

### AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING IAF-AVADI, CHENNAI - 55

### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



#### STUDENTS CIRCULAR

Date: 10-08-2021

The Department of Computer Science and Engineering plans to conduct a "Web Development using HTML, CSS and Javascript" certification course by "Mohammed Shabi, M/s ifelse Technologies" for the benefit of IV year CSE Students. This Course is Scheduled from 18-08-2021 to 15-09-2021 for 32 hours. All students must attend all classes with 75% attendance and score 50% on the Quiz. Students who complete the course successfully will receive certificates.

HOD/CSE

Computer Science & Engineering
Aalim Muhammed Salegh
College of Engineering

#### Copy to:-

Principal.

**IQAC** 

Resource Person, Mr. Mohammed Shabi,

**CSE Faculty Members** 

IV year CSE whatsapp group

Hostel/Transport Supervisor

Campus Manager / Campus Engineer





#### AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING







TNEA Counselling CODE: 1







Approved by AICTE and Affiliated to Anna University Chennal

Department of Computer Science and Engineering

organizes

# Value Added Course

RESOURCE PERSON
Mr.MOHAMMED SHABI
M/S IF ELSE
TECHNOLOGIES

Web Development
using HTML,CSS and
Java Scripts
(For IV Year CSE
Students)

Meet link: meet.google.com/kxq-rgxn-gia

TIME 4.00 PM TO 5.50 PM

Ass.Prof.G.Sulthana Begum HOD/CSE Prof.Dr.Afzal Ali Baig

FROM 18-08-2021 TO 15-09-2021

Alhaj S Segu Jamaludeen Secretary & Correspondent





# AALIMMUHAMMEDSALEGHCOLLEGEOFENGINEERING IAF-AVADI, CHENNAI-55



### DEPARTMENTOFCOMPUTERSCIENCEAND ENGINEERING Value-Added Course Summary Report

Course Name: Web Development using HTML, CSS, and JavaScript

Date: 18-08-2021 to 15-09-2021

Time: 4.00 P.M to 5.50P.M

Mode of Conduction: online

Speaker: Mr. Mohammad Shabi

Course Hours: 32

No of weeks: 4

No of Modules:4

**Registered Students: 62** 

Certified Students: 62

The objective of the Course:

The objective of the course is to equip students with the knowledge and skills necessary to develop Progressive Web Apps (PWAs) that combine the best features of web and mobile applications.

#### **Summary of the Course:**

- This course focuses on building modern, high-performance Progressive Web Apps (PWAs) by combining the best aspects of web and mobile apps.
- You'll learn key concepts like Service Workers, Web App Manifest, and Push Notifications to create PWAs that offer offline functionality, improved performance, and enhanced user engagement.
- By the end, you'll be equipped to create responsive, reliable, and engaging web applications that work seamlessly across various devices and network conditions.





#### The outcome of the Course:

By the end of this course, you will be able to:

- Understand the fundamentals and benefits of Progressive Web Apps (PWAs).
- Implement Service Workers for caching, background sync, and push notifications.
- Create and customize a Web App Manifest.
- Develop responsive and offline-capable web applications using the app shell architecture.
- Test, deploy, and optimize PWAs for performance and user engagement.
- Build and deploy a real-world PWA, applying the concepts and techniques learned throughout the course.

COORDINATOR

HOD/CSE

Computer Science & Engineering
Aalim Muhammed Salegh
College of Engineering

CHENNAI 800 055

Date: 13-08-2021

The HOD,

Department of Computer Science and Engineering,

Aalim Muhammed Salegh College of Engineering,

Muthapudupet, Avadi,

Chennai- 600 055.

To

The Principal,

Aalim Muhammed Salegh College of Engineering,

Muthapudupet, Avadi,

Chennai - 600 055.

Subject: Requisition for Approval of Value-Added Course on "Web Development using HTML,CSS and Java Scripts"- Reg.

Respected Sir,

We would like to arrange a Value-Added Course on the title "Web Development using HTML,CSS and Java Scripts" for final-year CSE students. The Course will be conducted by "Mr. Mohamed Shabi", M/s ifelse Technologies. The Value-Added Course will be conducted from 18.08.2021 to 15.09.2021. So we kindly request you to provide approval for the same.

Thanking you

EGH CO

CHENNAI 600 055 Yours Faithfully

HOD/CSF

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING 4VADI - IAF, MUTHAPUDUPE 4VADI - IAF, MUTHAPUDUPE

Permilled Roll

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AALIM MUHAMMED SALEGI



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#### DEPARTMENTOFCOMPUTERSCIENCEANDENGINEERING

#### **Value-Added Course Details**

Course Name: Web Development using HTML, CSS, and JavaScript Date: 18-08-2021 to 15-09-2021

Week	Content	Total Hours
	Introduction to HTML, CSS, and JavaScript	
	Introduction to Progressive Web Apps	
	1. Overview of PWAs:	
	o Comparing PWAs with traditional web and mobile apps.	
	2. Setting Up Your Development Environment:	
	o Installing and configuring Node.js, npm, and a code editor	
1	3. Introduction to Service Workers:	8
1	o Registering and activating a Service Worker.	0
	4. Building Your First PWA:	
	o Creating a basic web app and turning it into a PWA.	
	Advanced Service Workers	
	1. Caching Strategies:	
	o Using Cache API and Indexed DB.	
	2. Background Sync:	
	o Enabling background sync to ensure data	
2	synchronization.	8
	3. Push Notifications:	
	o Implementing the Push API to handle push events.	
	4. Service Worker Lifecycle:	
	o Understanding Service Worker lifecycle events.	





	1. Creating a Web App Manifest:	
	o Defining the web app manifest file.	
	2. App Shell Architecture:	
	o Understanding the app shell model for PWAs.	
3	<ul> <li>Structuring your app for fast loading and offline support.</li> </ul>	8
	3. Responsive Design and Media Queries:	
	Using media queries to adapt layouts.	
	4. Advanced PWA Features:	
	o Improving user experience with custom loading screens.	
	Testing, Deployment, and Performance Optimization	
	1. Testing PWAs:	8
4	o Using Lighthouse and other tools to test and audit PWAs.	
	2. Deployment:	
	o Deploying your PWA to a web server.	
	3. Performance Optimization:	
	o Optimizing performance with lazy loading and code splitting.	
	4. Real-world Application:	
	o Building and deploying a real-world PWA project.	
	Total Hours	3:







### AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING IAF-AVADI, CHENNAI - 55



#### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

Value-Added Course Name: Web Development using HTML, CSS, and JavaScript Timing: 4.00 PM to 5.50 PM

S.No	Date	Course Content
1	18/08/2021	Overview of PWAs
2	19/08/2021	Setting Up Your Development Environment
3	23/08/2021	Introduction to Service Workers
4	24/08/2021	Building Your First PWA
5	25/08/2021	Caching Strategies
6	26/08/2021	Background Sync
7	27/08/2021	Push Notifications
8	31/08/2021	Service Worker Lifecycle
9	01/09/2021	Creating a Web App Manifest
10	02/09/2021	App Shell Architecture
11	03/09/2021	App Shell Architecture Cont
12	06/09/2021	Responsive Design and Media Queries
13	07/09/2021	Advanced PWA Features
14	08/09/2021	Testing PWAs
15	09/09/2021	Deployment
16	13/09/2021	Performance Optimization
17	14/09/2021	Performance Optimization Cont
18	15/09/2021	Real-world Application



PRINCIPAL
AALIM MUHAMMED SALEGH
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#### AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING VALUE ADDED COURSE-ATTENDANCE SHEET

COURSE NAME: WEB DEVELOPMENT USING HTML, CSS & JAVA SCRIPT

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COLLEGE OF ENGINEERING

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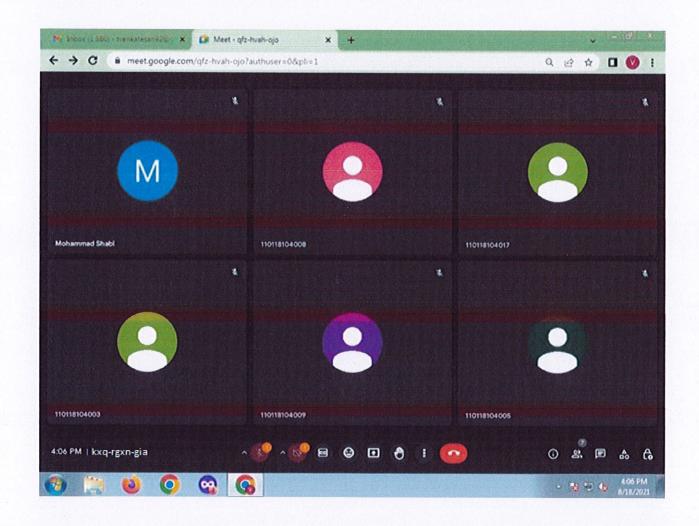
### AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING AVADI – IAF, CHENNAI -55



### DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**ACADEMIC YEAR: 2021-2022** 

COURSE NAME: WEB DEVELOPMENT USING HTML,CSS, JAVASCRIPT









# CERTIFICATE OF COMPLETION

This is to certify that Mr./Ms.ABDUL AZEEZ A (REG NO:110118104001), AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING has successfully completed the value added course WEB DEVELOPMENT USING HTML, CSS AND JAVASCRIPT conducted from 18-08-2021 to 15-09-2021.

DATE: 20th SEP 2021

PRINCIPAL
AALIM MUHAMMED SALEGH
COLLEGE OF ENGINEERING

**SIGNATURE** 

MOHAMMED SHABI



# CERTIFICATE OF COMPLETION

This is to certify that Mr./Ms.ABDUL BASITH M A (REG NO:110118104002), AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING has successfully completed the value added course WEB DEVELOPMENT USING HTML, CSS AND JAVASCRIPT conducted from 18-08-2021 to 15-09-2021.

DATE: 20th SEP 2021

PRINCIPAL
AALIM MUHAMMED SALEGH

**SIGNATURE** 

MOHAMMED SHABI



# CERTIFICATE OF COMPLETION

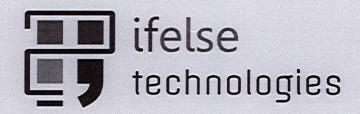
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DATE: 20th SEP 2021

PRINCIPA AALIM MUHAMME

MOHAMMED SHABI

**SIGNATURE** 



### CERTIFICATE OF COMPLETION

This is to certify that Mr./Ms.ABDUL KALAM M (REG NO:110118104004), AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING has successfully completed the value added course WEB DEVELOPMENT USING HTML, CSS AND JAVASCRIPT conducted from 18-08-2021 to 15-09-2021.

DATE: 20th SEP 2021

**SIGNATURE** 

MOHAMMED SHABI

