"Techno –Social Excellence"

Marathwada Mitramandal's Institute of Technology
Lohgaon, Pune-411047
Accredited with 'A' Grade by NAAC

Ref. No.: MMIT/AI&DS/2024-25/31   Date: 18/03/2025

"Excellence in the field of AI & DS"

DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA SCIENCE

NOTICE

All the students of AI&DS are hereby informed that Add-on course on **"Cloud-Ready Basic Full Stack Development"** is organized from 20/03/2025 to 26/04/2025 (40 Hrs. course). Those students who are interested please contact to Dr.Shrikant Dhamdhere (AI & DS Dept.) for registration, before 20/03/2025. There are **no registration charges/fees.**

Course Introduction: Cloud-Ready Basic Full Stack Development

Welcome to the **Cloud-Ready Basic Full Stack Development** course! This course will teach you how to build complete web applications using both **front-end** (HTML, CSS, JavaScript), back-**end** (PHP, MySQL) technologies and cloud services.
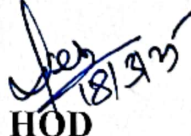
By the end of this course, you will be able to:

- Create websites with structured content using **HTML**.
- Style your pages and make them responsive with **CSS**.
- Add interactivity with **JavaScript**.
- Handle server-side logic and data with **PHP**.
- Store and manage data using MySQL databases.
- Cloud Services

The objective of the "Cloud-Ready Basic Full Stack Development" add-on course is to teach students how to build and deploy full-stack applications in cloud environments. It covers front-end and back-end development, cloud technologies and cloud deployment, enabling learners to create efficient, secure, and scalable cloud-based applications.

Note: The detailed course content and timetable are attached to the notice.

Add-on course Coordinator
Dr.Shrikant Dhamdhere

HOD
Dr. Jyoti Deshmukh

Marathwada Mitramandal's Institute of Technology
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Department of Artificial Intellegence & Data Science

Academic Year:2024-2025   **Sem-II**

Course Curriculum and Schedule of Add-on Course on "Cloud-Ready Basic Full Stack Development"

Module No	Name of the Module	Topic to be cover under module	Date	Time	Hours
Module-1	HTML, CSS Basics	Introduction to HTML, structure of a webpage	20.03.25	3.30pm to 4.30pm	1
		Basic tags: headings, paragraphs, lists, links, and images	21.03.25	3.30pm to 4.30pm	1
		Forms: <form>, <input>, <textarea>, <button>	22.03.25	9.00am to 4.00pm	1
		Semantic HTML elements: <header>, <footer>, <article>, etc.	22.03.25	9.00am to 4.00pm	1
		Hands-on: Create a basic webpage with headings, paragraphs, and images.	22.03.25	9.00am to 4.00pm	1
		Styling with CSS: selectors, properties, and values	22.03.25	9.00am to 4.00pm	1
		Box model (margin, padding, border, content)	22.03.25	9.00am to 4.00pm	1
		Positioning and Flexbox layout	22.03.25	9.00am to 4.00pm	1
		Responsive design with media queries	24.03.25	3.30pm to 4.30pm	1
		Hands-on: Style the webpage created earlier and make it responsive.	25.03.25	3.30pm to 4.30pm	1
Module-2	JavaScript Basics	Variables, data types, and operators	26.03.25	3.30pm to 4.30pm	1
		Conditionals (if, else, switch)	27.03.25	3.30pm to 4.30pm	1
		Loops (for, while)	28.03.25	3.30pm to 4.30pm	1
		Functions and arrow functions	29.03.25	9.00am to 4.00pm	1
		Hands-on: Write small JavaScript programs to manipulate HTML elements (e.g., a form validation)	29.03.25	9.00am to 4.00pm	1
		Accessing DOM elements (getElementById, querySelector)	29.03.25	9.00am to 4.00pm	1
		Manipulating content, styles, and attributes	29.03.25	9.00am to 4.00pm	1
		Handling events (click, submit, etc.)	29.03.25	9.00am to 4.00pm	1
		Hands-on: Add interactive elements like buttons and form inputs that trigger JavaScript events.	29.03.25	9.00am to 4.00pm	1

Module		Topic	Date	Time	Hrs
Module-3	Back-End Development(PHP)	PHP syntax and embedding PHP in HTML	31.03.25	3.30pm to 4.30pm	1
		Variables, data types, and basic operators in PHP	01.04.25	3.30pm to 4.30pm	1
		PHP functions and conditionals	02.04.25	3.30pm to 4.30pm	1
		Hands-on: Write a simple PHP script to output data and perform basic calculations.	03.04.25	3.30pm to 4.30pm	1
		Collecting form data using $_POST and $_GET	04.04.25	3.30pm to 4.30pm	1
		Validating and sanitizing user inputs	07.04.25	3.30pm to 4.30pm	1
		Displaying form data with PHP	08.04.25	3.30pm to 4.30pm	1
		Hands-on: Create a simple contact form and process the data in PHP	09.04.25	3.30pm to 4.30pm	1
Module-4	Back-End Development(MySql)	What is MySQL and relational databases?	10.04.25	3.30pm to 4.30pm	1
		Setting up a MySQL database with phpMyAdmin	11.04.25	3.30pm to 4.30pm	1
		Creating tables, inserting data, and basic queries (SELECT, INSERT)	12.04.25	9.00am to 4.00pm	1
		Hands-on: Set up a MySQL database and create a table for storing users or tasks.	12.04.25	9.00am to 4.00pm	1
		Connecting PHP to MySQL using mysqli_connect()	12.04.25	9.00am to 4.00pm	1
		Running queries and fetching results	12.04.25	9.00am to 4.00pm	1
		Displaying data from MySQL in HTML	12.04.25	9.00am to 4.00pm	1
		Hands-on: Display data from the MySQL database on a webpage (e.g., user list or task list).	12.04.25	9.00am to 4.00pm	1
Module-5	Integrating Cloud Services and Final Project	Overview of cloud platforms (AWS, Google Cloud, Azure)	14.04.25	3.30pm to 4.30pm	1
		Introduction to cloud databases (e.g., AWS RDS, Firebase)	15.04.25	3.30pm to 4.30pm	1
		Deploying applications to the cloud	16.04.25	3.30pm to 4.30pm	1
		Hosting front-end on a platform (e.g., Netlify, Vercel)	17.04.25	3.30pm to 4.30pm	1
		Deploying the back-end on a cloud server (e.g., AWS EC2, Heroku)	18.04.25	3.30pm to 4.30pm	1
		Setting up environment variables for cloud environments	21.04.25	3.30pm to 4.30pm	1
		Using cloud storage services (e.g., AWS S3)	22.04.25	3.30pm to 4.30pm	1
		Create a full-stack application integrating front-end, back-end, and cloud services	23.04.25	3.30pm to 4.30pm	1
		Implement a simple user authentication system (login, registration)	24.04.25	3.30pm to 4.30pm	1
		Database interaction and cloud deployment	25.04.25	3.30pm to 4.30pm	1
				Total Hrs	45

Dr. Shrikant Dhamdhere
Add-on Course Co-ordinator

Dr. Jyoti Deshmukh
HOD