AND WELDING	15ME35A	√		√	

	COMPUTER AIDED MACHINE DRAWING	15ME36A	√			
	FLUID MECHANICS	15ME43	√			
	METALLOGRAPHY & MATERIAL TESTING LAB	15MEL37A	√		√	
	MECH. MEASUREMENTS & METROLOGY LAB	15MEL37B	√		√	
	FOUNDRY & FORGING LAB / MACHINE SHOP	15ME38A	√			
	MACHINE SHOP	15MEL38B	√			
	ENGINEERING MATHEMATICS - IV	15MAT41				
	APPLIED THERMODYNAMICS	15ME43	√		√	
	KINEMATICS OF MACHINES	15ME44	√		√	
	MACHINE TOOLS OPERATION	15ME45B	√		√	
3rd YEAR	MANAGEMENT AND ENGINEERING ECONOMICS	15ME51			√	
	DESIGN OF MACHINE ELEMENTS I	15ME54	√		√	
	TURBO MACHINES	15ME53	√		√	
	DYNAMICS OF MACHINES	15ME54	√		√	
	NON TRADITIONAL MACHINNIG	15ME554	√		√	
	TOTAL QUALITY OF MANAGMENT	15ME563	√			
	FLUID MECHANICS & MACHINES LAB	15MEL57	√			
	ENERGY CONVERSION ENGG. LAB	15MEL58	√			
	COMPUTER INTEGRATED MANUFACTURING	15ME62			√	
	DESIGN OF MACHINE ELEMENTS II	15ME64	√		√	
	HEAT & MASS TRANSFER	15ME63	√		√	
	FINITE ELEMENT METHODS	15ME61	√		√	
	NON-TRADITIONAL MACHINING	15ME665			√	
	AUTOMOBILE ENGINEERING	15ME655	√		√	

	HEAT & MASS TRANSFER LAB	15MEL67	√			
	CAMA LAB	15MEL68	√		√	
4TH YEAR	ENERGY ENGINNERING	15ME71	√			
	CONTROL ENGINEERING	15ME72			√	
	HYDRAULICS AND PNEUMATICS	15ME73	√		√	
	PROJECT PHASE-1	15ME78P			√	
	OPERATION RESEARCH	15ME81			√	
	ADDITTIVE MANUFACTURING	15ME82	√		√	
	PRODUCT LIFE CYCLE MANAGEMENT	15ME835	√			
	DESIGN LAB	15MEL76	√		√	
	CIM AND AUTOMATION LAB	15MEL77			√	
	INTERNSHIP	15ME85	√			
	PROJECT PHASE-2	15ME86P			√	

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SAPTHAGIRI COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING
AY 2017-18

1.3.2.1: Number of courses that include experiential learning through project work/field work/internship/mini project

YEAR	COURSE NAME	COURSE CODE	PROJECT WORK	FIELD WORK	INTERNSHIP	MINI PROJECT
1st YEAR	ENGINEERING MATHEMATICS-I	14MAT11	√			
	ENGINEERING PHYSICS	14PHY12/14PHY22				
	ENGINEERING CHEMISTRY	14CHE12/ 14CHE 22				
	ELEMENTS OF CIVIL ENGINEERING & ENGINEERING MECHANICS	14CIV13/14CIV23				
	COMPUTER CONCEPTS AND C PROGRAMMING	14CCP13/14CCP23				
	ELEMENTS OF MECHANICAL ENGINEERING	14EME14 / 14EME24	√		√	
	COMPUTER AIDED ENGINEERING DRAWING	14CED14 / 14CED24				
	BASIC ELECTRICAL ENGINEERING	14ELE15/ 14ELE25	√		√	
	BASIC ELECTRONICS	14ELN15 / 14ELN25	√		√	
	WORKSHOP PRACTICE	14WSL16/ 14WSL26	√			
	COMPUTER PROGRAMMING LABORATORY	14CPL16 / 14CPL26				
	LABORATORY EXPERIMENTS IN ENGINEERING PHYSICS	14PHYL17/14PHYL27				
	ENGINEERING CHEMISTRY LABORATORY	14CHEL17/14CHEL27				
	CONSTITUTION OF INDIA AND PROFESSIONAL ETHICS	14CIP18/14CIP28				
	ENVIRONMENTAL STUDIES	14CIV18/14CIV28				
	ENGINEERING MATHEMATICS – II	14MAT21				
2nd YEAR	ENGINEERING MATHEMATICS - III	10MAT31				
	MATERIAL SC. & METALLURGY	10ME32A	√		√	

	MECHANICAL MEASUREMENTS & METROLOGY	10ME32B	√		√	
	BASIC THERMODYNAMICS	10ME33	√		√	
	MECHANICS OF MATERIALS	10ME34	√		√	
	MANUFACTURING PROCESS I	10ME35A	√		√	
	COMPUTER AIDED MACHINE DRAWING	10ME36A	√			
	FLUID MECHANICS	10ME36B	√		√	
	METALLOGRAPHY & MATERIAL TESTING LAB	10MEL37A	√		√	
	MECH. MEASUREMENTS & METROLOGY LAB	10MEL37B	√		√	
	FOUNDRY & FORGING LAB / MACHINE SHOP	10ME38A	√			
	MACHINE SHOP	10MEL38B	√			
	ENGINEERING MATHEMATICS - IV	10MAT41				
	APPLIED THERMODYNAMICS	10ME43	√		√	
	KINEMATICS OF MACHINES	10ME44	√		√	
	MANUFACTURING PROCESS II	10ME45	√		√	
3rd YEAR	MANAGEMENT AND ENTREPRENEURSHIP	10AL51	√			
	DESIGN OF MACHINE ELEMENTS I	10ME52	√			
	ENERGY ENGINEERING	10ME53			√	
	DYNAMICS OF MACHINES	10ME54	√		√	
	MANUFACTURING PROCESS III	10ME55	√		√	
	TURBO MACHINES	10ME56	√			
	FLUID MECHANICS & MACHINES LAB	10MEL57	√			
	ENERGY CONVERSION ENGG. LAB	10MEL58	√			
	COMPUTER INTEGRATED MANUFACTURING	10ME61			√	
	DESIGN OF MACHINE ELEMENTS II	10ME62	√			

	HEAT & MASS TRANSFER	10ME63				
	FINITE ELEMENT METHODS	10ME64	√		√	
	MECHATRONICS & MICROPROCESSOR	10ME65	√			
	NON-TRADITIONAL MACHINING	10ME665			√	
	HEAT & MASS TRANSFER LAB	10MEL67	√			
	CAMA LAB	10MEL68	√		√	
4TH YEAR	ECONOMICS	10ME7				
	MECHANICAL VIBRATIONS	10ME72			√	
	HYDRAULICS AND PNEUMATICS	10ME73	√		√	
	OPERATIONS RESEARCH	10ME74				
	TOTAL QUALITY MANAGEMENT	10ME758	√		√	
	SMART MATERIALS	10ME764	√		√	
	DESIGN LAB	10MEL77	√		√	
	CIM AND AUTOMATION LAB	10MEL78				
	OPERATIONS MANAGEMENT	10ME81				
	CONTROL ENGINEERING	10ME82	√			
	TRIBOLOGY	10ME831	√		√	
	AUTOMOTIVE ENGINEERING	10ME844	√		√	

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SAPTHAGIRI COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING
AY 2016-17

1.3.2.1: Number of courses that include experiential learning through project work/field work/internship/mini project

YEAR	COURSE NAME	COURSE CODE	PROJECT WORK	FIELD WORK	INTERNSHIP	MINI PROJECT
1st YEAR	ENGINEERING MATHEMATICS-I	10MAT11	√			
	ENGINEERING PHYSICS	10PHY12/10PHY22				
	ENGINEERING CHEMISTRY	10CHE12/ 10CHE 22				
	ELEMENTS OF CIVIL ENGINEERING & ENGINEERING MECHANICS	10CIV13/10CIV23				
	COMPUTER CONCEPTS AND C PROGRAMMING	10CCP13/10CCP23				
	ELEMENTS OF MECHANICAL ENGINEERING	10EME14 / 10EME24	√		√	
	COMPUTER AIDED ENGINEERING DRAWING	10CED14 / 10CED24				
	BASIC ELECTRICAL ENGINEERING	10ELE15/ 10ELE25	√		√	
	BASIC ELECTRONICS	10ELN15 / 10ELN25	√		√	
	WORKSHOP PRACTICE	10WSL16/ 10WSL26	√			
	COMPUTER PROGRAMMING LABORATORY	10CPL16 / 10CPL26				
	LABORATORY EXPERIMENTS IN ENGINEERING PHYSICS	10PHYL17/10PHYL27				
	ENGINEERING CHEMISTRY LABORATORY	10CHEL17/10CHEL27				
	CONSTITUTION OF INDIA AND PROFESSIONAL ETHICS	10CIP18/10CIP28				
	ENVIRONMENTAL STUDIES	10CIV18/10CIV28				
	ENGINEERING MATHEMATICS – II	10MAT21				
2nd YEAR	ENGINEERING MATHEMATICS - III	10MAT31				
	MATERIAL SC. & METALLURGY	10ME32A	√		√	

	MECHANICAL MEASUREMENTS & METROLOGY	10ME32B	√		√	
	BASIC THERMODYNAMICS	10ME33	√		√	
	MECHANICS OF MATERIALS	10ME34	√		√	
	MANUFACTURING PROCESS I	10ME35A	√		√	
	COMPUTER AIDED MACHINE DRAWING	10ME36A	√			
	FLUID MECHANICS	10ME36B	√		√	
	METALLOGRAPHY & MATERIAL TESTING LAB	10MEL37A	√		√	
	MECH. MEASUREMENTS & METROLOGY LAB	10MEL37B	√		√	
	FOUNDRY & FORGING LAB / MACHINE SHOP	10ME38A	√			
	MACHINE SHOP	10MEL38B	√			
	ENGINEERING MATHEMATICS - IV	10MAT41				
	APPLIED THERMODYNAMICS	10ME43	√		√	
	KINEMATICS OF MACHINES	10ME44	√		√	
	MANUFACTURING PROCESS II	10ME45	√		√	
3rd YEAR	MANAGEMENT AND ENTREPRENEURSHIP	10AL51	√			
	DESIGN OF MACHINE ELEMENTS I	10ME52	√			
	ENERGY ENGINEERING	10ME53			√	
	DYNAMICS OF MACHINES	10ME54	√		√	
	MANUFACTURING PROCESS III	10ME55	√		√	
	TURBO MACHINES	10ME56	√			
	FLUID MECHANICS & MACHINES LAB	10MEL57	√			
	ENERGY CONVERSION ENGG. LAB	10MEL58	√			
	COMPUTER INTEGRATED MANUFACTURING	10ME61			√	
	DESIGN OF MACHINE ELEMENTS II	10ME62	√			

	HEAT & MASS TRANSFER	10ME63				
	FINITE ELEMENT METHODS	10ME64	√		√	
	MECHATRONICS & MICROPROCESSOR	10ME65	√			
	NON-TRADITIONAL MACHINING	10ME665			√	
	HEAT & MASS TRANSFER LAB	10MEL67	√			
	CAMA LAB	10MEL68	√		√	
4TH YEAR	ECONOMICS	10ME7				
	MECHANICAL VIBRATIONS	10ME72			√	
	HYDRAULICS AND PNEUMATICS	10ME73	√		√	
	OPERATIONS RESEARCH	10ME74				
	TOTAL QUALITY MANAGEMENT	10ME758	√		√	
	SMART MATERIALS	10ME764	√		√	
	DESIGN LAB	10MEL77	√		√	
	CIM AND AUTOMATION LAB	10MEL78				
	OPERATIONS MANAGEMENT	10ME81				
	CONTROL ENGINEERING	10ME82	√			
	TRIBOLOGY	10ME831	√		√	
	AUTOMOTIVE ENGINEERING	10ME844	√		√	

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SAPTHAGIRI COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING
AY 2015-16

1.3.2.1: Number of courses that include experiential learning through project work/field work/internship/mini project

YEAR	COURSE NAME	COURSE CODE	PROJECT WORK	FIELD WORK	INTERNSHIP	MINI PROJECT
1st YEAR	ENGINEERING MATHEMATICS-I	10MAT11	√			
	ENGINEERING PHYSICS	10PHY12/10PHY22				
	ENGINEERING CHEMISTRY	10CHE12/ 10CHE 22				
	ELEMENTS OF CIVIL ENGINEERING & ENGINEERING MECHANICS	10CIV13/10CIV23				
	COMPUTER CONCEPTS AND C PROGRAMMING	10CCP13/10CCP23				
	ELEMENTS OF MECHANICAL ENGINEERING	10EME14 / 10EME24	√		√	
	COMPUTER AIDED ENGINEERING DRAWING	10CED14 / 10CED24				
	BASIC ELECTRICAL ENGINEERING	10ELE15/ 10ELE25	√		√	
	BASIC ELECTRONICS	10ELN15 / 10ELN25	√		√	
	WORKSHOP PRACTICE	10WSL16/ 10WSL26	√			
	COMPUTER PROGRAMMING LABORATORY	10CPL16 / 10CPL26				
	LABORATORY EXPERIMENTS IN ENGINEERING PHYSICS	10PHYL17/10PHYL27				
	ENGINEERING CHEMISTRY LABORATORY	10CHEL17/10CHEL27				
	CONSTITUTION OF INDIA AND PROFESSIONAL ETHICS	10CIP18/10CIP28				
	ENVIRONMENTAL STUDIES	10CIV18/10CIV28				
	ENGINEERING MATHEMATICS – II	10MAT21				
2nd YEAR	ENGINEERING MATHEMATICS - III	10MAT31				
	MATERIAL SC. & METALLURGY	10ME32A	√		√	

	MECHANICAL MEASUREMENTS & METROLOGY	10ME32B	√		√	
	BASIC THERMODYNAMICS	10ME33	√		√	
	MECHANICS OF MATERIALS	10ME34	√		√	
	MANUFACTURING PROCESS I	10ME35A	√		√	
	COMPUTER AIDED MACHINE DRAWING	10ME36A	√			
	FLUID MECHANICS	10ME36B	√		√	
	METALLOGRAPHY & MATERIAL TESTING LAB	10MEL37A	√		√	
	MECH. MEASUREMENTS & METROLOGY LAB	10MEL37B	√		√	
	FOUNDRY & FORGING LAB / MACHINE SHOP	10ME38A	√			
	MACHINE SHOP	10MEL38B	√			
	ENGINEERING MATHEMATICS - IV	10MAT41				
	APPLIED THERMODYNAMICS	10ME43	√		√	
	KINEMATICS OF MACHINES	10ME44	√		√	
	MANUFACTURING PROCESS II	10ME45	√		√	
3rd YEAR	MANAGEMENT AND ENTREPRENEURSHIP	10AL51	√			
	DESIGN OF MACHINE ELEMENTS I	10ME52	√			
	ENERGY ENGINEERING	10ME53			√	
	DYNAMICS OF MACHINES	10ME54	√		√	
	MANUFACTURING PROCESS III	10ME55	√		√	
	TURBO MACHINES	10ME56	√			
	FLUID MECHANICS & MACHINES LAB	10MEL57	√			
	ENERGY CONVERSION ENGG. LAB	10MEL58	√			
	COMPUTER INTEGRATED MANUFACTURING	10ME61			√	
	DESIGN OF MACHINE ELEMENTS II	10ME62	√			

	HEAT & MASS TRANSFER	10ME63				
	FINITE ELEMENT METHODS	10ME64	√		√	
	MECHATRONICS & MICROPROCESSOR	10ME65	√			
	NON-TRADITIONAL MACHINING	10ME665			√	
	HEAT & MASS TRANSFER LAB	10MEL67	√			
	CAMA LAB	10MEL68	√		√	
4TH YEAR	ECONOMICS	10ME7				
	MECHANICAL VIBRATIONS	10ME72			√	
	HYDRAULICS AND PNEUMATICS	10ME73	√		√	
	OPERATIONS RESEARCH	10ME74				
	TOTAL QUALITY MANAGEMENT	10ME758	√		√	
	SMART MATERIALS	10ME764	√		√	
	DESIGN LAB	10MEL77	√		√	
	CIM AND AUTOMATION LAB	10MEL78				
	OPERATIONS MANAGEMENT	10ME81				
	CONTROL ENGINEERING	10ME82	√			
	TRIBOLOGY	10ME831	√		√	
	AUTOMOTIVE ENGINEERING	10ME844	√		√	

ACADEMIC COMMITTEE CONVENER

Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bangalore- 560 057

HOD
M.E., Bangalore-560 057

SAPTHAGIRI COLLEGE OF ENGINEERING
DEPARTMENT OF MECHANICAL ENGINEERING
AY 2014-15

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