

MODERN EDUCATION SOCIETY'S

NOWROSJEE WADIA COLLEGE

(An Autonomous College under Savitribai Phule Pune University)

Laboratory Course on Emerging Technologies (Full Stack)

National Education Policy (NEP) Syllabus

To be implemented from Academic Year 2023-2024

M.Sc.(Computer Science)-Part II

Semester III

2024-25

Co-Ordinator

Dr.Reena Bharathi Nowrosjee Wadia College,Pune

Prepared by

Prof.Sayli Patil Nowrosjee Wadia College,Pune

Roll No:	
Name:	

EMERGING TECHNOLOGIES (FULL STACK) ASSIGNMENT COMPLETION SHEET

Sr. No.	Assignment Name	Marks
1	Bootstrap	
2	AngularJS-I	
3	AngularJS-II	
4	Flask-I	
5	Flask-II	
	Total out of 25	
	Total out of 10	

	Total out of 25	
	Total out of 10	
•		
Signa	ature of Batch In-charge:	
Inter	nal Examiner :	
E4		
Extel	rnal Examiner :	
Date:	•	

Assignment 1: Bootstrap

Pre-Reading

- Concept of HTML and CSS
- Knowledge of JavaScript

Lab Assignments

- 1. Write a program using Bootstrap framework to create a Carousel with random images.
- 2. Design your own website blog using Bootstrap framework.
- 3. Write a program which displays some alert message using bootstrap background color classes for each message. Display at least 5 alert messages.

- 1. Write a program using appropriate Bootstrap image classes that displays image in following different shapes :
 - a. Circle
 - b. Thumbnail
 - c. Responsive Image

Signature of the instruc	tor	Dat	e	
Assignment Evaluatio	n			
0: Not done	2: Late Complete		4: Complete	
1: Incomplete	3: Needs Improvement		5: Well Done	

Assignment 2: AngularJS-I

Pre-Reading

- Knowledge of HTML and CSS
- JavaScript basics and MongoDB

Lab Assignments

- 1. Design angular JS application to display the message "Welcome to School of Computer Science, NWC".
- 2. Design angular JS application by using ng-click Directive to display an alert message on button click.
- 3. Write an AngularJS script for addition of two numbers using ng-init, ng-model and ng-bind. And also demonstrate ng-show, ng-disabled, ng-click directives on button component.

Extra Practice Question:

Design login application with proper validations by using angularJS, on successful login display "Welcome" message.

Signature of the instructor

Date

Assignment Evaluation

Assignment Evaluati	OII		
0: Not done	2: Late Complete	4: Complete	
1: Incomplete	3: Needs		

5: Well Done

Improvement

Assignment 3: AngularJS-II

Pre-Reading

- Concepts of AngularJS Directives
- Concepts of MVC Architecture

Lab Assignments

- 1. Design AngularJS application to display the details of 10 students stored in an array and show all details in table format using ng-for directive.
- Create a notepad application using AngularJS and show the current date and time of the system when a new note will be created.
 (Use Interval Service)

•	ho live i	create a single page in pune in tabular			1 5	
Signature of the	instructo	or	I	Oate		
Assignment Ev	aluation					
0: Not done		2: Late Complete		4:	Complete	
1: Incomplete		3: Needs Improvement		5:	Well Done	

Assignment 4: Flask-I

Pre-Reading

- Basic knowledge of Python
- Concepts of Node.js

Lab Assignments

- 1. Design simple web application using Flask to display the message "Welcome to Nowrosjee Wadia College Pune".
- 2. Create a Node.js Express Google Search Autocomplete API application to fetch data & download it in CSV file.
- 3. Implement error status code to the abort() function for a bad request, so it raises a Bad Request Error and forbidden error using flask.

- 1. Design flask application which display "Hello, Welcome to School of Computer science at NWC" message using template.
- 2. Design flask application to print the table of a number specified in the URL.if url is http://localhost:5000/table/10 then it will print the table of 10 on the browser's window.

Signature of the instru	ctor	Date		
Assignment Evaluati	on			
0: Not done	2: Late Complete		4: Complete	
1: Incomplete	3: Needs Improvement		5: Well Done	

Assignment 5: Flask-II

Pre-Reading

- File Handling
- URL Building and App routing in flask
- Cookies and Session

Lab Assignments

- 1. Create an application using flask to upload a file from the local file system to the server and also display a success message to the user with the name of the uploaded file.
- 2. Write a program to implement app routing in flask by accepting input through an URL.
- 3. Design a form that accepts customer details (CustName,email,MobNo,address ,pincode),on submit retrieve customer details in template which shows on web page in the table format by using flask request object and template.

- 1. Write a program for abort() function in flask with the error code for unauthorized access in case of any random password entered by the user.
- 2. Create a Login application in Flask using cookies.

Signature of the instruct	or	Dat	e	
Assignment Evaluation	1			
0: Not done	2: Late Complete		4: Complete	
1: Incomplete	3: Needs Improvement		5: Well Done	