K L Deemed to be University
Department of CSE -- KLVZA
Course Handout
2020-2021, Even Sem

Course Title	:Technical Skilling (PFSD + Comp.Coding)
Course Code	:19TS2201S
L-T-P-S Structure	: 0-0-0-8
Pre-requisite	:
Credits	: 2
Course Coordinator	:MADHURI KOMMINENI
Team of Instructors	:
Teaching Associates	:

Syllabus : PYTHON Attributes, Properties, Methods and there Types. NameSpaces Constructors, OOps Concepts- Inheritance, Abstraction, Encapsulation, Polymorphism. Collections, Exception Handling. Basic Modules-DateTime, OS, Random, RE. File Handling. GIT- Git Integration with PYcharm IDE, PyTests- Introduction, Installation, Integrating pytest to Pycharm IDE, Assertions, running subset of tests from test suite, Run tests in parallel, fixtures, parameterized tests. Python connectivity with Databases MYSQL, MongoDB CRUD operations. ========== Flask Introduction Introduction to Web Key features and key terms in Web Client-Server Architecture About Flask framework Characteristics of Flask framework Installation in Virtual Environment Flask application structure Phases in Flask Application Creation Routing App Settings URL Building HTTP methods Templates Working with Static, Media Files Request Objects Sending Form Data to Template Advanced Features of Flask Pagination Database connectivity Sqlite3,MySQL Page Restrictions using decorators Cookies Sessions Handling Exceptions and Errors Flash Message Working with Mails App Deployment ========== Introduction Introduction to Web Key features and key terms in Web Client-Server Architecture Features of Django framework Characteristics of Django framework Installation in Virtual Environment Django commands Phases in Django Project Creation Create a Project Creation of Apps and their Structure Working with ADMIN Console Creating Views URL Mapping Template System Working with Models Page Re-directions Set-up E-Mails Types of Views Form Processing static,media files handling ========== Advanced Features of Django Pagination Database connectivity Sqlite3,MySQL Page Restrictions using decorators Cookies Sessions Caching,Migrations Deployment Free Web Hosting Domains Arrays LinkedList Stack Queue MinMax Strings Sort Binary Search Recursion

Text Books : Python Cookbook, Third Edition, by David Beazley and Brian K. Jones Django for Beginners: Build Websites with Python and Django

MOOCS :https://www.linkedin.com/learning/paths/become-a-python-developer https://www.linkedin.com/learning/paths/advance-your-skills-in-python

COURSE OUTCOMES (COs):

CO NO	Course Outcome (CO)	PO/PSO	Blooms Taxonomy Level (BTL)
CO5	Analyse and apply suitable design technique to solve given real world problems.	PSO2,PO3	4

COURSE OUTCOME INDICATORS (COIs)::

Outcome No.	Highest BTL	COI-4
CO5	4	**Btl-4** Analyse and apply suitable design technique to solve given real world problems.

PROGRAM OUTCOMES & PROGRAM SPECIFIC OUTCOMES (POs/PSOs)

Po No.	Program Outcome
PO1	Engineering Knowledge :An ability to apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization for the solution of complex engineering problems in engineering
PO2	Problem Analysis :An ability to identify, formulate, research literature, analyze complex engineering problems in mechanical engineering using first principles of mathematics, natural sciences and engineering sciences
PO3	Design/ development of solutions :An ability to design solutions for complex engineering problems and system component or processes that meet the specified needs considering public health & safety and cultural, societal & environment
PO4	Conduct investigations of complex problems :An ability to use research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of the information to obtain solutions to engineering problems
PO5	Modern tool usage :Ability to create, select and apply appropriate techniques, resources and modern engineering activities, with an understanding of the limitations
PO6	The engineer and society :Ability to apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice
PO7	Environment and sustainability Ability to demonstrate the knowledge of engineering solutions, contemporary issues understanding their impacts on societal and environmental contexts, leading towards sustainable development
PO8	Ethics : An ability to apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice
PO9	Individual and team work :An ability to function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings
PO10	Communication :Ability to communicate effectively oral, written reports and graphical forms on complex engineering activities
PO11	Project management and finance :Ability to demonstrate knowledge and understanding of the engineering and management principles and apply those one’s own work, as a member and leader in team, to manage projects and in multi-disciplinary environments
PO12	Lifelong learning An ability to recognize the need for and having the preparation and ability to engage independent and life-long learning in broadest context of technological change
PSO1	An ability to design and develop software projects as well as Analyze and test user requirements.
PSO2	An Ability to gain working Knowledge on emerging software tools and technologies.

Lecture Course DELIVERY Plan: NO Delivery Plan Exists

Lecture Session wise Teaching – Learning Plan

No Session Plans Exists

Tutorial Course DELIVERY Plan: NO Delivery Plan Exists

Tutorial Session wise Teaching – Learning Plan

No Session Plans Exists

Practical Course DELIVERY Plan: NO Delivery Plan Exists

Practical Session wise Teaching – Learning Plan

No Session Plans Exists

Skilling Course DELIVERY Plan:

Skilling session no	Topics/Experiments	CO-Mapping
1	Attributes, Properties, Methods and there Types. NameSpaces Constructors	CO5
2	OOps Concepts- Inheritance, Abstraction, Encapsulation, Polymorphism. Collections,	CO5
3	problems for Arrays	CO5
4	Problem on Arrays	CO5
5	Collections,Exception Handling.	CO5
6	Modules-DateTime, OS	CO5
7	PyTests	CO5
8	Python Database Connectivity	CO5
9	Web,Client-Server Architecture	CO5
10	Virtual Environment, Flask application structure	CO5
11	URL Building, HTTP methods	CO5
12	Request Objects, Sending Form Data to Template	CO5
13	Page Restrictions using decorators, Cookies, Sessions, Handling Exceptions and Errors	CO5
14	Flash Message, Working with Mails	CO5
15	Django Client-Server Architecture	CO5
16	ADMIN Console	CO5
17	Views, URL Mapping	CO5
18	Models	CO5
19	Set-up E-Mails	CO5

Skilling session no	Topics/Experiments	CO-Mapping
20	Form Processing	CO5
21	Database connectivity in Django	CO5
22	Pagination,Cookies	CO5
23	Sessions	CO5
24	Caching, Migrations	CO5
25	App Deployment	CO5
26	Web Hosting Domains	CO5
27	Problems on Arrays	CO5
28	Problems on Arrays	CO5
29	Problems on Arrays	CO5
30	Problems on Arrays	CO5
31	Problems on Linked List	CO5
32	Problems on Linked List	CO5
33	Problems on Stack	CO5
34	Problems on Stack	CO5
35	Problems on queue	CO5
36	Problems on Queue	CO5
37	Problems on Strings	CO5
38	Problems on Strings	CO5
39	Problems on String	CO5
40	Problems on Strings	CO5
41	Problems on Strings	CO5
42	Problems on Strings	CO5
43	Problems on Sorting	CO5

Skilling session no	Topics/Experiments	CO-Mapping
44	Problems on Sorting	CO5
45	Problems on Binary search	CO5
46	Problems on Binary search	CO5
47	Problems on Recursion	CO5
48	Problems on Recursion	CO5

Skilling Session wise Teaching – Learning Plan

SESSION NUMBER : 1

Session Outcome: 1 Analyse and apply suitable design technique to solve given real world problems.

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
50	Attributes, Properties, Methods and there Types. NameSpaces Constructors,	4	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 2

Session Outcome: 1 Analyse and apply suitable design technique to solve given real world problems.

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and Attendance	4	PPT	--- NOT APPLICABLE ---
40	OOps Concepts- Inheritance, Abstraction, Encapsulation, Polymorphism. Collections,	4	PPT	--- NOT APPLICABLE ---
50	Experiment on OOP's Concepts	4	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 3

Session Outcome: 1 Analyse and apply suitable design technique to solve given real world problems.

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---

40	Explanation on problems for Arrays	4	PPT	--- NOT APPLICABLE ---
50	Explanation on problems for Arrays	4	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 4

Session Outcome: 1 Analyse and apply suitable design technique to solve given real world problems.

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and Attendance	1	Talk	--- NOT APPLICABLE ---
40	Explanation on problems for Arrays	4	PPT	--- NOT APPLICABLE ---
50	Explanation on problems for Arrays	4	PPT	--- NOT APPLICABLE ---

SESSION NUMBER : 5

Session Outcome: 1 Students will be able to analyze Collections, Exception Handling.

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
40	Skilling Excersise-2 explanation using Collections,Exception Handling.	4	Chalk	--- NOT APPLICABLE ---
50	Skilling Excersise-2 practice with students using Collections,Exception Handling.	4	Chalk	--- NOT APPLICABLE ---

SESSION NUMBER : 6

Session Outcome: 1 Students will be able to analyze DateTime, OS modules

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
40	Skilling Excersise-2 explanation using Modules-DateTime, OS, Random, RE.File Handling.GIT-Git Integration with PyCharm IDE	4	Chalk	--- NOT APPLICABLE ---
50	Skilling Excersise-2 practice with students using	4	Chalk	--- NOT

	DateTime, OS, Random, RE.File Handling.GIT-Git Integration with PyCharm IDE			APPLICABLE ---

SESSION NUMBER : 7

Session Outcome: 1 Students will be able to experiment with PyTests

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
40	Skilling Excersise-3 explanation using PyTests-Installation,integrating pytest to PyCharm IDE,Assertions, running subset of tests from test suite,run tests in parallel, fixtures, parameterized tests.	4	Chalk	--- NOT APPLICABLE ---
50	Skilling Excersise-3 practice with students using Installation, Integratingpytest to PyCharm IDE,Assertions, running subset of tests from test suite,Run tests in parallel, fixtures, parameterized tests.	4	Chalk	--- NOT APPLICABLE ---

SESSION NUMBER : 8

Session Outcome: 1 Students will be able to experiment withPython Database Connectivity

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
40	Skilling Excersise-3 explanation using Python connectivity with Databases, MYSQL, MongoDB CRUD operations.	4	Chalk	--- NOT APPLICABLE ---
50	Skilling Excersise-3 practice with students using Python connectivity with Databases, MYSQL, MongoDB CRUD operations.	4	Chalk	--- NOT APPLICABLE ---

SESSION NUMBER : 9

Session Outcome: 1 Students will be able to experiment with Web,Client-Server Architecture

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
40	Skilling Excersise-4 explanation using Web,Key features and key terms in Web,Client-Server Architecture, About Flask framework, Characteristics of Flask framework	4	Chalk	--- NOT APPLICABLE ---
50	Skilling Excersise-4 practice with students using web app structure with flask framework	4	Chalk	--- NOT APPLICABLE ---

SESSION NUMBER : 10

Session Outcome: 1 Students will be able to experiment with Virtual Environment, Flask application structure

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
40	Skilling Excersise-4 explanation using Virtual Environment, Flask application structure. Phases in Flask Application Creation – Routing, App Settings	4	Chalk	--- NOT APPLICABLE ---
50	Skilling Excersise-4 practice with students using Virtual Environment, Flask application structure. Phases in Flask Application Creation – Routing, App Settings	4	Chalk	--- NOT APPLICABLE ---

SESSION NUMBER : 11

Session Outcome: 1 Students will be able to experiment with URL Building, HTTP methods

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
40	Skilling Excersise-5 explanation using URL Building, HTTP methods, Templates, Working with Static, Media Files	4	Chalk	--- NOT APPLICABLE ---
50	Skilling Excersise-5 practice with students using URL Building, HTTP methods, Templates, Working with Static, Media Files	4	Chalk	--- NOT APPLICABLE ---

SESSION NUMBER : 12

Session Outcome: 1 Students will be able to experiment with Request Objects, Sending Form Data to Template

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
40	Skilling Excersise-5 explanation using Request Objects, Sending Form Data to Template, Advanced Features of Flask- Pagination, Database connectivity Sqlite3,MySQL	4	Chalk	--- NOT APPLICABLE ---
50	Skilling Excersise-5 practice with students using Request Objects, Sending Form Data to Template, Pagination,Database connectivity Sqlite3,MySQL	4	Chalk	--- NOT APPLICABLE ---

SESSION NUMBER : 13

Session Outcome: 1 Students will be able to experiment with Page Restrictions using decorators, Cookies, Sessions, Handling Exceptions and Errors

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
40	Skilling Excersise-6 explanation using Page Restrictions using decorators, Cookies, Sessions, Handling Exceptions and Errors	4	Chalk	--- NOT APPLICABLE ---
50	Skilling Excersise-6 practice with students using Page Restrictions with decorators, Cookies, Sessions, Handling Exceptions and Errors	4	Chalk	--- NOT APPLICABLE ---

SESSION NUMBER : 14

Session Outcome: 1 Students will be able to experiment with Flash Message, Working with Mails

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
40	Skilling Excersise-6 explanation using Flash Message, Working with Mails, App Deployment	4	Chalk	--- NOT APPLICABLE ---
50	Skilling Excersise-6 practice with students using Flash Message, Working with Mails & App Deployment	4	Chalk	--- NOT APPLICABLE ---

SESSION NUMBER : 15

Session Outcome: 1 Students will be able to experiment with Django Client-Server Architecture

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
40	Skilling Excersise-7 explanation using Web, Key features and key terms in Web, Client-Server Architecture, Features of Django frameworkCharacteristics of Django framework, Installation in Virtual Environment, Django commands	4	Chalk	--- NOT APPLICABLE ---
50	Skilling Excersise-7 practice with students using Django Frame works	4	Chalk	--- NOT APPLICABLE ---

SESSION NUMBER : 16

Session Outcome: 1 Students will be able to experiment with ADMIN Console

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
40	Skilling Excersise-7 explanation to Create a Project, Creation of Apps and their Structure, Working with ADMIN Console	4	Chalk	--- NOT APPLICABLE ---
50	Skilling Excersise-7 practice with students using Working on Creating the structure and Admin Console of Django	4	Chalk	--- NOT APPLICABLE ---

SESSION NUMBER : 17

Session Outcome: 1 Students will be able to experiment with Views, URL Mapping

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
40	Skilling Excersise-8 explanation to Create Views, URL Mapping, Template System	4	Chalk	--- NOT APPLICABLE ---
50	Skilling Excersise-8 practice with students using Views URL Mapping, Template System	4	Chalk	--- NOT APPLICABLE ---

SESSION NUMBER : 18

Session Outcome: 1 Students will be able to experiment with Models

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
40	Skilling Excersise-8 explanation using Working with Models, Page Re-directions	4	Chalk	--- NOT APPLICABLE ---
50	Skilling Excersise-8 practice with students Working with Models, Page Re-directions	4	Chalk	--- NOT APPLICABLE ---

SESSION NUMBER : 19

Session Outcome: 1 Students will be able to experiment with Set-up E-Mails

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT

				APPLICABLE ---
40	Skilling Excersise-9 explanation using Set-up E-Mails, Types of Views	4	Chalk	--- NOT APPLICABLE ---
50	Skilling Excersise-9 practice with students to create and generate E-Mail system	4	Chalk	--- NOT APPLICABLE ---

SESSION NUMBER : 20

Session Outcome: 1 Students will be able to experiment with Form Processing

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
40	Skilling Excersise-9 explanation using Form Processing, static, media files handling	4	Chalk	--- NOT APPLICABLE ---
50	Skilling Excersise-9 practice with students to create Django forms and user creation forms, handling the media files, html & CSS files	4	Chalk	--- NOT APPLICABLE ---

SESSION NUMBER : 21

Session Outcome: 1 Students will be able to experiment with Database connectivity in Django

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
40	Skilling Excersise-10 explanation using Database connectivity Sqlite3,MySQLPage Restrictions using decorators	4	Chalk	--- NOT APPLICABLE ---
50	Skilling Excersise-10 practice with students to connect Database Sqlite3,MySQLPage Restrictions using decorators	4	Chalk	--- NOT APPLICABLE ---

SESSION NUMBER : 22

Session Outcome: 1 Students will be able to experiment with Pagination,Cookies

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
40	Skilling Excersise-10 explanation using Pagination,Cookies	4	Chalk	--- NOT APPLICABLE

50	Skilling Excersise-10 practice with students to maintain & sharing data between app through Cookies, Pagination.	4	Chalk	--- NOT APPLICABLE ---

SESSION NUMBER : 23

Session Outcome: 1 Students will be able to experiment with Sessions

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
40	Skilling Excersise-11 explanation using Sessions	4	Chalk	--- NOT APPLICABLE ---
50	Skilling Excersise-11 practice with students using to maintain & sharing data between app through Sessions	4	Chalk	--- NOT APPLICABLE ---

SESSION NUMBER : 24

Session Outcome: 1 Students will be able to experiment with Caching, Migrations

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
40	Skilling Excersise-11 explanation using Caching, Migrations	4	Chalk	--- NOT APPLICABLE ---
50	Skilling Excersise-11 practice with students using to maintain & migrating data between development server to deployment server	4	Chalk	--- NOT APPLICABLE ---

SESSION NUMBER : 25

Session Outcome: 1 Students will be able to experiment with App Deployment

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
40	Skilling Excersise-12 explanation using Deployment	4	Chalk	--- NOT APPLICABLE ---
50	Skilling Excersise-12 practice with students to Deployment phases of web application	4	Chalk	--- NOT APPLICABLE ---

SESSION NUMBER : 26

Session Outcome: 1 Students will be able to deploy app in Web Hosting Domains

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
40	Skilling Excersise-12 explanation using Free Web Hosting Domains	4	Chalk	--- NOT APPLICABLE ---
50	Skilling Excersise-12 practice with students to Deploying the webapp in free web hosting domains	4	Chalk	--- NOT APPLICABLE ---

SESSION NUMBER : 27

Session Outcome: 1 Student will be able to analyse and apply suitable design techniques to implement given real world problems.

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	4	PPT	--- NOT APPLICABLE ---
50	Experimentation on Arrays	4	Talk	--- NOT APPLICABLE ---
40	Problems on Arrays	4	Talk	Group Discussion

SESSION NUMBER : 28

Session Outcome: 1 Student will be able to analyse and apply suitable design techniques to implement given real world problems.

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
50	Experimentation on Arrays	4	Talk	--- NOT APPLICABLE ---
40	Problems on Arrays	4	PPT	Quiz/Test Questions

SESSION NUMBER : 29

Session Outcome: 1 Student will be able to analyse and apply suitable design techniques to implement given real world problems.

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
50	Experimentation on Arrays	4	Talk	--- NOT APPLICABLE ---
40	Problems on Arrays	4	Talk	Quiz/Test Questions

SESSION NUMBER : 30

Session Outcome: 1 Student will be able to analyse and apply suitable design techniques to implement given real world problems.

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
50	Experimentation on Arrays	4	Talk	--- NOT APPLICABLE ---
40	Problems on Arrays	4	Talk	Debate

SESSION NUMBER : 31

Session Outcome: 1 Student will be able to analyse and apply suitable design techniques to implement given real world problems.

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
50	Experimentation on Linked List	4	Talk	--- NOT APPLICABLE ---
40	Problems on Linked List	4	Talk	Case Study

SESSION NUMBER : 32

Session Outcome: 1 Student will be able to analyse and apply suitable design techniques to implement given real world problems.

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---

50	Explanation on Linked List	4	Talk	--- NOT APPLICABLE ---
40	Problems on Linked List	4	Talk	Quiz/Test Questions

SESSION NUMBER : 33

Session Outcome: 1 Student will be able to analyse and apply suitable design techniques to implement given real world problems.

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	4	Talk	--- NOT APPLICABLE ---
50	Explanation on Stack	4	Talk	--- NOT APPLICABLE ---
40	Problems on Stack	4	Talk	Quiz/Test Questions

SESSION NUMBER : 34

Session Outcome: 1 Student will be able to analyse and apply suitable design techniques to implement given real world problems.

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
50	Explanation on Stack	4	Talk	--- NOT APPLICABLE ---
40	Problems on Stack	4	Talk	Quiz/Test Questions

SESSION NUMBER : 35

Session Outcome: 1 Student will be able to analyse and apply suitable design techniques to implement given real world problems.

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
40	Problems on queue	4	Talk	Quiz/Test Questions
50	Explanation on queue	4	Talk	Quiz/Test Questions

SESSION NUMBER : 36

Session Outcome: 1 Student will be able to analyse and apply suitable design techniques to implement given real world problems.

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
50	Explanation on queue	4	Talk	--- NOT APPLICABLE ---
40	Problems on queue	4	Talk	Quiz/Test Questions

SESSION NUMBER : 37

Session Outcome: 1 Student will be able to analyse and apply suitable design techniques to implement given real world problems.

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
50	Explanation on Strings	4	Talk	--- NOT APPLICABLE ---
40	Problems on Strings	4	Talk	Seminars

SESSION NUMBER : 38

Session Outcome: 1 Student will be able to analyse and apply suitable design techniques to implement given real world problems.

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
40	Problems on Strings	4	Talk	--- NOT APPLICABLE ---
50	Explanation on Strings	4	Talk	--- NOT APPLICABLE ---

SESSION NUMBER : 39

Session Outcome: 1 Student will be able to analyse and apply suitable design techniques to implement given real world problems.

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
40	Problems on Strings	4	Talk	--- NOT APPLICABLE ---
50	Explanation on Strings	4	Talk	Seminars

SESSION NUMBER : 40

Session Outcome: 1 Student will be able to analyse and apply suitable design techniques to implement given real world problems.

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	4	Talk	--- NOT APPLICABLE ---
40	Problems on Strings	4	Talk	--- NOT APPLICABLE ---
50	Explanation on Strings	4	Talk	--- NOT APPLICABLE ---

SESSION NUMBER : 41

Session Outcome: 1 Student will be able to analyse and apply suitable design techniques to implement given real world problems

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
40	Explanation on Strings	4	Chalk	--- NOT APPLICABLE ---
50	Problems on Strings	4	Chalk	--- NOT APPLICABLE ---

SESSION NUMBER : 42

Session Outcome: 1 Student will be able to analyse and apply suitable design techniques to implement given real world problems

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods

10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
40	Explanation on Strings	4	Chalk	--- NOT APPLICABLE ---
50	Problems on Strings	4	Chalk	--- NOT APPLICABLE ---

SESSION NUMBER : 43

Session Outcome: 1 Student will be able to analyse and apply suitable design techniques to implement given real world problems

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
40	Explanation on Sorting	4	Chalk	--- NOT APPLICABLE ---
50	Problems on Sorting	4	Chalk	--- NOT APPLICABLE ---

SESSION NUMBER : 44

Session Outcome: 1 Student will be able to analyse and apply suitable design techniques to implement given real world problems

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
40	Explanation on Sorting	4	Chalk	--- NOT APPLICABLE ---
50	Problems on Sorting	4	Chalk	--- NOT APPLICABLE ---

SESSION NUMBER : 45

Session Outcome: 1 Student will be able to analyse and apply suitable design techniques to implement given real world problems

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT

				APPLICABLE ---
40	Explanation on Binary search	4	Chalk	--- NOT APPLICABLE ---
50	Problems on Binary search	4	Chalk	--- NOT APPLICABLE ---

SESSION NUMBER : 46

Session Outcome: 1 Student will be able to analyse and apply suitable design techniques to implement given real world problems

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
40	Explanation on Binary search	4	Chalk	--- NOT APPLICABLE ---
50	Problems on Binary search	4	Chalk	--- NOT APPLICABLE ---

SESSION NUMBER : 47

Session Outcome: 1 Student will be able to analyse and apply suitable design techniques to implement given real world problems

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE ---
40	Explanation on Recursion	4	Chalk	--- NOT APPLICABLE ---
50	Problems on Recursion	4	Chalk	--- NOT APPLICABLE ---

SESSION NUMBER : 48

Session Outcome: 1 Student will be able to analyse and apply suitable design techniques to implement given real world problems

Time(min)	Topic	BTL	Teaching-Learning Methods	Active Learning Methods
10	Recap and attendance	1	Talk	--- NOT APPLICABLE

40	Explanation on Recursion	4	Chalk	--- NOT APPLICABLE ---
50	Problems on Recursion	4	Chalk	--- NOT APPLICABLE ---

WEEKLY HOMEWORK ASSIGNMENTS/ PROBLEM SETS/OPEN ENDEDED PROBLEM-SOLVING EXERCISES etc:

Week	Assignment Type	Assignment No	Topic	Details	co

COURSE TIME TABLE:

	Hour	1	2	3	4	5	6	7	8	9
Day	Component									
Mon	Theory	---	---	--	--	--	--	---	---	---
	Tutorial	---	---	--	--	--	--	---	---	---
	Lab	---	---	--	--	--	--	---	---	---
	Skilling	---	---	V-S17,V-S17,V-S18,V-S18,V-S19,V-S19,V-S20,V-S20,V-S21,V-S21,V-S22,V-S22,V-S23,V-S23,V-S24,V-S24,V-S25,V-S25	V-S17,V-S17,V-S18,V-S18,V-S19,V-S19,V-S20,V-S20,V-S21,V-S21,V-S22,V-S22,V-S23,V-S23,V-S24,V-S24,V-S25,V-S25	V-S17,V-S17,V-S18,V-S18,V-S19,V-S19,V-S20,V-S20,V-S21,V-S21,V-S22,V-S22,V-S23,V-S23,V-S24,V-S24,V-S25,V-S25	V-S17,V-S17,V-S18,V-S18,V-S19,V-S19,V-S20,V-S20,V-S21,V-S21,V-S22,V-S22,V-S23,V-S23,V-S24,V-S24,V-S25,V-S25	---	---	---
Tue	Theory	---	---	---	---	---	---	---	--	--
	Tutorial	---	---	---	---	---	---	---	--	--
	Lab	---	---	---	---	---	---	---	--	--
	Skilling	---	---	---	---	---	---	---	V-S1,V-S1,V-S2,V-S2,V-S3,V-	V-S1,V-S1,V-S2,V-S2,V-S3,V-

									S3,V-S4,V-S4,V-S5,V-S5,V-S6,V-S6,V-S7,V-S7,V-S8,V-S8	S3,V-S4,V-S4,V-S5,V-S5,V-S6,V-S6,V-S7,V-S7,V-S8,V-S8
Wed	Theory	---	---	--	--	--	--	---	--	--
	Tutorial	---	---	--	--	--	--	---	--	--
	Lab	---	---	--	--	--	--	---	--	--
	Skilling	---	---	V-S1,V-S1,V-S2,V-S2,V-S3,V-S3,V-S4,V-S4,V-S5,V-S5,V-S6,V-S6,V-S7,V-S7,V-S8,V-S8,V-S9,V-S9,V-S10,V-S10,V-S11,V-S11,V-S12,V-S12,V-S13,V-S13,V-S14,V-S14,V-S15,V-S15,V-S16,V-S16	V-S1,V-S1,V-S2,V-S2,V-S3,V-S3,V-S4,V-S4,V-S5,V-S5,V-S6,V-S6,V-S7,V-S7,V-S8,V-S8,V-S9,V-S9,V-S10,V-S10,V-S11,V-S11,V-S12,V-S12,V-S13,V-S13,V-S14,V-S14,V-S15,V-S15,V-S16,V-S16	V-S1,V-S1,V-S2,V-S2,V-S3,V-S3,V-S4,V-S4,V-S5,V-S5,V-S6,V-S6,V-S7,V-S7,V-S8,V-S8,V-S9,V-S9,V-S10,V-S10,V-S11,V-S11,V-S12,V-S12,V-S13,V-S13,V-S14,V-S14,V-S15,V-S15,V-S16,V-S16	V-S1,V-S1,V-S2,V-S2,V-S3,V-S3,V-S4,V-S4,V-S5,V-S5,V-S6,V-S6,V-S7,V-S7,V-S8,V-S8,V-S9,V-S9,V-S10,V-S10,V-S11,V-S11,V-S12,V-S12,V-S13,V-S13,V-S14,V-S14,V-S15,V-S15,V-S16,V-S16	---	V-S17,V-S17,V-S18,V-S18,V-S19,V-S19,V-S20,V-S20,V-S21,V-S21,V-S22,V-S22,V-S23,V-S23,V-S24,V-S24,V-S25,V-S25	V-S17,V-S17,V-S18,V-S18,V-S19,V-S19,V-S20,V-S20,V-S21,V-S21,V-S22,V-S22,V-S23,V-S23,V-S24,V-S24,V-S25,V-S25
Thu	Theory	---	---	--	--	--	--	---	---	---
	Tutorial	---	---	--	--	--	--	---	---	---
	Lab	---	---	--	--	--	--	---	---	---
	Skilling	---	---	V-S9,V-S9,V-S10,V-S10,V-S11,V-S11,V-S12,V-S12,V-S13,V-S13,V-S14,V-S14,V-	V-S9,V-S9,V-S10,V-S10,V-S11,V-S11,V-S12,V-S12,V-S13,V-S13,V-S14,V-S14,V-	V-S9,V-S9,V-S10,V-S10,V-S11,V-S11,V-S12,V-S12,V-S13,V-S13,V-S14,V-S14,V-	V-S9,V-S9,V-S10,V-S10,V-S11,V-S11,V-S12,V-S12,V-S13,V-S13,V-S14,V-S14,V-	---	---	---

				S15,V-S15,V-S16,V-S16	S15,V-S15,V-S16,V-S16	S15,V-S15,V-S16,V-S16	S15,V-S15,V-S16,V-S16			
Fri	Theory	--	--	--	--	--	--	--	--	--
	Tutorial	--	--	--	--	--	--	--	--	--
	Lab	--	--	--	--	--	--	--	--	--
	Skilling	--	--	--	--	--	--	--	--	--
Sat	Theory	--	--	--	--	--	--	--	--	--
	Tutorial	--	--	--	--	--	--	--	--	--
	Lab	--	--	--	--	--	--	--	--	--
	Skilling	--	--	--	--	--	--	--	--	--
Sun	Theory	--	--	--	--	--	--	--	--	--
	Tutorial	--	--	--	--	--	--	--	--	--
	Lab	--	--	--	--	--	--	--	--	--
	Skilling	--	--	--	--	--	--	--	--	--

REMEDIAL CLASSES:

Supplement course handout, which may perhaps include special lectures and discussions that would be planned, and schedule notified according

SELF-LEARNING:

Assignments to promote self-learning, survey of contents from multiple sources.

S.no	Topics	CO	ALM	References/MOOCS

DELIVERY DETAILS OF CONTENT BEYOND SYLLABUS:

Content beyond syllabus covered (if any) should be delivered to all students that would be planned, and schedule notified accordingly.

S.no	Advanced Topics, Additional Reading, Research papers and any	CO	ALM	References/MOOCS

EVALUATION PLAN:

Evaluation Type	Evaluation Component	Weightage/Marks		Assessment Dates	Duration (Hours)	CO5

End Semester Summative Evaluation Total= 40 %	**Skill Sem-End Exam**	Weightage	30		120	30
		Max Marks	50			50
	Poster Presentation	Weightage	10		120	10
		Max Marks	50			50
In Semester Formative Evaluation Total= 30 %	**Hackathon**	Weightage	5		120	5
		Max Marks	50			50
	Continuous Evaluation -Project	Weightage	10		120	10
		Max Marks	50			50
	Skilling Continuous Evaluation	Weightage	10		120	10
		Max Marks	50			50
	Weekly Contest	Weightage	5		120	5
		Max Marks	50			50
In Semester Summative Evaluation Total= 30 %	**Exercise**	Weightage	7.5		120	7.5
		Max Marks	50			50
	MOOCs Certification	Weightage	5		120	5
		Max Marks	50			50
	Leaderboard ranking for Global Challenges	Weightage	10		120	10
		Max Marks	50			50
	Skill In-Sem Exam	Weightage	7.5		120	7.5
		Max Marks	50			50

ATTENDANCE POLICY:

Every student is expected to be responsible for regularity of his/her attendance in class rooms and laboratories, to appear in scheduled tests and examinations and fulfill all other tasks assigned to him/her in every course
In every course, student has to maintain a minimum of 85% attendance to be eligible for appearing in Semester end examination of the course, for cases of medical issues and other unavoidable circumstances the students will be condoned if their attendance is between 75% to 85% in every course, subjected to submission of medical certificates, medical case file and other needful documental proof to the concerned departments

DETENTION POLICY :

In any course, a student has to maintain a minimum of 85% attendance and In-Semester Examinations to be eligible for appearing to the Semester End Examination, failing to fulfill these conditions will deem such student to have been detained in that course.

PLAGIARISM POLICY :

Supplement course handout, which may perhaps include special lectures and discussions

COURSE TEAM MEMBERS, CHAMBER CONSULTATION HOURS AND CHAMBER VENUE DETAILS:

Supplement course handout, which may perhaps include special lectures and discussions

Name of Faculty	Delivery Component of Faculty	Sections of Faculty	Chamber Consultation Day (s)	Chamber Consultation Timings for each day	Chamber Consultation Room No:	Signature of Course faculty:
VENKATA VARA	S	9-B,20-	-	-	-	-

PRASAD PADYALA		A				
VENKATESWARA RAO PEDDADA	S	6-B,12-B,21-B	-	-	-	-
SASIDHAR TALASILA	S	8-B,14-B,23-B	-	-	-	-
Ravi Tata	S	7-B,13-B,22-B	-	-	-	-
Miriyala Basu	S	14-A,20-B	-	-	-	-
Talasila Vamsidhar	S	15-B,24-B	-	-	-	-
Vasantham Kumar	S	5-A	-	-	-	-
NICHENAMETLA RAJESH	S	8-A	-	-	-	-
Sandeepkumar Sornapudi	S	16-B,25-B	-	-	-	-
Kantha Rao Vinjamuri	S	4-B	-	-	-	-
SUDARSA DORA BABU	S	17-B,20-B	-	-	-	-
KRISHNA CHAITANYA GOGINENI	S	2-A,13-A	-	-	-	-
HARI VEGE	S	2-B	-	-	-	-
MADHURI KOMMINENI	S	1-A,13-B	-	-	-	-
SURYA KIRAN JONNALAGADDA	S	9-A	-	-	-	-
VENU BABU RACHAPUDI	S	4-A,16-A,17-B	-	-	-	-
SUBBARAO GOGULAMUDI	S	8-B,13-A,21-B	-	-	-	-
KAVITHA MODEPALLI	S	9-A,21-A	-	-	-	-
Anjali Devi Swarna	S	7-A,15-B,25-A	-	-	-	-
Chandra Sekhar Kolli	S	4-A	-	-	-	-
VENKATA RAMANA NADAKUDURU	S	24-A	-	-	-	-
HarikaLakshmi Sikhakolli	S	12-A	-	-	-	-
ASLAM SHAIK	S	11-B	-	-	-	-
MOUNIKA VALASAPALLI	S	5-A,25-B	-	-	-	-
Deepak V	S	11-B,23-A	-	-	-	-
BELUGURU VENKATESWARLU	S	7-A,17-B	-	-	-	-

SUNANDA NALAJALA	S	4-B,15-A	-	-	-	-
PRAVEEN TUMULURU	S	1-B,10-A,22-B	-	-	-	-
DINESH ANGURAJ	S	8-A,17-A	-	-	-	-
SEETHA RAMA KRISHNA PENUGONDA	S	2-A,9-B,24-B	-	-	-	-
HARAN PELLAKURI	S	16-A	-	-	-	-
Ravindra kumar Indurthi	S	10-B,21-A	-	-	-	-
PRASAD CHITTURI	S	11-A	-	-	-	-
OM PRAKASH P G	S	3-A,19-B	-	-	-	-
TIRANDASU KUMAR	S	6-A,17-A	-	-	-	-
vamsi krishna kanneganti	S	12-A,22-A	-	-	-	-
KARUNAKAR GUDALA	S	1-B,16-B,20-B	-	-	-	-
Ganga Rao	S	19-A	-	-	-	-
Veerraju Gampala	S	25-A	-	-	-	-
Sunkara Babu	S	3-B,18-B	-	-	-	-
Sindhura Surapaneni	S	3-B,11-B,18-A	-	-	-	-
Pavan Ande	S	1-B,10-B,22-A	-	-	-	-
Murali Vutukuru	S	1-A,15-A,18-B	-	-	-	-
Ashok Koujalagi	S	5-B,14-B,24-A	-	-	-	-
sadam kavitha	S	2-B,14-A,19-B	-	-	-	-
Hrushi Sangaraju	S	12-B,23-A	-	-	-	-
Hitesh Mohapatra	S	6-B,10-B,19-A	-	-	-	-
Balajee R M	S	5-B,18-A	-	-	-	-
SMRITILEKHA DAS	S	7-B,11-A,18-B	-	-	-	-
Jyothi N.M	S	5-B,10-A	-	-	-	-
HIDANGMAYUM DEVI	S	6-A,23-B	-	-	-	-
Debasish Pal	S	3-A,20-A	-	-	-	-

GENERAL INSTRUCTIONS

Students should come prepared for classes and carry the text book(s) or material(s) as prescribed by the Course Faculty to the class.

NOTICES

Most of the notices are available on the LMS platform.

All notices will be communicated through the institution email.

All notices concerning the course will be displayed on the respective Notice Boards.

Signature of COURSE COORDINATOR

(MADHURI KOMMINENI)

Signature of Department Prof. Incharge Academics & Vetting Team Member

Department Of CSE

HEAD OF DEPARTMENT:

Approval from: DEAN-ACADEMICS
(Sign with Office Seal) [object HTMLDivElement]