

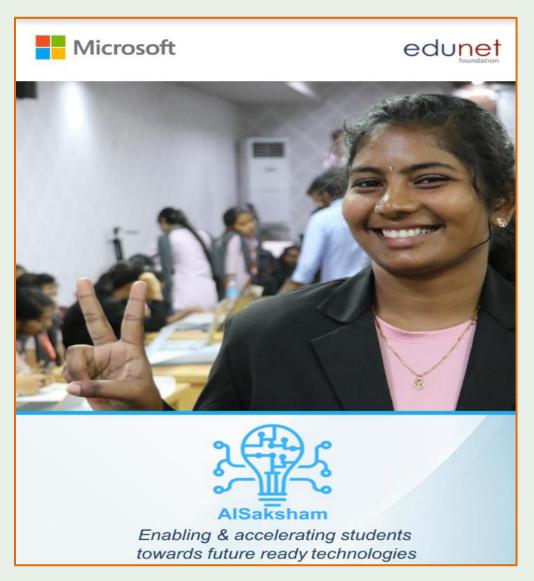
Sarvajanik University Sarvajanik College of Engineering & Technology Master of Computer Applications Department



Microsoft Edunet Foundation Training On

Applied Cloud Computing for Software Development: Tools, technology,

And Frameworks



Report On

AISaksham: Program Tracks



Organized By

Master of Computer Applications Department SCET

INTRODUCTION

Program Sponsored

Microsoft (Nasdaq "MSFT" @Microsoft) enables digital transformation for the era of an intelligent cloud and an intelligent edge. Its mission is to empower every person and every organization on the planet to achieve more. Microsoft set up its India operations in 1990. Today, Microsoft entities in India have over 16,000 employees, engaged in sales and marketing, research, development and customer services and support, across 11 Indian cities — Ahmedabad, Bengaluru, Chennai, New Delhi, Gurugram, Hyderabad, Kochi, Kolkata, Mumbai, Noida and Pune. Microsoft offers its global cloud services from local data centers to accelerate digital transformation across Indian startups, businesses, and government organizations. MCA department has organized this training under track 1 — "Applied Cloud Computing for Software Development: Tools, technology, and Frameworks" to improve the skills of our young minds. Cloud Computing and DevOps, Java Web Technologies, Software Project-2 are the subjects of MCA I Sem. 2. Under this training, the students were trained by corporate trainers to enhance their knowledge which would help them significantly in the real world practical exposure.

Phase I Schedule

Week & Class	Date	Time	Venue
Week 1 &Div A	26 th to 29 th Feb, 2024	9:00 AM to 4:30 PM	MCA LAB
Week 1 &Div B	4 th to 7 th March 2024	9:00 AM to 4:30 PM	MCA LAB

Phase II Schedule

Week & Class	Date	Time	Venue
Week 2 & Div B	22 nd to 26 th April, 2024	9:00 AM to 4:30 PM	MCA LAB
Week 2 & Div A	29 th April to 3 rd May, 2024	9:00 AM to 4:30 PM	MCA LAB

Students will be thought to create a Capstone project and after successful submission and assessment they will get the Microsoft Training Certificate and also they will be eligible for the recruitment process organize by Microsoft Edunet.

Topics covered in Phase –I

Module 1 – Fundamentals of Web Based Software Development		
1.	Getting familiar with Software development concepts.	
2.	Building Blocks of Frontend Web Application Development.	
3.	Getting started with HTML, Styling with CSS Front end development with Java Script & Advanced JS.	
4.	Essentials of Java Programming	

Topics Covered in Detailed

- 1. Below point were covered in Getting familiar with Software development concepts.
 - ✓ Programming Languages
 - ✓ Algorithms and Data Structures
 - ✓ Version Control (Git)
 - ✓ SDLC (Software Development Life Cycle)
 - ✓ Software Architecture
 - ✓ Databases
 - ✓ Frameworks and Libraries
 - ✓ APIs (Application Programming Interfaces):
 - ✓ Security Basics
 - ✓ Agile Methodology
 - ✓ Practical exercise was given to the students for practice.
- 2. Below point were covered in Building Blocks of Frontend Web Application Development.
 - ✓ HTML (Hypertext Markup Language)
 - ✓ CSS (Cascading Style Sheets)
 - ✓ JavaScript
 - ✓ Responsive Design
 - ✓ Frameworks and Libraries
 - ✓ Web Browsers
 - ✓ HTTP/HTTPS Protocols
 - ✓ AJAX (Asynchronous JavaScript and XML)
 - ✓ Build Tools
 - ✓ Version Control
 - ✓ Web Development Tools
 - ✓ Performance Optimization
 - ✓ Security Practices
 - ✓ Practical exercise was given to the students for practice.
- 3. Below point were covered in Getting started with HTML Styling with CSS Front end development with Java Script & Advanced JS.
 - ✓ HTML defines the structure of your content, CSS determines the style and layout, and JavaScript makes the content interactive; therefore, it makes the most sense to learn them in that order.
 - ✓ JavaScript incorporates valuable skills such as object-oriented, functional, and imperative styles of programming
 - ✓ Practical exercise was given to the students for practice.
- 4. Below point were covered in Essentials of Java Programming
 - ✓ Discuss the basics of OOPs concepts
 - ✓ Show java Script and it's important with examples.
 - ✓ Practical exercise was given to the students for practice.

Topics covered in Phase –II

Module	Module 2 – Core Course: Roadmap to Develop Dynamic & Responsive Application		
1.	Deep Dive on Backend Developmen. Required Tool for Server-Side Scripting: Eclipse/intellij idea, Apache Tomcat Server, MySQL Database Server Server-Side Scripting Fundamentals, Mastering JSP. Handling Data using Data Base Management System.		
2.	Building Single Page Application (SPA) using ReactJS Required Tool: Visual Studio Code. Getting Started with ReactJS&Advanced Guide for React.		
3.	Mastering in RESTful API using Spring Boot. Required Tool: Eclipse/ Spring suite tool Getting Familiar with Restful API&Moving Ahead with Spring Boot		
4.	Advanced Course: Application Deployment on Cloud Platform.		
5.	Capstone Project		

As the topics covered students were given exercises of each topic and they were doing it under the guidance of Mr. Adarsh Patel & Mr. Mainak & Mr.Jay .

Completion Certificates were available for students who meet the following criteria:

Criteria For Certificate	No of Students Attended	No of Students Get Certificate
Attendance: ≥60%	140	67
Mid Term: Yes		
Final Term: Yes		
Project: Yes		
Total Score: ≥60%		

A few Glimps of Microsoft Training by Edunet

<u>Div – A Photos of Phase-I and Phase-II</u>













Div -B Photos of Phase-I and Phase-II





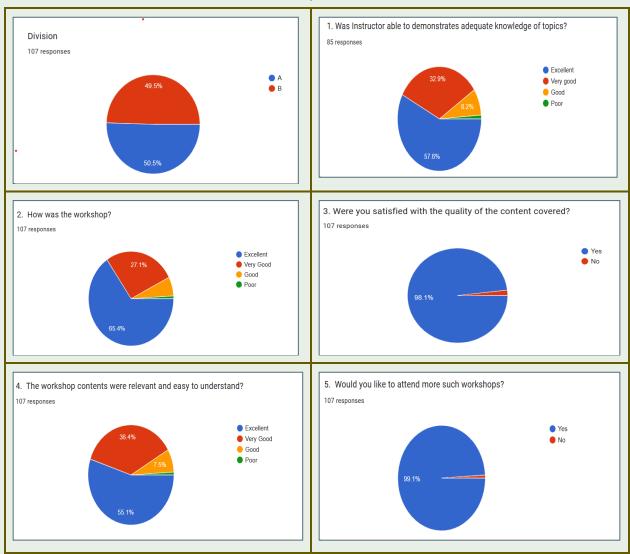








Feedback by Students



The response to the training and feedback by the students was excellent. We would like to thank Dr. Hiren Patel, Principal, SCET, for providing an opportunity to schedule such training. We would also like to thank Prof. Shabbir Ghadiali Head, Training & Placement Department for his support in organizing Phase - I and Phase – II training. Shri Bhaskar Cheruku, Registrar, SCET for prompt support. We are thankful to Prof. Gayatri Kapadia, Head-MCA Department for encouraging us for conducting such training.

Report Compiled by Prof.Zankhana Vaishnav & Prof.Jayana Ahuja