



“Techno-social Excellence”
Marathwada Mitra Mandal’s
INSTITUTE OF TECHNOLOGY
Lohgaon, Pune-411047

CRITERION-6

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6.2.1: The institutional Strategic/ perspective plan is effectively deployed

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		3	Research Culture - Sample
		4	MoU -Sample
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		6	Improved Governance- ERP
		7	Appointment of Ph.D Faculty
		8	Industry Institute Interaction – Training Activity
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“Techno-Social Excellence”

Marathwada Mitramandal's Institute of Technology (MMIT)
Lohgaon, Pune – 411047

www.mmit.edu.in

Perspective / Strategic Plan

(For Academic Year: 2021-22, 2022-23 and 2021-2026)

Introduction:

The trust “Marathwada Mitramandal” was established in 1967 with a dedication of providing quality education to the society with the motto “Welfare of Masses”. Marathwada Mitramandal’s Institute of Technology (MMIT), Lohgaon was established in 2008 with vision “Techno-Social Excellence”. The institute is striving at its best to provide quality education to the students with a sense of social responsibility. It also takes the initiative in supporting the education expenses of needy and financially weaker students. Further, to enhance the existing status and initiate the process of change / upgradation towards the growth and sustainability of the MMIT, a preliminary Perspective / Strategic Plan for MMIT is proposed as below -

Vision of the Institution

The vision of the institution is “**Techno-Social Excellence**”. It aims to provide quality technical education to students by grooming them for the development of professional skills. It also focuses on sustainable development of students to face global challenges. The institution ensures the trust’s vision for an overall development of students through continual improvement and teamwork.

Mission of the institution

The Mission of the Institution is to - Enhance technology transfer, Implement entrepreneurship, Promote global competency, Integrate innovative pedagogy, Create excellent human resource

Quality Policy

MMIT strives for imparting quality technical education by adopting best possible standards for continual improvement in skills with awareness of social responsibilities to meet expectations of stakeholders.

Strategic plan for the AY 2021-22 & AY 2022-23

The strategic plan of the academic year 2021-22 is prepared on the basis of following parameters -

1. Curricular aspects and enrichment

For the enrichment of the curriculum the institute plans to

- a) Decide the benchmarks for overall institution development
- b) Emphasize on Outcome Based Education and Accreditation from NBA and re-accreditation from NAAC
- c) Organize value added / add-on / certification courses to minimize the gap between industry requirement and curriculum

2. Research and extension services

For enhancing R&D and extension activities the institute plans to

- a) Encourage the faculties for undertaking projects and grants
- b) Encourage the faculties to publish their research articles in reputed indexed Journals
- c) Collaborate with industries for MoUs for multi-disciplinary and interdisciplinary development

3. Infrastructure development & Learning resources

For infrastructure development and Learning resources the institute plans to

- a) Procuring high end computers required for enrichment of existing and planned courses
- b) Relocate and renovate the existing infrastructure facilities
- c) Introduce new courses in emerging areas with interdisciplinary approach

4. Improving governance and human resources

For improving governance the institute plans to

- a) Apply for permanent affiliation and compliance of related requirements
- b) Recruitment of experienced, competent faculties to fulfill the requirements of cadre ratio and SFR
- c) Enhance the overall governance by upgrading the ERP facilities

5. Enhancing Industry Institute Interaction and Training & Placement activities

For Enhancing Industry Institute Interaction and Training & Placement activities the institute plans to

- a) Strengthen the Industry Institute Interaction
- b) Provide opportunities to students for Industry sponsored internships and Projects.
- c) Improve the placements in Core Industries.
- d) Arrange Industry conclave

Plan for the period from 2021-22 to 2025-26

- a) Devise the mechanism for continuous Assessment and evaluation to measure outcomes. Planning for accreditation of all eligible courses by NBA
- b) To develop Centres of Excellence in for Mechanical and Mechatronics discipline
- c) To initiate consultancy services through core branches
- d) In view of the increase in the student admissions, it is planned to improve the infrastructure capabilities such as increasing hostel capacity, increase the capacity of STP plant.
- e) Developing student skill sets by developing modules from first year to final year consisting of interpersonal skills, team work, communication skills, interview skills, etc.
- f) Increase activities through alumni association, leverage for guest lecturers/internships/placement

Dr. Rupesh V. Bhortake
Principal, MMIT

"Excellence in the field of AI & DS"
DEPARTMENT OF ARTIFICIAL INTELLIGENCE & DATA SCIENCE

NOTICE

All the TE(AI&DS) students are hereby informed that Expert Lecture on "Network Traffic Monitoring Using Wireshark" is arranged on dated 25/08/2023 (Saturday). This Expert lecture insight on providing the knowledge of basics of Networking, use of Wireshark Tool in Network Analysis to trace connections, view the contents of suspect network transactions and identify bursts of network traffic.

Resource Person: Dr. Mangesh D. Salunke

Date : 25/08/2023 (Friday)

Time : 10:30 am to 1:00 pm

Venue : Data Science Lab, AI & ML Lab (AI & DS Dept.)

ATTENDANCE IS MANDATORY


Coordinator
Mr. N. S. Shaikh




HOD
Mr. A. K. Bhise
Head of the Department,
AI & DS.



"Techno-Social Excellence"
Marathwada Mitra Mandal's
INSTITUTE OF TECHNOLOGY (MMIT)
Lohgaon, Pune-47

"Excellence in the field of AI & DS"
Department of Artificial Intelligence & Data Science
(Academic Year 2023-24)

Expert Lecture


On

Network Traffic Monitoring Using Wireshark

Held on
25th August 2023


Coordinator
Mr. N. S. Shaikh




HOD
Mr. A. K. Bhise

Guest Lecture Details

Subject: Network Traffic Monitoring Using Wireshark

Attendee: 15 Students (TE AI & DS students)

Organized By: Department of Artificial Intelligence and Data Science, MMIT, Lohgaon-411 047

Date: 25th August 2023

Mode of conduction: Offline

Resource Person:

Name: Dr. Mangesh D. Salunke

Experience: 15 Years

Designation: Associate Professor

Institute: Marathwada Mitramandal's Institute of Technology Pune.

Objective of Guest Lecture

The objective of this expert lecture to understand network traffic analysis, how communication takes place when particular protocols are involved and where it goes wrong when certain issues occur using Wireshark.

Introduction:

Wireshark is a network packet analyzer. A network packet analyzer presents captured packet data in as much detail as possible. You could think of a network packet analyzer as a measuring device for examining what's happening inside a network cable, just like an electrician uses a voltmeter for examining what's happening inside an electric cable (but at a higher level, of course). In the past, such tools were either very expensive, proprietary, or both. However, with the advent of Wireshark, that has changed. Wireshark is available for free, is open source, and is one of the best packet analyzers available today.



Session by Dr. Mangesh D. Salunke

He highlighted the importance and application of Wireshark in computer network. He conducted hands on Wireshark tool for network traffic analysis and Cisco Packet Tracer tool.

Following topics are covered in the seminar

- Installation of Wireshark Software
- Basic concepts of the Network Traffic
- Most used Filters in Wireshark
- Wireshark packet sniffing
- Network Topology Design
- Routing Table
- Cisco Packet Tracer

Program Outcomes

- Students will able to understand network traffic analysis using Wireshark.
- Students will able to understand how communication takes place when particular protocols are involved and where it goes wrong when certain issues occur using Wireshark.
- Students will able to Design Network.
- Students will able to handle Cisco Packet Tracer Tools.



Session photos





"Techno-Social Excellence"
Marathwada Mitramandal's Institute of Technology
Lohgaon, Pune-411047.

"Excellence in the field of AI & DS"

Department of Artificial Intelligence & Data Science
Attendance of Expert Lecture on 'Network Traffic Monitoring Using Wireshark'

Date:28/08/2023

Sr. No	Roll No	Name of the Students	Sign
1	TE15	Jadhav vikas vijaykumar	Jadhav
2	TE13	Pratik Vishnu Hage	Pratik
3	TE12	Krushnali S. Gulmorkar	Krushnali
4	TE24	Khushi Mujawar	Khushi
5	TE36	Snehal Ankush Thorat	Snehal
6	TE30	Pratiksha Malunjkari	Pratiksha
7	TE19	Amarva Ramesh Kalbhorr	Amarva
8	TE18	Jay Chakale	Jay
9	TE01	Sunil Kadam	Sunil
10	TE58	Vraj Kurale	Vraj
11	TE07	Chinmay Dagade	Chinmay
12	TE27	Penna Venkata Swapna	Penna
13	TE22	Shruti Lahangre	Shruti
14	TE23	Shreyash Malav	Shreyash
15	TE10	Ashutosh Dalvi	Ashutosh
16	TE14	Harshal Sutar	Harshal
17	TE20	Pushkar Kale	Pushkar
18	TE09	Sainath Dahiwal	Sainath
19	TE33	Rahul Sasnikar	Rahul
20	TE31	Sachidanand Salun	Sachin
21	TE29	Prashika Nikam	Prashika
22	TE16	Priya G. Jagdhane	Priya



[Signature]
Event Coordinator

Timestamp	Username	Roll No.	Name of the Student	Planning and Organization of the programmer	How well did you understand today's lecture	Interactions by the Speaker	The lecture was interactive and felt engaged	Adequacy of time for presentation of topics	Any suggestions
2023/08/25 12:27:27 PM GMT+5:30	atharva.kalbhori@mmit.edu.in	19	ATHARVA KALBHORI	4	4	4	4	4	
2023/08/25 12:39:55 PM GMT+5:30	preethika.malunekar@mmit.edu.in	TE 10	Preethika Vasant Malunekar	3	4	4	3	3	NA
2023/08/25 12:40:09 PM GMT+5:30	abhishek.dalvi@mmit.edu.in	TE 10	Abhishek Dalvi	4	4	4	4	3	
2023/08/25 12:40:31 PM GMT+5:30	venkata.pennala@mmit.edu.in	TE27	Penna Venkata Swapna	4	3	3	3	3	NA
2023/08/25 12:40:41 PM GMT+5:30	srinath.thorant@mmit.edu.in	36	Srinath Thorant	4	4	4	4	4	NA
2023/08/25 12:41:02 PM GMT+5:30	jay.chakole@mmit.edu.in	TE 18	Jay Chakole	3	3	3	3	3	
2023/08/25 12:41:11 PM GMT+5:30	vikas.jadhav@mmit.edu.in	TE15	Jadhav Vikas Vijaykumar	4	4	4	3	4	No
2023/08/25 12:41:32 PM GMT+5:30	sumedh.kadant@mmit.edu.in	TEAD1	SUMEDH SUBODH KADAM	3	4	4	3	4	
2023/08/25 12:41:53 PM GMT+5:30	khushi.mujuwar@mmit.edu.in	TE24	Khushi Mujuwar	3	3	4	2	3	NA
2023/08/25 12:41:56 PM GMT+5:30	krushabh.gulmekar@mmit.edu.in	TE12	Krushabh Sandip Gulmekar	4	4	3	3	4	
2023/08/25 12:42:24 PM GMT+5:30	pratik.hagy@mmit.edu.in	13	pratik	4	4	4	4	3	NA
2023/08/25 12:42:50 PM GMT+5:30	shruti.lahange@mmit.edu.in	TE 22	shruti jitedra lahange	2	2	1	2	2	na
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2023/08/25 1:52:48 PM GMT+5:30	vraj.kurale@mmit.edu.in	38	Vraj Kurale	4	4	4	4	4	Na





IEEE ICBDS 2023
**2nd IEEE International Conference on
Blockchain & Distributed Systems Security 2023**



October 6-8, 2023 | IIIT Naya Raipur, Chhattisgarh

CERTIFICATE

This is to certify that

Mrunal Japtap

Presented the paper in track :

Blockchain Applications

for his/her research paper titled

Role of Blockchain in Health-Care Application

in the **2nd IEEE International Conference on Blockchain and Distributed Systems Security 2023**
held on **October 6th -8th, 2023.**

Jointly Organized by IEEE Computer Society, IEEE Pune Section,
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IEEE Computer Society Pune Chapter

Role of Block-chain in Health-Care Application

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Abstract: Because of the upgraded security and protection it gives, block chain innovation has been embraced in various ventures, including medical care. The ability to give members right and quick admittance to their wellbeing records is perhaps of the main asset in medical care frameworks. Because of block chain innovation's changelessness, decentralization, and security, the medical care industry might encounter change. Versatility, nonetheless, is a significant issue with block chain frameworks because of the record innovation and agreement methods used in those frameworks. Block chain sharding is a critical strategy for tending to the versatility issue in block organizations. Block-chain sharding addresses the versatility issues of block-chains by basically partitioning the organization into discrete gatherings, or shards, that execute exchanges in equal. In this paper, we give a decentralized and more versatile sharding worldview for overseeing medical care information. As per the review, a sharding philosophy based wellbeing application ought to be utilized, with patient solicitations used to make the shards. The suggested strategy can deal with a lot of medical services information while holding more noteworthy exchange speeds and further developed effectiveness, which recommends that it can possibly expand the versatility of blockchain-based wellbeing applications.

Keywords: Block-chain, ECC (Elliptic Curve Cryptography), healthcare, health-app.

I. INTRODUCTION

With the utilization of blockchain innovation, records can be kept safely and transparently without a focal power. In any case, there are numerous issues with its execution, particularly regarding adaptability. Give an overall clarification of the innovation prior to getting into the versatility limitations and trilemma that blockchain faces. To conquer these issues, blockchain sharding is being explored.

A. Overview of Blockchain

Medical services is one of the numerous businesses that has been impacted by the utilization of blockchain innovation. Its capacity to empower secure and straightforward information sharing has made it conceivable to further develop medical care benefits worldwide. Block chain, a kind of decentralized record innovation, allows direct exchanges between two gatherings without the utilization of a mediator. By creating Touch coin, Satoshi Nakamoto spread the word. Bit Coin, the first blockchain

application, empowered protected and straightforward exchanges without the utilization of delegates like banks. From that point forward, block-chain innovation has progressed, and different areas, including finance, supply chains, and medical care, have understood its commitment. Utilizing blockchain innovation, a protected and public stage for information partaking in medical services can be created. It can make it more straightforward for patients to speak with clinical specialists and give them admittance to their clinical data. Also, by permitting clinical specialists to securely get to patient information, blockchain innovation can upgrade medical care administrations.

B. Limitations and scalability trilemma in blockchain

Notwithstanding its enormous potential, blockchain innovation has various serious disadvantages that have blocked its reception in the medical services industry. The powerlessness of blockchain frameworks to scale is quite possibly of their most crucial blemish. A framework's capacity to deal with a developing number of clients or exchanges while keeping up with execution is known as versatility. As per the Adaptability Trilemma [2], just two of the three credits — security, versatility, and decentralization — can be achieved in block-chain frameworks. This impediment represses the far reaching reception of blockchain innovation. By recreating information across a scattered organization of hubs, blockchain innovation offers security and decentralization. Versatility is obliged by the constraints on the most extreme number of simultaneous exchanges that might be dealt with by this replication approach. The trouble of blockchain frameworks to scale prompts long exchange times and high exchange costs, which limits their utilization in the medical care area. Subsequently, while considering the utilization of blockchain applications, the issue of block-chain versatility becomes indispensable.

C. Blockchain sharding

Block-chain innovation's adaptability issue may be settled through sharding. It requires separating a block-chain network into more modest pieces, or "shards," every one of which has an unmistakable gathering of hubs in obligation of overseeing exchanges just inside that specific shard [4]. We utilize the sharding innovation to build the versatility of the blockchain-based medical care framework. Medical care

exchanges could be executed simultaneously while likewise speeding exchange speed and bringing down exchange costs by parceling a block-chain network into more modest shards. Various sharding techniques are utilized in block-chain. The organization is separated into more modest shards utilizing network sharding, a procedure for guaranteeing that exchanges are precise and supporting the organization. Our proposed sharding method for our framework, which we allude to as "exchange sharding," separates the handling load among various shards to increment exchange throughput. On the opposite side, state sharding isolates the blockchain into shards in light of the framework's present status, with every shard keeping up with its own state and performing exchanges connected with that state. These blockchain sharding strategies can subsequently assist with diminishing the organization's stockpiling and handling prerequisites, which will prompt quicker exchange handling times and more prominent adaptability [3]. In any case, the requirements of the application decide how these procedures are applied.

II. RELATED WORK

The expansive organization of blockchain applications is seriously obliged by adaptability and execution issues. We glance back at earlier examination on block-chain sharding and its utilization in medical care applications to decide the best limitations and openings in the current frameworks.

A. Omran et al. [5] offer a sharded block-chain based answer for distant side effect assortment and programmed conclusion during pandemics to ensure protection and versatility. The utilization of profound learning models, then again, can result in expanded computational and energy prerequisites for exchange handling. To give secure and proficient patient checking, Kumar R et al's. [6] proposition for an information sharing framework joins permissioned blockchain, brilliant agreements, and profound learning calculations. The framework influences blockchain, modifies medical services information, and recognizes attacks. Profound learning, nonetheless, could add to the intricacy of frameworks. Mohey E et al [7] introduced a combined blockchain framework, which incorporates numerous clients who can effectively convey information among themselves, to meet current medical services concerns and related work standards. They likewise talk about the utilizations of blockchain innovation and IoT gadgets in the medical care area. Clinical Chain [8], a blockchain-based innovation, makes it workable for patients and medical care suppliers to securely and openly share wellbeing records. Patients control who approaches their information, though outer professionals should go through an extensive access process that might be troublesome in a crisis. As the volume of exchanges increments, handling postpones in such medical services frameworks could turn into a worry. V. Patel et al. [9] fostered a blockchain-based clinical picture sharing framework to address interoperability. The framework's emphasis on interoperability, nonetheless, made security and administrative worries a test. A patient area sharing organization was proposed by Y. Zhang et al. [9], yet because of the PoW mining component's extended handling time and high energy utilization, the medical services area couldn't utilize it.

Different sharding frameworks consider various boundaries, including the kind of information, the size of the

block chain, and the level of safety and obscurity isolates. Each approach has a special arrangement of hubs that are responsible for it relying upon the situation. Cutting medical services calculations Blockchain innovation takes into consideration the characterization of patient information as per clinical history, therapy needs, and other important elements. This strategy guarantees that main approved parties approach the patient's information while empowering speedier and more proficient exchange handling. Elastico [9] is one of the essential sharding procedures for scaling numbskulls. A few proposed techniques, including Monoxide [8], Quick chain [5], Chain space [6], and numerous others, include PoW agreement and in this way request high figuring. Every one of these calculations has exceptional characteristics generally its own. There has not been a lot of examination on sharding comparable to blockchain-based wellbeing applications. Tong W et al. [3] introduced a blockchain-based IoT-based medical services block chain framework. Nonetheless, its agreement calculation requires more energy and eases back exchanges. Regardless of whether Ismail. L [4] inclined toward a dainty block-chain with populace groups, the single excavator system improves the probability of shard takeover endeavors. In spite of not getting more consideration in the medical services industry, sharding has demonstrated fruitful in different businesses. We propose a sharding way to deal with help the versatility of the block-chain framework.

III. METHODOLOGY

We show the preliminary information required for the wellbeing application's cycle and our recommended framework in this area. Likewise referenced is the sharding method used to work on the presentation and adaptability of the proposed framework.

A. Preliminaries

Given the versatility expansion in the recommended wellbeing application, there might have been various starting necessities and conditions that must be met prior to thinking about the proposed framework. The predetermined requirements are dynamic and dependent upon future developments in light of client demands; they are not fixed. We utilize the Hyperledger Texture network on the Ubuntu working framework for the blockchain-based wellbeing application. The Hyper Record Texture open source blockchain innovation offers a climate for making circulated applications. We send savvy contracts in Hyperledger Texture and control application conduct. Savvy contracts are a bunch of decides or programs that portray framework conduct, network exercises, and framework execution [8]. The turn of events and sending of shrewd agreements on the blockchain organization would be completed utilizing Golang. Each member's action is foreordained once the brilliant agreements are formed and placed into utilization and can't be modified or dismissed after it has been focused on the program. The program would be conveyed in a compartment utilizing Docker, considering simple sending across various conditions and the formation of brilliant agreements. For our arrangement to start as a versatile and effective stage for making blockchain applications, Node.js would likewise should be incorporated. The exhibition of the proposed sharding cycle can be surveyed utilizing different apparatuses, including Hyperledger Caliper. Engineers can

use these instruments and strategies to deliver a safe, versatile, and effective medical care application.

B. Workflow of proposed system

To help an assortment of medical care callings, including patients, medical care suppliers, drug specialists, and labs, among others, a stage named the wellbeing application was created. The organization influences sharding-fit block-tie innovation to build versatility and proposition a safe and reliable technique for correspondence while keeping up with the secrecy and trustworthiness of information. The wellbeing application's sharding engineering empowers the division of block-tie hubs to oblige a rising volume of exchanges. This usefulness empowers us to diminish dormancy and safeguard security while scaling the block-chain on a level plane. The sharding procedure makes various shards accessible, every one of which is associated with the fundamental block-chain and has a specific subset of organization members. Subsequently, the block-anchor can oversee gigantic measures of information easily. Individuals can likewise speak with each other through a decentralized organization in any event, when they are not associated with the web. In the proposed framework, the primary wellbeing block-chain fills in as an information store and action record for all organization clients. A clinical expert might present the underlying solicitation for a patient to get to the organization. A patient can choose the specialist they need to see while utilizing the application interestingly or for ensuing counsels. There is no prerequisite for successive patient discussions with a similar medical services supplier, and numerous patients might counsel on the double that too well give.

In our blockchain-based medical services framework, clinical experts get patient demands and affirm them utilizing the patient's ID to check whether a record for the solicitation as of now exists in the block-chain. In the event that a record as of now exists, medical services professionals make a computerized mark and broadcast it to organize clients. To further develop information security and wellbeing, our medical care blockchain innovation makes keys using elliptic bend cryptography (ECC) [13]. With the assistance of this element, extra security steps are utilized to safeguard the

patient's information against misrepresentation. The organization's hubs confirm the particular hash esteem in their vault once the computerized signature has been communicated to all clients. In the event that they find a record of the patient's previous judgments donors in the vault, they answer the medical services proficient by noticing its presence. On the off chance that the patient's name isn't recorded in the vault, the medical care supplier gives them an extraordinary new persistent ID and treats them as another passage in the blockchain. This technique safeguards against information breaks and wrong understanding data by ensuring that every patient record is unmistakable and doesn't exist two times.

The medical services blockchain innovation offers new clients a quick and safe enrollment process. The member ID, job (patient/specialist/Drug store/research facility), and data about related associations are remembered for the solicitation message to rigger the shrewd agreement that another client submits to enroll in the framework. The medical care specialist registers the encryption keys for the new hub utilizing the ECC calculation on the off chance that the character is genuine [13]. This methodology ensures that each new client has an exceptional encryption key, impressively improving framework security. To keep information from being caught by unapproved parties, wellbeing experts send the way to new hubs. By guaranteeing that all new hubs have secure admittance to the framework, this element brings down the probability of extortion. The clinical expert additionally keeps the enrollment information in the vault pool for later use in verification. Since clients have a method for validating their characters, the framework must be gotten to by the individuals who are approved. To deal with the patient. Medical care experts can quickly recover and trade patient clinical records to analyze and treat patients relying upon the data accessible. The opportunity of solution mistakes can be diminished by drug specialists by checking on the patient's prescription history. Test discoveries from labs can be transferred and shared, and other medical services suppliers can get to this data immediately to work on persistent results.

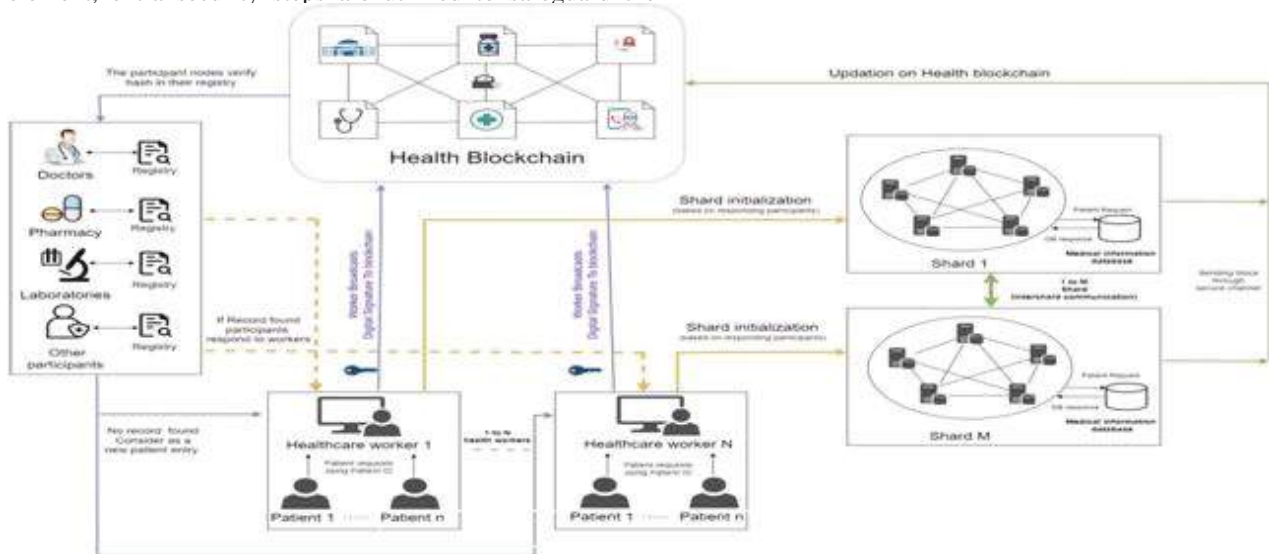


Fig. 1. Workflow Architecture of Proposed System

Our medical care block chain framework utilizes the technique for sharding to increment adaptability and value-based viability. The starting focuses for the shard are the amount of patients effectively mentioning arrangements from the medical care supplier and the amount of block-chain hubs that connected with the patient. Exchanges may just be made between shard hubs due to this element; they can't be made with some other blockchain hubs. The medical care proficient who began the shard and is as yet utilized is the shard chief. Since exchanges are confined to the hubs inside the shard and the interest on the whole blockchain framework is diminished, this component offers more proficient exchange handling. Numerous shards can be developed in a medical services blockchain framework to expand the framework's versatility and empower cross-shard correspondence. A medical care expert who gets a patient solicitation approves it by getting to and approving the fundamental clinical information from the clinical data set. A reaction is given after the solicitation has been approved. Between shard correspondence can be utilized if one shard has any desire to get to information from another shard. The fruitful activity of the blockchain framework relies upon successful between shard correspondence. Various shards are utilized by the medical services blockchain framework to effectively circulate assets and guarantee that exchanges are done.

The ongoing shard pioneer adds a block of exchanges and uses the PoA (Evidence of Power) agreement interaction to decide if the block is legitimate inside the shard [7]. An exchange is added to the medical care blockchain whenever it has been done through get correspondence. To save the trustworthiness of the entire blockchain framework, the block is added to the worldwide record whenever it has been affirmed. Shrewd agreements are utilized in the proposed framework to smooth out various organization processes, for example, member hub reaction, shard arrangement, exchange questioning, and hub enlistment. They start the agreement cycle and add new blocks to the blockchain network. Shards are quickly taken out once all virtual occasions of partaking hubs have been delivered, all dynamic arrangements have finished, and all member requests have been fulfilled. This component ensures that the framework can effectively distribute assets and just use what is required.

C. Sharding in Blockchain Health application

Sharding is one strategy for tending to the adaptability issues with blockchain innovation. In the wellbeing application, we utilize an even scaling procedure that enormously works on the versatility of a blockchain network. Because of its more noteworthy adaptability and diminished dormancy, this recommended framework use exchange based sharding. This improves proficiency and decreases the chance of struggles by guaranteeing that every shard processes the most extreme number of exchanges. For greatest versatility, the recommended approach centers around powerful cross-shard exchanges.

Since public blockchains are inadmissible for the arrangement of medical care, the wellbeing application was based on a consortium blockchain. Rather than PoW-based or BFT-based agreement, we utilize confirmation of power agreement. The agreement system known as evidence of power requires a pioneer to begin shard creation. In contrast with other agreement strategies, it can oversee up to half of malevolent hubs and is stronger to Byzantine

disappointments. Shrewd agreements are fundamental for laying out and protecting the organization's execution stream. Brilliant agreements are enacted when an exchange begins in the system[10]. We should examine a delineation of the proposed framework. The patient is addressed by Pn, the wellbeing laborer is addressed by HWN, the absolute number of wellbeing laborers is addressed by N, and the gathering of members in the clinical consideration staff is addressed by TPQ. P addresses the place of the member, which could be a specialist, drug specialist, research facility subject matter expert, or some other member, and q addresses the organization's extraordinary chronic number. The primary solicitation made by a patient is signified by ReqP, where ReqP represents the patient solicitation. ReqP is made out of a message (MP), an irregular number (Rand), and a computerized signature (Dn).

$$(\text{Rand} \parallel \text{MP} \parallel \text{Dn}) = \text{ReqP} \quad (1)$$

The Rand number is the result of the general population and confidential key qualities (KPvt, KPub) used to produce the hash esteem and the counter factor C. Here, a computerized mark can be made to increment exchange security by including an unmistakable irregular number. The exceptional irregular number is delivered by applying the key worth pair (KPvt, KPub) and counter ('C') to the hash message verification code ('H'). The condition understands $\text{Rand} = H((\text{KPvt}, \text{KPub}) \parallel \text{C})$. (2)

For different gatherings engaged with the patient's consideration to check the vault's hash esteem and answer the HW thus, the medical services proficient transmissions the computerized mark to the wellbeing blockchain. The members TPQ then answer as 1 or 0 for presence or nonexistence of the member record in their register in the wake of checking the hash with a reaction message TRES. Subsequent to hearing from the patient relative members, the HW starts the shard development. Allow SM to be the recently delivered shard and let M be the absolute number of shards being made. The wellbeing laborer, who additionally fills in as the framework's chief, fittingly begins the shard development as we execute the PoA agreement strategy. A reaction message (ResP) that incorporates the members' reactions, a computerized signature, an irregular number (Rand), and a message (Mres) about the patient's solicitation for the framework is shipped off the patient after a patient solicitation is effectively taken care of and gone into the clinical data set. The last understanding exchange (Fn) in the framework is meant by the recipe $\text{Fn} = (\text{Rand} \parallel \text{TpqRes} \parallel \text{Mres} \parallel \text{Dn})$. (3) The shard is delivered after the exchanges and related patient solicitations are done. The framework's handling power is safeguarded in light of the fact that static shard development isn't required. In any event $(Z/2 + 1)$ members should affirm the consideration of the block to the blockchain assuming there are Z all out members at the time the block is added. The members might incorporate clinical staff, patients, doctors, drug specialists, and anybody who have or will visit the patient.

IV. SECURITY ANALYSIS

We utilize the consortium blockchain to execute the wellbeing application in the proposed framework. Subsequently, the organization can have clients who are permitted. A programmer can without much of a stretch enter the framework and change the information since anybody can join the public block chain. The execution of the

Verification of Power agreement calculation offers more productivity and security when contrasted with evidence of work, BFT-based agreement approaches, and confirmation of stake [14]. The PoA agreement shields the framework from both 51% and refusal-of-administration assaults. The organization is safeguarded from indirect access and side channel assaults by circular bend cryptography. Also, it gives protection from unapproved network access. The utilization of arbitrary numbers and hashing both increment framework security. Computerized marks guarantee the credibility of messages sent through the organization. Besides, Sybil attacks are illogical since the organization just allows reliable gatherers to join; regardless, on the off chance that any hubs participate in malevolent way of behaving, the organization will suspend those hubs. Accordingly, the offered approach furnishes the medical care framework with better security and protection methodology.

V. PERFORMANCE EVALUATION

Since it utilizes sharded blockchain innovation, the proposed approach is recognizably unrivaled with regards to versatility. In correlation, the unsharded blockchain framework finishes less exchanges than the sharded blockchain framework. This segment offers an examination of the proposed sharded block chain wellbeing application's exhibition. There have been a lot more exchanges finished contrasted with unsharded exchanges. The test setting used an AMD Ryzen 5 3500 U processor and Ubuntu 22.04.2, a 64-cycle Linux working framework. The shard size has been determined in view of the quantity of elements connected to the ongoing patient and the treating physician[11]. The framework being scrutinized used a consortium blockchain geography with 1 Mb-sized blocks. At the point when the framework was first assessed to decide the most extreme number of arrangements it could deal with, 50 wellbeing specialist hubs were available.

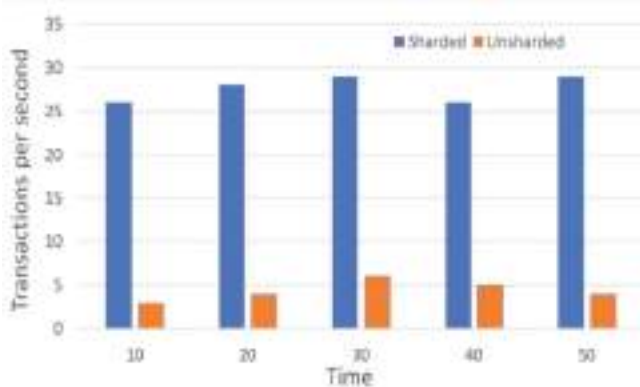


Fig. 2. Avg.no of transactions in sharded vs. unsharded system

The quantity of arrangements dealt with was then assessed to check whether it had changed because of the hubs being extended from 50 to 200. The developing measure of inquiries no affects the framework's presentation. This is consequently on the grounds that the development of patient-explicit shards is exclusively subject to the amount of substances included. Figure 2 shows the hubs' presentation as well as an examination of sharded and unsharded blockchain frameworks. The exchanges that are taken care of as per how much time utilized are likewise shown (Figure 3) underneath [15]. The general presentation beat an unsharded blockchain framework overwhelmingly.

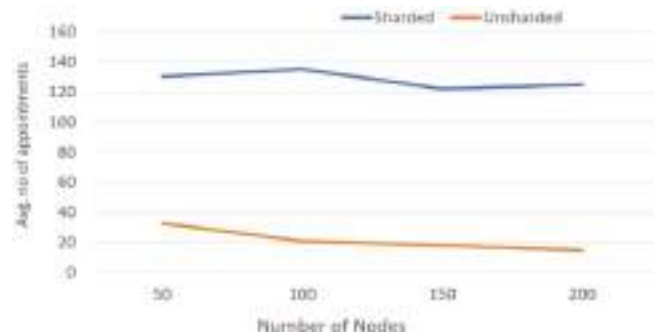


Fig. 3. TX. Processed w.r.t time (sec) in sharded vs. unsharded system

We assessed the usefulness of a wellbeing application and contrasted its presentation with an unsharded model to decide what our recommended sharding technique would mean for it. The throughput of framework demands and the relating exchange handling were utilized to check execution. The concurrent handling of arrangements inside shards showed a critical expansion in exchange handling utilizing the sharded method. The recommended strategy expects to accomplish greatest speed while protecting security and decentralization. The proposed framework keeps up with adaptability with the overall viewpoints of calculation necessity and execution measurements, as opposed to other sharding calculations like Elastico with low execution [4] or monoxide, which utilizes PoW [1] and brings about high calculation prerequisites bringing about great cross-shard correspondence between the shards. By extending the quantity of block chain hubs, we likewise analyzed versatility close by it. The outcomes uncovered that our recommended technique is more versatile, with minimal adverse impact on execution as exchanges were finished inside every shard.

VI. CONCLUSION

The boundless reception of block-chain innovation significantly affects the wellbeing area. We introduced a wellbeing application that utilizes block-chain innovation and the block-chain sharding method to support versatility and speed. In the proposed study, the usefulness of two block-chain models for the medical care area — one that utilizes sharding and one that doesn't — is looked at. The reproduction results showed that the throughput, number of finished exchanges, and exchange affirmation execution are extraordinarily worked on by our proposed system. The proposed strategy offers higher security and decentralization than unsharded block chain frameworks. The reception of encryption procedures and agreement on verification of-authority has made it attainable for network clients to successfully collaborate with one another more. Future exploration could possibly concentrate on security issues, take a gander at other decentralization-related issues, and better oversee health related crises. The proposed sharding method in block-chain based wellbeing applications offers an answer for the versatility issue and furthermore presents an appealing subject for extra review and examination in the field of medical care.

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MEMORANDUM OF UNDERSTANDING

Between

GRAPHIX TECHNOLOGIES
Licensee Of
BECIL EDUCATION AND TRAINING
(A GOVERNMENT OF INDIA ENTERPRISES)

Dargude Heights, Ground Floor, Behind Satkar Hotel, Nagar Road, Kharadi Bypass
Chouk, Nagar, Kharadi Pune-411014



And



“येसे बहुतांचे हित”

“Techno-social Excellence”
Marathwada Mitra Mandal's
INSTITUTE OF TECHNOLOGY(MMIT)
Lohgaon Pune 411047

Approved By AICTE, New Delhi
recognised by DTE Maharashtra
Affiliated to Savitribai Phule Pune University



Accredited With "A" Grade By NAAC

This Memorandum of Understanding (MOU) is entered on the date 25-07-2023. Between **INFINITE GRAPHIX TECHNOLOGIES PVT.LTD KHARADI, PUNE** and **MARATHWADA MITRAMANDAL'S INSTITUTE OF TECHNOLOGY, LOHGAON, PUNE**, for enhancing the quality of technical education being imparted to **Civil Engineering** Of engineering students at the institute.

❖ **OBJECTIVES:**

1. To promote and enhance academic interest between GRAPHIX TECHNOLOGIES & MARATHWADA MITRAMANDAL'S INSTITUTE OF TECHNOLOGY, LOHGAON, PUNE.
2. To provide advice for the implementation of quality education at MARATHWADA MITRAMANDAL'S INSTITUTE OF TECHNOLOGY, LOHGAON, PUNE.
3. To promote/continue education activities between institutions.
4. This MOU has been signed for the purpose of enriching the quality of technical education in new subject areas, learning, and teaching processes, and to jointly work for enhancing the quality of education being imparted to engineering students.
5. To prepare students with advanced technical skills in order to make them compatible with industrial needs and to gain recognition globally.

❖ **BENEFITS FOR BOTH PARTIES:**

As per MOU

(INFINITE GRAPHIX TECHNOLOGIES PVT.LTD KHARADI, PUNE,)
will

help the institute by granting the permission for-

1. Conduct guest lectures, workshops, competitions (in house, national, international level), seminars, conferences, and various other interactive activities to bring out the best in students.
2. Allow faculty-training programs on newly developing technologies in order to increase the quality of classroom education.

3. Provide technical as well as soft skills training to increase employability. To prepare students for a professional industrial approach.
4. Work with educational bodies/ universities to align industrial requirements with college curricula.
5. Technical guidance for the development of College Lab and Setups. Provide research projects to teaching faculties to enhance the quality of education.
6. Share industry-oriented courseware and technology with students and faculty members and organize joint programs between industry and academicians.

MARATHWADA MITRAMANDAL'S INSTITUTE OF TECHNOLOGY, LOHGAON, PUNE will help GRAPHIX TECHNOLOGIES provide-

1. Research or computer lab facility for theory and practical classes.
2. Help in deciding on-campus interviews and events for student welfare.
3. Information about passed-out students looking for a change in service.
4. Organizing career counseling sessions for students of the institute.
5. Technical support in the planning of any program that is to be held at the institute.
6. Prepare students for the job opportunities that are being marked with the help of our PLACEMENT DIVISION.
7. **Software License:** CAD/CAM/CAE training license will be provided by the college For In-house Training.

❖ TERMS AND CONDITIONS:

A. Relationship:

- The cost of development of infrastructure at MARATHWADA MITRAMANDAL'S INSTITUTE OF TECHNOLOGY, LOHGAON, PUNE should be Done by MARATHWADA MITRAMANDAL'S INSTITUTE OF TECHNOLOGY, LOHGAON, PUNE
- For continuing education to MARATHWADA MITRAMANDAL'S INSTITUTE OF TECHNOLOGY, LOHGAON, PUNE teachers and students, the financial agreements will be made on mutually agreed upon terms
- For the visit related to advice & consultancy, travel, and other expenses of GRAPHIX TECH Faculty and staff shall be reimbursed by MARATHWADA MITRAMANDAL'S INSTITUTE OF TECHNOLOGY, LOHGAON, PUNE on mutually agreed terms.
- The faculty members and students of MARATHWADA MITRAMANDAL'S INSTITUTE OF TECHNOLOGY, LOHGAON, PUNE can use the library facility of GRAPHIX TECH for short time.
- Usage of GRAPHIX TECH academic infrastructure can be allowed for a limited period subject to its availability approval of the facility/department and institute norms.
- Both institutes agree to help, identify and invite the faculty member and researchers for the other institute to participate in conferences, workshops, and short-term courses.
- This MOU may be amended, renewed, and terminated by mutual written agreement of the institute at any time.
- MOU is the collaboration between two parties for mutual benefits
- MOU stands valid for *Five years* from the date of the agreement. The collaboration can be terminated from either side with a notice period of *one month*.
- Both parties shall work in synchronism to ensure the successful completion of the collaboration.
- **Mr. Kishor More** will be a single point of contact from GRAPHIX TECH

- **HOD OR PRINCIPAL** will be single point of contact from
MARATHWADA MITRAMANDAL'S INSTITUTE OF
TECHNOLOGY, LOHGAON, PUNE.

B. Obligations:

1. There shall be no obligation on any party to compensate the other in any manner or to make any claim.
2. Each party shall meet the expenses as mutually agreed.
3. Each party shall respect the others intellectual properties.
4. Both parties shall maintain confidentiality about any information.

C. Limitations:

1. Each party represents that they have full power and authority to enter into this MOU.
2. Each party shall ensure to work together with maturity.

❖ Coordinators

Both institutes will designate a person who will have the responsibility of coordination and implementation of this agreement.

❖ **Intellectual Property Rights**

The intellectual property rights (IPR) that arise as a result of joint research and collaboration activity under the agreement will be worked out on a case-to-case basis and will be consistent with the officially laid down IPR policies of the two institutes.

❖ **Signed in duplicate**

This MOU is executed in duplicate with each copy being an official version and having equal legal validity. By signing below the institutes acting by their duty authorized officers, have caused this memorandum of understanding to be executed, effective as of the day and year first above written.



KISHOR B MORE(DIRECTOR)
GRAPHIX TECHNOLOGIES
LICENSEE OF
BECIL (A GOVERNMENT
INDIA, PUNE).



(Dr. A. S. Khatri)
PRINCIPAL/HOD

MARATHWADA MITRAMANDAL'S
INSTITUTE OF TECHNOLOGY
LOHGAON, PUNE



MARATHWADA MITRA MANDAL, PUNE

202/A, Deccan Gymkhana, Pune - 411004

Registration Under Societies Registration Act 1860-Mah./523 Dated 06/01/1967
Registration Under Bombay Public Trust Act 1950-F-338/P/ Dated 19/01/1967

Tel. : 020-25665320, 8149032328 | Telefax : 020 -25663039

E-mail : mmmnda187@gmail.com

Shivajirao D. Ganage, President
Bhauasaheb G. Jadhav, Exe President
Kishor H. Mungale, Secretary

PURCHASE ORDER

Purchase Order Number: MMM/MMIT/PUR/2023-24/ 1185

Name: Zoom Computers	P.O. Date	27.09.2023
Address: 17/7, Off.No 4&6, Sai House, Above Mahesh Sah Bank, Karve Rd, Pune - 04	Quotation No.	ZC/26/08
GST No: 27AAAFZ1779K1ZM	Quotation Dt.	26.09.2023
Contact Person: Mr. Mangesh Bhalarao	Office Note / PRN No.	-
	Office Note / PRN Date	20.09.2023
	C.S.Q. Date	26.09.2023

Dear Sir,

With reference to your quotation no. ZC/26/08 received through mail dtd. 26.09.2023 mentioned above, we are pleased to place an order with you for the following items, subject to the terms and conditions specified below & / or enclosed herewith. We request to return a duplicate copy, duly signed, as a token of acceptance.

Sr No.	Material Code & Description	Qty.	Unit / Pack	Unit Rate Rs.	Amount Rs.
1	Desktop: Processor: Intel Core i5-12400F 12th Gen MB: Asus MB PRIME H610M-CS-D4 RAM: Crucial 16 GB 3200 GHz SSD: WDSS 500 GB Nvme M 2 (S1570) GC: 2 GB DDR3 ASUS GT 710 Cabinet: Circle Cabinet Desire 3.0 with SMPS KB + M: Logitech USB Keyboard + Mouse MK120 MTR: 23.8" LED Monitor LENOVA L24t-40 + HDMI+VGA+ BORDERLESS	150	Nos	32.900	49,35,000

Payment Terms: 100% After Delivery	Total Amount:	49,35,000
Warranty: 5 Years for SSO	Less Discount	-
3 Years on remaining items.	Discounted Price:	49,35,000

Delivery Address.: Marathwada Mitra Mandal's Institute of Technology Lohegaon, Pune - 47	Transportation	N/A	-
MMM GST No: 27AAATM969BN1Z1	P/F:	N/A	-
Special Instruction: 1. Please mentioned P.O. No. and Date on Bill and Delivery Challan	Excise Duty:	N/A	-
	GST:	18.0%	8,88,300
	Insurance:	N/A	-
	Add/Less R/O.:	-	-
	Net Amount Rs.		98,23,300

Rupees: Rupees Fifty Eight Lakh Twenty Three Thousand Three Hundred Only.

Transport : Free
Payment : After Delivery

Marathwada Mitra Mandal

Delivery Commitment: Immediate after PO.



Authorized Signature

(Supplier /Office Copy/ Account Copy/ Store Copy/Master Copy) Please quote the above Purchase Order number in all the correspondence.

M.M.M. Institute of Technology 2022-23

S. No. 35, Plot No. 5/6, Lohgaon, Pune

CIN: .

LABORATORY EQUIPMENTS A/C

Ledger Account

1-Apr-23 to 23-Jan-24

Page 1

Date	Particulars	Vch Type	Vch No.	Bank Date	Debit	Credit
1-Apr-23	Cr	Opening Balance				73,34,984.53
25-Aug-23	Cr	(as per details) Purchase	347			17,200.00
		INNOVAIR TECHNOLOGY	20,296.00	Cr		
		INPUT CGST - 9%	1,548.00	Dr		
		INPUT SGST - 9%	1,548.00	Dr		
		BEING BILL NO. 2023-24/115 DATED 25.08.2023 RECEIVED FROM INNOVAIR TECHNOLOGY FOR PURCHASE OF OIL FREE COMPRESSOR FOR MECHX DEPT. RECORDED FOR PAYMENT.				
31-Aug-23	Cr	(as per details) Journal	1082			3,096.00
		INPUT CGST - 9%	1,548.00	Cr		
		INPUT SGST - 9%	1,548.00	Cr		
		BEING INPUT CGST, SGST AND IGST AMOUNTS DEBITED TO EXPENSES A /C AND CREDITED RESPECTIVE GST ACS FOR THE MONTH OF AUGUST, 2023.				
22-Sep-23	Cr	(as per details) Purchase	417			2,11,779.80
		MicroEmbedded Technologies	2,49,900.00	Cr		
		INPUT CGST - 9%	19,060.18	Dr		
		INPUT SGST - 9%	19,060.18	Dr		
		Rounded Off From Bills A/c		0.16	Cr	
		BEING TAX INVOICE NO. 53 DATED 22.09.2023 RECEIVED FROM MICROEMBEDDED TECHNOLOGIES FOR PUR OF IOT LAB MATERIAL RECORDED FOR PAYMENT. HSN - 8471				
30-Sep-23	Cr	(as per details) Purchase	438			72,500.00
		SAMBHUYA R ENERGY	81,200.00	Cr		
		INPUT CGST - 6%	4,350.00	Dr		
		INPUT SGST - 6%	4,350.00	Dr		
		BEING INVOICE NO. SRE/23-24/14 DATED 30.09.2023 RECEIVED FROM SAMBHUYA R ENERGY FOR PURCHASE BIOGAS RECORDED FOR PAYMENT.				
	Cr	(as per details) Purchase	439			63,440.00
		ASHA ENTERPRISES	74,859.00	Cr		
		INPUT CGST - 9%	5,709.60	Dr		
		INPUT SGST - 9%	5,709.60	Dr		
		Rounded Off From Bills A/c		0.20	Cr	
		BEING TAX INVOICE NO. 542 DATED 30.09.2023 RECEIVED FROM ASHA ENTERPRISES FOR PUR OF LAB EQUIPMENT (DME MECH) RECORDED FOR PAYMENT.				

Carried Over

77,03,000.33

continued ...

Date	Particulars	Vch Type	Vch No.	Bank Date	Debit	Credit
	Brought Forward					77,03,000.33
30-Sep-23	Cr (as per details)	Purchase	440		83,474.00	
	ASHA ENTERPRISES		98,499.00	Cr		
	INPUT CGST - 9%		7,512.66	Dr		
	INPUT SGST - 9%		7,512.66	Dr		
	Rounded Off From Bills A/c		0.32	Cr		
	BEING TAX INVOICE NO. 543 DATED 30.09.2023 RECEIVED FROM ASHA ENTERPRISES FOR PUR OF LAB EQUIPMENT (KOM MECH) RECORDED FOR PAYMENT.					
	Cr (as per details)	Purchase	441		48,020.00	
	Venkatesh Scientific & Services		56,664.00	Cr		
	INPUT CGST - 9%		4,321.80	Dr		
	INPUT SGST - 9%		4,321.80	Dr		
	Rounded Off From Bills A/c		0.40	Dr		
	BEING TAX INVOICE NO. 829 DATED 30.09.2023 RECEIVED FROM VENKATESH SCIENTIFIC & SERVICES FOR PUR OF LAB EQUIPMENT (EM LAB) RECORDED FOR PAYMENT.					
	Cr (as per details)	Journal	1182		8,700.00	
	INPUT CGST - 6%		4,350.00	Cr		
	INPUT SGST - 6%		4,350.00	Cr		
	BEING INPUT CGST, SGST AND IGST AMOUNTS DEBITED TO EXPENSES A/C AND CREDITED RESPECTIVE GST A/Cs FOR THE MONTH OF SEPTEMBER, 2023.					
	Cr (as per details)	Journal	1201		38,120.36	
	INPUT CGST - 9%		19,060.18	Cr		
	INPUT SGST - 9%		19,060.18	Cr		
	BEING INPUT CGST, SGST AND IGST AMOUNTS DEBITED TO EXPENSES A/C AND CREDITED RESPECTIVE GST A/Cs FOR THE MONTH OF SEPTEMBER, 2023.					
	Cr (as per details)	Journal	1208		11,419.20	
	INPUT CGST - 9%		5,709.60	Cr		
	INPUT SGST - 9%		5,709.60	Cr		
	BEING INPUT CGST, SGST AND IGST AMOUNTS DEBITED TO EXPENSES A/C AND CREDITED RESPECTIVE GST A/Cs FOR THE MONTH OF SEPTEMBER, 2023.					
	Cr (as per details)	Journal	1209		15,025.32	
	INPUT CGST - 9%		7,512.66	Cr		
	INPUT SGST - 9%		7,512.66	Cr		
	BEING INPUT CGST, SGST AND IGST AMOUNTS DEBITED TO EXPENSES A/C AND CREDITED RESPECTIVE GST A/Cs FOR THE MONTH OF SEPTEMBER, 2023.					

Carried Over

79,07,759.21

Date	Particulars	Vch Type	Vch No.	Bank Date	Debit	Credit
	Brought Forward				79,07,759.21	
30-Sep-23	Cr (as per details)	Journal	1210			8,643.60
	INPUT CGST - 9%		4,321.80	Cr		
	INPUT SGST - 9%		4,321.80	Cr		
	BEING INPUT CGST, SGST AND IGST AMOUNTS DEBITED TO EXPENSES A /C AND CREDITED RESPECTIVE GST ACS FOR THE MONTH OF SEPTEMBER, 2023.					
31-Oct-23	Cr (as per details)	Purchase	529		2,80,250.00	
	ANUCOOL ENGINEERS		3,30,695.00	Cr		
	INPUT CGST - 9%		25,222.50	Dr		
	INPUT SGST - 9%		25,222.50	Dr		
	BEING TAX INVOICE NO. 4079 DATED 31.10.2023 RECEIVED FROM ANUCOOL ENGINEERS FOR PUR OF LAB EQUIPMENT (HVAC LAB) RECORDED FOR PAYMENT. HSN CODE-9023					
	Cr (as per details)	Purchase	530		27,378.56	
	SHARAD AGENCIES		32,307.00	Cr		
	INPUT CGST - 9%		2,464.07	Dr		
	INPUT SGST - 9%		2,464.07	Dr		
	Rounded Off From Bills A/c		0.30	Dr		
	BEING TAX INVOICE NO. 832/23-24 DATED 31.10.2023 RECEIVED FROM SHARAD AGENCIES FOR PUR OF LAB EQUIPMENT (CHEMISTRY LAB) RECORDED FOR PAYMENT. HSN CODE-90278080					
	Cr (as per details)	Journal	1480		50,445.00	
	INPUT CGST - 9%		25,222.50	Cr		
	INPUT SGST - 9%		25,222.50	Cr		
	BEING INPUT CGST, SGST AND IGST AMOUNTS DEBITED TO EXPENSES A /C AND CREDITED RESPECTIVE GST ACS FOR THE MONTH OF OCTOBER, 2023.					
	Cr (as per details)	Journal	1461		4,928.14	
	INPUT CGST - 9%		2,464.07	Cr		
	INPUT SGST - 9%		2,464.07	Cr		
	BEING INPUT CGST, SGST AND IGST AMOUNTS DEBITED TO EXPENSES A /C AND CREDITED RESPECTIVE GST ACS FOR THE MONTH OF OCTOBER, 2023.					
23-Nov-23	Cr (as per details)	Purchase	587		80,750.00	
	SAP ENGINEERS AND CONSULTANTS		95,285.00	Cr		
	INPUT CGST - 9%		7,267.50	Dr		
	INPUT SGST - 9%		7,267.50	Dr		
	BEING INVOICE NO.019 DATED 23.11.2023 RECEIVED FROM SAP ENGINEERS AND CONSULTANTS FOR PUR OF LABORATORY EQUIPMENTS (MECH DEPARTMENT) RECORDED FOR PAYMENT. (HSN CODE 90230010)					

Carried Over

83,60,154.51

continued ...

Date	Particulars	Vch Type	Vch No.	Bank Date	Debit	Credit
	Brought Forward				83,60,154.51	
30-Nov-23	Cr (as per details)	Journal	1560			14,535.00
	INPUT CGST - 9%		7,267.50	Cr		
	INPUT SGST - 9%		7,267.50	Cr		
	<i>BEING INPUT CGST, SGST AND IGST AMOUNTS DEBITED TO EXPENSES A /C AND CREDITED RESPECTIVE GST A/CS FOR THE MONTH OF NOVEMBER, 2023.</i>					
15-Dec-23	Cr (as per details)	Purchase	632			57,000.00
	Advanced Control Equipments		67,260.00	Cr		
	INPUT CGST - 9%		5,130.00	Dr		
	INPUT SGST - 9%		5,130.00	Dr		
	<i>BEING BILL NO 32/23-24 DT. 02/11 /2023 RECEIVED FROM ADVANCED CONTROL EQUIPMENTS FOR PUR OF IOT BASED ONLINE TEMPERATURE CONTROL SYSTEM IN MECHX DEPT. RECORDED FOR PAYMENT</i>					
31-Dec-23	Cr (as per details)	Journal	1809			10,260.00
	INPUT CGST - 9%		5,130.00	Cr		
	INPUT SGST - 9%		5,130.00	Cr		
	<i>BEING INPUT CGST, SGST AND IGST AMOUNTS DEBITED TO EXPENSES A /C AND CREDITED RESPECTIVE GST A/CS FOR THE MONTH OF DECEMBER, 2023.</i>					
					84,41,949.51	
Dr	Closing Balance					84,41,949.51
					84,41,949.51	84,41,949.51

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

Ref. No.: MMIT/Mechx/ 2023-24 /

Date: 29/08/2023

Submitted:

Subject: Request Grant for purchasing IOT based online temperature control system in Department of Mechatronics Engineering.

Respected Sir,

With Reference to the above subject, we would like to inform you that, for the conduction of practical's, to fulfill academic requirements, we are proposing to purchase IOT based online temperature control system which enhances the Control Systems Laboratory in the Mechatronics Department .

The total amount required for this purchase will be Rs.70,000/- approximately.

So it is a request to you sir, please grant us Rs. 70,000/- for the purchase of above.
Thank you.



Department of Mechatronics Engineering



Principal,
MMIT, Lohgaon, Pune

To,
Hon. Executive President / Hon.Secretary,
Marathwada MitraMandal,
Pune-411 004



Quotation

Qtn No.: ACE/23-24/58R

Date: 25.09.2023

To,
The Principal,
Marathwada Mitramandals Institute of Technology,
Lohgaon, Pune-47

Sub: Quotation for Temperature Process Trainers – Reg

Kind Attn: Dr Mukesh Ghogare, Associate Professor. Department of Mechatronics Engineering.

Dear Sir,

With reference to our discussion today against your requirement for the above cited subject matter, we are pleased to submit herewith our Quotation for "Temperature Process Trainer", detail specification is described here with the offer.

Hope, you will find our offer suitable to your need and place us your valued order at the earliest possible.

Thanking you and assuring of our best services always.

For Advanced Control Equipments,



Suresh S Bhadake

TERMS & CONDITIONS

1. **PRICES:** Prices includes packaging, forwarding, freight and installation at site
2. **VALIDITY:** This offer is valid for **90 days** from the date of quote
3. **GST:** 18% Extra
4. **PAYMENT:** 70% along with Purchase Order and 30% after installation
5. **DELIVERY/COMPLETION SCHEDULE:** Within 30 days from the date of receipt of Purchase order and payment.
6. **WARRANTY:** 1 year
7. **CURRENCIES:** Indian Rupees
8. **GST NO:** 27ABNFA4128M1Z3
9. **PAN:** ABNFA4128M1
10. **ORDER TO BE PLACED:**
M/s. Advanced Control Equipments,
GAT No-2125, Near Hirgude Mala,
Ganesh Colony, Subash Nagar,
Malgaon, Miraj, Sangli (Dt) - 416 410
www.advancedcontrol.in, Email: contact@advancedcontrol.in
Phone no.: 9420452623, 95791 01839

PRICE QUOTATION

Sl. No.	Description	Optional Items	HSN No.	Rate (Rs.)	Qty	Amount (Rs.)
1	Temperature Process Trainer (ACE 104)	1	90230090	59,300.00	1	59,300.00
GST @ 18%						10,674.00
Total						69,974.00
Optional Items:						
1	Personal Computer: Dell / HP, Monitor 21.5", i5 10th H470 4GB 1TB + NVMe Slot 19.5" HD Win 11 + Ms-Office 2021 License McAfee 15 Months Antivirus, Dell Mobile Connect WIFI, BT, CR PCIe for Graphics USB 8 Ports (3.2-4 Ports) HDMI + VGA USB Combo 3 Years Warranty				1	66,000.00

For Advanced Control Equipments



Suresh S Bhadake

PRICE QUOTATION

Sl. No.	Description	Optional Items	HSN No.	Rate (Rs.)	Qty	Amount (Rs.)
1	Temperature Process Trainer (ACE 104)	1	90230090	59,300.00	1	59,300.00
GST @ 18%						10,674.00
Total						69,974.00
Optional Items:						
1	Personal Computer: Dell / HP, Monitor 21.5", i5 10th H470 4GB 1TB + NVMe Slot 19.5" HD Win 11 + Ms-Office 2021 License McAfee 15 Months Antivirus, Dell Mobile Connect WIFI, BT, CR PCIe for Graphics USB 8 Ports (3.2-4 Ports) HDMI + VGA USB Combo 3 Years Warranty				1	66,000.00

For Advanced Control Equipments



Suresh S Bhadake



Advanced Control Equipments

(Ahead Traditional Control)

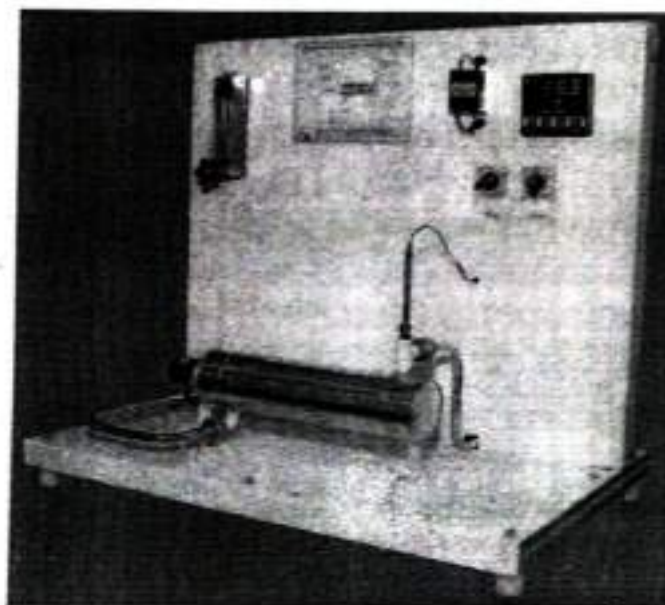
Temperature Process Trainer

ACE 104

Description

The Temperature Process Trainer is designed to understand the elements of a temperature process and its control. It consists of a process tank fitted with a heater to heat the water. The tank has inflow and outflow pipelines to allow continuous water supply. The inflow can be viewed and controlled by a rotameter. The temperature of the outflow is measured by a RTD temperature transmitter. The heater supply is controlled by a digital indicating controller / Wireless DAQ system by means of a solid-state relay (SSR). These units along with necessary piping are fitted on the support frame. The setup is designed for tabletop placement and access. The controller is connected to computer through USB for monitoring and controlling the process. User friendly software will be supplied along with the hardware to perform different set of experiments.

The software has built-in IoT features used to demonstrate the procedure of data exchange through internet and webserver. Using enriched features of the software, the process can be controlled through a mobile phone. Sample code and android app will be supplied along with the software.



Features

- Anodized aluminum frames
- Standalone structure
- Powder coated MS panel
- Modbus Communication
- IoT enabled
- Industrial standard components
- Durable CPVC piping
- Interface with LabVIEW / Matlab / Simulink
- Single click data log, export features

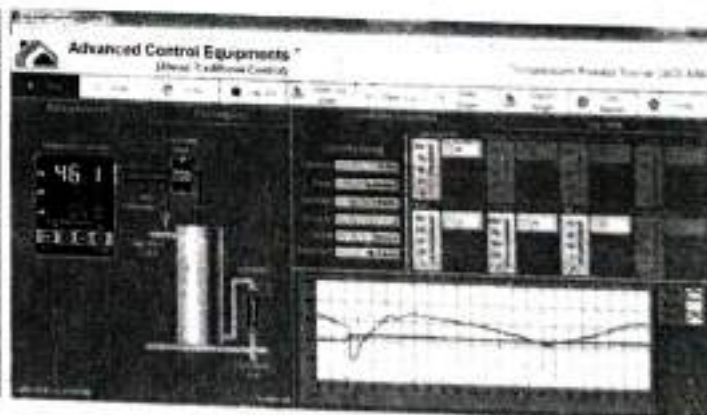
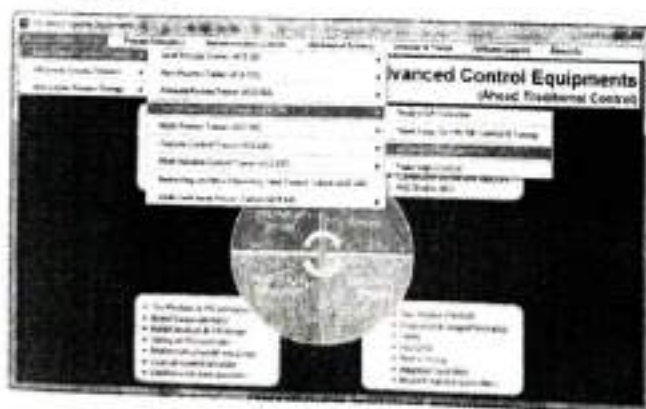
List of Experiments

- Temperature measurement and transmitter characteristics study
- Study of On/Off Control & Hysteresis
- Study of PI Mode
- Study of PID Mode
- ZN Open loop PID Tuning
- Auto Tuning
- Open Loop Analysis
- Study of P Mode & Bias
- Study of PD Mode
- Empirical Model Estimation
- ZN Closed loop PID Tuning
- Stability Analysis

Specifications

Product	Temperature Process Trainer
Product code	ACE 104
Type of control	SCADA / DDC
Control unit	<ol style="list-style-type: none"> 1. Digital indicating controller with USB communication, Make: Delta, Model: DTB9696 – 1 No. 2. Wireless Data Acquisition System: Model: ACE 2007, Make: ACE, Input: 4Ch, 4-20mA, Output: 2Ch, 4-20mA, Power supply 24VDC – 1 No.
Process tank	SS304, Capacity 0.5 lit, insulated
Temperature Transmitter	Make Cuadra, Model AX-187, Size 6x70 mm, Head mounted, Input RTD, Range 0-100 Deg C, Output 4-20mA
Heating control	Solid State Relay (SSR), Input 4-20 mA, Output 0-230 AC, Capacity 50 A.
Heater	Type: Electrical 2 coil, Capacity 3 KW
Rotameter	Make: Eureka, Model: MG11, Range: 10-100 LPH, Conn. 1/2", Bottom-Top, PTFE+Neoprene, Screwed
Panel	MS powder coated
Support Frame	Anodized Aluminum Extrusion Rail Frame

Screenshots





HEM ELECTRONIQUES

C-46, M.I.D.C. Industrial Area, MIRAJ-416410(MAHARASHTRA)
PH:+91-233-2644324,2645201(telefax)
Email:- san_hem@bni.com, hem_contact@yahoo.co.in

Designers and Manufacturers of Educational Electronic Equipments

ESQ/0898/AA

25-09-2023

TO,
The Principal,
Marathwada Mitramandals Institute of Technology,
Lohgaon, Pune-47.

QUOTE FOR TEMPERATURE PROCESS TRAINER - REG

Sl. No.	Description	Rate (Rs.)	Qty	Amount (Rs.)
1	Temperature Process Trainer with Delta PID Controller and Wireless DAQ Board	77,500.00	1	77,500.00

TERMS AND CONDITIONS:-

1. Prices are F.O.R. destination inclusive of packing and forwarding charges.
2. Delivery 6 to 8 weeks after confirmed PO.
3. Guarantee: 1 Year against manufacturing defects.
4. **Payment :- 100 % along with PO.**
5. Validity of quotation:- 90 days.
6. GST 18% EXTRA

Please find the attached product specification. Awaiting the pleasure of serving you and thanking you.

Yours faithfully

Ashwin Gadgil
For Hem Electroniques
9422323471, 967314688

TEMPERATURE PROCESS TRAINER

Description

The Temperature Process Trainer is designed to understand the elements of a temperature process and its control. It consists of a process tank fitted with a heater to heat the water. The tank has inflow and outflow pipelines to allow continuous water supply. The inflow can be viewed and controlled by a rotameter. The temperature of the outflow is measured by a RTD temperature transmitter. The heater supply is controlled by a digital indicating controller / Wireless DAQ system by means of a solid-state relay (SSR). These units along with necessary piping are fitted on the support frame. The setup is designed for tabletop placement and access. The controller is connected to computer through USB for monitoring and controlling the process. User friendly software will be supplied along with the hardware to perform different set of experiments.

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Features

- Anodized aluminum frames
- Standalone structure
- Powder coated MS panel
- Modbus Communication
- IoT enabled
- Industrial standard components
- Durable CPVC piping
- Interface with LabVIEW / Matlab / Simulink
- Single click data log, export features

List of Experiments

- Temperature measurement and transmitter characteristics study
- Study of On/Off Control & Hysteresis
- Study of PI Mode
- Study of PID Mode
- ZN Open loop PID Tuning
- Auto Tuning
- Open Loop Analysis
- Study of P Mode & Bias
- Study of PD Mode
- Empirical Model Estimation
- ZN Closed loop PID Tuning
- Stability Analysis

Specifications

Product	Temperature Process Trainer
Product code	ACE 104
Type of control	SCADA / DDC
Control unit	<ol style="list-style-type: none">1. Digital indicating controller with USB communication, Make: Delta, Model: DTB9696 – 1 No.2. Wireless Data Acquisition System: Model: ACE 2007, Make: ACE, Input: 4Ch, 4-20mA, Output: 2Ch, 4-20mA, Power supply 24VDC – 1 No.

Process tank	SS304, Capacity 0.5 lit, insulated
Temperature Transmitter	Make Cuadra, Model AX-187, Size 6x70 mm, Head mounted, Input RTD, Range 0-100 Deg C, Output 4-20mA
Heating control	Solid State Relay (SSR), Input 4-20 mA, Output 0-230 AC, Capacity 50 A.
Heater	Type: Electrical 2 coil, Capacity 3 KW
Rotameter	Make: Eureka, Model: MG11, Range: 10-100 LPH, Conn.1/2", Bottom-Top, PTFE+Neoprene, Screwed
Panel	MS powder coated
Support Frame	Anodized Aluminum Extrusion Rail Frame



Apex Service & Instruments

No: 17/1 Ettiamman Nagar Main Road, Ettiamman Nagar, Thirumulla Voyal
Chennai - 600062, Phone 044 - 79622751 Mobile: 9940533076, 7904028412
E-mail: velan@apexinstruments.co.in, apex.serviceminstruments@yahoo.in
velan.natesan@gmail.com

Ref: ASI/2023-24/18
Date: 25th September 2023

GSTIN : 33AVBPV1367M1Z8
PAN : AVBPV1367M

To
The Principal,
Marathwada Mitramandals Institute of Technology,
Lohgaon, Pune-47.

Kind Attn: Dr Mukesh Ghogare, Department of Mechatronics Engineering.

Quotation

Sub: Quotation for Temperature Process Trainer - Reg

We are pleased to provide the price quote for the following items as per terms mentioned below:

Sl. No.	Description	Rate (Rs.)	Qty	Amount (Rs.)
1	Temperature Process Trainer	68,500.00	1	68,500.00

Terms and Conditions:

Price Basic : The prices quoted inclusive of Packing, Freight, Insurance and Installation
GST : 18% Extra
Payment : 100% along with PO
Delivery : 4-6 weeks
Warranty : NA
Validity : 30 days

Thanking You,
Yours Truly,

Apex Service and Instruments
Sr Executive



Apex Service & Instruments

No:17/1 Ettimman Nagar Main Road, Ettimman Nagar, Thirumullai Voyal
Chennai - 600062, Phone:044 - 79622751 Mobile: 9940533076, 7904028412
E-mail: velan@apexinstruments.co.in apexserviceinstruments@yahoo.in
velan.natesan@gmail.com

Description

The Temperature Process Trainer is designed to understand the elements of a temperature process and its control. It consists of a process tank fitted with a heater to heat the water. The tank has inflow and outflow pipelines to allow continuous water supply. The inflow can be viewed and controlled by a rotameter. The temperature of the outflow is measured by a RTD temperature transmitter. The heater supply is controlled by a digital indicating controller / Wireless DAQ system by means of a solid-state relay (SSR). These units along with necessary piping are fitted on the support frame. The setup is designed for tabletop placement and access. The controller is connected to computer through USB for monitoring and controlling the process. User friendly software will be supplied along with the hardware to perform different set of experiments.

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-

List of Experiments

- Temperature measurement and transmitter characteristics study
- Study of On/Off Control & Hysteresis
- Study of PI Mode
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- ZN Open loop PID Tuning
- Auto Tuning
- Open Loop Analysis
- Study of P Mode & Bias
- Study of PD Mode
- Empirical Model Estimation
- ZN Closed loop PID Tuning
- Stability Analysis

Specifications

Product	Temperature Process Trainer
Type of control	SCADA / DDC
Control unit	1. Digital indicating controller with USB communication, Make: Delta, Model: DTB9696 - I No. 2. Wireless Data Acquisition System: Model: ACE 2007, Make:



Apex Service & Instruments

No. 17/1 Ettiamman Nagar Main Road, Ettiamman Nagar, Thirumullai Voyal
Chennai - 600062, Phone: 044 - 79622751 Mobile: 9940533076, 7904028412
E-mail: velan@apexinstruments.co.in, apex.serviceinstruments@yahoo.in
velan_ratesan@gmail.com

	ACE, Input: 4Ch, 4-20mA, Output: 2Ch, 4-20mA, Power supply 24VDC - 1 No.
Process tank	SS304, Capacity 0.5 lit, insulated
Temperature Transmitter	Make Cuadra, Model AX-187, Size 6x70 mm, Head mounted, Input RTD, Range 0-100 Deg C, Output 4-20mA
Heating control	Solid State Relay (SSR), Input 4-20 mA, Output 0-230 AC, Capacity 50 A.
Heater	Type: Electrical 2 coil, Capacity 3 KW
Rotameter	Make: Eureka, Model: MG11, Range: 10-100 LPH, Conn. 1/2", Bottom-Top, PTFE+Neoprene, Screwed
Panel	MS powder coated
Support Frame	Anodized Aluminum Extrusion Rail Frame

Marathwada Mitramandal's Institute of Technology, Lohgaon, Pune 411 047
Department of Mechatronics Engineering

Comparative Statement for IOT based Temperature Control System for Control Systems Lab

Supplier		Apex Service and Instruments			Advanced Control Equipments			HEM Electronics		
Contact Person		Mr. Suresh Bhadake			Mr. Ashwin Gadgil			Mr. Ashwin Gadgil		
Mobile No.		9940533046			9420452623			9422323471		
GST No.		33AVBPV1367M1Z8			27ABNFA4128M1Z3					
Sr. No	Description	Qty	Rate/ Unit	Amount	Rate/ Unit	Amount	Rate/ Unit	Amount	Rate/ Unit	Amount
1	IOT based Online Temperature Control Trainer	1	68500.00	68500.00	59300.00	59300.00	77500.00	77500.00		
Sub Total			68500.00	68500.00	59300.00	59300.00	77500.00	77500.00		
Freight/Transportation										
GST (In 18% and Rs.)			18%	12330.00	18%	10674.00	18%	13950.00		
Grand Total (Rs.)				80830.00		69974.00		91450.00		
Taxes, Terms & Conditions				Payment after delivery		Payment after delivery		Payment after delivery		
Warranty				1 Year		1 Year		1 Year		
Delivery Period				Within 8 days after receiving PO		Within 8 days after receiving PO		Within 5 days after receiving PO		
Total Amount After First Negotiation			Nil	Nil		Nil		85000.00		
Total Amount After Second Negotiation										

Note : The negotiations done on 29/09/2023, considering the quality and lowest prize of the system, the order to be given









J. S. Jod Purchase Committee Principal Purchase Officer Secretary
 Mechatronics Dep MMIT, Lohgaon MMIT, Lohgaon MMIT Mandal MMIT Mandal
 Executive President of MM Mandal

To,
Hon. Exe. President/Secretary
 Marathwada Mitra Mandal
 Beccan Gymkhana, Pune - 411 004



MARATHWADA MITRA MANDAL, PUNE

202/A, Deccan Gymkhana, Pune - 411004

Registration Under Societies Registration Act 1860-Meh./523 Dated 06/01/1967

Registration Under Bombay Public Trust Act 1950-F-338(P) Dated 19/01/1967

Tel. : 020-25685320, 8149032328 | Telefax : 020 -25653039

E-mail : mmmandal67@gmail.com

Shivajirao D. Ganage, President
Bhauasaheb G. Jadhav, Exe. President
Kishor H. Mungale, Secretary

PURCHASE ORDER

Purchase Order Number: MMM/MMT/PO/2023.24/1203

Name: **M/S Advanced Control Equipments**

Address: GAT No: 2125, Near Hingude Mala, Ganesh Colony
Subhash Nagar, Malgon, Miraj, Sangali- 416 410
Maharashtra, India

Contact Person: Mr. Suresh Bhadake GST No: 27ABNFA4128M1Z3

Fax No.: - Mob. No.: 9420452623, 9579101839

P.O. Date	20/10/2023
Quotation No.	ACE/23-24/58R
Quotation Dt.	25/09/2023
Office Note / PRN No.	
Office Note /PRN Date	
C.S.Q. Ddate	

Dear Sir,

With reference to your quotation received No.ACE/23-24/58R dated 25/09/2023 mentioned above, we are pleased to place an order with you for the following items/ service, subject to the terms and conditions specified below & / or enclosed herewith. We request to return a duplicate copy, duly signed, as a token of acceptance.

Sr. No.	Material Code & Description	Qty.	Unit / Pack	Unit Rate	Amount Rs.
1	IOT based Temperature Process Trainer- Online Temperature Control	1	1	59,300	59,300

Payment Terms: Against Delivery

Total Amount:	59,300
Less Discount	2,300
Discounted Price:	57,000
Transportation	N/A
P/F:	N/A
Excise Duty:	N/A
GST:	18.0% 10,260
Insurance:	N/A
Add/Less R/O.:	-
Net Amount R.	67,260

Delivery Address: **Marathwada Mitramandal's Institute of Technology, Lohgaon, Pune-411047**

Our Contact Person: Mr. Naresh Dhamane, 9860028501

MMM GST No: 27AAATM9698N1Z1

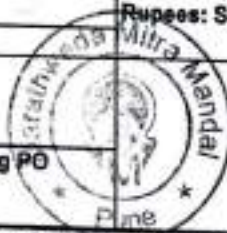
Special Instruction:

1. Bill to be raised in the name of: "The Principal, Marathwada Mitramandal's Institute of Technology, Lohgaon, Pune - 47"
2. Please mention P.O. No. & Date on Bill and Delivery Challan Along with your GST Numbers.

Rupees: Sixty Seven Thousand Two Hundred Sixty Only

Transport : Not Applicable

Delivery Commitment: Within 08 days after receiving PO



Marathwada Mitra Mandal

Authorized Signature

(Supplier /Office Copy/ Account Copy/ Store Copy/Master Copy) Please quote the above Purchase Order number in all the correspondence.

TAX INVOICE

Advanced Control Equipments

GAT No-2125, Near Hirgude Mala, Ganesh Colony,
Subash Nagar, Malgaon, Miraj, Sangli (Dt) - 416 410.
Phone No. : 9420452623, 95791 01839
Email : contact@advancedcontrol.in
Website : www.advancedcontrol.in
State : 27-Maharashtra
GSTIN: 27ABNFA4128M1Z3, PAN: ABNFA4128M



Invoice No. : 32/23-24
Date of Invoice : 02-11-2023
PO Reference : MMM/MMIT/Pur/2023-24/1223
PO Date : 20-10-2023

Place of Supply : Maharashtra (27)
Mode of Transport : VRL Transport
LR No. : ---
No of Packing : 1

Billed To:

The Principal,
Marathwada Mitramandal's Institute of Technology,
Lohgaon,
Pune - 411 047.

Contact Person : ---
Contact Number : ---
Email Id : ---
GST No. : 27AAATM9698N1Z1

Shipped To:

Mr. Naresh Dhamane
Marathwada Mitramandals Institute of Technology,
Lohgaon, Pune - 411047

Contact Person : Mr. Naresh Dhamane,
Contact Number : 98600 28501
Email Id : ---
GST No. : 27AAATM9698N1Z1

S. No.	Item Description	HSN Code	Qty.	Price (Rs.)	Amount (Rs.)	
1	IoT based Temperature Process Trainer - Online Temperature Control (ACE 104)	90230090	1	57,000.00	57,000.00	
				<i>Add : GST</i>	10,260.00	
					Grand Total (Rs.)	67,260.00

Tax Rate	Taxable Amt.	GST Amt.	Total Tax
18%	57,000.00	10,260.00	10,260.00

Rupees Sixty Seven Thousand Two Hundred Sixty Only

[/we declare that this invoice shows the actual price of the goods described and all particulars are true and correct.

Pay To:

Bank Name: HDFC Bank Account
Account No.: 50200035506366
IFSC code: HDFC0009321
Address: Peth Bhag, Sangli

For Advanced Control Equipments



MMIT, Lohgaon, Pune - 47
Material Inward No - 501
Date 10-11-2023
Sign. *Deokar*



Subject to Hubbell's Jurisdiction

VRL LOGISTICS LTD

DRIVER'S/ACK. COPY

REGISTERED OFFICE : MH4 BENGALURU ROAD VARUR HUBBALLI - 581 207 (KARNATAKA) © 0838 - 2227407 / 800 e-mail : vrl@vrllogistics.com

Customer Care - HUBBALLI © 0838-2307800 e-mail : customercare@vrllogistics.com Website: www.vrllogistics.com | **HBV-460**

TRANSPORTER ID : 29AABCY3609C1ZJ | PAN No. : AABCY3609C | CIN : L60210KA1933PLC005247 | FSS LC. No. : 10013643000644

FROM : KUPWAD [KPD] - 96139-31125 - GSTIN : 27AABCY3609C1ZJN

DEST : PUNE WAGHOLI [MH-PUWGL] - 8372284012

Consignor : ADVANCED CONTROL EQUIPMENTS | GSTIN-27ABNFA4129M1Z3 ***

Consignee : MARATHAWADA MITRAMANDALS INSTI | GSTIN-NO GSTNO ***

| TAX INVOICE-GST IS PAYABLE BY CONSIGNOR-RCM PanNo: ABNFA4128M

Description (said to contain) LrNo : 901869807

WC MACHINARY PARTS

ODA Area : ODA-LOHOGAON S.O CGST (2.5%) 39.50 SGST (2.5%)

39.50

InvNo : 32723-24

PAID - DOOR		D Value Rs.		Nos	
Door delivery charges	800	67260	1	1	G S T
Wp/Sms/Ack Oth charges	5				
Stationary charges	10				
Freight	706				
Hamal/Handing charges	60				
Ch Weight	150				
Rate					

Service Category: Transport of Goods By Road SAC NO: 996511 Place of supply: MH

DOOR DELIVERY - ETD - 04-11-24 - EMBY - 53576

Total: 1560

BOOKED AT OWNER'S RISK



901869807

Date: 04-11-2023

CODE GC 1001

Committee and Meeting Management

Committees 73	Assigned Committees 1	Meetings 1 - This Month 0 - Today 0 - Tomorrow
--------------------------------------	--	---

Committee

Functional Head Student Progression	6 Members
Member GRANT Committee_A Y 2023-24	5 Members
Purchase, DSR and Stock Verification, Furniture Functional Heads (DEAN ADMINISTRATION)	20 Members
Faculty member Department of Mechanical Engineering	16 Members

Meeting

01 Mar 24 Fri	2:30 pm - 3:30 pm 2:30 pm,60 Minutes	Regular weekly meeting Department of Mechanical Engineering	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> May Be <input type="checkbox"/> No
27 Feb 24 Tue	3:00 pm - 3:25 pm 3:00 pm,25 Minutes	Minority cell meeting 3 Minority Call	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> May Be <input type="checkbox"/> No
21 Feb 24 Wed	10:30 am - 11:30 am 10:30 am,60 Minutes	DSR Updation and Verification Purchase(DSR/ Furniture	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> May Be <input type="checkbox"/> No
09 Feb 24 Fri	2:30 pm - 4:00 pm 2:30 pm,90 Minutes	Regular meet Department of Mechanical Engineering	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> May Be <input type="checkbox"/> No
02 Feb 24 Fri	2:30 pm - 4:00 pm 2:30 pm,90 Minutes	Regular weekly meeting Department of Mechanical Engineering	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> May Be <input type="checkbox"/> No



MARATHWADA MITRA MANDAL, PUNE

202/A, Deccan Gymkhana, Pune - 411004

Registration Under Societies Registration Act 1860-Mah /523 Dated 06/01/1967

Registration Under Bombay Public Trust Act 1950-F-338(P) Dated 19/01/1967

Tel : 020-25665320, 8149032328 | Telefax : 020 -25653039

E-mail : mmandal67@gmail.com

Shivajirao D. Ganage, President

Bhausahab G. Jadhav, Exe President

Kishor H. Mungale, Secretary

'ॐ नमो भगवते वासुदेवाय'

MMM/MMIT/APNT/2023-24/587

Date 31.05.2023

To,
Dr. Mutalikdesai Sachin Vyasrao
Flat No A/14, Ekvishwa Complex, Satavwadi,
Hadapsar, Pune-411028

Subject:- Appointment for the post of Assistant Professor in Mechanical Engineering Department at Marathwada Mitra Mandal's Institute of Technology, Lohgaon, Pune - 411 047.

In response to your application to our advertisement in daily Sakal, Loksatta and Indian Express dated 20/04/2023 and the subsequent interview conducted by Local Selection Committee, we are pleased to appoint you on the post of **Assistant Professor in Mechanical Engineering Department** in Marathwada Mitra Mandal's Institute of Technology, Lohgaon, Pune 411 047 on purely fixed term basis and importantly on the following clear-cut background and terms and conditions.

BACKGROUND IN BRIEF OF YOUR APPOINTMENT

1. It is to be noted that the Marathwada Mitra Mandal's Institute of Technology (MMIT), is located at Lohgaon, Pune is totally non-grantable in nature and as such, it has to sustain on its own resources.
2. While making any recruitment of teaching faculty category, College is under legal compulsion to follow the roster sanctioned by the Savitribai Phule Pune University / Assistant Commissioner B. C. Cell and accordingly, it has to recruit the appropriate candidate of appropriate category that too as approved by the University Selection Committee.
3. However, no candidate on the above said post, which is reserved for Open / reserved category, has been selected for MMIT till date by the University Selection Committee
4. Due to the aforesaid situation, if the recruitment is not made by the MMIT on the above said post against the post of Associate Professor / Professor, which is reserved for Open / reserved category, not only the college but even the students will also suffer huge irreparable loss and prejudice.
5. Hence, to avoid any such unwarranted situation / loss / prejudice, College is compelled to make your present appointment on tenure basis i.e. for the academic year 2023-24 and more specifically for the period starting from **01/06/2023 or date of your joining to 30/05/2024** or appointment of suitable candidate by University Selection Committee on this prescribed post / category.
6. If, prior to the tenure mentioned in this Appointment Order, you have worked for the MMIT, your such employment being on the aforesaid background, cannot be treated as a permanent employment and / or you are not entitled to claim any benefit, including the benefit of permanency, out of the same. In short, this order shall supersede all other previous appointment orders, if any, issued to you by the Trust and / or by the College.

OTHER TERMS AND CONDITIONS OF YOUR EMPLOYMENT SHALL BE AS FOLLOWS.

1. You will be paid gross salary of **Rs. 82,307/- (Rs. Eighty-Two Thousand Three Hundred Seven Only)** in the **Vth pay scale of Rs.15600-39100, Pay in Pay band 23950 + AGP of Rs. 6000/-**. You will also get the benefit of the Employees Provident Fund and Miscellaneous provisions Act 1952. Besides this you will not be entitled to any other monetary or otherwise benefits, which are available to other employee(s) / staff of the



College / Trust or would be made available to them in future. The payment of your salary shall be subject to deduction of Income Tax payable in regard with the IT schedule and all other statutory deductions.

2. As mentioned in the background clause herein above, your Appointment on the aforesaid post is made for a fixed Term starting from **01/06/2023 or date of your joining to 30/05/2024**. Thereafter, the same shall stand automatically concluded. In that case, you shall not be entitled to any notice or notice pay in lieu thereof from the College / Trust. Due to this, you shall not be entitled to claim permanency / permanency benefit for yourself from the College / Trust.
3. You are appointed as an Assistant Professor against the vacancy of Professor / Associate Professor in the category of Open / reserved approved by the Savitribai Phule Pune University, in Marathwada Mitra Mandal's Institute of Technology, Lohgaon Pune- 411 047 (MMIT) on full time basis.
4. During the tenure of this appointment, your employment will be governed as per the rules and regulations laid down by the College from time to time.
5. Your appointment is subject to the minimum number of students and the workload prescribed for your aforesaid post also subject to Court case if any. In such case, your appointment will be terminated with immediate effect.
6. Except made admissible expressly in writing, you will not be entitled to get any benefit, which is presently made available and / or will made available in future, to the other permanently employed / similarly place teaching and / or non-teaching employees of the College.
7. You shall produce all the original copies and submit certificate true copies of the relevant testimonials such as School Leaving Certificate, Marksheets, Degree Certificates, Experience Certificate (if any), Discharge / Relieving Certificate (if applicable), Last pay certificate (if any), Cast and Validity Certificate (if applicable), Non-creamy layer Certificate (if applicable), Change of Name Certificate (if applicable), Two passport size photograph, Copy of PAN Card, Copy of Bank Pass-book etc, at the time of joining to your duties to College / Institute. So also you will have to submit your fitness certificate from the registered medical practitioner within one month from the date of your joining failing which the College shall be free to make adverse inference against you in this regard.
8. The Appointment and continuation of your employment in the College shall be subject to you being physically and mentally fit. As and when required, you shall undergo specific and / or general Medical Examination from the Registered Medical Practitioner, specified by the College in this regard.
9. After joining, you should shift near to the Institute. In case of change in your residential address, during the course of your employment in the College, it will be your duty to intimate the new address in writing, to the Principal within fortnight from such change and shall also ensure to get the said change so recorded in the Personal file.
10. You will have to remain present for all working days as per College timing and work wholeheartedly for the development of the College as per the instructions given to you by any higher Authorities. Due to exigencies of work, you may be required to remain present on any holiday(s), Sunday(s) and even during the period of vacation.
11. You will not accept any contribution and will not associate yourself with any fund raising or collection whether in cash or in any kind, in pursuance or any subject whatsoever, or accept or demand any subscription





MARATHWADA MITRA MANDAL, PUNE

202/A, Dnyanesh Chyavanada, Pune - 411004

Registration Under Societies Registration Act 1860 (Mah. 2023) Filed 06/01/1987

Registration Under Bombay Public Trust Act 1909 (Mah. 1987) Filed 19/11/1987

Tel: 020 2566130, 6146613-138 | Telefax: 020 25661319

E-mail: marmandal07@gmail.com

Shrikrishna D. Saranga, President

Manojkumar G. Jadhav, Exe. President

Rishabh H. Manjale, Secretary

contribution, from anyone connected or interested with the College / Institute either as parents, students or guardians

12. You will neither prepare any book or books or paper including guest papers for the purpose of publications without a prior permission written permission of the Principal of the College nor you will assist anybody either directly or indirectly in the publications of any such books / works, etc.
13. Similarly, you will not canvas for any publication or any publishing house of book seller unless so permitted by the Principal.
14. You will not enter into any monetary transaction with any student or his parents or guardians or otherwise and shall not misuse your positions in whatsoever capacity for personal gains in any manner.
15. You will not practice or incite any student, other employees of the college to practice caste communalism or untouchability or cause and / or incite to be caused any other person to damage the property of the College or encourage or incite any student, teacher or any member of the staff to behave in a disorderly manner in the premises of the College.
16. You will not accept or permit any member of your family or any other person or representative to accept any gift including free transport, lodging or any other service or any pecuniary advantage / benefit from any student, parent / guardian or any such student or other person with whom you may come into contact by virtue of your employment in the college.
17. You will not conduct or engage yourself in any private Tuition or in Private Coaching classes. If found guilty of this clause, your employment shall be liable to termination forthwith that too without any notice or any pay in lieu thereof.
18. For administrative purpose, your service shall be liable to be transferred from any department or branches and / or from one College to another, being run by Marathwada Mitra Mandal, Pune purely at the sole discretion of Management of College.
19. During the tenure of your present employment, if you choose to resign for whatsoever reason, you will be under legal obligation to give one month's notice in writing to the College or will have to pay one month's salary in lieu thereof. However, it will be the discretion of the College to accept one month's salary as stated herein above and relieve you from the employment or require you to undergo one month's notice period. However, in case of termination of your employment for the appropriate grounds the College will either give you one month's clear notice in writing or will pay you one month' salary in lieu thereof.
20. In case of an illegal and unauthorized absence on the duty for the period of seven or more consecutive days or if you overstay the sanctioned leave, the college shall draw a presumption within its sole discretion that you have no interest to further perform your duties and as such have abandoned the employment on your own accord. Thereafter, your services shall stand automatically concluded. In that case, you shall be liable to pay on month salary to the College in lieu of notice as per Clause No.19 herein above.
21. You will be whole time employee of the College and shall not without the permission of the Management engage yourself in any work profession or employment either honorary or otherwise during the stipulated period of your employment in the College.
22. You will not undertake any testing, consultancy, R&D work without the prior approval of the Management/competent authority.



23. You will not register for any Ph.D./NET/SET/Degree/Diploma/Certificate or other course without the prior permission of the Management/competent authority.
24. You will adhere all the rules and regulations either existing or amended or extended from time to time by the College and shall carry out all the lawful orders / instructions given to you by the College in connection with the day to day discharge of your duties.
25. During the tenure of your appointment under this order, if an appropriate and approved candidate of the said post reserved for **Open / OBC / SC / ST / VJ(A) / NT(B) / NT(C) / NT(D) / PH / Ladies Candidate** Category will be made available by the University Selection Committee; your current appointment will automatically come to an end on joining of such candidate. In that case, no notice or notice pay as contemplated under Clause No. 19 herein above shall be payable to you.
26. It is to be noted that you will be free to appear for interview before the University Selection Committee, if you so desire.

In case, the above terms and condition of your employment are acceptable to you in totally, please return the Copy of this Order after endorsing your signatures on the same in token of your acceptance, and to make commitments to represent yourself for the duty immediately or within 3 days from the receipts thereof.




Executive President
Marathwada Mitra Mandal, Pune

DECLARATION

I, the undersigned **Dr.Mutalikdesai Sachin Vyasrao** have read and understood the background of my appointment and all the terms and conditions, I accept the Appointment with all its terms and conditions mentioned herein above in totally after assimilating them in their proper perspective and undertake to abide to the same.


Place : Pune

Signature : Desai

Date : _____

Name : Mutalikdesai sachin v.

Witness:

Signature: 

Name: Sachin V. Desai

Copy forwarded for information to:

1. The Principal
Marathwada Mitra Mandal's
Institute of Technology, Lohgaon
Pune - 411 047.
2. Service file of **Dr. Mutalikdesai Sachin Vyasrao**

"Techno-Social Excellence"

Marathwada Mitramandal's Institute of Technology

Lohgaon, Pune- 411 047

Accredited with "A" Grade by NAAC

Date: 02/01/2024

NOTICE

Functional Committee –Industry Institute Interaction (I-I-I)

Dean - Research & Industry Relations

Academic Year 2023-24 (Sem-II)

All the members of Industry Institute Interaction (I-I-I) committee are hereby informed to attend the meeting on 03/01/2024 at 02.30 p.m. in the Incubation Centre.


Industry Institute Interaction (I-I-I) Committee Members:

Sr. No.	Name of Committee Member	Designation
1	Mr. S. A. Agrawal	Functional Head
2	Dr. B. D. Patil	Member (Dept. Coordinator)
3	Mr. S. S. Chaudhari	Member (Dept. Coordinator)
4	Mrs. P. D. Shinde	Member (Dept. Coordinator)
5	Mr. S. V. Golande	Member (Dept. Coordinator)
6	Mr. A. G. Darekar	Member (Dept. Coordinator)

Agenda of the meeting is as follows:

- Collection of reports of from June to December 2023
- Review of collected reports
- Planning of second semester


Prof. S. A. Agrawal
Functional Head


Prof. A. S. Bhanage
Dean, R&IR

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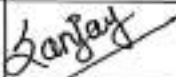


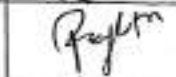
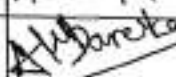
Marathwada Mitramandal's Institute of Technology
Lohgaon, Pune- 411 047
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Date: 03/01/2024

Minutes of Meeting
Functional Committee - Industry Institute Interaction (I-I-I)
Dean - Research & Industry Relations
Academic Year 2023-24 (Sem-II)

All the members of Industry Institute Interaction (I-I-I) committee are hereby informed to take note of the minutes of meeting held on 03/01/2024 at 02.30 p.m. in the Incubation Centre. All are requested to go through it and follow the same.

The following members were present for meeting:

Industry Institute Interaction (I-I-I) Committee				
Sr. No.	Name of Committee Member	Designation	Department	Sign
1	Mr. S. A. Agrawal	Functional Head	Computer Engg.	
2	Dr. B. D. Patil	Member (Dept. Coordinator)	Mechanical	
3	Mr. S. S. Chaudhari	Member (Dept. Coordinator)	Computer & AI&DS	
4	Mrs. P. D. Shinde	Member (Dept. Coordinator)	Civil	
5	Mr. S. V. Golande	Member (Dept. Coordinator)	Mechatronics	ABSENT
6	Mr. A. G. Darekar	Member (Dept. Coordinator)	Engineering Science	

The following points were discussed and finalized in meeting:

Agenda of the meeting is as follows:

- Collection of reports of from June to December 2023
- Review of collected reports
- Planning of second semester

Points discussed:

- It is decided that the department coordinator submit the count of faculties who had interacted with industries during June to December 2023 on or before 04/01/2023.

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Lohgaon, Pune- 411 047

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- b) Department coordinators are informed to take a review of proposed action mentioned in submitted reports.
- c) As per suggestion given by Dean R & IR, III Committee members along with Dean R & IR will conduct the meeting with all department teaching staff for discussion of III policy and how to improve industry liasoning.

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Lohgaon, Pune- 411 047

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Functional Committee – Industry Institute Interaction (I-I-I)

Dean - Research & Industry Relations

Date: 11/01/2024

COMPLIANCE/ACTION TAKEN REPORT

Sr. No.	Activity Planned/Discussed Point	Action Taken
1.	Report Collection	Reports are collected through shared Google Form and received the count as per following Mechanical: 06 Mechatronics:00 Computer and AI & DS: 04 Civil:03 Engg. Science: 03
2.	Meeting with all teaching staff	Meeting was conducted on 11/01/2024 to improve industry liasoning. Following points were discussed: <ul style="list-style-type: none">• Each teaching staff should connect to at least 5 industry for liasoning purpose.• Faculty should focused on outcome based activity• Report will be submitted after every visit.• Faculty should convert the proposed activity into actual outcome• Faculty will get full on duty leave for the same

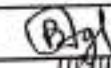

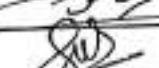
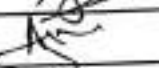
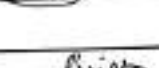
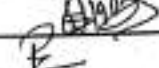
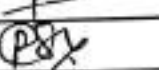
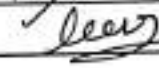
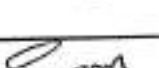
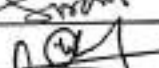


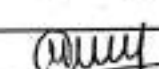
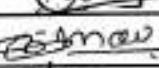
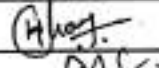
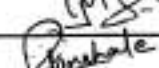
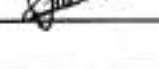
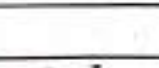

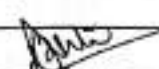
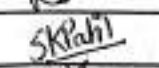

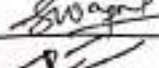
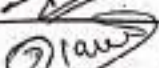
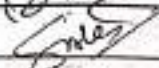


Prof. S. A. Agrawal
Functional Head

Marathwada Mitra Mandal's Institute of Technology, Lohgaon

Industry Institute Interaction Session

Attendance Sheet

Date: 11/01/2024

Sr.No.	Name	Designation	Department	Signature
1	Dr. Bhortake Rupesh Vasudeo	Principal	Admin	
2	Ms. Agrawal Rucha Abhishek	Asstt Prof	AIDS	
3	Mr. Bhise Ashish Kishor	Asstt Prof	AIDS	
4	Mr. Shaikh Nisar Salim	Asstt Prof	AIDS	
5	Mr. Swapnil Machindra Gagare	Asstt Prof	AIDS	
6	Dr. Khatri Atul Prakashchandra	Asso Prof	Civil	
7	Ms. Kokate Punam Bhimrao	Asstt Prof	Civil	
8	Mr. Sawant Vaibhav Dinkar	Asstt Prof	Civil	
9	Ms. Shinde Prajka Dhananjay	Asstt Prof	Civil	
10	Ms. Fegade Reshma Shantaram	Asstt Prof	Civil	
11	Mrs. Deshmukh Leena Abhijit	Asstt Prof	Civil	
12	Ms. Bhise Manisha Devidas	Asstt Prof	Civil	
13	Mr. Narendra Ramesh Kalbhor	Asstt Prof	Civil	
14	Mr. Mayur R. Gandhile	Asstt Prof	Civil	
15	Dr. Jyoti Yogesh Deshmukh	Asso Prof	Comp	
16	Mr. Agrawal Sanjay Anil	Asstt Prof	Comp	
17	Ms. Uma Bhimashankar Karanje	Asstt Prof	Comp	
18	Ms. Jagtap Mrunal Sanjay	Asstt Prof	Comp	
19	Mr. Suhas Ramdas Kothavale	Asstt Prof	Comp	
20	Mr. Chavan Vikas Vishwanath	Asstt Prof	Comp	
21	Dr. Mangesh Dilip Salunke	Asso Prof	Comp	
22	Ms. Mahale Rohini Dhananjay	Asstt Prof	Comp	
23	Mr. Dongare Yogesh Bhagwat	Asstt Prof	Comp	
24	Mrs. Deshmukh Pranjali Vilasrao	Asstt Prof	Comp	
25	Mr. Rewaskar Vaibhav Dilip	Asstt Prof	Comp	
26	Dr. Rathod Subhash Gulabrao	Asso Prof	Comp	
27	Mr. Satre Dinesh Baburao	Asstt Prof	Comp	
28	Mrs. Patil Shwetal Kishor	Asstt Prof	Comp	
29	Mrs. Bonde Devyani Jitendra	Asstt Prof	Comp	
30	Mr. Chaudhari Swapnil Santosh	Asstt Prof	Comp	
31	Ms. Bhoje Tejaswini Sunil	Asstt Prof	Comp	
32	Dr. Yogendra Vana Patil	Asstt Prof	Comp	
33	Mrs. Shalaka Armeya Kshirsagar	Asstt Prof	Comp	

Sr.No.	Name	Designation	Department	Signature
34	Mr. Khambre Pankaj Dilipsingh	Asstt Prof	Comp	
35	Dr. Megha Vishal Kadam	Asso Prof	Comp	
36	Ms. Yamini Pitambar Warke	Asstt Prof	Comp	
37	Mrs. Nadkarni Vidya Mangesh	Asstt Prof	Engg Sci	
38	Mr. Sharma Mukesh Mamraj	Asstt Prof	Engg Sci	
39	Mr. Darekar Anil Gorakh	Asstt Prof	Engg Sci	
40	Dr. Pratibha Sachin Desai	Asstt Prof	Engg Sci	
41	Mr. Harshal Dattatray Vaidya	Asstt Prof	Engg Sci	
42	Dr Moharil Umesh Pradip	Asso Prof	Engg Sci	
43	Dr. Pal Amita Gokulchand	Asstt Prof	Engg Sci	
44	Dr. Yashwante Meghna Ranjit	Asso Prof	Engg Sci	
45	Mr. Vishal Sanjay Shinde	Asstt Prof	Engg Sci	
46	Dr. Praful Kumar Ganti	Asstt Prof	Engg Sci	
47	Mr. Yogesh Govindrao Diggikar	Asstt Prof	Engg Sci	
48	Mrs. Manjula A. Alloli	Asstt Prof	Engg Sci	
49	Ms. Kokane Reena Ram	Librarian	Lib	NA
50	Dr. Patil Bhuvaneshwar Dnyandeo	Asstt Prof	Mech	
51	Mr. Kulkarni Vishal Vishwas	Asstt Prof	Mech	
52	Dr. Mutalikdesai Sachin Vyasrao	Asstt Prof	Mech	
53	Mr. More Sudhir Sarjerao	Asstt Prof	Mech	
54	Dr. Allampallewar Girish Laxmikant	Asso Prof	Mech	
55	Mr. Yesane Dayanand Pandurang	Asstt Prof	Mech	
56	Mr. Kurhe Eknath Dnyandeo	Asstt Prof	Mech	
57	Mr. Bhanage Amol Sadashiv	Asstt Prof	Mech	
58	Mr. Dhamane Naresh Bharateshwar	Asstt Prof	Mech	
59	Mr. Bhoge Dhananjay Manohar	Asstt Prof	Mech	
60	Mr. Polas Rohit Purushottam	Asstt Prof	Mech	
61	Mr. Dharmale Rajesh Pundalikrao	W/S Superintendent	Mech	
62	Ms. Patil Sonali Shrikant	Asstt Prof	Mech	
63	Dr. Joshi Anjali Jitendra	Asso Prof	Mech	
64	Ms. Ulhe Apurva Rajiv	Asstt Prof	Mechx	
65	Mr. Shashikant Vasant Golande	Asstt Prof	Mechx	
66	Dr. Mukesh Gitaram Ghogare	Asso Prof	Mechx	
67	Dr. Gargi Sanjeev Yadav	Asstt Prof	Mechx	
68	Ms. Pawar Aishwarya Dattatray	Director, Physical Education & Sports	Physical Education &	NA

Industry Institute Interaction Report

Details of Faculty Liasoning with Industry (A.Y. 2023-24)

Name of Faculty Coordinator: Mr. Sanjay A. Agrawal

Name of Faculty(Group) Members (if any): NA

Department: Computer Engineering

Date of Visit: 18/10/2023

Name of Contact Person: Mr. Vikas Kumar

Contact Number: 8888873119

Name & Address of Industry: QA Education Solutions Private Limited,

Ahmedabad, Gujarat - 380009, India ("Academy")

Profile of Industry:

QAcademy is a leading institution dedicated to providing high-quality certification courses in various domains of IT and Computer Engineering. Their mission is to empower individuals with the knowledge and skills necessary to thrive in the dynamic and rapidly evolving technology industry. They offer a comprehensive range of courses designed to cater to the diverse needs of students and professionals alike. Our programs include specialized training in areas such as software development, network security, data science, cloud computing, and more. With a focus on practical, hands-on learning, our curriculum is carefully crafted to ensure that students are equipped with industry-relevant skills and expertise.

Details of Visit:

We have invited Mr. Vikas Kumar (Relational Manager) at our campus to discuss the learning & development service provided by QA Education Solutions Private Limited. They offer Instructor-based as well e-learning options in the Authorized as well as Customized training programmers.

Proposed/Expected Output/Activity from Visit:

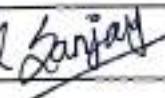
Skills training to students related to Computer and AI & Ds certification courses.

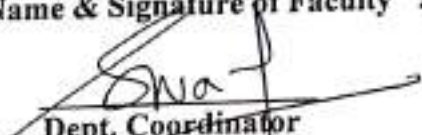
Actual outcome from Visit:

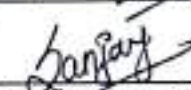
(Note: Fill these details after fulfill/conduction of proposed activity mentioned in above table)

Signed MOU related to training of certification courses.

Name & Signature of Faculty :

Mr. Sanjay A. Agrawal 


Dept. Coordinator


Functional Head of Committee

Enclosure: Photos of interaction



MOU With QAcademy

Date: 20/10/2023

"Towards Ubiquitous Computing Technology"
DEPARTMENT OF COMPUTER ENGINEERING

NOTICE


All the students of Computer Engineering and AI & DS Department are hereby informed that a webinar on "Awareness on the Importance of Certifications Program in IT" is scheduled on 21/10/2023. This session insight on providing the details of emerging areas in Computer, IT and AI & DS and its related certifications.

Mode of Conduction: Online

Resource Person Details:

Name: Mrs. Harsimran Kaur
Qualification: PG Computer Science
Experience: 12 Years
Designation: Master Trainer
Company: QAcademy Pvt. Ltd.


Coordinator
Mr. S. A. Agrawal


HOD
Mr. S. G. Rathod





"Techno-Social Excellence"
**Marathwada Mitramandal's
Institute of Technology (MMIT)**
Lohgaon, Pune-47

"Towards Ubiquitous Computing Technology"
Department of Computer Engineering
(Academic Year 2023-24)

A Webinar

On

Awareness on the Importance of Certifications Program in IT

**Held on
21st October 2023**


Coordinator
Mr. S. A. Agrawal




HOD
Dr. S. G. Rathod

Webinar Details

Subject: Awareness on the Importance of Certifications Program in IT

Attendee: 59 Students (SE,TE, BE Computer Engg. and AI & DS students)

Organized By: Department of Computer Engineering, MMIT, Lohgaon-411 047

Date: 21st October 2023

Mode of conduction: Online

Resource Person:

Name: Mrs. Harsimran Kaur

Qualification: PG Computer Science

Experience: 12 Years

Designation: Master Trainer

Company: QAcademy Pvt. Ltd.

Objective of Webinar

The objective of webinar are:

- To introduce the significance and relevance of certification programs in the IT industry
- To educate participants about various globally recognized certification programs in IT and their specific benefits
- To provide insights into how certification programs can enhance career prospects and open up new opportunities in the tech industry
- To highlight the specific skills and competencies that can be acquired through different certification programs
- To offer guidance on the selection and preparation process for different certification exams in the field of IT

Introduction:

The webinar on "Awareness on the Importance of Certification Programs in IT" was held on 21st October 2023 and was organized by Department of Computer Engineering. The objective of the webinar was to shed light on the importance of certification programs in the rapidly evolving landscape of the IT industry. The event aimed to bridge the gap between theoretical knowledge and practical skills, thereby equipping participants with a comprehensive understanding of how



certifications can significantly contribute to their professional development and career advancement.

Session by Mrs. Harsimran Kaur

She highlighted the importance of certifications in students' career.

Following topics are covered in the seminar

- Overview of the Current IT Industry Landscape.
- Significance and Benefits of Certification Programs.
- Global Certification Programs and their Specific Relevance.
- Impact of Certifications on Career Prospects and Earning Potential.
- Essential Skills and Competencies Acquired through Certification Programs.
- Selecting the Right Certification Programs Based on Career Aspirations.
- Preparation Strategies and Resources for Certification Exams.
- Q&A Session for Participant Engagement and Clarifications.

The speaker introduced students about the difference between the Certificate and various Certifications. She explained that how important it has become for students to have certifications in hand along with their degrees. She also told the importance of AI & Data Science Certification globally. Finally, she concluded his session by informing about the different package that includes 40 hours training and certification.

Program Outcomes

The webinar successfully achieved its objectives by providing participants with a comprehensive understanding of the importance of certification programs in the field of IT. The students gained valuable insights into the relevance of certifications for their career development and learned about various certification options available globally. The event facilitated an interactive discussion between the speaker and the participants, enabling them to clarify their doubts and receive guidance on selecting appropriate certification programs aligned with their career goals.

Overall, the webinar fostered a greater awareness and appreciation of the role of certifications in enhancing professional growth and competitiveness in the IT industry.



Session photos

Sanjay Agrawal Prasad Bhokare Vivek Wadate Pranav Yadav

Q Academy

Q Academy

2016 2018 2020 2021 2022

- 2016: Q Academy Founded in 2016 in British Columbia, Canada.
- 2018: Q Academy Start Second Campus in Victoria Canada.
- 2020: Q Academy Spread Presence across Canada.
- 2021: Q Ranger K-12 Inaugural Coding Learning program.
- 2022: Q Academy India Start Functioning in India with Q Academy and Q Ranger.

Introduction about Company

Sanjay Agrawal Prasad Bhokare Vivek Wadate Pranav Yadav

Q Academy

Services Offered

- 01 UPSKILL**
Customized and Industry Oriented Upskilling courses in the area of Cyber Security, Cloud Computing, Big Data, Data Analytics, Business Intelligence, Artificial Intelligence, Machine Learning, Office Management, Digital Marketing and many more.
- 02 CORPORATE TRAINING**
Corporate Training facility at Beginner, Intermediate, and Expert level in all domains.
- 03 CERTIFICATIONS**
Q Academy is a one-stop shop offers that it offers certification from beginner to expert level for IT, ITES, IT-BPM, EdTech, Skill Sector Courses.
- 04 PLACEMENTS**
Q Academy provides 100% placement support to students during and after the completion of the course. Our Training and Placement Cells led by a team of experienced specialists.

Services Offered by Company

Sanjay Agrawal Imran Prasad Bhokare Pranav Yadav

Q Academy

IMPORTANCE OF CERTIFICATE

- Validation of knowledge
- Increased marketability
- Increased earning power
- Enhanced academic performance
- Improved reputation
- Enhanced credibility
- Increased confidence

CERTIFIED

Importance of Certification



Sanjay Agrawal Dr. Manjula A.A. Panna Venkata Swarna Chinmay Dagade

Q Academy™ You are viewing Presentation in full screen. View Options

FULL STACK – JAVA/PYTHON

FRONT END DEVELOPMENT

WHAT WILL YOU LEARN?

Frontend Development Technologies

HTML/CSS/JavaScript

Angular/React/TypeScript

Backend Development Technologies

Core Java/JSP

Spring

Database Management

MySQL

Introduction of Full Stack Course

Sanjay Agrawal shruti ashtekar Sanket Ram pophale

Q Academy™ You are viewing Presentation in full screen. View Options

Job Roles



- Fullstack Developer
- Software Engineer
- Data Analyst
- Web Developer
- Frontend Developer
- Backend Developer
- Application Developer
- Javascript Developer
- PHP Developer
- Programming Analyst
- Interface Engineer
- Web Designer


Job Roles with Full Stack Certification

Sanjay Agrawal shruti ashtekar Sanket Ram pophale

Q Academy™ You are viewing Presentation in full screen. View Options

Why should you take this course?

- **Job Opportunities:** Completing a certification program in Full Stack Development can open a plethora of job opportunities in the development sector. Companies are always looking for experienced and skilled developers and with this certification, you can prove that you have the skills necessary to fill their needs.
- **Professional Growth:** Completing this certification program can help you to further your career by showing employers that you are serious about the profession and are willing to go the extra mile to become more knowledgeable and skilled. This can lead to promotions and other opportunities for professional growth.
- **Increased Salary:** With the increased knowledge and skillset that comes from this certification program in Full Stack Development, you may be able to negotiate a higher salary when it comes to job opportunities.
- **Improved Communication Skills:** With this certification, you will also learn how to communicate more effectively with other developers and customers. This will help to ensure that your projects are delivered on time and within budget.



Useful of Certification



Q ACADEMY &



Certify, Specialize, Succeed :
**The Triple Power of Full Stack, Cyber Security, and
Data Science**



Guest Speaker :

Mrs. Harsimran Kaur (PG Computer Science);
Master Trainer (Full Stack, JAVA, Data Science);
12+ Years of Experience as a Trainer

Topic:

Topic : Importance of certification program
in Full stack- Cyber Security- Data Science -
(Course Duration & Future Prospects)

Join our Virtual Orientation Programme - MMIT

Date: 21st, Oct 2023

Day: Saturday

Time: 10:00 am - 11:00am (IST)

Scan QR to join
Webinar



Webinar Poster



Online Attendance & Feedback

Timestamp	Select Class	Roll No.	Student Name	Planning and Organization of the programmer	Quality of Power Point Presentation (contrast, color, design of slides etc.)	Interactions by the Speaker	Relevance of the course	Adequacy of time for presentation of topics	are in interested in Certification Course?	Mention the name of interested Course (or write NA)
10/21/2023 10:49:10	TE AI & DS	TE03	Apurv Bhavsar	4	4	4	4	4	No	NA
10/21/2023 10:49:31	TE AI & DS	TE02	Yash Ramesh Aphate	4	4	4	4	4	No	NA
10/21/2023 10:49:33	TE-A	TEA35	Isha Doshmukh	4	4	4	4	4	Yes	Na
10/21/2023 10:49:35	BE-A	BEA50	Samtosh Pravin Kale	4	4	4	4	4	Yes	NA
10/21/2023 10:49:40	TE-A	36	Vaishnavi Ginchchi	3	3	3	2	3	Yes	NA
10/21/2023 10:49:40	TE AI & DS	TE01	SUMEDH SUBODH KADAM	4	4	4	4	3	Yes	Data Science and Cyber Security
10/21/2023 10:49:43	SE-A	SEA55	Pratiksha Kumbhar	2	4	3	3	2	No	-
10/21/2023 10:49:44	TE AI & DS	06	Purvesh Chaudhari	3	3	3	3	3	No	No
10/21/2023 10:49:46	BE-A	33	Rushikesh Vijay Dhavan	4	4	4	4	4	Yes	NA
10/21/2023 10:50:01	TE-A	TEA49	Pranali Walekar	4	4	4	4	4	No	Na
10/21/2023 10:50:02	BE-B	Beb51	Vedeshni mahesh phalak	3	3	3	3	3	Yes	Na
10/21/2023 10:50:17	TE-A	TEA36	Pawar Sushmita Gunvant	4	4	4	3	4	Yes	Full stack developer
10/21/2023 10:50:18	SE-A	SEA69	Khushi Salarkar	2	2	2	3	2	Yes	NA
10/21/2023 10:50:24	BE-B	BEB24	Salunke Sahil Santosh	4	4	4	4	4	No	NA
10/21/2023 10:50:29	TE-B	33	Shruti Kishor Vedpathak	4	3	4	4	4	Yes	Full Stack
10/21/2023 10:50:32	SE-A	29	bnagwat hwale	4	4	4	4	4	Yes	NA
10/21/2023 10:50:32	SE-A	SEA11	CHAVAN SAHIL RAJENDRA	4	4	4	4	4	Yes	FULL STACK WEB DEVELOPEMENT
10/21/2023 10:50:38	SE-A	50	Nihar Dimesh Kijje	3	3	3	3	4	No	Na
10/21/2023 10:51:15	SE-B	SEB74	Mahesh Salish Divan	2	1	2	3	2	No	NA
10/21/2023 10:51:18	TE AI & DS	25	Vidhyadhar Ramdas Muskawa	4	4	4	4	4	No	NA
10/21/2023 10:51:18	TE-A	28	Shreya Sandesh Shinde	3	3	2	2	3	No	NA
10/21/2023 10:51:20	SE AI & DS	SE29	Girja Takale	3	4	3	3	3	Yes	Data science
10/21/2023 10:52:11	BE-A	BEA29	Kartikay Dnekap	4	4	4	4	4	Yes	Na
10/21/2023 10:53:16	TE AI & DS	26	Nidhi Deshmukh	2	3	4	2	3	Yes	Na
10/21/2023 10:53:33	TE AI & DS	TE07	Dagade Chirrnay Nitin	4	4	4	4	4	Yes	NA
10/21/2023 10:53:34	SE-A	49	Sanket Khule	4	4	3	3	3	Yes	Na
10/21/2023 10:54:55	BE-A	BEA37	Prithamesh Vinod Galikwad	4	4	4	3	3	No	Na
10/21/2023 10:55:20	BE-A	BEA59	Saket Milind Kharche	4	4	4	4	4	Yes	Na
10/21/2023 10:56:33	BE-B	13	Pooja Maruti Pawar	2	3	2	1	1	Yes	Data science
10/21/2023 10:57:13	TE AI & DS	39	Sanket Yeole	3	3	3	3	4	Yes	NA
10/21/2023 10:58:25	BE-A	BEA44	Abhishek Sanjay Jadhav	2	2	2	2	2	No	NA
10/21/2023 10:58:56	BE-B	BEB49	vaibhavaayyakkumar mule	4	3	3	4	3	No	NA



Pratik

Timestamp	Select Class	Roll No.	Student Name	Planning and Organization of the programmer	Quality of Power Point Presentation (contrast, color, design of slides etc.)	Interactions by the Speaker	Relevance of the course	Adequacy of time for presentation of topics	are in interested in Certification Course?	Mention the name of Interested Course (or write NA)
10/21/2023 10:59:34	SE-B	64	Pranjali Pravin Kulal	4	4	4	4	3	Yes	NA
10/21/2023 11:01:14	BE-B	BEB33	Mahesh Ramakant Srinke	4	4	4	4	4	No	NA
10/21/2023 11:03:53	TE AI & DS	TE 37	Vidyesh Patil	4	3	4	4	3	Yes	Cyber security
10/21/2023 11:06:07	TE-A	TEA48	Shruti sadashiv Ashtekar	3	3	3	3	3	Yes	Full stack
10/21/2023 11:08:49	BE-A	BEA63	Renuka Lonkar	4	4	4	4	4	No	NA
10/21/2023 11:10:24	SE AI & DS	34	Pokale Bharati Mahadev	4	3	3	3	4	No	NA
10/21/2023 11:12:14	BE-B	BEB14	Phadtare Ritesh Avinash	4	4	4	4	4	Yes	NA
10/21/2023 11:14:00	TE AI & DS	TE04	Prasad Sanjay Bhokare	3	3	3	3	3	No	NA
10/21/2023 11:15:02	TE-A	44	Kaked Vedika Vilas	3	3	3	3	3	Yes	Full stack development
10/21/2023 11:15:18	SE-B	32	Senskar Raut	3	4	3	3	3	No	Na
10/21/2023 11:15:49	TE-A	TEA03	Tanmay Milind Waghdiare	4	4	4	4	4	No	Na
10/21/2023 11:16:56	BE-B	63	Akshaj jadhav	4	4	4	4	3	Yes	Cyber security
10/21/2023 11:18:49	BE-B	22	Rushikesh Subhash Bhalerao	3	3	3	3	3	Yes	NA
10/21/2023 11:26:01	BE-A	71	Jay Mate	3	3	3	3	3	No	NA
10/21/2023 11:32:36	BE-B	BEB21	Aniket Madhukar Rindhe	4	4	4	4	4	Yes	NA
10/21/2023 11:40:40	BE-B	BEB70	Shinde Akshay Haniram	4	3	4	4	4	Yes	Full stack
10/21/2023 11:41:12	BE-A	BEA22	Dhanashri Ashok Dagade	4	4	4	3	3	Yes	NA
10/21/2023 12:03:58	BE-A	BEA39	KARAN RAMDAS GITE	3	3	3	3	3	No	NA
10/21/2023 12:11:36	BE-B	BEB19	Pransay Bhauroo Rathod	3	4	3	4	3	No	NA
10/21/2023 12:55:17	BE-B	BEB31	Imran Shaikh	4	3	3	3	3	Yes	Fullstack development
10/21/2023 13:01:35	TE AI & DS	TE -09	Sainath Dehiwal	3	4	3	4	3	No	NA
10/21/2023 17:01:35	SE-B	36	Akanksha Sudhir Sawant	3	3	3	3	3	No	NA
10/21/2023 17:01:39	SE-A	67	Dnyaneshwari	3	3	3	4	3	No	NA
10/21/2023 17:03:02	SE-A	26	Sayali Gorekhnath Godse	3	3	3	3	3	No	NA
10/21/2023 17:08:03	SE-B	SEB48	Karrik Sinkar	3	3	3	3	3	Yes	NA
10/21/2023 17:26:11	BE-A	BEA58	Aditya Arun Kavitsake	3	3	3	3	3	No	NA
10/22/2023 15:29:13	TE-B	TEB62	Trupta Patange	4	4	4	3	4	No	Na





Mo.8888493512

SWAMI MOTORS

Add.S.no :-Shop no.1 , near Relax Hotel , Maria Udyan Area ,Forest
Road Lohgaon Pune Maharashtra 411047

Prop :-Chetan Jadhav

INTERNSHIP CERTIFICATE

Name :- Shreeyash Manoj Hendre

College :- Marathwada Mitramandals Institute of technology

Department :- Mechanical Engineering

Domain of Internship :- Automobile Service station

Training Date :- 11 Dec to 30 Dec 2023

During the period of Training Program at SWAMI MOTORS ,
the candidate was found punctual and hardworking and
inquisitive

SWAMI MOTORS

Proprietor



Authorized Signature :-