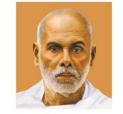


CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307

COURSE PLAN





CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307

COURSE PLAN THEORY



SREE NARAYANA GURU COLLEGE OF ENGINEERING **TECHNOLOGY**

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

COURSE PLAN SCHEDULE

Name of the faculty	Nimisha M.K
Designation	Assistant Professor
Faculty department name	Computer Science and Engineering
Name of the course with course code	COT 205 OF FOR ONE STATE OF
Department to which this course is offered	Computer Science and Engineering
Semester	THIRD
Academic Year	2022-23

1. COURSE OVERVIEW

This course is to enable learners to solve problems by breaking it down to object level while designing software and to implement it using Java. This course covers Object Oriented Principles, Object Oriented Programming in Java, Inheritance, Exception handling, Event handling, multithreaded programming and working with window-based graphics. This course helps the learners to develop Desktop GUI Applications, Mobile applications, Enterprise Applications, Scientific Applications and Web based CO 4: To provide basic exposure for the application of programs in J. snoitagaA

2. COURSE OBJECTIVE

- To introduce basic concepts of object oriented design and programming in java.
 - To give a thorough understanding of java languages
 - To provide basic exposure to basic of multithreading, data connectivity etc.
 - To impart the techniques of GUI based applications.

PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOMES

I. PROGRAM OUTCOMES

- ENGINEERING KNOWLEDGE
- PROBLEM ANALYSIS
- DESIGN / DEVELOPMENT OF SOLUTION
- CONDUCT INVESTIGATION OF COMPLEX PROBLEMS
- MODERN TOOL USAGE
- THE ENGINEER AND SOCIETY
- ENVIORNMENT AND SUSTAINABILITY
- **ETHICS**
- INDIVIDUAL AND TEAM WORK

- COMUNICATION
- PROJECT MANAGEMENT AND FINANCE
- LIFE LONG LEARNING

II. PROGRAM SPECIFIC OUTCOME

- PSO1:-Computer Science Specific Skills: The ability to identify, analyze and design solutions for complex engineering problems in multidisciplinary areas by understanding the core principles and concepts of computer science.
- PSO2:-Programming and Software Development Skills: The ability to acquire programming efficiency by designing algorithms and applying standard practices in software project development to deliver quality software products.

4. COURSE OUTCOME

- CO 1: To introduce basic concepts of object oriented design techniques and to understand the basis of java language.
- CO 2: To get thorough knowledge of java languages and to utilize the features of java like datatypes, operators, control statements etc and how to use the object oriented concepts classes, objects ,constructors, data hiding, inheritance and polymorphism.
- CO 3: To understand the utilization of built in packages & interfaces and to illustrate how robust programs can be written in Java using exception handling mechanism, Input/ Output Streams and Files in Java to develop programs
- CO 4: To provide basic exposure for the application of programs in Java using multithreading, String handling mechanism, collection framework and event handling mechanisms.
- CO 5: To impart the techniques of creating GUI based applications and database connectivity.

COURSE MAPPING

	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO	PSO	PSO
	8114	2	3	4	5	6	7	8	9	10	11	12	1	2
-								-21	ZOO	EHO	NA	(20)	19	i
CO1	M	L	L	L		1.OG		KNO	DMI	NEER	IDM	L	M	L
CO2	M	M	M	L			8	LYS	ANA	LEM	ROE	L	L	L
CO3	M	M	L	L	SOLL OF CC	301 0 KO	VIEIV BATI	LOP ESTI	INA	L	INO:	L	M	L
CO4	M	M	M	L			HOE	. USA	100	U.S.	OOR	L	L	1
CO5	L	M	M	L	MAB	IA I a	0.50	MA.	MEEN	NUII Drne	TVN	L	L	Dr. L PR

Course No.	Course Name	L-T-P - Credits	ojdO In	Year of troduction
CST 205	OBJECT ORIENTED PROGRAMMING USING JAVA	3-1-0-4 _{a eag}	Packs	2019
	COURSE PLAN	ges, Interfaces	Packa	
Module		tion Handling - Ch	Excep	Hours
8	Approaches to Software Design Oriented Design, Object Oriented Study of Automated Fire Alarm S	d Design, Case		. 101
	Object Modeling Using Unification Language (UML) – Basic Obconcepts, UML diagrams, Use cas diagram, Interaction diagram, Act	ied Modeling bject Oriented e model, Class tivity diagram.	Writin Stream Java	
I	State chart diagram. Introduction to Java - Java Environment and Runtime Development Platforms -Standa Java Virtual Machine (JVM), Bytecode, Java applet, Java Buprogram structure, Commer Collection, Lexical Issues.	programming Environment, and, Enterprise. Java compiler, azzwords, Java	Constr Operation Compa Strings Buffer Collect Interfac	8
01	Primitive Data types - Integers, I Types, Characters, Boolean. L Conversion and Casting, Varia Strings, Vector class.	Floating Point Literals, Type Libles, Arrays,	Collect Collect Event Delega	
	Operators - Arithmetic Operators, Relational Operators, Logical Operators, Assignment Conditional (Ternary) Operators, Precedence.	tors, Bitwise ors, Boolean ont Operator, Operator	Delega Multith Model, Creating Suspend	
II	Control Statements - Selecti Iteration Statements and Jump Stat	on Statements,	Swings	11
	Reference, Introduction to Constructors, this Keyword	Java - Class ects, Object Methods, d, Method	Model Compos Event Manage The Sw	Ŋ
	Overloading, Using Objects as Returning Objects, Recursion, Ac Static Members, Final Variables, Command Line Arguments, Var Arguments.	ccess Control, Inner Classes,		Dr. LEENA A V PRINCIPAL SREE NARAYANA GURU COLL ENGINEERING & TECHNOL ENGINEERING & TECHNOL

	Keyword <i>super</i> , protected Members, Calling Order of Constructors, Method Overriding, the
ar of Inciden	Uniect class Abstract Cl
	Packages and Interfaces - Defining Package, CLASSPATH, Access Protection, Importing Packages, Interfaces.
87110	Exception Handling - Checked Exceptions
III	Unchecked Exceptions, try Block and catch Clause, Multiple catch Clauses, Nested try Statements, thro throws and finally. Input/output - I/O Basics, Reading Console Input, Writing Compute Office of the Console Input,
	Streams and Serialization, Working with Files.
8	Java Library - String Handling - String Constructors, String Length, Special String Operations - Character Extraction, String Comparison, Searching Strings, Modifying Strings, using valueOf(), Comparison of String
IV	Collections framework - Collections overview, Collections Interfaces- Collection Interface, List Interface.
	Collections Class – ArrayList class. Accessing a Collection via an Iterator. Event handling - Event Handling Mechanisms, Delegation Event Model, Event Classes, Sources of Events, Event Listener Interfaces, Using the Delegation Model. Multithreaded Programming - The Java Thread Model, The Main Thread, Creating Thread, Creating Multiple Threads, Synchronization, Suspending, Resuming and Stopping Threads.
v	Swings fundamentals - Swing Key Features, Model View Controller (MVC), Swing Controls, Components and Containers, Swing Packages, Event Handling in Swings, Swing Layout Managers, Exploring Swings –JFrame, JLabel, The Swing Buttons, JTextField. 8 Java DataBase Connectivity (JDBC) - JDBC
	overview, Creating and Executing Queries – create table, delete, insert, select.

Inheritance - Super Class, Sub Class, The

Text Book:

1. Herbert Schildt, Java: The Complete Reference, 8/e, Tata McGraw Hill, 2011.

Garbage Collection, Lexical

- 2. Rajib Mall, Fundamentals of Software Engineering, 4th edition, PHI, 2014.
- 3. Paul Deitel, Harvey Deitel, Java How to Program, Early Objects 11th Edition, Pearson, 2018.

References:

Y. Daniel Liang, Introduction to Java Programming, 7/e, Pearson, 2013.
 Nageswararao R., Core Java: An Integrated Approach, Dramatic Press, 2008.
 Flanagan D., Java in A Nutshell, 5/e, O'Reilly, 2005.
 Barclay K., J. Savage, Object Oriented Design with UML and Java, Elsevier, 2004.

Sierra K., Head First Java, 2/e, O'Reilly, 2005.

Balagurusamy E., Programming JAVA a Primer, 5/e, McGraw Hill, 2014.

6. TEACHING PLAN

		MOD	ULE 1		ean Logical mment Ope	
Sl No:	Topic	Hours	Mode of Delivery	Planned Date	Actual	Course Outcome Number
1.1	Approaches to Software Design-Functional Oriented Design, Object- Oriented Design, Case Study of Automated Fire Alarm System.	1	L	ents ents e e e	tion Statement (cs' p statement (cs' p statement (cs) statement	L Select (teral
1.2	Object Modeling Using UML – Basic object oriented concepts	1	L	13/9/122	13/9/122	Progr Fund Objec
1.3	Basic object oriented concepts	1	L	14/9/20	13/9/22	finnoi 6 Consi
1.4	UML diagrams, Use case model	1	Т	16/9/22	14/9/22	1 _{Objec}
1.5	Class diagram, Interaction diagram	1	L	19/9/22	14/9/22	1 _{Recus}
1.6	Activity diagram, State chart diagram	1	L	90/4/.99	16/9/22	lani 1 8
1.7	Java programming Environment and Runtime Environment, Development Platforms -	1 .	L	23/9/22	24/9/22	Argun Argun Inheri Sub cl
1.0	Standard, Enterprise. JVM, Java compiler, Bytecode				protected ers,	Luc
1.8	Java applet, Java Buzzwords, Java program structure, Comments,	1	L	26/9/122	20/9/22	Dr. LEENA PRINCIPAL PRINCIPAL REE MARAYANA GURU C ENGRIEERING & TECH PAYYANUR, KAN

	Garbage Collection, Lexical					3
	Issues				1	Dest Book
	Ne, Tata McGraw Hill, 2011,	MOD	ULE 2	Nava: The C	Fr.	
2.1	Core Java Fundamentals: Primitive Data types, Integers, Floating Point Types, Characters, Boolean	о Рфуга	lav -L low	30/9/22	27/9/22	Pearl
2.2	Literals, Type Conversion and Casting, Variables, Arrays, Strings, Vector class.	ograpimir ted Appr Reilly, 200 Sesign wi	to Java Pri An Integra I Oriented I	3/10/122	90/4/57	O.Y 1 NEW 2 Flan Ban 4
2.3	Operators: Mill was Doll or	Primer, 5	ing JAVA a	E., Programm	gurusamy	o Bala
	Arithmetic Operators, Bitwise Operators, Relational Operators, Boolean Logical Operators, Assignment Operator,	13.	паом	10/0/12		
teut puro	Conditional (Ternary) Operator, Operator Precedence.	Mode of Delivery		2	цоТ	109
2.4	Control Statements: Selection Statements, Iteration Statements and Jump Statements.	1 	T .	65' 01 01	7/10/12	
2.5	Object Oriented Programming in Java: Class Fundamentals, Declaring Objects, Object Reference, Introduction to Methods	1	L	11/10/22	П	Syste Syste Object UMU orien
2.6	Constructors, <i>this</i> Keyword, Method Overloading, Using Objects as Parameters	1	L	cs or by	18/10/21	012840 20002 2 JMU +
2.7	Returning Objects, Recursion, Access Control, static Members	1	L	14/10/22	13/16/22	esom esoci esoci esoci esoci
2.8	Final Variables, Inner Classes, Command-Line Arguments, Variable Length Arguments	1	L	State char	ly diagram	Activita 2 lagra lava nviil
2.9	Inheritance: Super class, Sub class, the keywords super, protected Members,	1 1.	L	18/10/22	17/10/22	2 Jun
2.10	Calling Order of Constructors, Method Overriding, the Object class,	1	L	29/10/22	18/10/22	Dr. LEENA PRINCIPAL REE NARAYANA GURUG ENGRIEERING & TECH PAYYANUR, KAN

2.11	Abstract Classes and Methods, Using <i>final</i> with Inheritance	1	L	26/10/12	19/19/2	DA 2
	Lala orthise	MOI	DULE 3	anisms,	dice Mech	msH PN
3.1	Packages and Interfaces: Defining Package, CLASSPATH, Access Protection, Importing	1	Т	nt Niodel,	. 100	Eve Sou
3.2	Packages Interfaces	1	L	31/10/12	26/10/22	
3.3	Input / Output: I/O Basics, Reading Console Input, Writing Console Output, Print Writer Class	1	L	he lave	wamming ad Model	port 3 priff 3 priff 4
3.4	Object Streams and Serialization	1	L	2/11/22	2/11/22	Symus 3
3.5	Working with Files	1	L	4/11/20	9/11/22	3
3.6	Exception Handling: Checked Exceptions, Unchecked Exceptions, try Block and catch Clause	E 3.	MODUL	9 n 122	31/10/22	Swin S
3.7	Multiple catch Clauses, Nested try Statements	1	L	9/4/.95	26/11/24	Time 3
3.8	throw, throws and finally	1	L	11/11/122	28/1/22	niw 2 3 swin
	10 21 3 68 21 31	MOD	OULE 4			
4.1	Java Library: String Handling – String Constructors, String Length, Special String Operations	1	L	g Buttons Creating	29/11/22	Lept VI.ab ITex
4.2	Character Extraction, String Comparison, Searching Strings, Modifying Strings Using	1	Т	15 11/122	table, dele (Basics on	A createst selections of the course of the c
	valueOf(), Comparison of String Buffer and String.		1	16/11/40	ting and Extens es - create	Crea Quer
4.3	Collections framework – Collections overview, Collections Interfaces- Collection Interface	1	L	18 1 22 and 181	@ 1a 224	Dr. LEENA A V PRINCIPAL BARAYANA GURU CE
4.4	List Interface, Collections Class – ArrayList Class	1.лг	TUT LIST	2/11/22	د مد ادم	PAYYANUR, KARINUI

4.5	Accessing Collections via an Iterator.	1	L	evinles	3/12/22	dA LLS
4.6	Event handling: Event Handling Mechanisms, Delegation Event Model	1 6 3 J	T T	₹3/n 'a2	5/R) 1da	4
4.7	Delegation Event Model, Event Classes	1	L	25/11/22	5/12/22	4 Del
4.8	Sources of Events, Event Listener Interfaces, Using the Delegation Model	1	L	26,11/198	6/12/82	orq 4
4.9	Multithreaded Programming: The Java	1	T			igni Č.
	Thread Model, The Main Thread, Creating Thread	j	*	or line 1 st	spolar	4 Rea Wn
4.10	Creating Multiple Threads, Synchronization, Suspending, Resuming and	1_	L	3/18/22	efection.	Prin Obju
	Stopping Threads.	MOD		251	ارلال	oW
5.1	Swings fundamentals, Swing Key Features	1	T	6/12/122	7/2/38	Che Una
5.2	MVC, Swing Controls, Components and Containers	1	L	7/12/122	7/12/22	full 5
5.3	Swing Packages, Event Handling in Swings.	1	L	9/12/120	ed try State	Nest
5.4	Swing Layout Managers	1	L	12/12/2	المرادع لاء	5
5.5	Exploring Swings –JFrame, JLabel, The Swing Buttons, JTextField.	1 _	L	13/12/22	14/12/th	Java Llan
5.6	JDBC overview, Creating and Executing Queries	1	T	perations	nal String O	25000
	create table, delete, insert, select (Basics only, DBMS course is not prerequisite).	T	1	14/12/22	डिविधि	Suring Senion Senion
5.7	Creating and Executing Queries – create table, delete, insert, select.	1	L	19/12/22	15/12/22. D	7. LEENA A V PRINCIPAL RAYANA GURU COLLE
5.8	Creating and Executing Queries – create table, delete, insert, select.	1	Т	21/12/22	3/1/22	S S

7. GRADING METHODS

Module	Series Test	Assignment	Class Test	Quiz	Tutorial
1	X		Strate Library		X
2	X	0/322337	AND THE STATE OF		X
3	X	TO COURT IN			X
4	X	363 TO	EPARIMENT		Y
5	×				X

8. GAPS IN THE SYLLABUS

Sl No	Topic	Remedy	Affected CO	Affected PO	Affected PSO
1	HTML	bearning materials	1,2,3,4,5	1,2,3,4,12	1

9. CONTENT BEYOND SYLLABUS

CO	PO	PSO
1,5	1,2,3,4,12 GOH To	1 red signature
	1,5	

10. SUBJECT HISTORY

- ✓ Year Of Introduction of the subject 2019
- ✓ Faculty Handled Just before this time –Ms.NIMISHA M.K.
- ✓ Pass Percentage during last three years 62
- ✓ Target Pass Percentage 69.6
- 11. Any other important matter to be brought into consideration:

Nill

Manual Prepared by:

NIMISHA M.K ASSISTANT PROFESSOR DEPARTMENT OF CSE Dr. LEENA A V
PRINCIPAL
SREE NARAYANA GURU COLLEGE OF
ENGINEERING & TECHNOLOGY
PAYYANUR, KANNUR

Approved by:

	,	VEENA K.K			
		ASSISTANT PR	OFESSOR		
		DEPARTMENT			
		DEI MINIEMI	OF CSE	Χ.	
X					

8. GAPS IN THE SYLLABUS

Dated signature of faculty member

Affected	Affected	Remedy Affected		
		31/8/18	HTML	

Dated signature of Module Coordinator

A CONTENT BEYOND SYLLABUS

Affected PSO			Deere page	
Dated signature	of HOD So	nem	LAB SESSION H	

O. SUBJECT HISTORY

Faculty Handled Just before this A ANSALINGHA M.K.

PRINCIPAL

PRINCIPAL

SREE NARAYANA GURU COLLEGE OF

SREENG & TECHNOLOGY, PAYYANUR

ENGINEERING & TECHNOLOGY, PAYYANUR

KANNUR

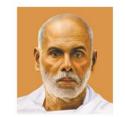
√ Target Pass Percentage - 69.6

11 Any other important matter to be brought into consideration

Manual Prepared by

NIMISHA M.K ASSISTANT PROFESSOR DEPARTMENT OF CSE





CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307

COURSE PLAN LAB



SREE NARAYANA GURU COLLEGE OF ENGINEERING *** TECHNOLOGY

DEPARTMENT OF MECHANICAL ENGINEERING

COURSE PLAN SCHEDULE – LABORATORY COURSE

Name of the faculty	JACOB THOMAS
Designation	ASSISTANT PROFESSOR
Faculty department name	MECHANICAL DEPARTMENT
Name of the course with course	MEL 332: COMPUTER AIDED DESIGN AND
code	ANALYSIS LAB.
Semester	SIXTH
Academic Year	2022-2023

 COURSE OVERVIEW: - The course is designed to train students to have hand on experience on using various application software for design and analysis of any type of projects in the platform of mechanical engineering. Students will be introduced to a team working environment where they develop the necessary skills for planning, preparing and executing an engineering project.

2. COURSE OBJECTIVE

To introduce students to the basics and standards of engineering design and analysis related to machine components.

To make students familiarize with different solid modelling and analysis software.

To convey the principles and requirements of modelling and analysis of machine elements.

To introduce the preparation of part modelling and assembly modelling of machineries.

To introduce standard CAD packages to perform Finite Element Analysis of machine parts.

PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOMES

I. PROGRAM OUTCOMES

- ENGINEERING KNOWLEDGE
- PROBLEM ANALYSIS
- DESIGN / DEVELOPMENT OF SOLUTION
- CONDUCT INVESTIGATION OF COMPLEX PROBLEMS
- MODERN TOOL USAGE
- THE ENGINEER AND SOCIETY
- ENVIORNMENT AND SUSTAINABILITY
- ETHICS
- INDIVIDUAL AND TEAM WORK
- COMUNICATION
- PROJECT MANAGEMENT AND FINANCE
- LIFE LONG LEARNING

II. PROGRAM SPECIFIC OUTCOME

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ENGVANUR KANNUR

PSO1: Develop and implement new ideas on product design and development with the help of CAD/CAM tools while ensuring best manufacturing practices **PSO2:** Able to integrate and apply knowledge in the solution of interdisciplinary engineering problems.

3. COURSE OUTCOME

CO1: Gain working knowledge in Computer Aided Design and modelling procedures.

CO2: Gain knowledge in creating solid machinery parts.

CO3: Gain knowledge in assembling machine elements.

CO4: Gain working knowledge in Finite Element Analysis.

CO5: Solve simple structural, heat and fluid flow problems using standard software.

COURSE MAPPING

	PO 1	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO	PO	PSO	PSO
		2	3	4	5	6	7	8	9	10	11	12	1	2
CO1	Н									M	-,			
CO2	Н		L		Turniensi	SAN S	621	na de	T- :	Н	Hay	O R	HUOC	
CO3	Н	Н	OP, U	10 14 121 2			resin.	milan	M	M	nizu f	0 90f	xperie	
CO4	Н	L	Н	16 VID	OF OR			L	M	Н	e selt i	ri ztos	iora 1	
CO5	Н	Н	M	ic iii	meen	I SUL	SOUTH	M	Н	Н		decur	repet	21

4. SYLLABUS

SL.NO	PART - A (Minimum 6 models)	COURSE OUTCOMES	HOURS	
s softwar is of m	Creation of high end part models (minimum 2 models, Questions for examinations must not be taken from this portions)	CO1, CO2	6	
ulləbəm 2 3m 10 siz	Creating assembly models of Socket and spigot joint, Knuckle Joint, Rigid flange couplings, Bushed Pin flexible coupling, Plummer block, Single plate clutch and Cone friction clutch. Pipe joints, Screw jack, Tail stock etc. (minimum 4 models)	CO1, CO2, CO3	11 12 6Q	
6.11	PART - B (Minimum 6 problems)	LOCKETT I		
3	Structural analysis. (minimum 3 problems)	CO4, CO5	6	
4	Thermal analysis. (minimum 2 problems)	CO4, CO5	3	
5	Fluid flow analysis. (minimum 1 problem)	CO4, CO5	3	

5 TEXT BOOKS:

- Daryl Logan, A First course in Finite Element Method, Thomson Learning, 2007
- David V Hutton, Fundamentals of Finite Element Analysis, Tata McGraw Hill, 2003
- 3. Ibrahim Zeid, CAD/ CAM Theory and Practice, McGraw Hill, 2007
- Mikell P. Groover and Emory W. Zimmer, CAD/ CAM Computer aided design and manufacturing, Pearson Education, 1987
- 5. T. R. Chandrupatla and A. D. Belagundu, Introduction to Finite Elements in Engineering, Pearson Education, 2012

Dr. LEENA A V
PRINCIPAL
SREE NARAYANA GURU COLLEGE OF
ENGINEERING & TECHNOLOGY
ENGINEERING & TROUNDER
SAYYANUR KANNUR

TEACHING PLAN

		CYCLE 1		
Exp No:	Planned Date	EXPERIMENT NAME	COURSE OUTCOME	Actual Date
1	7/2/23	Part modelling	1,2	14/02/23
2	14/2/23	Part modelling	1,2	28/02/23
3	21/2/23	Gib and Cotter joint	1,2,3	07/03/23
4	28/2/23	Rigid flanged coupling	1,2,3	14/03/23
5	7/3/23	Knuckle joint assembly	1,2,3	21/03/23
6	14/3/23	Plummer block assembly	1,2,3	28/03/23
7	21/3/23	Structural analysis	4,5	04/04/23
8	28/3/23	Structural analysis	4,5	11/04/23
9	4/4/23	Structural analysis	4,5	11/03/23
10	11/4/23	Motion study of Screw and Nut	4,5	18/04/23
11	18/4/23	Thermal analysis	4,5	18/06/23
12	25/4/23	Fluid flow analysis	4,5	20/06/23

6. Subject History

- ✓ Year Of Introduction of the lab 2019
- ✓ Faculty Handled Just before this time Jacob Thomas
- ✓ Pass Percentage during last three years 100%
- ✓ Target Pass Percentage 100%
- 7. Any other important matter to be brought into consideration:

Manual Prepared by:

<JACOB THOMAS, AP ME>

Approved by:

Dr. LEENA A V
PRINCIPAL
SREE NARAYANA GURU COLLEG
ENGINEERING & TECHNOLOT

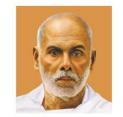
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Dated signature of HOD

Dr. LEENA A V
PRINCIPAL
REE NARAYANA GURU COLLEGE OF
ENGREERING & TECHNOLOGY
PRYYANUR KANNUR





CHALAKKODE P.O., KOROM, PAYYANUR, KANNUR-670 307

COURSE PLAN PROJECT



SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

COURSE PLAN SCHEDULE

Name of the faculty	LEENA NARAYANAN / VANI R/MEERA M
Designation	ASSISTANT PROFESSOR
Faculty department name	ELECTRONICS AND COMMUNICATION ENGINEERING
Name of the course with course code	ECD416 PROJECT PHASE II
Department to which this course is offered	ELECTRONICS AND COMMUNICATION ENGINEERING
Semester	EIGHTH
Academic Year	2022-23

1. COURSE OVERVIEW

- The course 'Project Work' is mainly intended to evoke the innovation and invention skills in a student.
- The course will provide an opportunity to synthesize and apply the knowledge and analytical skills learned, to be developed as a prototype or simulation.

2. COURSE OBJECTIVES

- · To apply engineering knowledge in practical problem solving.
- To foster innovation in design of products, processes or systems.
- To develop creative thinking in finding viable solutions to engineering problems.

3. PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOMES

I. PROGRAM OUTCOMES

- ENGINEERING KNOWLEDGE
- PROBLEM ANALYSIS
- DESIGN / DEVELOPMENT OF SOLUTION
- CONDUCT INVESTIGATION OF COMPLEX PROBLEMS
- MODERN TOOL USAGE
- THE ENGINEER AND SOCIETY
- ENVIORNMENT AND SUSTAINABILITY
- ETHICS

Dr. LEENA A V
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ENGRIEERING & TECHNOLOGY

- INDIVIDUAL AND TEAM WORK
- COMMUNICATION
- PROJECT MANAGEMENT AND FINANCE
- LIFE LONG LEARNING

II. PROGRAM SPECIFIC OUTCOMES

PSO 1 - To demonstrate skills of students in designing, implementing and testing analog and digital electronic circuits, including microprocessor systems, for signal processing, communication, networking, VLSI and embedded systems applications.

PSO 2 - Apply their knowledge and skills to conduct experiments and develop applications using electronic design automation (EDA) tools.

4. COURSE OUTCOMES

CO 1: Students will be able to Model and solve real world problems by applying knowledge across domains.

CO 2: Students will be able to Develop products, processes or technologies for sustainable and socially relevant applications.

CO 3: Students will be able to Function effectively as an individual and as a leader in diverse teams and to comprehend and execute designated tasks.

CO 4: Students will be able to Plan and execute tasks utilizing available resources within timelines, following ethical and professional norms.

CO 5: Students will be able to Identify technology/research gaps and propose innovative/creative solutions.

CO 6: Students will be able to Organize and communicate technical and scientific findings effectively in written and oral forms.

5. COURSE MAPPING

	PO	PSO	PSO											
	1	2	3	4	5	6	7	8	9	10	11	12	1	2
COI	M	M	M	L	M	М	M	L	L	L	L	M	H	M
CO2	M	M	М		L	Н	Н	L	L		L	L	Н	H
CO3									Н	M	M	L		
CO4					М			Н	M	М	Н	M		
CO5	М	Н	Н	L	М	ļ						L	Н	М
CO6					M			M	М	Н	L	L		

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6. COURSE PLAN

In depth study of the topic: 1 week

Review and finalization of the approach to the problem: 1 week

Action plan for conducting the investigation: 1 week

Detailed Analysis/ Modeling / Simulation/ Design/ Problem Solving: 1 week

Experimenting the work:1 week
Testing the results: 1 week

Final development of product: 1 week
Preparation of Phase II report: 1 week

7. PRESENTATION PLAN FOR PROJECT

Presentation Number	Planned Date	Actual Date	Theme of evaluation	Percentage of marks considered for final calculation
0	03. 02. 2023 10. 02. 2023 17. 02. 2023	03/02/2023	IN DEPTH STUDY OF THE TOPIC	
1	27.02.2023 03.03.2023	06/03/2023	FIRST INTERIM EVALUATION AND FINALIZATION OF THE APPROACH TO THE PROBLEM	25%
2	10.03.2023	13/03/2023	ACTION PLAN FOR CONDUCTING THE INVESTIGATION	
3	15.03.2023 16.03.2023	27/08/2023	DETAILED ANALYSIS/DESIGN/ PROBLEM SOLVING	
4	30.03.2023 31.03.2023	03/04/2023	EXPERIMENTING THE WORK	
5	04.04.2023	5 4 2023	SECOND INTERIM EVALUATION	257.
6	10.04.2023 12.04.2023	15/5/2023	TESTING THE RESULTS	
7	17.04:2023 19.04:2023 20.04:2023	19/5/2023	FINAL DEVELOPMENT OF PRODUCT	¥
8	02.05.2023	23/6/2023	FINAL EVALUATION	AOY.
9	24.04.2023	2615/2023	PHASE I REPORT	10%

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8. Any other important matter to be brought into consideration:

Manual Prepared by: LEENA NARAYANAN / VANI R/ MEERA M

Dated signature of faculty member

Unuls 4/2/23

Dated signature of Module Coordinator

2023

Dated signature of HOD

412/23

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COURSE PLAN SEMINAR



SREE NARAYANA GURU COLLEGE OF ENGINEERING LE TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

COURSE PLAN SCHEDULE

Name of the faculty	Mr. VAISHAKH M NAYANAR/ARCHANA CP/ABHILASH KRISHNAN T K
Faculty department name	EEE
Name of the course with course code	EEQ 413 SEMINAR
Department to which this course is offered	EEE
Semester	7 th
Academic Year	2022-2023

COURSE OVERVIEW

The course 'Seminar' is intended to enable a B.Tech graduate to read, understand, present and prepare report about an academic document. The learner shall search in the literature including peer reviewed journals, conference, books, project reports etc., and identify an appropriate paper/thesis/report in her/his area of interest, in consultation with her/his seminar guide. This course can help the learner to experience how a presentation can be made about a selected academic document and also empower her/him to prepare a technical report

COURSE OBJECTIVE

- 1. To do literature survey in a selected area of study.
- 2. .To understand an academic document from the literate and to give a presentation about it.
- To prepare a technical report

PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOMES

I. PROGRAM OUTCOMES

- ENGINEERING KNOWLEDGE
- PROBLEM ANALYSIS
- DESIGN / DEVELOPMENT OF SOLUTION
- CONDUCT INVESTIGATION OF COMPLEX PROBLEMS
- MODERN TOOL USAGE

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- THE ENGINEER AND SOCIETY
- ENVIORNMENT AND SUSTAINABILITY
- ETHICS
- INDIVIDUAL AND TEAM WORK
- COMUNICATION
- PROJECT MANAGEMENT AND FINANCE
- LIFE LONG LEARNING

II. PROGRAM SPECIFIC OUTCOME

- PSO 1 -An ability to analyse and design electrical machinery, electrical and electronic circuits, electrical and solid state drive systems, lightning systems and deliver technological solution by assimilating advances in allied disciplines
- PSO 2-Able to provide socially acceptable technical solution to complex electrical engineering problems with the application of modern and appropriate techniques for sustainable development

III. COURSE OUTCOME

	Identify academic documents from the literature which are related to her/his areas of
CO1	interest (Cognitive knowledge level: Apply).
	Read and apprehend an academic document from the literature which is related to
CO2	her/ his areas of interest (Cognitive knowledge level: Analyze).
	Prepare a presentation about an academic document (Cognitive knowledge
CO3	1
	Give a presentation about an academic document (Cognitive knowledge level:
CO4	Apply).
CO5	Prepare a technical report (Cognitive knowledge level: Create).

COURSE MAPPING

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
			1		2	1					3_
2	2	2	3		2	1				94.200	3
3		ے		3			1	and the	. 2		3
_3				2			_ 1		3	,	_ 3
3	3	3	3	2	2		2		3	Xu	3
	PO1 2 3 3 3	PO1 PO2 2 2 3 3 3 2 3 3	PO1 PO2 PO3 2 2 1 3 3 2 3 2 3 3 3	PO1 PO2 PO3 PO4 2 2 1 1 3 3 2 3 3 2 3 3 3 3	PO1 PO2 PO3 PO4 PO5 2 2 1 1 3 3 2 3 3 2 3 3 2 3 3 3 3 2	PO1 PO2 PO3 PO4 PO5 PO6 2 2 1 1 2 3 3 2 3 2 3 2 3 3 2 3 3 3 3 2 2	PO1 PO2 PO3 PO4 PO5 PO6 PO7 2 2 1 1 2 1 3 3 2 3 2 1 3 2 3 3 2 1 3 3 3 3 2 2 1	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 2 2 1 1 2 1 1 3 3 2 3 2 1 1 3 2 3 3 1 1 3 3 3 2 2 1	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 2 2 1 1 2 1 -	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 2 2 1 1 2 1 -	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO10 PO11 2 2 1 1 2 1 -

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3 - STRONG, 2 - MEDIUM, 1 - WEEK

	Abstract POs defined by National Board of Accreditation							
PO#	Broad PO	PO#	Broad PO					
PO1	Engineering Knowledge	PO7	Environment and Sustainability					
PO2	Problem Analysis	PO8	Ethics					
PO3	Design/Development of solutions	PO9	Individual and team work					
PO4	Conduct investigations of complex problems	PO10	Communication					
PO5	Modern tool usage	PO11	Project Management and Finance					
PO6	The Engineer and Society	PO12	Life long learning					

IV. SYLLABUS

General Guidelines

- The Department shall form an Internal Evaluation Committee (IEC) for the seminar with academic coordinator for that program as the Chairperson/Chairman and seminar coordinator & seminar guide as members. During the seminar presentation of a student, all members of IEC shall be present.
- Formation of IEC and guide allotment shall be completed within a week after the University examination (or last working day) of the previous semester.
- Guide shall provide required input to their students regarding the selection of topic/paper.
- Choosing a seminar topic: The topic for a UG seminar should be current and broad based rather than a very specific research work. It's advisable to choose a topic for the Seminar to be closely linked to the final year project area. Every member of the project team could choose or be assigned Seminar topics that covers various aspects linked to the Project area.

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- A topic/paper relevant to the discipline shall be selected by the student during the semester break.
- Topic/Paper shall be finalized in the first week of the semester and shall be submitted to the IEC.
- The IEC shall approve the selected topic/paper by the second week of the semester.
- Accurate references from genuine peer reviewed published material to be given in the report and to be verified.

SEMINAR PLAN

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STAGES	PLANNED DATE	ACTUAL DATE	THEME OF EVALUAT ION	PERCENTAGE OF MARKS CONSIDERED FOR FINAL CALCULATION
1	હેલીજીવીરફ	28 જીવિવ	Topic Selection	20 √.
2	18/10/28	47 10 a027	Zeroth Review	} 201.
3	19/10/24	man in Contraction	Zeroth Review	
4	ક લા ાગ્ય	૩ ૦ ૫ ૧ અ ૦૧૩	1 st review	201.
5	ब्बाावर	०२। १२। ४०८३	2 nd review	201.
6	16l II ી ચ ર	10 व वन्बर	draft	201
7	aslulaa	। ह्या बाब	Report Submission final	Luc
				Dr. LEENA AV

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ENGREERING & TECHNOLOGY

Manual Prepared by:

Mr. VAISHAKH M NAYANAR/Ms.ARCHANA CP/.

Approved by:

PROF.RAVEENDRAN K, HOD EEE

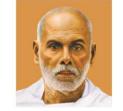
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Dated signature of HOD

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COURSE PLAN COMPREHENSIVE COURSE WORK



SREE NARAYANA GURU COLLEGE OF ENGINEERING & TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

COURSE PLAN SCHEDULE

Name of the faculty	Ms. REVATHI P
Designation	Assistant Professor
Faculty department name	Civil Engineering
Name of the course with course code	CET 308 Comprehensive Course Work
Department to which this course is offered	Civil Engineering
Semester	VI
Academic Year	2022-23

1. COURSE OVERVIEW

The course is designed to ensure that the student have firmly grasped the foundational knowledge in Civil Engineering familiar enough with the technological concepts. It provides an opportunity for the students to demonstrate their knowledge in various Civil Engineering subjects.

2. COURSE OBJECTIVE

1.To practice more with core subjects for cracking Gate, placement test and other competitive examinations

3. PROGRAM OUTCOMES AND PROGRAM SPECIFIC OUTCOMES

I. PROGRAM OUTCOMES

- ENGINEERING KNOWLEDGE
- PROBLEM ANALYSIS
- DESIGN / DEVELOPMENT OF SOLUTION
- CONDUCT INVESTIGATION OF COMPLEX PROBLEMS
- MODERN TOOL USAGE
- THE ENGINEER AND SOCIETY
- ENVIORNMENT AND SUSTAINABILITY
- ETHICS
- INDIVIDUAL AND TEAM WORK
- COMUNICATION
- PROJECT MANAGEMENT AND FINANCE
- LIFE LONG LEARNING

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II. PROGRAM SPECIFIC OUTCOME

- III. **PSO 1**—Demonstrate in-depth knowledge in the analysis, design, experimental research and construction aspects of civil engineering structures
- IV. PSO 2 -Apply the concept of sustainability in Civil Engineering

4. COURSE OUTCOME

- CO 1 Learn to prepare for a competitive examination
- CO 2: Comprehend the questions in Civil Engineering field and answer them with confidence
- CO 3 Communicate effectively with faculty in scholarly environments ·
- CO 4: Analyze the comprehensive knowledge gained in basic courses in the field of Civil Engineering

5. COURSE MAPPING

	PO	PSO	PSO											
	1	2	3	4	5	6	7	8	9	10	11	12	1	2
CO1	3	1	1			2							1	1
CO2	3	1				2			3					
CO3	3	1			1	2			3					1
CO4	3	3			1	2								

6. SYLLABUS

CET 201- Mechanics of Solids

CET 203- Fluid Mechanics and Hydraulics

CET 205- Surveying& Geomatics

CET 204- Geotechnical Engineering I

CET 309-Construction Technology and Management

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7. TEACHING PLAN

SL No:	TOPIC	No of Lectures
1	Mechanics of Solids	
1.1	Mock Test on Module 1 and Module 2	1
1.2	Mock Test on Module 3, Module 4 and Module 5	1
2	Fluid Mechanics and Hydraulics	1
2.1	Mock Test on Module 1, Module 2 and Module 3	1
2.2	Mock Test on Module 4 and Module 5	1
3	Surveying& Geomatics	1
3.1	Mock Test on Module 1 and Module 2	1
3.2	Mock Test on Module 3, Module 4 and Module 5	1
3.3	Feedback and Remedial	1
4	Geotechnical Engineering I	1
4.1	Mock Test on Module 1, Module 2 and Module 3	1
4.2	Mock Test on Module 4 and Module 5	1
5	Construction Technology and Management	1
5.1	Mock Test on Module 1, Module 2 and Module 3	1
5.2	Mock Test on Module 4 and Module 5	1
6	Construction Technology and Management	1
6.1	Mock Test on Module 1, Module 2 and Module 3	1
6.2	Mock Test on Module 4 and Module 5	1
6.3	Feedback and Remedial	1

8. Subject History

- ✓ Year of Introduction of the Subject 2022
- ✓ Faculty Handled Just before this time Da. Susan Abraham
- ✓ Pass Percentage during last three years 66.67/
- ✓ Target Pass Percentage 85
- ✓ The following is the formula for calculating the target percentage of a subject.
- 9. Any other important matter to be brought into consideration:

Dr. LEENA A V
PRINCIPAL
SREE NARAYANA GURU COLLEGE OF
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ENGINEERING A TECHNOLOGY

Manual Prepared by:

Ms. REVATHI P

ASSISTANT PROFESSOR

DEPARTMENT OF CE

Approved by:

Dr. susan Abraham Associate professon Department of ce

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Dated signature of Module Coordinator

Linauda 3/2/28

Dated signature of HOD

Dr. LEENA A V
PRINCIPAL
SREE NARAYANA GURU COLLEGE OF
ENGINEERING & TECHNOLOGY
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