



**MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY**  
(Autonomous Institution – UGC, Govt. of India)

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

## **REPORT ON 3-DAYS WORKSHOP ON “WEB DEVELOPMENT USING FLASK” IN ASSOCIATION WITH CODE TANTRA**

**Slot I : 26-09-2024 To 28-09-2024**

**Slot II : 15-10-2024 To 17-10-2024**

The Department of Computer Science and Engineering organized a **3 Days Workshop on “WEB DEVELOPMENT USING FLASK” IN ASSOCIATION WITH CODE TANTRA.**

### **1. Objective of the Workshop:**

The workshop's objective is to educate students with the skills necessary to manage databases, create dynamic web applications, and incorporate authentication capabilities utilizing the most recent micro-framework "FLASK".

### **Highlights**

- Master Fundamentals of Flask
- Efficient Request-Response Management
- Template Rendering & Error Handling
- Form Handling & User Sessions
- Database Integration with Flask
- Email Integration & Asynchronous Processing

## 2. Schedule

Day 1: 26-09-2024 and 15/10/2024

Morning and Afternoon Session's:

- Introduction to Flask
- Installation, Using Virtual Environments
- Basic Application Structure
- Initialization, Routes, and View Functions
- Server Startup, Request-Response Cycle Templates
- Rendering Templates and Custom Error Pages

Day 2: 27-09-2024 and 16/10/2024

Morning and Afternoon Session's:

- Links, Static Files Web Forms
- CSRF Protection
- HTML Rendering of Forms
- Form Handling in View Functions
- Redirects and User Sessions
- Message Flashing Databases
- Python Database Frameworks,
- Database Management with Flask-SQLAlchemy
- Model Definition, Relationships
- CRUD Operations
- Database use in View Functions
- Integration with Python Shell
- Database Migrations with Flask-Migrate
- Email Support with Flask-Mail
- Sending Emails from Python Shell
- Integrating Email with the Application and Sending Asynchronous Email

## Day 3: 28-09-2024 and 17/10/2024

### Morning and Afternoon Session's:

- **User Authentication**

- User Model, Registration and Login Forms
- User Authentication with Flask-Login

- **Building a Blog Application**

- Creating a simple blog application with features like creating, editing, and deleting blog posts.
- Learn about CRUD operations and RESTful APIs Pagination and Search
- Implement pagination for long lists of items
- Add search functionality to your application.

Note:

1. Morning session is from 9:30am to 12:45 pm with a break from 11.00 to 11.15 am.
2. Lunch Break 12:45 to 1:30
3. Afternoon session is from 1.30 pm to 3:30 pm
4. The Workshop was inaugurated by the Principal, Dr.S.Srinivasa Rao , along with the HOD, Dr.S.Shanthi and Faculty Coordinator, Mr Sandeep Agarwalla.

# Photo Gallery



Hyderabad, Telangana, India



Hyderabad, Telangana, India  
 HF63+MV3, Maisammaguda, Dulapally, Hyderabad, Telangana  
 India  
 Lat 17.561386°  
 Long 78.454913°  
 16/10/24 09:44 AM GMT +05:30

**MALLA REDDY COLLEGE OF ENGINEERING AND TECHNOLOGY**  
(Autonomous Institution - UGC, Govt. of India)

DEPARTMENT OF CSE & CSIT

Organizes  
3- days workshop on

## WEB DEVELOPMENT USING FLASK

For 2nd Year Students

**SLOT - 1**

28<sup>th</sup>, 27<sup>th</sup>, 28<sup>th</sup>  
SEPTEMBER, 2024

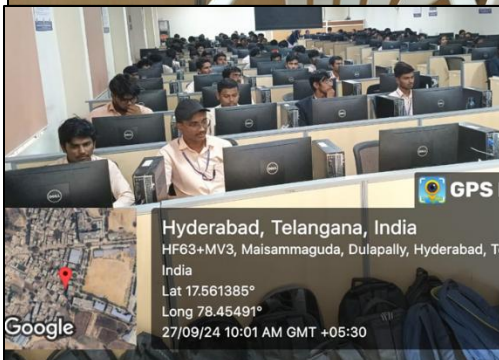
**SLOT - 2**

15<sup>th</sup>, 16<sup>th</sup>, 17<sup>th</sup>  
OCTOBER, 2024

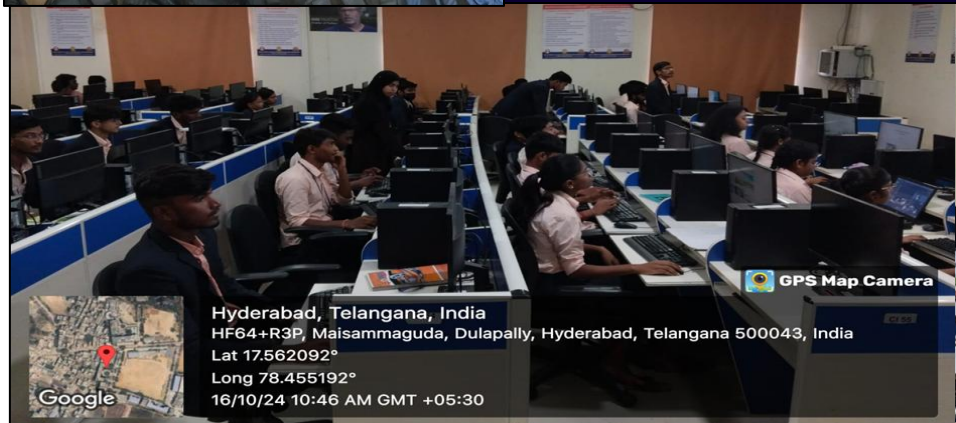
In Collaboration with

Venue  
CSE, IT Labs

Dr. VSK Reddy Director	Dr. S. Srinivasa Rao Principal	Dr. T Venugopal Dean
Dr. S. Shanthi HOD - CSE	Dr. G. Sharada HOD - IT	A.Sandeep Faculty Coordinator CSE
		P. Swetha Faculty Coordinator CSIT



Hyderabad, Telangana, India  
 HF63+MV3, Maisammaguda, Dulapally, Hyderabad, Telangana  
 India  
 Lat 17.561385°  
 Long 78.45491°  
 27/09/24 10:01 AM GMT +05:30



Hyderabad, Telangana, India  
 HF64+R3P, Maisammaguda, Dulapally, Hyderabad, Telangana 500043, India  
 Lat 17.562092°  
 Long 78.455192°  
 16/10/24 10:46 AM GMT +05:30

