

ADD-ON TRAINING

B.Tech 3rd & 4th Year

IR4.0 Foundation Course in Full Stack

Under

TechSaksham



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



02:00 PM to 04:00 PM



Computer Lab, Block A



1800 103 3797 | www.mietengineering.org

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

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Date: - 17th Nov 2023

Notice

MIET is going to organize the Value-Added Certification Course "IR 4.0 Foundation Course" (Foundation in Full stack) for the students of B.Tech 3rd year and 4th year, as per the following details.

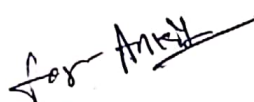
Date of Commencement: 22nd November, 2023

Beneficiaries: B.Tech 3rd and 4th year students

Total Duration: 42 Hours

Venue: Computer Lab 1 & 2

Resource Person: Mr. Karan Bhat (Trainer-Under Tech-Saksham, a joint CSR initiative between Microsoft and SAP, implemented by Edunet Foundation)


Abhishek Sharma
Head - CRD

CC to:-

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

Syllabus & Schedule

Training Program Name: IR 4.0 Foundation Course (Foundation in full stack)

Total Training Hours: 42

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



Report on IR 4.0 Foundation Course (Foundation in Full stack)

Training Name: IR 4.0 Foundation Course under Tech-Saksham, a joint CSR initiative between Microsoft and SAP, implemented by Edunet Foundation

Trainer Name: Mr. Karan Bhat

Total Registered Students: 72

Training Completed: 65

- Objective:**
1. Deep understanding of industry 4.0 core technologies and Concepts
 2. Advanced proficiency in Full –Stack Development Framework and tools
 3. Expertise in integrating modern and Emerging Technologies into applications
 4. Practical experience through real-world and industry focused projects.
 5. Comprehensive skill development for future oriented career roles in technology

Day 1

22nd November 2023 - Introduction to Full Stack Development

On the first day of the training, the session focused on providing an overview of full-stack development. Participants were introduced to the basic structure of a full-stack web application, which involves both front-end and back-end technologies. The session covered the role of each component in building a complete web application, emphasizing the importance of databases and cloud integration. The learners were briefed on various programming languages and tools used in both front-end and back-end development, including HTML, CSS, JavaScript, and Node.js.

Day 2

6th December 2023 - Basics of Linux Operating System

The second session was dedicated to introducing the Linux operating system, an essential tool for developers. Participants were taught about the Linux terminal, its file system structure, and basic commands such as ls, cd, mkdir, and file permissions. The training aimed to familiarize students with navigating through the Linux environment,



as it is a critical skill for full-stack developers. Understanding Linux is important as it serves as the foundation for many web servers and development environments.

Day 3

7th December 2023 - Advanced Linux Commands

The third session advanced participants' understanding of Linux. The learners explored advanced commands, such as file redirection, piping, and background processes. Emphasis was placed on process management tools like ps, top, and kill, which help in managing running processes efficiently. The session also covered shell scripting, a crucial skill for automating tasks and improving efficiency in development and system management. Students were encouraged to practice using these commands for real-world development tasks.

Day 4

8th December 2023 - Introduction to DBMS

The fourth day introduced participants to the fundamentals of Database Management Systems (DBMS). The session included an explanation of the importance of databases in storing, retrieving, and managing data in full-stack development. Topics covered included relational databases, the structure of tables, and the role of keys in ensuring data integrity. The learners also gained insights into the differences between relational and non-relational databases and their use cases in various development scenarios. This foundational knowledge was essential for the subsequent SQL training.

Day 5

11th December 2023 - Basic SQL Queries

On the fifth day, the training focused on SQL (Structured Query Language), a vital skill for interacting with relational databases. Participants were introduced to the basic SQL commands such as SELECT, INSERT, UPDATE, and DELETE. The session also included practical examples of querying databases to retrieve data, update records, and perform other basic database operations. Students learned how to create tables, define relationships, and ensure data consistency through the use of primary and foreign keys.

Day 6

12th December 2023 - Advanced SQL Concepts

The sixth session built upon the basic SQL queries and delved into more advanced concepts such as joins, subqueries, and aggregate functions. Learners were taught how to use INNER JOIN, LEFT JOIN, and RIGHT JOIN to combine data from multiple tables efficiently. The session also covered nested queries and grouping data using



functions like COUNT(), SUM(), and AVG(). These skills are vital for handling complex database operations in full-stack applications.

Day 7

13th December 2023 - Basics of Front-End Development

The seventh day introduced participants to front-end development, focusing on the essential web technologies: HTML and CSS. Students learned how to structure web pages using HTML elements and how to apply styling using CSS to make the pages visually appealing. The session included hands-on exercises where learners created basic static web pages, focusing on layout, typography, and color schemes. The importance of user experience (UX) design was also emphasized in building accessible and responsive web pages.

Day 8

14th December 2023 - Advanced HTML and CSS

The eighth day focused on advanced concepts in HTML and CSS, including responsive design techniques using media queries and the CSS Grid and Flexbox layout systems. The session aimed to equip learners with the skills to design adaptive web pages that work across different screen sizes and devices. Students were shown how to create dynamic and modern layouts, ensuring that the web applications they build are user-friendly and visually attractive across all platforms.

Day 9

18th December 2023 - Introduction to JavaScript

The ninth session introduced JavaScript, a core technology for building interactive and dynamic web pages. Learners explored the basic syntax and structure of JavaScript, including variables, data types, operators, functions, loops, and conditionals. The session also covered how to manipulate the Document Object Model (DOM) to change HTML and CSS dynamically in response to user interactions. This was an important step towards creating engaging and responsive user interfaces.

Day 10

20th December 2023 - Advanced JavaScript

The tenth day delved into advanced JavaScript concepts such as asynchronous programming, promises, and callbacks. Participants learned how to handle asynchronous operations, such as fetching data from APIs, without blocking the main



thread of the application. This session also introduced JavaScript's localStorage and sessionStorage for persistent client-side data storage. The skills learned were crucial for developing efficient and scalable web applications.

Day 11

21st December 2023 - Introduction to Python Programming

On the eleventh day, Python programming was introduced to the participants. Python is a versatile language often used in back-end development, data science, and automation. Learners were introduced to Python's syntax, including variables, data structures (lists, tuples, dictionaries), and control flow (loops, conditionals). The session focused on building a solid foundation in Python to enable participants to integrate it into back-end development.

Day 12

22nd December 2023 - Advanced Python Programming

The twelfth session covered advanced Python topics, including file handling, working with libraries like NumPy and Pandas, and object-oriented programming (OOP). Students learned how to create and manage classes, objects, and methods, as well as handle exceptions and errors in Python. The session aimed to prepare participants for Python-based back-end development in full-stack applications.

Day 13

26th December 2023 - Introduction to Azure Cloud

The thirteenth day introduced Microsoft Azure, a popular cloud platform for hosting, managing, and scaling web applications. The session covered Azure's core services, including Virtual Machines, Blob Storage, and Azure SQL Database. Participants learned how cloud platforms like Azure help developers manage infrastructure more efficiently, allowing them to focus on application logic. The session provided an overview of how Azure fits into the full-stack development lifecycle.

Day 14

27th December 2023 - Working with Azure Virtual Machines

On the fourteenth day, learners were introduced to creating and managing Virtual Machines (VMs) on Azure. The session covered setting up VMs, configuring networking, and managing resources effectively. Participants learned how to deploy and configure Linux-based and Windows-based VMs in the cloud, an essential skill for managing development and production environments in a full-stack application.



Day 15

28th December 2023 - Introduction to Azure Databases

The fifteenth day focused on Azure's cloud database offerings. Participants learned how to configure and manage Azure SQL Databases and integrate them into full-stack applications. The session also covered the basics of cloud database security, backups, and scaling. By the end of the session, learners understood how to leverage Azure Databases for high-performance and scalable data management.

Day 16

29th December 2023 - Azure Blob Storage

The sixteenth session covered Azure Blob Storage, a highly scalable object storage solution for unstructured data. Participants learned how to upload, download, and manage files on Azure's cloud storage. They were also taught how to integrate Blob Storage with web applications to store and serve files, such as images and documents, dynamically within applications.

Day 17

1st January 2024 - Basics of React

On the seventeenth day, participants were introduced to React.js, a powerful JavaScript library for building user interfaces. The session focused on understanding React components, JSX syntax, and state management. Learners created simple React applications, developing the skills needed to build dynamic user interfaces for web applications.

Day 18

2nd January 2024 - Advanced React.js

The eighteenth session delved deeper into React.js, covering advanced topics such as React Hooks, Context API, and React Router for navigation. Students learned how to manage state more efficiently using hooks like useState and useEffect. The session also focused on optimizing React applications for better performance and scalability.

Day 19

3rd January 2024 - Introduction to Node.js

The nineteenth session introduced Node.js, a runtime environment for executing JavaScript on the server-side. Participants learned how to create and manage servers using Node.js, handle HTTP requests, and interact with databases. This



session was crucial for understanding how the back-end of a full-stack application operates.

Day 20

4th January 2024 - Full-Stack Project Implementation

The final session of the training involved implementing a full-stack project. Participants used all the skills they had learned throughout the training to build a complete web application. The project covered front-end, back-end, and cloud integration, and the learners deployed their application on Azure Cloud. This hands-on session allowed participants to see how all the pieces fit together in a real-world scenario.

Day 21

5th January 2024 - Evaluation

The last day was dedicated to evaluating the learners' understanding and skills. The evaluation involved a project review, practical exams, and feedback sessions. Participants demonstrated their full-stack development skills by completing a set of challenges and answering

- Outcome:**
1. Proficiency in advanced Full-Stack Development
 2. Expertise in Emerging Technologies Integration
 3. Hands-On Experience through real-World projects
 4. Development of future-ready technical and analytical Skills
 5. Improved career prospects and job readiness.



Sr.	Name	Email	Track	Trainer	Batch Code	Graduation College	Graduation Course	Gender	Percentage Attendance	Certificate Eligibility
6351	Shiva saini	shivasaini21january@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	90	Completion
6365	Neeraj Patel	kumarayan611@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	90	Completion
6369	Parinav pathak	parinavpathak0123@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	90	Completion
6375	MOHD DILSHAD	mohddilshad0473@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	50	Participation
6376	Arun Kumar	ac7631231@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	100	Completion
6378	Anuj kumar	anujsaroj412@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	90	Completion
6379	Harshit rana	harshitrana.2003@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	90	Completion
6385	Himanshu Dhiman	himanshudhiman0004@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	100	Completion
6387	Kanak Sharma	kanak7830@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Female	100	Completion
6388	Akash	akash64816481@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	70	Completion
6390	Vikas kumar yadav	vikasyadav21022003@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	100	Completion
6394	Md Hammad Wasif	wasifh912@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	100	Completion
6397	Mohd sajid	khansajidkhan2196808@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	100	Completion
6406	Mohd Saif	mohdsaimfms177@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	100	Completion
6407	Arvind Saini	arvidsaini7536@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	80	Completion
6412	Aman kumar	amanpandey9962@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	80	Completion
6415	Arif Ali	arif71572@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	100	Completion
6416	Ankit Choubey	imkitchoubey@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	100	Completion
6419	Aditya Raj	aadityarajias@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	70	Completion
6426	PIYUSH DUBEY	piyushdubey4321@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	100	Completion
6431	Saurabh singh	saurabhsingh6844@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	90	Completion
6432	Ishita gupta	ishitagupta634@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Female	70	Completion
6433	PRAMOD KUMAR	pramodkumarrupauliya@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	100	Completion
6436	Vivek kumar Mishra	vivekmishra89994@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	90	Completion
6439	dipanshu kumar pandey	dkpandeyking123@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	30	Low Attendance
6445	Aman Kumar	papa9199333143@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	90	Completion
6459	Vidyasagar pandey	vidyasagarpandey43@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	70	Participation
6463	Anshu dixit	anshu912002@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	50	Low Attendance
6511	MD ALFAZ KHAN	alfaazk128@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	90	Completion
6519	FIRDAUSH KHAN	FirdaushKhan42@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Female	90	Completion
6524	Krati Saxena	saxenakrati01@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Female	70	Completion
6542	Yogesh Sharma	ys9761681@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	90	Completion
6563	Nagad Narayan	nagadnarayan67@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	90	Completion
6568	Rahul Prajapati	rp949540@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	80	Completion
6577	Harsh Shrivastava	hs60694@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	100	Completion
6582	Tahar khan	tahark574@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	20	Low Attendance
6596	Naveen Kumar	kumarkunnu250@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	100	Score < 20
6601	Pranjal Sharma	bittusam27@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	90	Completion
6602	Abhishek	ns9412428444@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	60	Completion
6632	Mayank Maurya	mayank01112001@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	100	Completion
6633	Abhay Singh	theabhaysingh.1234@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	100	Completion
6637	Saurabh Pandey	saurabhpandey3212@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	80	Completion
6638	Arvind Kumar	arvindkumar735240@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	100	Completion
6643	Diwakar kumar	sonusinghdj999@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	80	Completion
6648	Sumit Rawat	sr569519@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	90	Completion
6649	Md Afjal Ali	mdafjalali272@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	70	Completion
6653	Shabes	shabeskhan7171@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	60	Participation
6654	Mukul Pandey	mukulrajapandey@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	70	Completion
6657	Srishti Chauhan	srishtichauhan7280@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Female	100	Completion
6658	Shivanshu Singh	shivanshusingh0899@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	70	Completion
6659	Shubham Raj	sraj.845453@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	60	Completion
6663	Saurav Kumar	sauravkumarsmp99@gmail.com	TSP3FC	Karan Bhat	MIOEAT_TSP3FC_2	MIET	B.Tech- Computer Science and Engineering.	Male	90	Completion

Shu

6664	Surbal	subbal1652@gmail.com	TSP3FC	Karan Bhat	MIOEAT TSP3FC 2	MIET	B.Tech- Computer Science and Engineering.	Male	83	Completion
6665	Shruti Sharma	shrutisr1245@gmail.com	TSP3FC	Karan Bhat	MIOEAT TSP3FC 2	MIET	B.Tech- Computer Science and Engineering.	Male	83	Completion
6670	Shravya Sharma	shravya122111@gmail.com	TSP3FC	Karan Bhat	MIOEAT TSP3FC 2	MIET	B.Tech- Computer Science and Engineering.	Female	100	Completion
6712	ADITYALLEN	adityalenn559@gmail.com	TSP3FC	Karan Bhat	MIOEAT TSP3FC 2	MIET	B.Tech- Computer Science and Engineering.	Male	100	Completion
6729	Vivek	vks74547@gmail.com	TSP3FC	Karan Bhat	MIOEAT TSP3FC 2	MIET	B.Tech- Computer Science and Engineering.	Male	100	Completion
6731	Shravya Jain	shravyajain704@gmail.com	TSP3FC	Karan Bhat	MIOEAT TSP3FC 2	MIET	B.Tech- Computer Science and Engineering.	Female	83	Completion
6743	Harsh Jain	harsh18421@gmail.com	TSP3FC	Karan Bhat	MIOEAT TSP3FC 2	MIET	B.Tech- Computer Science and Engineering.	Male	93	Completion
6725	Bhupendra Kumar Ray	bhukr291899@gmail.com	TSP3FC	Karan Bhat	MIOEAT TSP3FC 2	MIET	B.Tech- Computer Science and Engineering.	Male	80	Completion
6724	Rishabh Varshney	rishabhvarshney58@gmail.com	TSP3FC	Karan Bhat	MIOEAT TSP3FC 2	MIET	B.Tech- Computer Science and Engineering.	Male	80	Completion
6733	Ramesh Kumar Yadav	yadvram163425@gmail.com	TSP3FC	Karan Bhat	MIOEAT TSP3FC 2	MIET	B.Tech- Computer Science and Engineering.	Male	70	Completion
6742	Tushar Chautan	tushar170423@gmail.com	TSP3FC	Karan Bhat	MIOEAT TSP3FC 2	MIET	B.Tech- Computer Science and Engineering.	Male	100	Completion
6734	Anisha Das	dasanisha555@gmail.com	TSP3FC	Karan Bhat	MIOEAT TSP3FC 2	MIET	B.Tech- Computer Science and Engineering.	Female	100	Completion
6810	Erishma Saini	erishma54012@gmail.com	TSP3FC	Karan Bhat	MIOEAT TSP3FC 2	MIET	B.Tech- Computer Science and Engineering.	Male	50	Low Attendance
6877	Rishav Kumar	rishav1252000@gmail.com	TSP3FC	Karan Bhat	MIOEAT TSP3FC 2	MIET	B.Tech- Computer Science and Engineering.	Male	70	Completion
7012	Shubh Dutt	shubh1553@gmail.com	TSP3FC	Karan Bhat	MIOEAT TSP3FC 2	MIET	B.Tech- Computer Science and Engineering.	Male	70	Completion
7013	Hrithik Raj	hrithikraj5559@gmail.com	TSP3FC	Karan Bhat	MIOEAT TSP3FC 2	MIET	B.Tech- Computer Science and Engineering.	Male	100	Completion
7022	Vivek Singh	vivthoburk@gmail.com	TSP3FC	Karan Bhat	MIOEAT TSP3FC 2	MIET	B.Tech- Computer Science and Engineering.	Male	70	Completion
7031	Vikas Yadav	vikas1252000@gmail.com	TSP3FC	Karan Bhat	MIOEAT TSP3FC 2	MIET	B.Tech- Computer Science and Engineering.	Male	70	Completion
7043	Rishi Pandey	rishi1252000@gmail.com	TSP3FC	Karan Bhat	MIOEAT TSP3FC 2	MIET	B.Tech- Computer Science and Engineering.	Male	50	Low Attendance
7103	Aditya Kumar	aditya20014@gmail.com	TSP3FC	Karan Bhat	MIOEAT TSP3FC 2	MIET	B.Tech- Computer Science and Engineering.	Male	60	Score < 20

Shubh

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 | 9717806956

Associate Director-PM | TechSaksham Program

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 Mangalmai 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).

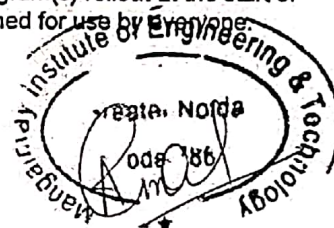
Whereas, Institution is a premier Institution with the following details:

Established (year):	2011
Recognition, NAAC rating, ranking:	NA
Vision:	Mangalmai 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.

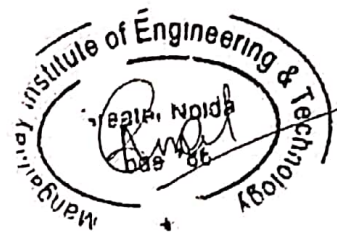
And whereas, the Parties seek to collaborate with each other to mutually complement their synergies and to jointly work on building capacity of learners through one or more of the programs managed by Edunet.

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 on either 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 who will serve as a primary point of contact on all matters related to program rollout. Individual learners and teachers may be in touch with corresponding trainers, mentors, advisors, and peers 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.

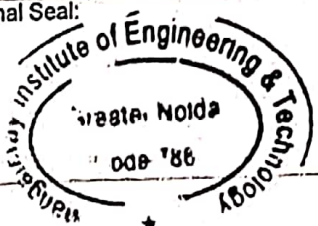



6. **Responsibilities of Edunet and / or its program sponsors / partners:**
- a. **Orientation sessions :** Edunet will conduct orientation sessions for learners and educators, at a mutually agreed schedule, to onboard them on to the program(s).
 - b. **Program materials:** Edunet will share all program 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 or conduct 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 the program(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 programs 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 the Parties.



- 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.

<p>For Institution</p> <p><i>(Signature)</i></p> <hr/> <p>Name: Aayush Mangal</p> <hr/> <p>Designation: Vice Chairman</p> <hr/> <p>Institutional Seal:</p> 	<p>For Edunet Foundation</p> <p><i>(Signature)</i></p> <hr/> <p>Name: Ashish Arora</p> <hr/> <p>Designation: Director - Outreach</p> <hr/> <p>Seal:</p> 
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TechSaksham

CERTIFICATE OF ACHIEVEMENT

This certificate is proudly presented to

Anisha Das

From

Mangalmay Institute of Engineering and Technology

for completion of the certification course in

IR4.0 Foundation Course

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



TSPIN24_118646

Gunjan C. Patel

AI National Skills Director
Microsoft Philanthropies

Rahul Baheti

Chief Customer Officer
SAP India

Nagesh Singh

Executive Director
Edunet Foundation

