MIET

MANGALMAY
INSTITUTE OF ENGINEERING & TECHNOLOGY

22

ADD-ON TRAINING

B.Tech 3rd & 4th Year

Applied Cloud Computing for Software Development

Under

TechSaksham

📅 22 November, 2023 to 04 January, 2024
Monday to Friday

🕐 11:00 AM to 01:00 PM   📍 Computer Lab, Block A

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Plot No. 8, Knowledge Park-II, Greater Noida, Delhi-NCR, India

Mangalmay Institute of Engineering & Technology

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Date: - 17th Nov 2023

Notice

MIET is going to organize the Value-Added Certification Course "Applied Cloud Computing for Software Development" for the students of B.Tech 3rd year and 4th year, as per the following details.

Date of Commencement: 22nd November, 2023
Beneficiaries: B.Tech 3rd and 4th year students
Total Duration: 42 Hours
Venue: Computer Lab 1 & 2
Resource Person: Karan Bhat (Trainer-Under Tech-Saksham, a joint CSR initiative between Microsoft and SAP, implemented by Edunet Foundation)

for - Amett

Abhishek Sharma
Head - CRD

CC to :-
1. Director Engineering
2. Director IQAC
3. HOD
4. All Faculty Members
5. Notice Board
6. Office File

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Syllabus and Schedule

Name of Training program: Applied Cloud Computing for Software Development
Training Duration: 42 Hrs.

S.No	Date	Day	Timing	Module
1	22nd November 2023	Wednesday	11:00 AM - 01:00 PM	Introduction to Industry 4.0 and Full-Stack Development: Concepts and Trends
2	6th December 2023	Wednesday	11:00 AM - 01:00 PM	HTML and CSS Basics: Responsive Web Design and Basic Page Creation
3	7th December 2023	Thursday	11:00 AM - 01:00 PM	Java Script Basics: Variables, Functions, and DOM Manipulation
4	8th December 2023	Friday	11:00 AM - 01:00 PM	Java Script ES6: Advanced Concepts like Promises, Modules, and Arrow Functions
5	11th December 2023	Monday	11:00 AM - 01:00 PM	React Introduction: Basics of Components and Props
6	12th December 2023	Tuesday	11:00 AM - 01:00 PM	React Advanced: State Management, Hooks, and Lifecycle Methods
7	13th December 2023	Wednesday	11:00 AM - 01:00 PM	Node.js Basics: Introduction to Backend Development and REST API Creation
8	14th December 2023	Thursday	11:00 AM - 01:00 PM	Express.js: Middleware, Routing, and RESTful API Development
9	18th December 2023	Monday	11:00 AM - 01:00 PM	Mongo DB Integration: Database Basics and CRUD Operations with Mongoose
10	20th December 2023	Wednesday	11:00 AM - 01:00 PM	Frontend and Backend Integration: Connecting React with Node.js API
11	21th December 2023	Thursday	11:00 AM - 01:00 PM	Authentication and Authorization: JWT and Secure Login Systems
12	22th December 2023	Friday	11:00 AM - 01:00 PM	Deployment: Deploying Full-Stack Applications to Cloud Platforms
13	26th December 2023	Monday	11:00 AM - 01:00 PM	Introduction to Microservices and Serverless Architectures
14	27th December 2023	Wednesday	11:00 AM - 01:00 PM	Real-Time Applications with Web Sockets: Build a Chat Application
15	28th December 2023	Thursday	11:00 AM - 01:00 PM	Performance Optimization in Full-Stack Applications
16	29th December 2023	Friday	11:00 AM - 01:00 PM	Testing: Unit, Integration, and E2E Testing in Full-Stack Development
17	1st January 2024	Monday	11:00 AM - 01:00 PM	Applications in Industry 4.0: IoT, AI, and Automation Use Cases
18	2nd January 2024	Tuesday	11:00 AM - 01:00 PM	Capstone Project Kickoff: Planning and Architecture Design
19	3rd January 2024	Wednesday	11:00 AM - 01:00 PM	Capstone Project Development: Hands-On Coding and Reviews
20	4st January 2024	Thursday	11:00 AM - 01:00 PM	Capstone Project Finalization: Testing and Deployment
21	5th January	Friday	11:00 AM - 01:00 PM	Evaluation

Report on Applied Cloud Computing for Software Developments

Training Name: Applied Cloud Computing for Software Developments under Tech-Saksham, a joint CSR initiative between Microsoft and SAP, implemented by Edunet Foundation

Trainer Name: Mr. Karan Bhat
Total Registered Students: 81
Training Completed: 54
Training Duration: 22nd November to 5th January, 2024

Objective :

> Cloud Computing Fundamentals.
> Integrating Cloud with Full-Stack Applications.
> Automating Development and Deployment (CI/CD).
> Building Cloud-Native Applications.
> Security, Scalability, and Cost Optimization.

Day 1 - 22nd November 2023
Introduction to Industry 4.0 and Full-Stack Development: Concepts and Trends

The course began with an introduction to Industry 4.0, which represents the fourth industrial revolution characterized by the integration of advanced technologies like the Internet of Things (IoT), Artificial Intelligence (AI), and automation into industrial processes. Participants learned about the transformation these technologies bring to industries. The session also covered Full-Stack Development, which refers to the development of both the front end (client-side) and back end (server-side) of web applications. It set the foundation for the entire course by explaining the trends and tools that enable full-stack development in the context of Industry 4.0.

Day2 - 6th December 2023

HTML and CSS Basics: Responsive Web Design and Basic Page Creation

This session introduced the fundamentals of HTML (Hypertext Markup Language) and CSS (Cascading Style Sheets). Participants learned how to structure web pages using HTML tags, making content accessible and well-organized. The focus was on creating basic static pages with clean and semantic HTML. In CSS, the focus was on styling the HTML elements. The key concept discussed was responsive design, where participants learned how to create flexible layouts using Flexbox and Grid that adapt to different screen sizes and devices. The session emphasized the mobile-first approach, where pages are optimized for mobile devices before adapting to larger screens.

Day 3 - 7th December 2023

JavaScript Basics: Variables, Functions, and DOM Manipulation

In this session, participants learned JavaScript, the programming language that adds interactivity to web pages. They started with basic concepts such as variables, which are used to store data, and functions, which allow developers to group code into reusable blocks. The core of the lesson was DOM manipulation (Document Object Model), where participants learned how JavaScript can interact with and modify HTML and CSS, such as changing the content of a page, responding to user inputs (e.g., clicking a button), or dynamically adding elements to the page.

Day 4 - 8th December 2023
JavaScript ES6: Advanced Concepts like Promises, Modules, and Arrow Functions

This session covered ES6 (ECMAScript 2015), the latest version of JavaScript, which introduced several new features to make JavaScript code cleaner and more efficient. Promises were introduced to handle asynchronous operations like fetching data from an API. Participants also learned about modules, which allow JavaScript code to be split into smaller, reusable files. The arrow functions syntax was explained, which simplifies writing functions, especially for callback functions or inline operations.

Day 5 - 11th December 2023

React Introduction: Basics of Components and Props

This session introduced React, a popular JavaScript library for building user interfaces, especially for single-page applications. Participants learned how React allows for a component-based architecture, where each piece of the UI is a self-contained component. The session focused on the basic concepts of components and props (properties). Components are the building blocks of a React application, and props allow data to be passed between them, making it easier to manage and reuse parts of the UI.

Day 6 - 12th December 2023

React Advanced: State Management, Hooks, and Lifecycle Methods

The participants explored more advanced concepts in React. They learned about state management, which allows components to manage and update their own data (like user input or the result of an API call). The session also covered React Hooks, such as use State and use Effect, which are functions that let you use state and lifecycle methods in functional components (instead of relying on class components). Lifecycle methods were explained as well, which allow developers to control different stages of a component's life, such as when it's created, updated, or removed.

Day 7 - 13th December 2023
Node.js Basics: Introduction to Backend Development and REST API Creation

The session shifted focus to the backend of web applications, introducing Node.js, a runtime environment that allows JavaScript to be used on the server side. Participants learned how to build RESTful APIs, which enable communication between the front-end and back-end of an application using HTTP methods (GET, POST, PUT, DELETE). The module emphasized how Node.js can handle requests, process data, and respond to clients.

Day 8 - 14th December 2023

Express.js: Middleware, Routing, and RESTful API Development

Express.js, a framework built on top of Node.js, was introduced to help streamline backend development. Participants learned how to use middleware, which are functions that execute during the

request-response cycle (e.g., validating data, handling authentication). The concept of routing was also introduced, which defines how the server responds to various client requests. By the end of the session, participants were able to build RESTful APIs using Express.js and handle the routing efficiently.

Day 9 - 18th December 2023
MongoDB Integration: Database Basics and CRUD Operations with Mongoose

The session focused on integrating a NoSQL database, MongoDB, with the Node.js backend. Participants learned about MongoDB's document-oriented structure, which stores data in JSON-like format, making it easier to work with dynamic data. They also learned how to perform CRUD (Create, Read, Update, Delete) operations using Mongoose, an Object Data Modeling (ODM) library for MongoDB that simplifies database interaction.

Day 10 - 20th December 2023
Frontend and Backend Integration: Connecting React with Node.js API

Participants learned how to connect their React front-end with the Node.js back-end through API calls. The focus was on using Axios or the Fetch API to send and receive data between the front end (React) and the back end (Node.js). By integrating the two, participants could create dynamic web applications where the front end displays data fetched from a server.

Day 11 - 21st December 2023
Authentication and Authorization: JWT and Secure Login Systems

In this session, participants learned about authentication and authorization, two essential concepts in web application security. They implemented JWT (JSON Web Tokens) to secure API endpoints and manage user sessions. Participants also learned how to build secure login systems that ensure only authorized users can access certain parts of the application.

Day 12 - 22nd December 2023
Deployment: Deploying Full-Stack Applications to Cloud Platforms

The focus of this session was deploying full-stack applications to cloud platforms. Participants learned about different deployment strategies and tools, including Heroku, AWS, and Netlify. They were shown how to prepare their application for production, ensuring it runs smoothly in a live environment.

Day 13 - 26th December 2023
Introduction to Microservices and Serverless Architectures

Participants learned about the concept of microservices, which breaks down large applications into smaller, independently deployable services. The session also introduced serverless architectures, where developers can build applications without worrying about managing servers, using platforms like AWS Lambda. This approach can help scale applications and reduce costs.

Day 14 - 27th December 2023
Real-Time Applications with Web Sockets: Build a Chat Application

This session taught participants how to build real-time applications using Web Sockets. They built a chat application where users can send and receive messages instantly. Web Sockets allow continuous two-way communication between the client and server, making it ideal for applications that require real-time updates.

Day 15 - 28th December 2023
Performance Optimization in Full-Stack Applications

Participants learned how to optimize full-stack applications for better performance. Topics included reducing page load times, optimizing database queries, and minimizing resource usage. Tools like Webpack, Lighthouse, and Tree-shaking were introduced to help participants streamline their applications and improve user experience.

Day 16
29th December 2023
Testing Unit, Integration, and E2E Testing in Full-Stack Development

This session covered different types of tests used to ensure the quality of web applications: unit testing (testing individual components), integration testing (testing how components work together), and end-to-end (E2E) testing (testing the whole application). Tools like Jest, Mocha, and Cypress were demonstrated for automating these tests.

Day 17 - 1st January 2024
Applications in Industry 4.0: IoT, AI, and Automation Use Cases

The focus of this module was on how full-stack development supports technologies like IoT, AI, and automation. Participants learned about real-world applications in various industries, such as manufacturing, healthcare, and logistics, where these technologies are transforming operations.

Day 18 - 2nd January 2024
Capstone Project Kick off: Planning and Architecture Design

Participants began their Capstone Project, where they applied all the knowledge gained in the course to build a full-stack application. This session focused on planning, designing the architecture of the project, and ensuring it was aligned with the course's industry 4.0 concepts.

Day 19 - 3rd January 2024
Capstone Project Development: Hands-On Coding and Reviews

Participants actively coded their Capstone Projects, with hands-on support from instructors. Regular reviews were conducted to ensure the projects were progressing according to plan, and any issues were addressed in real-time.

Day 20 - 4th January 2024
Capstone Project Finalization: Testing and Deployment

Participants finalized their projects by conducting testing, debugging, and deploying their

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applications. The session emphasized ensuring the project was ready for production, addressing any issues, and deploying to cloud platforms.

Day 21 - 5th January 2024
Evaluation

The final day of the course involved evaluation of the Capstone Projects. Participants presented their projects, received feedback from instructors and peers, and discussed their learning experiences throughout the course.

Outcome:

- Proficiency in cloud computing platforms and services
- Ability to deploy and manage full-stack cloud applications.
- Implementation of CI/CD pipelines for automation.
- Expertise in cloud-native development using Docker, Kubernetes, and serverless computing.
- Strong understanding of cloud security and cost optimization practices.

Sr.	Name	Email	Track	Trainer	Batch Code	Graduation College	Graduation Course	Gender	Percentage Attendance	Certificate Eligibility
6344	Pradeep Kumar	Pradeep2002km@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	90.7	Completion
6349	Govind	govindpandey148@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	90.7	Completion
6360	Aditya Singh	aditya.003470@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	97.67	Completion
6362	Gaurav Tiwari	zx.gauravtiwari2001@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	93.02	Project Not Submitted
6363	Gaurav Yadav	gauravyadav22701@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	88.37	Project Not Submitted
6366	Janmejay Kumar Singh	janmejaysinghbhum1000@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	88.37	Completion
6372	Simran Bhatt	bhattsimran939@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Female	97.67	Completion
6380	Ashish singh	ashishsinghp702@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	95.35	Completion
6381	Avanish Kumar Mishra	avanishmishra648@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	90.7	Project Not Submitted
6382	Guddati Anusha	chantianusha123@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Female	55.81	Attendance < 60%
6383	Aman sagar	sagaraman565@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	93.02	Project Not Submitted
6384	Aniket Kumar	rajaniket035@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.E. Computer Science and Engineering	Male	95.35	Completion
6386	Deepika Sharma	deepika.sharma90559@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Female	93.02	Completion
6391	Ayan Malty	ayanmalty943@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	90.7	Completion
6400	Nitin sharma	nitinvats2002@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	95.35	Project Not Submitted
6401	Pratham Dubey	Prathamd6397@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	90.7	Completion
6405	Jatin sen	senjatin78@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	95.35	Project Not Submitted
6408	Vikash	vikash.cs21@mietengineering.org	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	79.07	Completion
6411	Neelam Yadav	neelamnew8751@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Female	97.67	Completion
6418	Lavish	lavishnagar758@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	83.72	Completion
6437	Devesh Singh Negi	negidevesh12345@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	93.02	Completion
6451	Md Perwez Akhtar	perwezakhtar29@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	95.35	Completion
6455	Bashist Narayan	bashistktr2000@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	100	Completion
6456	Aditya Pandey	ap9113783@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	95.35	Completion
6457	Krishna Pratap Singh	singhkrishna8015@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	90.7	Project Not Submitted
6461	Yadav Mulayam	mulayam4955@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	90.7	Completion
6468	Ayush Kumar	ayush143606@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	88.37	Project Not Submitted
6477	Rohit Kumar	Rohityadav84832@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	88.37	Project Not Submitted
6501	Priyank Mandal	ankitmandal20.05@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	95.35	Completion
6508	Tanya Grover	tanyagrover550@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Female	86.05	Completion
6534	Aman kumar singh	amankumarchs1@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	79.07	Score < 40
6548	Dheeraj Sharma	dheerajsharma8816@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	93.02	Project Not Submitted
6551	Radhika Tayal	radhikatayal80@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Female	88.37	Completion
6575	Aman Singh	amansinghkld@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	67.44	Project Not Submitted
6579	Prerna Chourasia	prernachourasia06@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Female	88.37	Completion
6580	Shivam Deoliya	shivamdeoliya55@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	95.35	Completion
6581	Utkarsh Gupta	utkarshgupta6702@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	86.05	Completion
6607	Ravi Kaushal	ravikaushal24@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	83.72	Project Not Submitted
6609	Muskan Gupta	mg701110@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Female	86.05	Project Not Submitted
6610	Gautam Tyagi	gautamtyagi2112@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	95.35	Completion
6611	Himanshu Tonger	himanshutiger59632@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	86.05	Project Not Submitted
6612	Akash Goyal	akakashgoyal123@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	76.74	Completion
6631	Tanisha Varshney	varshneytanisha766@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Female	93.02	Completion
6634	Chandan Choudhary	cchoudhary060@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	81.4	Completion
6635	Mohammad Faizan Raza	mohammadfaizan6867@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	60.47	Project Not Submitted
6636	Nishant	nishantsinghnik@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	81.4	Completion
6639	Shubham Saxena	shubhamsaxena174@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	76.74	Completion
6640	Abhishek Gangwar	gangwara831@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	50	Attendance < 60%
6641	Mohit kumar	mk5663670@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	65.12	Project Not Submitted
6642	Satyam kumar jaiswal	satyamjais7023@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	93.02	Completion
6646	Neha Singh	nehavns2700@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Female	83.72	Completion
6647	Shubhranshu Kannojiya	63shubprince@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	95.35	Completion
6650	Utkarsh Upadhyay	therealid002@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	83.72	Project Not Submitted

6651	Prashant Rai	raiprashant9811@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.E. Data Science	Male	88.37	Completion
6652	Ashwani Patel	ashwanisinghyt@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	69.77	Completion
6655	Aman rai	akr979325@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	83.72	Completion
6660	Anamika Kumari	8210711661anu@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Female	93.02	Completion
6661	Md Naushad Alam	naushadalam270702@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	90.7	Completion
6666	Minakshi Tripathi	minakshitripathi311@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Female	95.35	Completion
6669	Ritik Kumar	ritikbhati.018@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	88.37	Completion
6685	Md Sahil Zahir	thesahilzahir077@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	79.07	Project Not Submitted
6701	Satyam soni	indiansatyamsoni666@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	81.4	Project Not Submitted
6780	Nitin	njk1131@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	95.35	Completion
6790	Rahul Kumar	rkyadav6753@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	86.05	Completion
6809	Kapil dubey	dubeykapil2002@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	86.05	Completion
6812	Mukesh saini	mukeshsaini0510@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	62.79	Participation
6813	Sachin Karmakar	Sachinkarmakar22@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.E. Computer Science and Engineering	Male	74.42	Completion
6815	Harshit Bhardwaj	bhadrwajharshit@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	93.02	Project Not Submitted
6816	Alok Kumar kasyap	alokkashyap166@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	76.74	Project Not Submitted
6817	Yogesh Kumar Yadav	yogeshyadav2935@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	93.02	Completion
6822	Azeem Ahmed	ahmedazeem112002@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	67.44	Project Not Submitted
6823	Vikas kumar	vicky.271018@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	90.7	Completion
6925	Simran Gupta	simrangupta29513@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Female	79.07	Completion
7010	Deepak Singh	deepak28042002singh@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	86.05	Completion
7011	Suraj Kumar	kumarsuraj962536@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	83.72	Completion
7016	Harikant	harikant1015@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	93.02	Completion
7017	Mukesh kumar	mkumar04666@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	83.72	Completion
7018	Satyam Srivastava	satyamsrivastava052@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	81.4	Completion
7026	Manish Negi	negi12971@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	83.72	Project Not Submitted
7137	Aman jha	jhaaman01226@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	69.77	Completion
7240	Sahil singh	nickrajput109@gmail.com	CCSD	Karan Bhat	MIOEAT_CCSD_1	MIET	B.Tech- Computer Science and Engineering.	Male	79.07	Project Not Submitted

edunet

TechSaksham

TechSaksham Program

Batch Report

Respected Ma'am

Greetings!

We extend our heartfelt gratitude for your invaluable collaboration in the TechSaksham Program. Your active participation and unwavering support have been instrumental in the initiative's success.

We are thrilled to announce that students enrolled in the program have completed the program and obtained their certifications as per the eligibility criteria.

Please find the brief table below for update on the program's completion, along with attached students' report. As you have access to the TechSaksham LMS, feel free to download the report anytime for your quick reference.

Should you have updates or wish to discuss further, please call or contact us. We look forward to continued collaboration in the coming years.

TechSaksham Program				
College Name	Track / Batch Code	# of enrolled students	# of certified students	Certificate Status
Mangalmay Institute of Engineering and Technology	MIOEAT_CCSD_1	81	54	Live on TechSaksham LMS
Mangalmay Institute of Engineering and Technology	MIOEAT_TSP3FC_ 2	72	65	Live on TechSaksham LMS

Thanks, and Regards

Sandeep Kour
Edunet Foundation I 9717806956
Associate Director-PM I TechSaksham Program

Scanned with OKEN Scanner

Memorandum of Understanding

This Memorandum of Understanding is entered on 17th Nov 2023 by and between Edunet Foundation having its office at A-11- 1105, Arcadia South City 2, Gurgaon 122018, India (hereinafter referred to as "Edunet") ; and Mangalmay Institute of Engineering & Technology, (hereinafter referred to as "MIET") having its address Plot No, 8 & 9, Knowledge Park - II, Greater Noida - 201310, India

Whereas ,Edunet is a non-profit organization with multiple programs, sponsored by government and corporate entities, that are offered free to learners across the education spectrum, including but not limited to the Tech Saksham Program (www.techsaksham.org).

Whereas, Institution is a premier institution with the following details:

| Established (year):	2011
Recognition, NAAC rating, ranking:	NA
Vision:	Mangalmay Institute of Engineering & Technology – Greater Noida, is committed to be the front -runner in the field of Engineering Education and to nurture students to attain the highest degree of professional competence in their respective fields.

And whereas, the Parties seek to collaborate with each other to mutually complement their synergies and to jointly work on building capacity of learners through one or more of the programs managed by Edunet.

Now therefore, this Memorandum of Understanding (hereinafter called "MOU") witnesses the following.

1. **Term and termination :** This MOU is valid for an initial term of 5 years from the Effective Date. It can be extended by further periods, as agreed to by the Parties from time to time. Either Party may terminate this MOU by giving the other minimum 30 days' notice. The MOU will be deemed terminated at the end of the notice period or after completing all ongoing activities so that the beneficiaries (learners and teachers) are not negatively impacted, whichever is later.

2. **Non-binding nature of this MOU :** The MOU is not binding one it her Party and each is working with the other out of sheer good- will and for the benefit of the learners.

3. **Each Party is responsible for its own costs :** Both the Institution and Edunet will independently manage their cost towards fulfillment of obligations under this MOU.

4. **Team for program co-ordination:** Both the Parties shall appoint a suitable team/ SPOC whowill serve as a primary point of contact on all matters related to program rollout. Individuallearners and teachers may be in touch with corresponding trainers, mentors, advisors, andpeers during program rollout. However, all the matters related to the execution of this MOU shall reside with the signing authority.

5. **Program Calendar & Academic Calendar.** The SPOCs from both Parties will work with their respective internal stakeholders to develop a calendar for the program(s) rollout at the start of every quarter. This calendar will then be synchronized and published for use by Everyone.
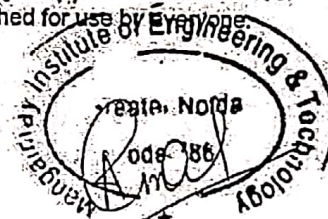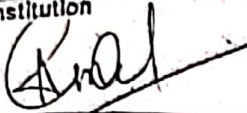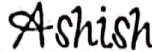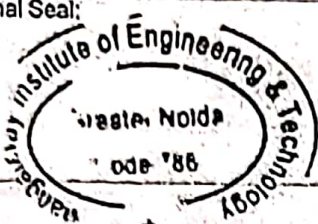
6. **Responsibilities of Edunet and / or its program sponsors / partners:**
   a. **Orientation sessions :** Edunet will conduct orientation sessions for learners and educators, at a mutually agreed schedule, to onboard them on to the program(s).
   b. **Program materials:** Edunet will share all program materials with the Institution and/ or learners as required. All sharing will be online and / or through electronic media.
   c. **Face to face, Instructor led sessions :** For learners in the Tech Saksham Program, face to face ILT sessions will be organized on campus and will be delivered by Edunet Trainers to program beneficiaries.
   d. **Online Instructor led sessions:** These sessions may take the form of webinars or mentoring workshops or technology boot camps or innovation camps or career readiness workshops, that will seek to assist learners in their career goals. These programs will be organized regularly as per a regular calendar, published online, and will be conducted by Edunet team members or program sponsors or external stakeholders as appropriate.
   e. **Interaction with industry experts:** Edunet will bring industry experts to the Institute orconduct virtual sessions to drive engagements with students through seminars / webinars or project mentorship.
   f. **Online platform availability :** Online platforms for each of the program so interest to the Institution will be made available to it. Links for these platforms will be made available to the Institution in a timely manner.
   g. **Assessments:** Edunet will conduct assessments, as required, for its programs prior to certification by Edunet and / or its industry partners and / or participating government agencies.
   h. **For programs with career paths:** Edunet will provide linkages with local and regional industry or government (any one of them) that will help learners with gainful employment. Interactions will be encouraged in terms of classroom sessions, workshops, internship opportunities and career opportunities.
   i. **Updates:** Edunet will keep Institution management updated with the progress of theprogram(s)

7. **Responsibilities of Institution:**
   a. **Learner identification :** The Institute will identify learners, volunteers and instructors who may participate in program(s) offered by Edunet. The Institute will identify the learners whom the criteria for the programas shared by Edunet
   b. **Support with orientation sessions:** Institute will support Edunet conduct orientation sessions for all stakeholders.
   c. **Publication of program calendars and goals :** Institute will publish, on a quarterly basis, a program calendar for all its participants.
   d. **Support with computer labs and classrooms:** Institute will make its labs available to learners. It will make classrooms and / or audio-visual equipment available for face-to-face sessions, when ever required.
   e. **Support with attendance:** Institute will ensure that program participants enthusiastically participate in chosen programs, with minimum attendance as agreed between theParties.
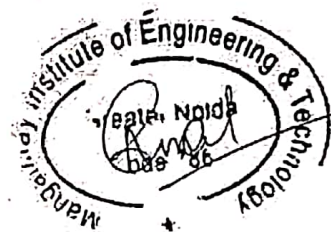
f. Support with assessments : Institute will ensure that assessments carried out on site are proctored and professionally managed.

g. No fees : Institute will not charge any extra fees from learners for participation in Edunet programs.

IN WITNESS WHERE OF, the parties here to have executed this MOU on the Effective Date.

For Institution	For Edunet Foundation
Name: Aayush Mangal	Name: Ashish Arora
Designation : Vice Chairman	Designation: Director - Outreach
Institutional Seal:	Seal:

MIET

Schedule of Applied Cloud Computing for Software Development :

(Advance in Full Stack)

Hvs :

S. No	Date	Day	Timing	Module
1	22nd November 2023	Wednesday	2:00 PM to 4:00 PM	Introduction to Full Stack Development
2	6th December 2023	Wednesday	2:00 PM to 4:00 PM	Basics of Linux Operating System
3	7th December 2023	Thursday	2:00 PM to 4:00 PM	Advanced Linux Commands
4	8th December 2023	Friday	2:00 PM to 4:00 PM	Introduction to DBMS
5	11th December 2023	Monday	2:00 PM to 4:00 PM	Basic SQL Queries
6	12th December 2023	Tuesday	2:00 PM to 4:00 PM	Advanced SQL Concepts
7	13th December 2023	Wednesday	2:00 PM to 4:00 PM	Basics of Front-End Development
8	14th December 2023	Thursday	2:00 PM to 4:00 PM	Advanced HTML and CSS
9	18th December 2023	Monday	2:00 PM to 4:00 PM	Introduction to JavaScript
10	20th December 2023	Wednesday	2:00 PM to 4:00 PM	Advanced JavaScript
11	21th December 2023	Thursday	2:00 PM to 4:00 PM	Introduction to Python Programming
12	22th December 2023	Friday	2:00 PM to 4:00 PM	Advanced Python Programming
13	26th December 2023	Monday	2:00 PM to 4:00 PM	Introduction to Azure Cloud
14	27th December 2023	Wednesday	2:00 PM to 4:00 PM	Working with Azure Virtual Machines
15	28th December 2023	Thursday	2:00 PM to 4:00 PM	Introduction to Azure Databases
16	29th December 2023	Friday	2:00 PM to 4:00 PM	Azure Blob Storage
17	1st January 2024	Monday	2:00 PM to 4:00 PM	Basics of React.js
18	2nd January 2024	Tuesday	2:00 PM to 4:00 PM	Advanced React.js
19	3rd January 2024	Wednesday	2:00 PM to 4:00 PM	Introduction to Node.js
20	4st January 2024	Thursday	2:00 PM to 4:00 PM	Full-Stack Project Implementation
21	5th January	Friday	2:00 PM to 4:00 PM	Evaluation

Training Attendance 8 With Full stack Developer
Date- 22/11/23

Sr.No.	Student Name	RollNo.	Course	Year	Signature
1	Pratham Dubey	2007860100058	B.Tech	4th	Pratham
2	Gaurav Tiwari	2007860100027	B.Tech	4th	Gaurav
3	Avanish Kr. Mishra	2007860100019	B.Tech	4th	Avanish.
4	Gaurav Yadav	2007860100028	B.Tech	4th	Gaurav Yadav
5	Md Perwez Alam	2007861520010	B.Tech	4th	Perwez
6	Shiva Saini	2207860109022	B.Tech	3rd	Shiva
7	Arvind Saini	2207860109007	B.Tech	3rd	Arvind
8	Aditya Raj	2107861520001	B.Tech	3rd	Aky
9	Nitin Sharma	2107860100078	B.Tech	3rd	N.T
10	Pramod Kumar	2207860109019	B.Tech	3rd	Pramod
11	Arif Ali	2207860109005	B.TECH	3rd	Arif Ali,
12	Samridh Singh	2207860109021	B.TECH	3rd	Samridh
13	Ishita Gupta	2107861520013	B.Tech	3rd	Ishita
14	Aditya Raj	2107861520001	B.Tech	3rd	
15	Bhavya Jain	2107860100028	B.Tech	3rd	Bjain
16	Tanya Grover	2107860100118	B.Tech	3rd	TanyaGrove
17	Nagad Narayan	2107860100072	B.Tech	3rd	Nagad
18	Shreya Sharma	2107860100104	B.Tech	3rd	
19	Srishti Chauhan	2107860100109	B.Tech	3rd	Srish
20	Vikash	2107860100124	B.Tech	3rd	Vikash
21	Vivek Kr. Mishra	2107860100129	//	//	Vivek
22	Lavish	2107860100050	B.Tech	3rd	Lavish
23	Aditya Pandey	2107860100005	B.tech	3rd	Aditya P
24	Anuj Kumar	2107860100021	B.tech	3rd	Anuj
25	Harsh Shrivastava	2107860100036	B.tech	3rd	HARSH.
26	Rahul Prajapati	2107860100085	B.Tech	3rd	Rahul
27	Mohd Dilshad	2107860100066	B.Tech	3rd	Dilshad
28	Mohd. Saif	2107860100067	B.Tech	3rd	Saif
29	MD Hammad Wasif	2107860100058	B.Tech.	3rd	Wasif
30	Kishav Kumar	2107860100099	B.Tech	3rd	Kishav
31	Abhishek	2107860100002	B.Tech	3rd	Abhishek
32	Pranjal Sharma	2107860100082	B.Tech	3rd	Pranjal
33	Shivam Dediya	2107860100100	B.Tech	3rd	Shivam
34	Tahan Khan	2107860100116	B.Tech	3rd	Tahan
35	Nishant Dixit	2207860109018	B.Tech	3rd	Nishant
36	Aditya Singh	2107860100006	B.Tech	3rd	Aditya
37	Himanshu Dhiman	2107860100041	B.Tech	3rd	Himanshu
38	Arun Kumar	2107860100022	B.Tech	3rd	Arun
39	Harshit Rana	2107860100038	B.Tech	3rd	Harshit
40	Ayan	2107860100024	B.Tech	3rd	Ayan

Attendance (Training) B-Tech. Full stack Developer   Date: 22/11/23

Sr.No.	Roll No.	Student Name	Course	Year	Signature
1	22078601090004	Aman Singh	BTech	3rd	Aman
2	2107860100031	Dipanshu kumar Pandy	B.Tech	31rd	
3	2107860100017	Anikeet Kumar	B.tech	3rd	
4	2107860100030	Daresh Singh Negi	B.Tech	3rd	Negi
5	2107860100010	Amin kumar	B.Tech	3rd	
6	2107860100074	Naveen kumar	B.Tech	3rd	
7	2107860100075	Neelam	B.Tech	3rd	Neelam
8	2107860100068	M.d Sajid	B.Tech	3rd	md.sajid
9	2107860100056	md. Alfaz khan	B.Tech	3rd	A.khan
10	2107860100057	md. Danish	B.Tech	3rd	Danish
11	2107861520028	Vikas kumar Yadav	B-TECH	3rd	Vikay
12	2107861520014	Kanak charma	B-TECH	3rd	Kanakshar..
13	2107861520005	Ankit choubey	B.TECH	3rd	Ankit
14	2107861520016	krishna saini	B.TECH	3rd	Krishna
15	2107861520007	Ashish Singh	B.Tech	3rd	Ashish
16	2107861520008	Deepika Sharma	B.Tech	3rd	Deepika.
17	2107861540008	Anusha Guddati	B.Tech	3rd	Anushi
18	2207860107020	Roshan kn Baxnwal	"	3rd	
19	2207860109002	Akash	B.Tech	3rd	Akash
20	2007861540006	Rohit	"	4th	Rohit
21	2107860100045	Jatin Sen	"	3rd	
22	2107860100012	Aman Sagar	"	3rd	
23	2107860100037	Harshit Bhardwaj	"	3rd	
24	9207861549001	Prashant Rai	"	3rd	
25	2107860100009	Aman kumar	"	3rd	Amk.
26	9107860100079	Piyush Dubey	"	3rd	Piyush
27	2107860100084	Radhika Tayal	"	"	Radhika
28	2107860100089	Ritik kumar	"	"	Ritik
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TechSaksham

CERTIFICATE OF ACHIEVEMENT

This certificate is proudly presented to

Bashist Narayan

From

Mangalmay Institute of Engineering and Technology

for completion of the certification course in

Applied Cloud Computing for Software Development

under TechSaksham, a joint CSR initiative
between Microsoft and SAP,
implemented by Edunet Foundation

TSPIN24_118646

Gunjan C. Patel	**Rahul Baheti**	**Nagesh Singh**
AI National Skills Director	Chief Customer Officer	Executive Director
Microsoft Philanthropies	SAP India	Edunet Foundation