



Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE New Delhi, Recognized by DTE, Govt. of Maharashtra
And Affiliated to University of Mumbai

ACCREDITED by NAAC with "B++" Grade

Criterion 3 - Research, Innovations and Extension

3.2 - Innovation Ecosystem

3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge (patents filed, published, incubation center facilities in the HEI to be considered)

MAIN INDEX

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PRINCIPAL
VIVA INSTITUTE OF TECHNOLOGY



3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge (patents filed, published, incubation center facilities in the HEI to be considered)

INDEX

1. STUDENT'S PARTICIPATION / ACHIEVEMENTS RECORDS

Sr.	Name of the Activity	Year	Department
1	Smart India Campus Internal Hackathon	2023-24	Computer
2	Bit N Build 2024		Computer
3	Anveshana		EXTC
4	Jana Kalyan Hackathon - 'Humanitarian Technology Solutions for Rural India'		Mechanical
5	METI Japan Internship Program		Mechanical
6	Technical Poster Presentation		Mechanical
7	Jana Kalyan HACKATHON -on Workshops on the “Internet of Things”		Mechanical
8	Polarizer 2024		Mechanical
9	VNPS- 24 VidyaVardhini National Level Project Showcase		Mechanical



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Shirgoan, Kumbharpada, Virar(E), Taluka-Vasai-401305, Phone no:7770002544 Website: www.viva-technology.org

DEPARTMENT OF COMPUTER ENGINEERING


ACHIEVMENT LIST – 2023-24

Event Name	Smart India Hackathon Grand Finale 2023
Team Members	Shaad Shaikh, Rohit Ghorui, Amarjit Vishwakarma, Vansh Shah, Kashish Chauhan, Shahin Idrisi
Venue/Organization by Date	Shree Venkateswara College of Engineering, Chittoor, Andhra Pradesh
Qualified in Top 5 Teams among 1282 Teams across India	Qualified in Top 5 Teams among 1282 Teams across India
Position Obtained	Qualified in Top 5 Teams among 1282 Teams across India
Photographs	

Event Name	BIT N BUILD
Team Members	Rushabh Patil & Harsh Mali
Venue/Organization by Date	Fr. Conceicao Rodrigues college of Engineering GDSC
Brief Description	Competition organised by Google Development Students Club of Fr. Conceicao Rodrigues college of Engineering
Position Obtained	Qualified as Finalist of BitNBuild'24
Photographs	<div data-bbox="735 875 1390 1736"> </div> <p>1.</p>


Achievements

A.Y. 2023-24

Event name	Anveshana 2023-24
Team Members	Sakshi More,Niraj Dhadve,Dipak Gaikwad
Brief Description	Project titled “ Medicare Bot ” in Building bridges to innovation competition.
Benefit to society	Autonomous bot for healthcare service like temperature sensing and sanitising
Venue/Organization By Date	Synopsys in Mumbai
Position Obtained	1 st Prize
Photographs	

Achievements

A.Y. 2023-24

Event name	JANA KALYAN HACKATHON
Team Members	Mihir nawale,Arya Singh,Neha Mohit,Khush Patel
Brief Description	A hackathon was arranged to enhance coding ability of students in permissible time limit.
Benefit to society	Creates bright software engineers.
Venue/Organization By Date	Thakur college of engineering and technology in association with IEEE BOMBAY section.
Position Obtained	Top 5
Photographs	



VIVA Institute of Technology

At. Shirgaon, Veer Sawarkar Road, Virar (East) - 401305, Maharashtra.

Department of Mechanical Engineering

Students Achievement Report.

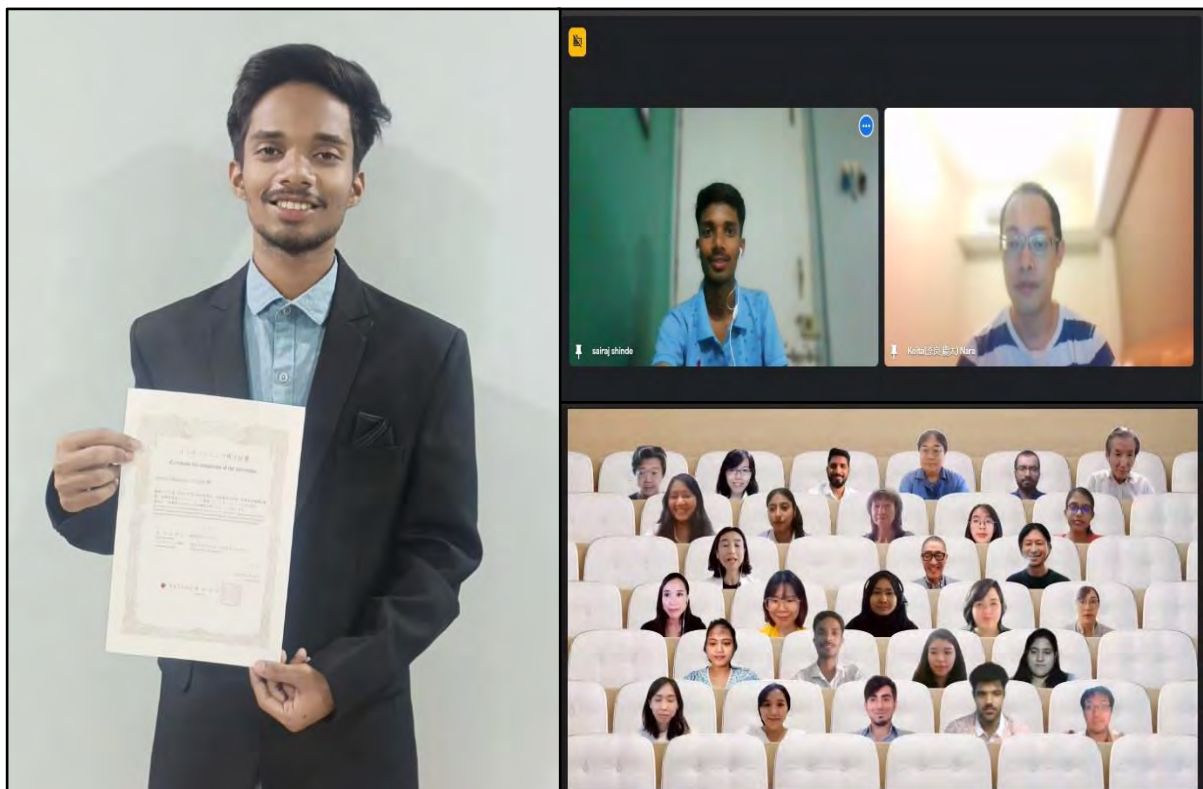
Event: METI Japan Internship Program

Host: Ministry of economy trade and industry, Japan

Venue: Osaka, Japan

Position: Overseas Intern

Congratulations to the T.E. Mechanical Engineering student Mr. Sairaj Mangesh Shinde of VIVA Institute of Technology for completing internship as an overseas intern under government of Japan at H. Ikeuchi co. & ltd. by Ministry of Economy Trade and Industry (METI), Japan. Each year METI, Japan selects 25 interns from around the world, in year 2023 Sairaj was selected among top 25 in world out of 17500 applications. The internship started on 18th August 2023 and ended on 29th September 2023. A 2-week professional training was also held before internship started from 5th August 2023 to 17th August 2023. While being the intern at H. Ikeuchi co. & ltd. representing India, he worked on research and development of new fog cooling technology and designing of new nozzles for the company. He was commended as fastest and efficient working intern of 2023 internship program and awarded with stipend of 36,149/- JPY i.e. 19500/- INR for his work in the tenure of internship.





VIVA Institute of Technology

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Department of Mechanical Engineering

Students Achievement Report.

Event: Technical Poster Presentation

Host: ISHRAE

Venue: Fr. c. Rodrigues Institute of Technology, Vashi.

Position: First Prize

Congratulations to the T.E. Mechanical Engineering students of VIVA Institute of Technology for their outstanding achievement at the Jamboree event organized by Fr. C. Rodrigues Institute of Technology, Vashi, on January 20, 2024. It's truly commendable that Ayushi Pandey, Akshar Patil, Sairaj Shinde, and Naresh Katre not only participated but also secured the **first prize** with their exceptional technical paper presentation on Portable UV water Sterilizer. Your hard work, dedication, and innovative approach have truly set you apart in a competitive field.

This accomplishment not only reflects your individual brilliance but also highlights the strength of teamwork and the quality of education at VIVA Institute of Technology. Your success serves as an inspiration to your peers and a testament to the excellence fostered by your academic institution. Keep up the fantastic work, and may this achievement be the beginning of many more successes in your academic and professional journey.

The entire institute is proud of your accomplishments, and we look forward to witnessing your continued growth and success in the future. Well done, and congratulations





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Department of Mechanical Engineering

Students Achievement Report.

once again on this well-deserved victory!





VIVA Institute of Technology

At. Shirgaon, Veer Sawarkar Road, Virar (East) - 401305, Maharashtra.

Department of Mechanical Engineering

Students Achievement Report.

Event: Jana Kalyan HACKATHON -on Workshops on the “Internet of Things”

Host: IEEE TCET and IEEE Mumbai Chapter

Venue: Thakur College of Engineering and Technology, Kandivali, Mumbai

Position: First Prize

Congratulations to the T.E. Mechanical Engineering students for participating in The national-level 24-hour Jana Kalyan HACKATHON, held on February 16th and 17th, 2024, focused on “Humanitarian Technology Solutions for Rural India,” attracting participants from across the nation to Thakur College of Engineering and Technology, Kandivali, Mumbai, in collaboration with IEEE TCET and IEEE Mumbai Chapter. Our team dedicated 24 hours of continuous effort to our project, “IOT based Earthquake Detection System,” which aimed to provide a solution for detecting earthquakes using Internet of Things (IOT), machine learning algorithms, and an Android application interface. The project comprised IOT sensors strategically deployed in earthquake-prone areas to detect seismic activity in real-time, machine learning algorithms analyzing sensor data to predict earthquake occurrences, and an Android application offering a user-friendly interface for accessing earthquake alerts, safety tips, and emergency services. After rigorous development and presentation sessions, our project emerged as the top contender, **securing the 1st position in the competition**. The recognition garnered from this victory not only validates the ingenuity and hard work invested by our team but also underscores the relevance of our project in addressing critical societal challenges. Winning the hackathon motivates us to further refine and implement our solution for the benefit of rural communities vulnerable to seismic events.

Once again, congratulations to the T.E. Mechanical Engineering students for their accomplishments, and we wish them continued success in their future endeavors in the field of the Internet of Things (IoT) and beyond.





VIVA Institute of Technology

At. Shirgaon, Veer Sawarkar Road, Virar (East) - 401305, Maharashtra.

Department of Mechanical Engineering

Students Achievement Report.

Event: Polarizer 2024

Host: NMIMS Mukesh Patel College of Management and Technology

Venue: Ville Parle (East)

Prize: Special Prize (Consolidation)

Congratulations to TE Mechanical Engineering Students Mr. Sairaj Shinde, Ms. Ayushi Pandey, Mr. Rohit Solanki and Ms. Sheetal Gupta (Team Blossom) For participating and winning consolidation prize at polarizer 2024 organised by NMIMS Mukesh Patel College of Management and Technology on **28th February 2024** at **MPSTME Auditorium**. The project won under the theoretical physics project category. Out of 70 teams present at the competition they are 4th runner up and received a **cash prize of Rs. 2000/-** They showcased their project “IOT Based Earthquake Detection System” at Polarizer 2024.





Event: VNPS- 24 VidyaVardhini National Level Project Showcase

Host: VCET'S College

Venue: Vasai

Position: First Prize

We are thrilled to announce that our students, Kamal Chauhan, Kunal Mandavkar, and Shiva Bind, have clinched the **First Prize with cash prize Rs 3000** at the prestigious VNPS-24 VidyaVardhini National Level Project Showcase. Their exceptional achievement is a testament to their hard work, creativity, and dedication. Their project, **Fabrication of Automatic Nimbu Shikanji Machine**, stood out among various entries from across the other college, impressing the judges with its innovative approach and practical application. Throughout the competition, Kamal, Kunal, and Shiva exhibited exemplary teamwork and problem-solving skills, overcoming challenges with resilience and ingenuity. This win not only reflects their academic prowess but also highlights the supportive environment and quality education provided by our institution. Congratulations to Kamal Chauhan, Kunal Mandavkar, and Shiva Bind for this well-deserved recognition of their talent and effort.





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2. BEST PROJECT AND PRODUCT DEVELOPMENT

Sr. No.	Name Of Best Project And Product Development	Year	Department
1	Statistical Analysis of Drought for Vidarbha Region	2023-24	Civil
2	Neurosentinel Prodigy		Computer
3	Intravenous Drip Monitoring and Controlling System		Computer
4	SwimGuard: Robotic life saving assistance for Swimming Pool Rescue		Electrical
5	SUPPLY TRACK & DEMAND FORECASTING		EXTC
6	Table Tennis Machine		Mechanical

Topic Name: Statistical Analysis of Drought
for Vidarbha Region

Guide: PROF. ASMITA MHATRE

Date: 5th September, 2024

Summary details :

Application:

The Standardized Precipitation Index (SPI) is a widely used tool in various applications related to water resource management, agriculture, climate monitoring, and risk assessment. Here are some key applications of the SPI:

- 1. Drought Monitoring and Assessment:** SPI is extensively used for drought monitoring and assessment at various temporal scales (e.g., monthly, seasonal, annual). By analyzing precipitation data over a specified period, SPI can provide insights into the severity, duration, and spatial extent of drought conditions. This information is crucial for policymakers, water resource managers, and agricultural planners to implement appropriate mitigation and adaptation strategies.
- 2. Water Resource Management:** SPI assists water resource managers in assessing water availability and planning for water allocation and distribution. By evaluating precipitation anomalies, SPI helps in forecasting potential water shortages or surpluses, enabling proactive management of water resources, such as reservoir operations, irrigation scheduling, and water conservation measures.
- 3. Crop Yield Forecasting:** SPI plays a significant role in agricultural decision-making by providing insights into precipitation deficits or surpluses during critical crop growth stages. By correlating SPI values with historical crop yield data, farmers and agricultural stakeholders can anticipate the potential impacts of precipitation variability on crop production, optimize planting decisions, and implement appropriate irrigation strategies.
- 4. Natural Disaster Risk Assessment:** SPI is valuable for assessing the risk of natural disasters such as floods, landslides, and wildfires, which are often associated with extreme precipitation events. By identifying periods of anomalously dry or

wet conditions, SPI enables early warning systems and risk assessment models to mitigate the adverse impacts of natural disasters on communities, infrastructure, and ecosystems.

5. Climate Change Studies: SPI serves as a useful tool for studying the long-term trends and variability of precipitation patterns in response to climate change. By analyzing SPI trends over extended periods, researchers can assess the influence of climate change on precipitation distribution, frequency, and intensity, aiding in the development of climate adaptation and mitigation strategies.

6. Hydrological Modeling: SPI is integrated into hydrological models to simulate the effects of precipitation variability on hydrological processes such as runoff, infiltration, and groundwater recharge. By incorporating SPI-derived precipitation inputs, hydrological models can improve the accuracy of streamflow forecasts, reservoir management, and water balance assessments in watersheds and river basins.

7. Insurance and Financial Risk Management: SPI is utilized by insurance companies, financial institutions, and risk assessors to evaluate the financial impacts of extreme precipitation events on various sectors, including agriculture, infrastructure, and property. By quantifying the probability and severity of precipitation-related losses, SPI helps in pricing insurance premiums, assessing investment risks, and developing risk management strategies.

Feature:

1. Data Input: Import historical precipitation data for the region of interest into MATLAB.

This data can be obtained from various sources such as meteorological stations, satellites, or global climate datasets.

2. Preprocessing: Clean the data by handling missing values, outliers, or inconsistencies. Convert the data into a suitable format for analysis.

3. Calculate SPI: Compute the SPI values based on the precipitation data.

Compute the SPI values for different accumulation periods (e.g., 1-month, 3-month, 6-month, etc.).

- 4. Visualization:** Visualize the SPI values using MATLAB plotting functions. Create time series plots of SPI values for different accumulation periods to identify drought patterns over time. Use color scales or contour plots to represent the severity of drought conditions.
- 5. Threshold Selection:** Determine threshold values corresponding to different drought severity categories (e.g., mild, moderate, severe, extreme). These thresholds can be based on historical climatological data or specific criteria for the region under study.
- 6. Drought Monitoring:** Classify SPI values into drought categories based on the selected thresholds. Identify periods of drought onset, duration, intensity, and recovery.
- 7. Statistical Analysis:** Conduct statistical analyses to assess the frequency, duration, and severity of drought events. Calculate summary statistics such as mean SPI, maximum SPI, and percentile values.
- 8. Spatial Analysis (Optional):** If working with spatial data, perform spatial interpolation or downscaling techniques to estimate SPI values at unobserved locations. Analyze spatial patterns of drought occurrence and variability across the study area.
- 9. Validation:** Validate the SPI results by comparing them with other drought indices or ground-truth data (e.g., historical drought records, agricultural impacts, water reservoir levels).
- 10. Reporting and Interpretation:** Prepare reports or presentations summarizing the findings of the drought analysis. Interpret the results in the context of local climatology, hydrology, and socio-economic factors. Provide recommendations for drought management and adaptation strategies.

Future Scope:

- 1. Enhanced Spatial Analysis:** Future developments can focus on enhancing the spatial resolution of drought analysis. This involves utilizing higher resolution

satellite data and advanced interpolation techniques to provide more detailed insights into regional drought patterns.

- 2. Incorporation of Climate Models:** Integrating climate models into MATLAB-based SPI analysis can provide valuable insights into future drought scenarios under different climate change scenarios. This could help in long-term planning and adaptation strategies.
- 3. Real-Time Monitoring and Early Warning Systems:** Developing real-time monitoring and early warning systems for drought using MATLAB can be a significant area of focus. By integrating SPI calculations with real-time precipitation data, authorities can receive timely alerts and take proactive measures to mitigate drought impacts.
- 4. Multi-Index Drought Assessment:** Combining SPI with other drought indices such as the Standardized Precipitation-Evapotranspiration Index (SPEI) or the Palmer Drought Severity Index (PDSI) can provide a more comprehensive understanding of drought severity, duration, and spatial extent. MATLAB can facilitate the integration and analysis of multiple indices.
- 5. Integration with Geographic Information Systems (GIS):** Integrating MATLAB-based SPI analysis with GIS platforms can enable visualization of drought patterns on spatial maps, making it easier for policymakers and stakeholders to understand and respond to drought conditions.
- 6. Machine Learning for Prediction and Classification:** Employing machine learning techniques within MATLAB can improve drought prediction and classification models. By training models on historical SPI data along with other relevant variables, such as temperature and soil moisture, more accurate predictions of future drought events can be made.
- 7. Decision Support Systems:** Developing decision support systems (DSS) that utilize MATLAB-based SPI analysis can assist policymakers in making informed decisions related to drought management, water resource allocation, and agricultural planning.
- 8. Open Data and Collaboration:** Encouraging the use of open data sources and collaboration among researchers and stakeholders can foster innovation and improve the accuracy and reliability of MATLAB-based SPI analysis tools.

- 9. Mobile and Web Applications:** Creating mobile and web applications that leverage MATLAB algorithms for SPI analysis can democratize access to drought information, allowing farmers, local authorities, and the general public to monitor drought conditions and take appropriate actions.
- 10. Integration with IoT Sensors:** Integrating MATLAB-based SPI analysis with IoT sensors for real-time monitoring of meteorological variables can improve the accuracy of drought assessments and facilitate timely interventions in drought-affected areas.

PRODUCT DEVELOPMENT

ACADEMIC YEAR - 2023-24

Neurosentinel Prodigy

Name of Students - 1. Shaad Shaikh , 2. Vansh Shah, 3 .Deven Randive

Scope of work -The future of brain tumor detection is bright, thanks to advancements in AI, genomics, and wearable tech. These innovations will enhance accuracy and accessibility, leading to personalized treatments and global adoption. Long-term studies, education, and clinical trials will further validate and expand the role of AI in brain tumor detection for improved patient care in neuro-oncology.

Specifications and working of product - Brain tumor detection is a crucial task in the realm of medical diagnostics, bearing significant implications for patient care and outcomes. This project embarks on a comprehensive exploration of the development and deployment of an advanced brain tumor detection system. The methodological framework is multifaceted, commencing with the assembly of a diverse and extensive dataset of brain imaging scans. Subsequently, the data undergoes preprocessing, including noise reduction and image enhancement, to optimize the quality of the scans. The heart of the system lies in the utilization of deep learning, particularly a convolutional neural network (CNN), which enhances the features extracted from the preprocessed data to distinguish between brain scans indicative of tumors and those that are not. Model training is augmented by the introduction of a validation set, allowing for fine-tuning to achieve optimal performance. Testing the trained model on an entirely separate and previously unseen dataset substantiates its real-world utility, providing critical insights into its robustness and accuracy. The practical implementation of the system involves seamless integration into a real-time processing platform, enabling rapid analysis of incoming brain imaging data. This operational phase includes the establishment of predefined thresholds, effectively reducing false alarms and ensuring that only the most probable cases are flagged for review by medical professionals. An ongoing maintenance and monitoring strategy is used to adapt the model to the evolving landscape of tumor characteristics and medical advancements, thereby solidifying its continued effectiveness and relevance in the clinical arena. The outcomes of this research offer a significant contribution to the domain of brain tumor detection, providing a reliable and high- precision tool to improve patient care and outcomes in medical imaging.

Developed product –

Viva Institute of Technology
(Approved by AICTE, New Delhi, India, Govt. of Maharashtra and affiliated to the University of Mumbai)
Department of Computer Engineering

NEUROSENTINEL PRODIGY

NEXT-GEN BRAIN LESION ANALYSIS

TECHNOLOGY USED:

- PYTHON
- YGG16
- STREAM LIT

TEAM MEMBERS:

- SHAAD SHAIKH
- YASH SHAH
- DEVAN RANDIVE

TEAM MENTOR:

- PROF. SANIKET KUDOO

SCOPE

1. Develop an app to accurately detect brain tumors from MRI images.
2. Classify detected tumors into distinct types for precise diagnosis.
3. Utilize simplified machine learning techniques tailored for medical imaging analysis.
4. Implement a streamlined approach focusing on tumor detection and classification.

FEATURES

1. Accurate Tumor Detection: Precisely identify and outline tumor regions within MRI images.
2. Multi-Class Classification: Classify detected tumors into different types or categories based on their characteristics.
3. Real-Time Processing: Efficiently process MRI images and deliver fast predictions for timely diagnosis.
4. User-Friendly Interface: Provide a simple and intuitive interface for users to upload MRI scans and view classification results.

APPROACH

1. Collect diverse MRI datasets encompassing various brain tumor types and imaging conditions.
2. Robust algorithms for tumor detection, leveraging image processing and machine learning.
3. Train the model to classify tumors into different types using labeled data.
4. Build an efficient app interface for seamless upload of MRI images and display of classification results.

MOTIVATION

1. Enhance patient outcomes through early detection, potentially saving lives and cutting long-term healthcare expenses.
2. Provide healthcare providers with accessible tools, boosting diagnostic accuracy and efficiency for better patient care.
3. Meet the rising demand for advanced diagnostic solutions in healthcare by leveraging technology to address practical needs.

RESULT

"EMPOWERING AWARENESS, SAVING LIVES: ILLUMINATE THE PATH TO BRAIN TUMOR DETECTION."

Application – Brain Tumor Detection

PRODUCT DEVELOPMENT

ACADEMIC YEAR - 2023-24

IVigilance - Intravenous Drip Monitoring and Controlling System

Name of Students - 1. Mangesh Ram , 2. Harshal Patil 3. Vrunal Gharat

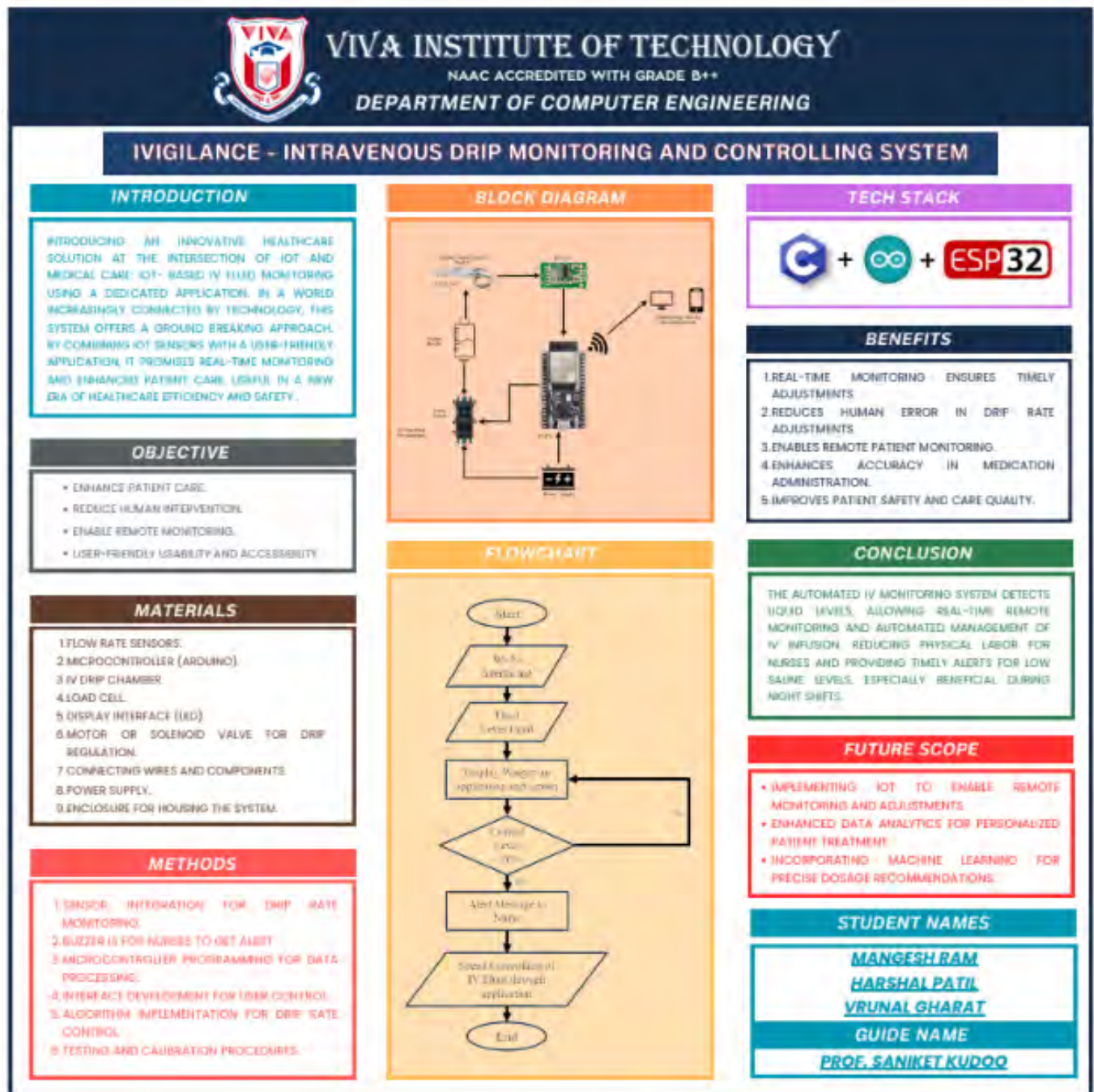
Name of Guide – Prof. Saniket Kudoo

Scope of work -The scope for an intravenous (IV) drip monitoring and controlling system is extensive and holds great potential in healthcare settings. Such a system can enhance patient safety by providing real-time monitoring of IV fluid administration, ensuring accurate dosages, and alerting healthcare providers to any anomalies or deviations. Additionally, it can improve the efficiency of healthcare delivery by reducing the need for constant manual supervision of IV drips, thereby allowing nurses and clinicians to allocate their time more effectively. Moreover, this technology can be integrated into larger healthcare ecosystems, enabling remote monitoring and data sharing, which can be especially valuable in telemedicine and home healthcare scenarios. As healthcare continues to evolve, IV drip monitoring and control systems have the potential to play a pivotal role in enhancing patient care and optimizing resource utilization.

Specifications and working of product -

The " IVigilance -Intravenous Drip Monitoring and Controlling System for Hospital Using IoT" project presents an IoT-driven solution designed to modernize and enhance intravenous therapy management within healthcare institutions. Intravenous (IV) drips play a pivotal role in patient care, yet their manual oversight poses potential risks, including medication errors and inefficiencies. This project leverages IoT technology to create an automated system that continuously monitors and regulates IV drip operations. By incorporating IoT sensors and microcontrollers into the IV drip infrastructure, real-time data on flow rates and drip status is collected. This data not only ensures precise medication and fluid delivery but also enables remote control and adjustment by healthcare professionals. The system's benefits are twofold. First, it reduces the likelihood of human error, significantly improving patient safety. Second, it provides data-driven insights that empower healthcare institutions to optimize resource allocation and make informed clinical decisions. In summary, the "Intravenous Drip Monitoring and Controlling System for Hospital Using IoT" project offers a transformative approach to IV therapy management. It promises to enhance patient care, streamline hospital operations, and usher in a new era of healthcare technology, where IoT-driven automation ensures the accuracy and safety of intravenous therapies, benefiting both patients and healthcare providers.

Developed product –



Application –

PRODUCT DEVELOPMENT

ACADEMIC YEAR – 2023-24

Project Name- SwimGuard: Robotic life saving assistance for Swimming Pool Rescue

Name of Students – 1. Karwande Vivek Anil, 2. Pathare Mayur Chetan, 3. Surve Rohit Rajendra

Name of Guide – Prof. Rahul Abhyankar

Scope of work - This paper comprises of comparative review for design of water rescue robot. The paper also gives information about techniques used for water rescue and evolution of water rescue robots in world. The comparison for design of water rescue robot is done on basis of propulsion system, power supply, microcontroller, 3D material etc. The paper also describes a calculation required for developing and designing a water rescue robot.

Specifications and working of product -

Drowning is a major global issue causing a high number of deaths each year, with about 236,000 reported by the World Health Organization annually. In India alone, approximately 30,000 drowning deaths occur yearly. This problem affects people of all ages and happens in various water settings, highlighting the crucial need for better prevention and rescue methods. Most drowning incidents take place in freshwater locations like rivers, lakes, and pools (90%), with the remaining 10% occurring in seawater. The concerning fact is that it only takes 3 to 5 minutes for someone to drown, emphasizing the urgency for quick and effective rescue operations. Rescuing drowning individuals is a tough and risky task, especially for lifeguards and first responders. Drowning victims often panic, displaying erratic behavior that can pose a danger to rescuers. In their attempts to stay afloat, victims may unintentionally harm those trying to help, creating a hazardous situation for both parties. This highlights the need for innovative solutions to improve water rescue processes. One such solution is the Life Saving Robot for Swimming Pools, designed to make water rescues safer for lifeguards and first responders. The main goal of this robotic system is to offer fast and effective assistance in emergencies, preventing drowning incidents and saving lives. And second objective is to rescue all types of swimmer i.e. weak swimmer, blind swimmer, non-swimmer except injured swimmer.

Developed product –



Application –Keep people safe in the water.

PRODUCT DEVELOPMENT

ACADEMIC YEAR – 2023-24

Product Developed - SUPPLY TRACK & DEMAND FORECASTING

Name of Students –

Sayanna Mukherjee 05

Jatin Tiwari 17

Amit Vishwakarma 18

Name of Guide – PROF ARCHANA INGLE

Scope of work - In the intricate world of supply chain management, the efficiency of cargo tracking and the precision of demand forecasting are paramount. The current cargo tracking methodology is burdened with complexity, necessitating professionals to navigate a multitude of carrier websites simultaneously. To surmount this challenge, we propose a transformative solution known as "Supply Track and Demand Forecasting" This innovative web-based platform centralizes cargo tracking data, thereby conserving valuable time and resources, and harnesses data science techniques to provide agile demand predictions. The objectives encompass simplifying cargo tracking, optimizing resource allocation, enhancing inventory management, and delivering a user-friendly solution. By amalgamating technology, data science, and supply chain expertise, we aspire to redefine the industry, facilitating a more efficient and data-driven future.

In summary, this project endeavours to revolutionize the supply chain domain. We aim to simplify the complexities of cargo tracking, improve resource allocation, and enhance inventory management. By doing so, we pave the way for a more efficient, intelligent, and competitive supply chain industry, where technology and data science seamlessly merge with operational expertise to foster a smarter, more robust ecosystem. This fusion of cutting edge technology and data-driven insights is not only a response to the current challenges but a visionary leap into the future of supply chain management. We envision a landscape where supply chain professionals can effortlessly streamline cargo tracking, allocate resources with precision, and manage inventory with confidence, ultimately catalysing a new era of competitiveness and efficiency within the industry. The project serves as the catalyst for this transformation, embodying the spirit of innovation and collaboration, with the goal of making the supply chain industry more resilient and adaptable in a rapidly evolving global market.

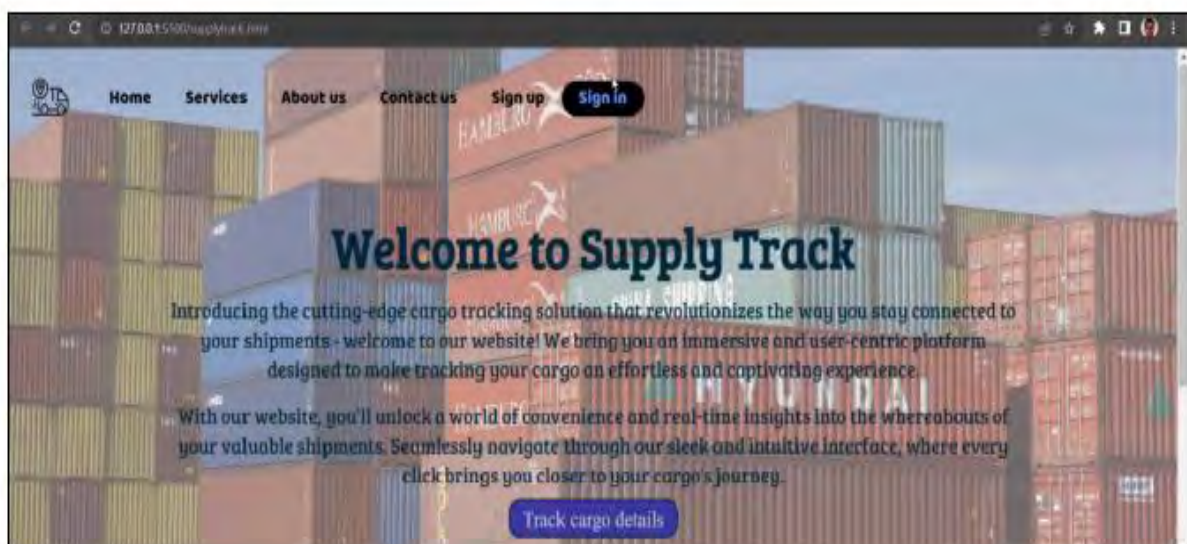
Specifications and working of product

In today's complex supply chain industry, keeping track of cargo and accurately predicting demand is essential. The existing methods for cargo tracking are often cumbersome, requiring supply chain professionals to navigate multiple websites simultaneously. This not only consumes valuable time and resources but also hampers the precision of supply chain management. The challenge lies in creating a solution that simplifies this process and enhances demand forecasting.

The project, "Supply Track and Demand Forecasting," aims to address these issues. The primary objective is to design and implement a user-friendly web platform that centralizes

cargo information from various carriers, eliminating the need to monitor numerous websites concurrently. Additionally, it intends to harness the power of data science to provide accurate demand forecasts, enabling supply chain stakeholders to make informed decisions, optimize inventory management, and enhance overall operational efficiency. This innovative endeavour seeks to mitigate the challenges posed by fragmented cargo tracking processes, offering a holistic solution that empowers supply chain professionals to navigate the complexities of air cargo operations effectively.

Application - Significantly improve cargo tracking efficiency, reduce resource waste, enhance inventory management, and provide a single, accessible platform for both tracking and forecasting. Ultimately the goal is to make the supply chain industry more efficient and data-driven, paving the way for a brighter and more streamlined future.



EXTC BEST PROJECT 2023-2024
SUPPLY TRACK & DEMAND FORECASTING

Product Development

Academic Year: 2023-24

Product Developed : Table Tennis Machine

Name of Students - 1. Sandesh Vikas Patil 2. Shrey Sunil Pawar 3. Nikhil Santosh Sakpal.

Name of Guide – Mrs. Henisha Raut

Scope of work:

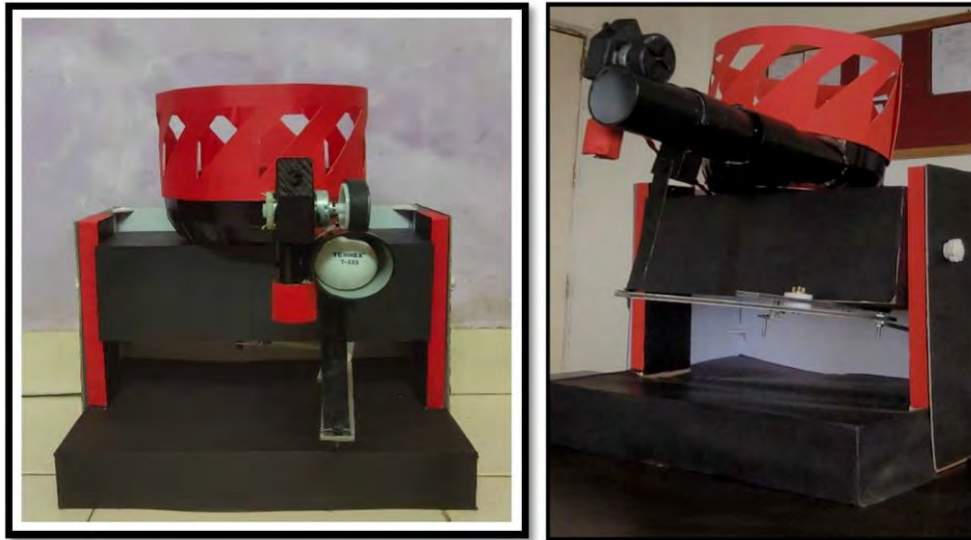
The scope of this project involved the design, development, and testing of an advanced mechanical table tennis machine to overcome limitations in existing models. Key tasks included creating a compact, portable device featuring a robotic arm capable of simulating various shot types, including topspin, backspin, and sidespin, to replicate real-game scenarios. The machine incorporated a customizable control interface to adjust shot speed, placement, and frequency. With a focus on safety, user-friendliness, and an automated ball-recycling system for efficient practice, the machine aimed to enhance training for players of all skill levels, from beginners to professionals.

Specifications and working of product:

The product consist of a Shooting Wheel, a 12V 7Amp DC motor, Regulator for DC Motor, 12V 2Amp AC/DC converter, Black pimped rubber, a 12V 2A oscillator motor, Ball Feeder, Delivery pipe. The construction and operation of a tennis ball launcher involve several key components working in sync. The device is powered by an electrical connection, providing the necessary energy for operation. Users can adjust various settings, such as speed, spin, and trajectory, to tailor the practice session to their specific needs. When powered on, the motor drives the rotation of the shooting wheel, which generates the centrifugal force required to launch the tennis balls. The balls are fed into the loading mechanism, which ensures a steady supply, and from there, they move into the feed system of the shooting mechanism. As the ball comes into contact with the fast-rotating wheel, it gains the energy needed for propulsion. Finally, the ball is launched with the preconfigured variations, delivering an accurate, dynamic,

and customizable practice experience for tennis players, allowing them to improve their skills through consistent and precise ball delivery.

Product:



Application:

This product can be integrated into training routines for both professional players and amateur enthusiasts, offering a consistent and varied range of spins and shot types. Training centers can use it to help players at all skill levels develop their reflexes, ball control, and shot accuracy, making it an essential tool for progressive skill development.



Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

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And Affiliated to University of Mumbai

3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge (patents filed, published, incubation center facilities in the HEI to be considered)

INDEX

3. PROJECT EXHIBITION / COMPETITION

Sr. No.	Name of The Department	Year
1	Department of Civil Engineering	2023-24
2	Department of Computer Engineering	
3	Department of Compute Science & Engineering (AIML)	
4	Department of Electrical Engineering	
5	Department of EXTC Engineering	
6	Department of Mechanical Engineering	

PROJECT EXIHIBITION

AAKAAR 2K24



Department of Civil Engineering, VIVA Institute of technology conducted Project Exhibition/Project Competition on 05/04/2024.

Total 40 groups participated in the exhibition from across various institutes. The display of projects was arranged at 4 different venues. Environmental lab, survey Lab, Transportation lab, Geotechnical lab - Ground floor and in the main building.

Various Industry persons also attended the project exhibition and appreciated students for their good work and also gave their feedback to students on various Projects.



STUDENT AND FACULTY COORDINATOR



WhatsApp Video 2024-04-05 at 11.16.11 AM.mp4

INAUGURATION CEREMONY



PRIZE DISTRUBATION



Department of Computer Engineering

Topic Name:	Imperia 2023
Name of the Judge:	Ms. Shreya Bhamare
Designation:	Assistant Professor
Organization/Institution:	VIT
Name of the Judge:	Ms. Pradnya Mhatre
Designation:	Assistant Professor
Organization/Institution:	VIT
Date:	5th April 2023
Time:	9:30 AM onwards

Programme Summary/Details:

The CSI-VIVA successfully organized the event on “**Imperia 2024**” at the Computer Engineering Department, VIVA Institute of Technology. Imperia is a place where our department's students present their major and mini projects. It provides students with an excellent opportunity to expand their stockpile of skills while also boosting their confidence with the aim of encouraging innovative and practical projects among students. Our team participated in the competition with a project titled. The event was conducted for the students to share their technical knowledge to our judges and faculty members.





Late Shri. Vishnu Waman Thakur Charitable Trust's

VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai

At- Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar – 401 305.

Tel.: 777 000 2544 • Website : www.viva-technology.org

E-mail: contact@viva-technology.org / principalvit@vivacollege.org

Department of Computer Science and Engineering (AI & ML)

Topic Name: ENGINEOUS 2024
Name of the Judge: Mr. Alvin Prajapati
Designation: Company Director
Organization/Institution: VIT
Date: 5th April 2024
Time: 9:30 AM onwards

Programme Summary/Details:

On [5/4/2024], Viva Institute of Technology organized a Mini Project Competition which proved to be a resounding success. The event, aimed at showcasing the creativity and innovation of students, was held in the college VIVA institute of technology. The ceremony set the tone for the rest of the event, creating a sense of excitement and anticipation among the participants and attendees. The Mini Project Competition featured a diverse range of projects, covering areas such as technology, engineering, social sciences, and more. The participants, comprising students from various disciplines, presented their projects with enthusiasm and passion, highlighting their research, methodology, and findings.



PROJECT EXHIBITION / PROJECT COMPETITION

ACADAMIC YEAR 2023-24

The Department of Electrical Engineering at VIVA Institute of Technology hosted a remarkable Project Exhibition/Project Competition on the 5th of April 2024. This event witnessed enthusiastic participation from 31 groups representing various institutes. The exhibition showcased innovative projects across four distinct venues: AC Machine Lab, Power Electronics Lab, Measurement Lab, and Communication Lab.

The event was graced by the presence of esteemed industrial professionals who actively engaged with the students' projects. Their presence added significant value to the event, providing students with insightful feedback and encouragement.



Major Project Winners			
Rank	Name of Students	Title of Project	Name of Institute
1	Raj Mirani	SEMBIOT	St. Francis Institute of Technology.
2	Rewale Jay Pravin	Modular Electric Wheelchair for Handicap	VIVA Institute of Technology
	Shukla Harsh Rajesh		
	Saroj Raj Pradeep		
3	Naik Aakash Jitendra	Advance Prosthetic limb replicated bionic Arm for functional restoration of Amputies	VIVA Institute of Technology
	Solanki Sahil Trikam		
	Patil Shraddha Kailas		
Mini Project Winners			
Rank	Name of Students	Title of Project	Name of Institute
1	Hardik Prajapati	Centralized Smart Home Dashboard for Real-Time Energy Monitoring & Seamless Control System	St. Francis Institute of Technology.
	Darpan Prajapati		
	Shardul Rane		
2	Prachi Madadkar	Surveillance Bot for hotspot detection and switchyard monitoring	St. Francis Institute of Technology.
	Omkar More		
	Divyanshu Modi		
	Yash Dube		
3	Mrigal Prasad Umesh	Translate sign Language into Speech	VIVA Institute of Technology.
	Gawade Pratik		
	Kirve Prathamesh		
	Parsekar Viraj		

Major Project Winner's

**1st
Prize Winner**



**2nd
Prize Winner**



**3rd
Prize Winner**



Mini Project Winner's



**1st
Prize Winner**

**2nd
Prize Winner**



**3rd
Prize Winner**



ELECTRONICS AND TELECOMMUNICATION

Topic Name: Convergence: Project Competition
Name of the Judges: Vinayak Mavarkar
Designation: Executive R & D.
Organization/Institution: Eos Power India pvt Ltd.
Date 05/04/2024

Programme Details:

Oscillations-Convergence 2024 is an inter collegiate event which include different track as Major project , Minor project , Poster making and Reel making competition. Various colleges took part in the competition. Students of EXTC branch were competing in 4 fields of competition at VIVA Institute of Technology.

The major project competition was organised specially for the BE students who showcased their final major projects. In the minor project competition TE and SE students were competing. In poster making competition students showcased their projects in the form of attractive posters which provided information about their projects. Reel making competition was an interesting one and was judged on the basis of virality factor of the video.

Indeed it was an amazing event where different projects related to different topics were at display like robots, IOT based, drones, software based systems. The event ended with the deserving projects winning exciting cash prizes. Total 66 participants participated. Registration was done form 3 external colleges.

Photos







Department of Mechanical Engineering

MechXplore Project Competition

Date: 05 / 04 / 2024
Time: 10.00 Onwards
Event Coordinator: Mr. Pratik Raut and Mr. Priyank Vartak
Student Coordinator: Smit Thakur, Ashish Kudu

Programme Summary/Details:

MechXplore project competition was organized by the Department of Mechanical Engineering at VIVA Institute of Technology on April 5th, 2024. The event provided students from various colleges an opportunity to present their project ideas to industry experts from different domains.

Dr. Niyati Raut, the HOD of Department of Mechanical Engineering, inaugurated the competition in the presence of participants and faculty members from the department. A total of 29 groups had registered for the Major Project category, and 14 groups had registered for the Mini Project category in the competition, which was judged by Mr. Pramod Shetty from "Sams TechnoMech Pvt. Ltd.", Mr. Subodh Joshi from "Creative Engineering Works, Vasai".

The first prize in Major Project category was awarded to the project "Design & Fabrication of Table Tennis Machine," while the second and third prizes went to "Study of Modules and Process Optimization in Warpp Industry" and "Design and Development of Modified Girder Suspension System to Improve the Stability of Motorcycle." respectively. Also, the first prize in Mini Project category was awarded to the project "Iot Based Earthquake Detection System" while the second and third prizes went to "Mini Flexible Shaft Grinder" and "Automatic White Board Cleaner" respectively.

A special thanks to Mr. Rajkumar Devkar for inviting the guests from the industries.



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Photos:

Vishnu Waman Thakur Charitable Trust's
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And Affiliated to University Of Mumbai
NAAC Accredited with B++ Grade

DEPARTMENT OF MECHANICAL ENGINEERING
PRESENTS

MECH X PLORE

PROJECT COMPETITION

TEST YOUR SKILLS!

05 TH APRIL 2024
09:00 AM ONWARDS

Participate in any one of the route:

- Major Project (For BE students)
- Mini Project (For FE, SE and TE students)
- Registrations ends on: 01 April 2024

FREE ENTRY
FREE ENTRY
FREE ENTRY

SCAN TO
REGISTER

QR CODE

Student Co-ordinators
Tejas Jagdale 7558707892
Sheetal Gupta 7303816196
Sairaj Shinde 9372539560



3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge (patents filed, published, incubation center facilities in the HEI to be considered)

INDEX

4. RESEARCH AND INCUBATION

Sr. No.	Contents
1	VISION AND MISSION
2	POLICY
3	OUTCOMES
4	NOTICE 2023-24
5	MINUTES OF MEETING



4. RESEARCH AND INCUBATION

VISION

- To be a leading promoter of innovation and entrepreneurship that fosters
- synergy between the innovator, academia, and the industry to create a startup
- ecosystem.

MISSION

- To motivate, build and promote out of the box thinking and development of innovative ideas.
- To create an ecosystem in campus to nurture innovation for promoting entrepreneurship through industry collaborations by providing incubation facilities and services for greater social impact.
- To promote activities related to Ideation, Pre-incubation and Incubation to support startups



POLICY

- Focus on evaluation of learning outcomes and motivate students to inculcate research aptitude by project based learning.
- Identify' based on informed perception of Indian, regional and global needs, areas of focus and provide platform to gain knowledge and solutions.
- Offer opportunities for interaction between academia and industry.
- To orient students and faculty towards research and innovation.
- To facilitate students to convert their ideas into Technological Innovations and incubate starts up.
- To provide facility to students to build prototypes useful for promotion of Agricultural Rural development.
- To conduct workshops on emerging trends in technology.
- To prepare and impart guidance to students to take active participation in various competitions.
- To encouraged students and faculty for research work and industry based Project.
- To gain hands on experience and better industrial exposure through industry based project.
- Provided financial assistance in terms of seed money for projects competition.



OUTCOMES

- Undertake problem identification, formulation and solution.
- Search appropriate literature for conceptual basis of research.
- Design engineering solutions to complex problems utilizing a system approach.
- Conduct an engineering project.
- Communicate with engineers and the community at large in written and oral forms.
- Demonstrate the knowledge, skills and attitudes of a professional engineer.
- Participate in the projects in industries during his or her industrial training.
- Prepare professional work reports and presentations.
- Identify and formulate problem, and design required setup to carry out a research.
- Enlist the research methodology tools for data collection and analysis.
- Create a time frame for completing the project.
- Communicate the research summary, research gaps and research objectives through an effective report.
- Signed Memorandum of Understanding (MoU) with the industry for transfer of knowledge for the overall development of students.



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At: Shirgaon, Post-Virar (E.), Tal-Vasai, Dist-Palghar - 401 305.
Tel.: 777 000 2544 • Website: www.viva-technology.org
NAAC "B++" Grade

Ref. No. VIVA VIT /1742A/2023-2024,

Date: 17/01/2024

NOTICE

All the Members of Research and Incubation center are hereby informed that attend a meeting on 25th January 2024 at 3.30 pm. in Research and Incubation Center, Room No. A-105.

List of Members of Research and Incubation Centre is as under.

Sr.No.	NAME	DESIGNATION
1	Dr. Arun Kumar	Chairperson
2	Dr. Kiran Jadhao	Coordinator
3	Dr. Archana Ingle	Member
4	Mrs. Karishma Raut	Member
5	Mr. Bhushan Save	Member
6	Mr. Chandani Patel	Member
7	Mrs. Ashwini Save	Member
8	Mr. Akshay Mistry	Member
9	Dr. Ajazul Haque	Member
10	Dr. Deepak Sajnekar	Member
11	Mr. Janhavi Sangoi	Member
12	Ms. Nutan Malekar	Member

Agenda

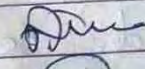
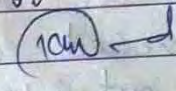
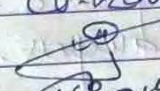
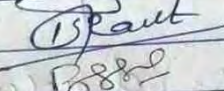
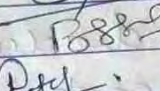
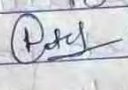



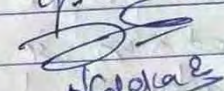
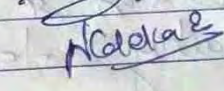
- Introduction and welcomed by Chairman, Research and Incubation center
- VIVA Institute of technology, Virar (East).
- Discussion on motivating faculty and students for innovative activities in the campus.
- Discussion on awareness among the students for active participation in various project competition at local, national and international level.
- Any other matter with permission of chair.


Principal
Dr. Arun Kumar

CC to:
All HODs - (Civil / Comp / EXTC / Elect/ Mech/ FE)
Office
Notice Board

A meeting of Research and Incubation Committee members was held on 25/1/24 at 3.30 pm in A-105 Room No. VITA Institute technology, Virar (E).

The following members were attended the meeting.

1. Dr. Azun Kumar - Chairman - 
2. Dr. Kiran Tadha - Co-moderator - 
3. Mrs. Archana Jogle - 
4. Mrs. Karishma Raut - 
5. Mr. Bhashan Save - 
6. Mrs. Chandani Patel - 
7. Dr. Ashwini Save - 
8. Mr. Arshay Mirbly - 
9. Dr. Ajazul Haque - 
10. Dr. Deepar Sajnekar - 
11. Mrs. Nutan Malakar - 

The Chairman of VIT Research and Incubation Committee of VIT, Virar welcomed all the members and meeting Commence.

Following points were discussed and noted

(1) It was discuss to motivate and encourage students and faculty members for innovative activities in the Campus. Student should be given an opportunity to learn outside the classroom environment. This will help them to develop new ideas and implement those ideas in developing minor or major projects.

(2) It was also decided to develop awareness among the students to participate in forthcoming event local, national and University level. This help them for their overall development.

(3) It was expressed to prepare teams of students like Anshika, Anvesha, A+VC Bija

Eyanta and Hackedon. It was emphasized to involve all students to develop new ideas and innovative work in various departments for Techchase event in the coming month.


<4> Student should be given an opportunity to prepare creative work in all respective research laboratories in the institute. Also they should be supported by the faculty members and provided with required facilities in the campus or outside the campus.

<5> It was also decided to motivate all students for writing research papers and publish in national and international journals of high repute.

<6> It was also propose to organize an intercollege project competition in our Campus which will help to grow healthy technical environment in the Campus.

<7> Students should be encouraged to take an industry based project which allows them to apply their knowledge and skill to actual industry problems and for such projects students will be guided and mentored by faculty members during project.

<8> The meeting was ended with vote of thanks by Dr. Kiran Tadhar


CHAIRPERSON



3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge (patents filed, published, incubation center facilities in the HEI to be considered)

INDEX

5. INDUSTRIAL PROJECT CERTIFICATES

Sr. No.	Name of the Industry	Title of the Project	Academic Year	Depart
1	R G Enterprise Software Solution	RoadEye - A Safer Drive	2023-24	Comp
2	Sudha Health Care Private Limited	IVigilance - Intravenous Drip Monitoring and Controlling system	2023-24	Comp
3	Reyansh Clinic	COGNAVI- Real Time Crowd Oversight and Vacancy Notification	2023-24	Comp
4	Kryp Media Pvt. Ltd.	Expersion Chatbot	2023-24	Comp
5	Swastik Spaces Limited	Nisarchana	2023-24	Comp
6	TEKNIC ENGINEERING(I) PRIVATE LIMITED	NI-SPARSH - Invisible Mouse And Voice- Controlled AI Assistant	2023-24	Comp
7	Kryp Media Pvt. Ltd.	SMARTEYE 360	2023-24	Comp
8	WARPP ENGINEERS PVT. LTD.	Study of modules and process Optimization Using AVIX Suite	2023-24	Mech
9	Civil Contractor	Design and Fabrication of Mini Gang Saw Laterite Cutting Machine	2023-24	Mech
10	MANISH FASTNERS	The Process Improvement at Cold Forging Industry	2023-24	Mech
11	CREATIVE Engineering Works	Process Optimisation In MSME Industry	2023-24	Mech
12	UDAMA INDUSTRIES INDIA PVT. LTD.	Factory Optimization by Time Motion Study	2023-24	Mech



R.G ENTERPRISE
Software Solutions

Mumbai, India 📍
+91 7276029168 📞

Date : 05 April, 2024

To,
VIVA Institute of Technology,
Department of Computer Engineering,
Shirgaon, Virar (East)
Taluka - Vasai, District - Palghar, Maharashtra,
Pincode - 401305

To Whom It May Concern

Respected Sir/Madam,

With reference to the application from our esteemed organization, I am pleased to inform you that the following students from your college have been granted permission to implement their final year B.E. project with us from **02/03/2024** to **02/04/2024**.

Name of the students:

1. Rohit Ghorui (Roll no: 16)
2. Sakshi Negi (Roll no: 17)
3. Vinay Chippa (Roll no: 18)

We assure you that our organization will provide guidance and support to the students throughout their project duration as and when needed.

Thank you for entrusting us with this opportunity to collaborate with your institution. We are looking forward to a fruitful partnership and a successful project implementation.

Warm regards,



Ritesh Ghorui,
Chief Technical Officer,
R.G Enterprise



R.G. ENTERPRISE
Software Solutions

Mumbai, India 📍
+91 7276029168 📞

Date : 05 April, 2024

To,
VIVA Institute of Technology,
Department of Computer Engineering,
Shirgaon, Virar (East)
Taluka - Vasai, District - Palghar, Maharashtra,
Pincode - 401305

To Whom It May Concern

Respected Sir/Madam,

We are pleased to inform you that the following students have successfully completed their Final Year Project for B.E., Computer Engineering Academic Year 2023-24, titled "**RoadEye - A Safer Drive**" in our organization.

Name of the students:

1. Rohit Ghorui (Roll no: 16)
2. Sakshi Negi (Roll no: 17)
3. Vinay Chippa (Roll no: 18)

Thank you for your support and cooperation throughout the project.

Sincerely,



Ritesh Ghorui,
Chief Technical Officer,
R.G Enterprise



सुधा हेल्थ केअर प्रा. लि. संचालित
मल्टी-स्पेशलिटी हॉस्पिटल
व क्रिटिकल केअर सेंटर

50, जयहिंद कॉलनी, नकाणे रोड, देवपूर, धुळे - 424 002.
☎: 02562 - 226969 / 226970

To,
Dr. Arun Kumar,
Principal,
VIVA Institute of Technology,
Virar (East)-401305.

Subject: - Permission for BE Final Year Project.

Respected Sir,

This letter verifies that (**Mangesh Ramashankar Ram, Harshal Maharu Patil, Vrunal Sandesh Gharat**) Students of Final year Bachelor of Computer Engineering at VIVA Institute of Technology, Virar (East) are interested in doing project with Sudha Multi Specialty Hospital, Dhule.

Sudha Multi Specialty Hospital (Dhule) is permitting these students to do project entitled "**IVigilance – Intravenous Drip Monitoring and Controlling System.**"

Sudha Health Care Private Limited

Director

Dr. Milind Patil

Consulting General Surgeon

Reg. No. 2005/02/01185

M.S. (General Surgeon)

Date: - 26/03/24

To,

Department of Computer Engineering,
VIVA Institute of Technology,
Shirgaon, Virar (East),
Mumbai-401305.

To Whom It May Concern

Respected Sir/Maam,

This is to inform you that the following students have successfully completed their Final Year Projects for BE Computer Engineering Academic Year 2023-24 title **"IVigilance - Intravenous Drip Monitoring and Controlling System"** in Sudha Multi Specialty Hospital, Dhule.

All the details of students are given below.

Sr. No.	Name of the Student	Roll No.	Contact No.
1	Mangesh Ramashankar Ram	25	7304075667
2	Harshal Maharu Patil	26	7710005027
3	Vrunal Sandesh Gharat	27	9373463168

Dr. Milind Gulabrao Patil
Consulting General Surgeon
Reg.No.2005 / 02 / 01185
M.S. (General Surgeon)

Sudha Health Care Pvt.Ltd
Sudha Multispeciality Hospital
and Critical Care Center
50, Jaihind Colony, Nakane Road
Deopur, DHULE - 2
Ph.No. (02562) 226969
Reg.No. DMC/BNA/SDM-178



Name :

Date *02/04/2024*

Address :

Age / Sex :

Rx

HEIGHT

WEIGHT

BMI

PULSE

BP

TEMP

CVS

RS

P/A

CNS

ADVICE

To,
VIVA Institute of Technology,
Department of Computer Engineering,
Shirgaon, Virar (East)
Taluka - Vasai, District - Palghar, Maharashtra,
Pin Code - 401305

To Whom It May Concern

Respected Sir/Maam,

With reference to the application in our organization by the following students of your college, for implementing the project of last year of B.E. in Computer Engineering, are interested in doing a project with us we have permitted them for the same, from date 4/03/2024 to 22/03/2024 in our clinic

We assure you that our team will be guiding you as and when needed.

Name of the Students:

Chaitanya Pawar - Roll no: 28
Anuradha Dhumwad - Roll no: 29
Kashish Chauhan - Roll no: 30



DR. NILESH WANI
MD (MED)
CONSULTING PHYSICIAN
CARDIOLOGIST
Reyansh Clinic, Flat No. 2, Refreda CHS,
Next To Holy Family Church,
Chakala Junction Andheri (E), Mumbai-400082.

ECG • STRESS TEST • 24 HR ABPM • 24 HR CGM • PFT

Mob. : 7303707733



Name :
Address :

Date : 02/11/2024
Age / Sex :

HEIGHT
WEIGHT

BMI

PULSE

BP

TEMP

CVS

RS

P/A

CNS

ADVICE

To,
VIVA Institute of Technology,
Department of Computer Engineering,
Shirgaon, Virar (East)
Taluka - Vasai, District - Palghar, Maharashtra,
Pin Code - 401305

To Whom It May Concern

Respected Sir/Maam,

This is to inform you that the following students have successfully completed their Final Year Project for B.E., Computer Engineering Academic Year 2023-24, titled "COGNAVI- Real Time Crowd Oversight and Vacancy Notification" in our clinic.

To,
Name of the Students:
Chaitanya Pawar - Roll no: 28
Anuradha Dhumwad - Roll no: 29
Kashish Chauhan - Roll no: 30
Pin Code - 401305

ern DR. NILESH WANI

MD (MED)
have successfully completed
Academic Year 2023-24, titled
Notification" in our clinic.

DR. NILESH WANI
MD (MED)
CONSULTING PHYSICIAN
CARDIOLOGIST

Reyansh Clinic, Flat No. 2, Refreda CHS,
Next To Holy Family Church,
Chakala Junction Andheri (E), Mumbai-400093.



DR. NILESH WANI

ECG • STRESS TEST • 24 HR ABPM • 24 HR CGM • PFT

Mob. : 7303707733

ExperientialEtc
New Link Road,
Malad West- 400064

To,
Principal
Dr. Arun Kumar
Viva Institute of Technology

Subject: - Permission for BE Final Year Project

Respected Sir,

This letter verifies that (Alisha Harshad Raut, Ayushi Devidas Shet, Om Rajan Loyare) student of final year Bachelor of Computer Engineering at Viva Institute of Technology, Virar (East) are interested in doing project with our company ExperientialEtc.

ExperientialEtc is permitting these Students to do project entitled "Expersion Chatbot"

ACIPDA
Signature from company



Ref:KMPL-2023-24

TO WHOMSOEVER IT MAY CONCERNED

Dear,

I am writing this letter to extend my appreciation presenting of “Expersion Chatbot” by **Alisha Harshad Raut, Ayushi Devidas Shet, Om Rajan Loyare** student of Final Year Bachelor of Engineering at Viva Institute of Technology, Virar (East) under the guidance of **Prof. Bhavika Thakur** with great efficiency which is completed in all Respects. The fact and figures presented by the students in the completion of this project is truly commendable. The efforts and professionalism towards the project is highly appreciated. The project is very helpful for the company.


Signature from  Company

To,
Dr. Arun Kumar,
Principal
VIVA Institute of Technology,
Virar (East) -401305.

Subject: - Permission for BE Final Year Project

Respected Sir,

This letter verifies that **(Aryan Manish Raut, Amarjit Govind Vishwakarma, Santosh Bamraj Pal)** Students of Final year Bachelor of Computer Engineering at VIVA Institute of Technology, Virar (East) are interested in doing project with Swastik Group, Virar.

Swastik Group (Virar) is permitting these students to do project entitled **“Nisarchana”**.



Swastik Spaces Limited

through its Authorised Signatory

Date: - 04/04/2024

To,

Department of Computer Engineering,
VIVA Institute of Technology,
Shirgaon, Virar (East),
Mumbai-401305.

To Whom It May Concern

Respected Sir/Maam,

This is to inform you that the following students have successfully completed their Final Year Projects for BE Computer Engineering Academic Year 2023-24 title “Nisarchana” in Swastik Group, Virar.

All the details of students are given below.

Sr. No.	Name of the Student	Roll No.	Contact No.
1	Aryan Manish Raut	43	9637342340
2	Amarjit Govind Vishwakarma	44	8850499374
3	Santosh Bamraj Pal	45	7304284215



Swastik Spaces Limited
through its Authorised Signatory

TEKNIC ENGINEERING

To,
VIVA Institute of Technology,
Department of Computer Engineering,
Shirgaon, Virar (East)
Tal-Vasai, Dist-Palghar, Maharashtra,
PIN-401305

Date:04.04.2024

To Whom It May Concern

Respected Sir/Maam,

With reference to the application in our organization by the following students of your college, for implementing the project of last year of B.E. in Computer Engineering, are interested in doing a project with us we have permitted them for the same, from date 26/01/2024 to 26/03/2024 in our company.

We assure you that our team will be guiding you as and when needed.

Name of the Students:

Full Name of Student 1: Shreyash Patil	Roll no: 59
Full Name of Student 2: Jayesh Deore	Roll no: 58
Full Name of Student 3: Sarfaraz Kanganolli	Roll no: 57

Thanking you,
Yours faithfully,

For TEKNIC ENGINEERING (I) PRIVATE LIMITED

Kavita Bhatnagar
Authorized Signatory



TEKNIC ENGINEERING (I) PVT.LTD.

79, Marol Co-Op. Industrial Estate, M.V. Road, Andheri (E), Mumbai-400059.
022 42533500 (Board Line) teknico@teknico.co.in

CIN NO. U31401MH2012PTC232884

A VISION OF TEKNIC ELECTRIC

www.teknico.co.in

TEKNIC ENGINEERING

To,
VIVA Institute of Technology,
Department of Computer Engineering,
Shirgaon, Virar (East)
Tal-Vasai, Dist-Palghar, Maharashtra,
PIN-401305

Date:04.04.2024

To Whom It May Concern

Respected Sir/Ma'am,

This is to inform you that the following students have successfully completed their Final Year Project for B.E., Computer Engineering Academic Year 2023-24, titled "NI-SPARSH – Invisible Mouse And Voice- Controlled AI Assistant" in our organization.

Name of the Students:

Full Name of Student 1: Shreyash Patil	Roll no: 59
Full Name of Student 2: Jayesh Deore	Roll no: 58
Full Name of Student 3: Sarfaraz Kanganolli	Roll no: 57

Thanking you,
Yours faithfully,

For TEKNIC ENGINEERING (I) PRIVATE LIMITED

Kavita Bhatnagar
Authorized Signatory



TEKNIC ENGINEERING (I) PVT.LTD.

79, Marol Co-Op. Industrial Estate, M.V. Road, Andheri (E), Mumbai-400059.

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CIN NO. U31401MH2012PTC232884

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www.teknic.co.in

ExperientialEtc

New Link Road,
Malad West- 400064

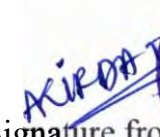

To,
Principal
Dr. Arun Kumar
Viva Institute of Technology

Subject: - Permission for BE Final Year Project

Respected Sir,

This letter verifies that (Sonali Vijay Salunkhe, Pratik Digambar Patil, Priyanshu Rajendra Yadav) student of final year Bachelor of Computer Engineering at Viva Institute of Technology, Virar (East) are interested in doing project with our company ExperientialEtc.

ExperientialEtc is permitting these Students to do project entitled
"SMARTEYE360 - Real Time Smart CCTV Surveillance System"


Signature from company 



A brand of KrypMedia Pvt.Ltd.

Ref:KMPL-2023-24

TO WHOMSOEVER IT MAY CONCERNED

Dear,

I am writing this letter to extend my appreciation presenting of "SMARTEYE360 - Real Time Smart CCTV Surveillance System" by **Sonali Vijay Salunkhe, Pratik Digambar Patil, Priyanshu Rajendra Yadav** student of Final Year Bachelor of Engineering at Viva Institute of Technology, Virar (East) under the guidance of **Prof. Akshata S. Raut** with great efficiency which is completed in all Respects. The fact and figures presented by the students in the completion of this project is truly commendable. The efforts and professionalism towards the project is highly appreciated. The project is very helpful for the company.



Signature from Company

**Date: 22.03.2024**

To,

To Whomsoever It May Concern

This is to certify that the following **students “Mr. Nitish Bhawani Prasad Shukla”** (UCN No. MBD2126), **“Mr. Swastik Murlidhar Shukla”** (UCN No. MBD2127), **“Mr. Anil Ramasare Varma”** (UCN No. MB2036), of B.E. (Mechanical Engineering) of VIVA Institute of Technology, Virar have completed their Industrial Project titled **“Study of modules and process Optimization Using AVIX Suite”** under mentorship of my firm dated from August 2023 to March 2024 during the academic year 2023-2024 as partial fulfilments of the BE (Mechanical Engineering) course. The project report is the result of efforts and endeavours.

The project is found worthy of acceptance. We wish them good luck for their future.

For Warpp Engineers Pvt Limited,

Authorized Signatory.



Date: 06/04/2024

To,

To whomsoever It May Concern

This is to certify that the following students "Ms. Prachiti Ganesh Prajapati" (UCN No. MBD2111), "Mr. Shreyas Shivaji Sawant" (UCN No. MBD2118), "Mr. Tejas Laxman Sawant" (UCN No. MBD2119), of B.E. (Mechanical Engineering) of VIVA Institute of Technology, Virar have completed their Industrial Project titled "Design and Fabrication of Mini Gang Saw Laterite Cutting Machine" under mentorship of my firm dated from August 2023 to April 2024 during the academic year 2023-2024 as partial fulfilments of the BE (Mechanical Engineering) course. The project report is the result of efforts and endeavours.

The project is found worthy of acceptance. I wish them good luck for their future.

For,

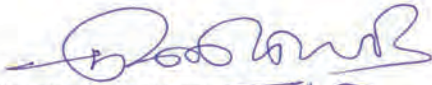


Civil Contractor

Shri. Santosh Mahadev Sawant

At. Post-Kalse, Tal. Malvan, Sindhudurg.

PH. (02365)255709 Mob. 9422633519



Authorized Signatory.

Office: At Post Kalse Taluka Malvan District Sindhudurg – 416605
Tel: 02365255709
Mobile: 9422633519
Email: sawantsantosh.605@gmail.com

MANISH FASTNERS

Fact.: Gala no 51 & 52, Plot No. 53-54, Near Choudhary Khadan, Bilalpada, Waliv, Vasai(E) 401208

Office : 001, Shreyash Apt., Mhatre Rd., Goddev Gaon, Bhayander (E) 401105

Contact: Rajkumar Devkar (8097376078)

e-mail: sales@manishfastners.com

Ref. No.: MF/0011/2024-25

Date: 25th April 2024

To whomsoever it may concern

Certificate of Completion

This is to certify that **Mr. Vedant Dhananjay Bijutkar(MAD2106), Mr. Devang Manish Chaudhari (MAD2109), Mr. Varun Bhargav Kawli(MAD2126)**, students of final year Mechanical Engineering of VIVA Institute of Technology, Virar (E) has successfully completed, **"The Process Improvement at Cold Forging Industry"** Project.

Date of Completion: 25th April 2024.

Duration of the project: six months

For MANISH FASTNER:



Proprietor

Rajkumar V. Devkar
(M.D.)



Manufacturers of Machine Screws, Grub Screws, Self Tapping Screws, Bolts.

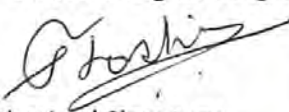
Date: 01/04/2024

To Whomsoever It May Concern

This is to certify that the following students "Mr. Sunny Vinod More" (UCN No. MB2001), "Mr. Manish Satish Raut" (UCN No. MBD2112), "Mr. Utkarsh Ravindra Tiwari" (UCN No. MBD2132), of B.E. Mechanical Engineering of VIVA Institute Of Technology, Virar have completed their Industrial Project titled "Process Optimisation In MSME Industry" under the mentorship of my firm dated from October 2023 to March 2024 during the academic year 2023-2024 as partial fulfilments of the BE Mechanical Engineering course. The project report is the result of efforts and endeavours.

The project is found worthy of acceptance. We wish them good luck for their future.

For Creative Engineering Works


Authorized Signatory.





UDAMA INDUSTRIES INDIA PVT. LTD.

Unit # 1A, 1B Asian Industrial Hub Survey #80 , Beside Kt Resort,
Shirsad , Virar East , Dist. Palghar 401 305 , Maharashtra.

Email : udama.industries@gmail.com / udama.sales@gmail.com • Website : www.udamaindustries.com

Date : 18/04/2024

To,

To Whomsoever It May Concern

This is to certify that the following students "**Mr.Dheeraj Ramdas Gharat**" (UCN No. MAD2116), "**Mr. Himanshu Ravindra Kamble**" (UCN No. MAD2123), "**Mr. Jay Shantaram Kini**" (UCN No. MAD2128), of B.E. (Mechanical Engineering) of VIVA Institute of Technology, Virar have completed their Industrial Project titled "**Factory Optimization by Time Motion Study**" under mentorship of my firm dated from October 2023 to March 2024 during the academic year 2023-2024 as partial fulfilments of the BE (Mechanical Engineering) course. The project report is the result of efforts and endeavours.

The project is found worthy of acceptance. We wish them good luck for their future.

For UDAMA INDUSTRIES INDIA PVT LTD

Authorized Signatory



3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge (patents filed, published, incubation center facilities in the HEI to be considered)

INDEX

6. NCRENB REPORT

Sr. No.	Contents
1	NCRENB Report 2024



Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology
Shirgaon, Virar (East), Tal: Vasai, Dist: Palghar-401305, Maharashtra.
Website: www.viva-technology.org

Conference Report NCRENB-2024

Conference Dates: 15th & 16th March 2024

Mode of Conference: Offline

The role of an engineer is far reaching and beyond the vistas of human thinking and imagination. The emerging technologies of communications and computing have brought about a revolution in everyday life during the 21st century. The familiar mobile phones, CD players and fax machines are being joined by digital broadcast radio and televisions which offer more channels and much clearer sound and pictures. The application of Science and Technology (S&T) is the main agent of industrial economic and social development. Universities, Public and research institutes, industry and government have to become more closely involved and aware of the importance of co-operation with S&T to promote sustainable economic, social and industrial development.

NATIONAL CONFERENCE ON ROLE OF ENGINEERS IN NATION BUILDING 2024 (NCRENB- 2024)

The main objective of the National Conference is to advance knowledge in building sciences in general and in aspects of building and construction in particular; to solve long-range problems of the building sector through methodological research and development; to provide support in solving short-term needs in areas where its expertise is crucial; and to disseminate knowledge and transfer technology.

Topics of Interest in NCRENB 2024 are as follows:

- 1 Civil Engineering
- 2 Computer Engineering
- 3 Electrical Engineering
- 4 Electronics and Telecommunication Engineering
- 5 Humanities & Applied Science
- 6 Master of Computer Application
- 7 Mechanical Engineering

NCRENB 2024 was organized in association with following University of Mumbai, VIVA-Tech IJRI and ICT Academy.

Conference Statistics:

Track wise Paper Statistics: Selection				
Track Name	TRACK	Papers	Internal Blind Review	CRC
Civil Engineering	CIVIL	28	28	28
Computer Engineering	COMP	28	28	26
Electrical Engineering	ELECT	19	19	19
Electronics & Telecommunication Engineering	EXTC	7	7	7
Humanities & Applied Science	HAS	3	3	3
Master of Computer Applications	MCA	31	31	31
Mechanical Engineering	MECH	29	29	29
Total		145	145	143

Conference Registration Statistics: Track	Total	CRC	Registered /Recovery	Non Registered
CIVIL	28	28	28	0
COMP	26	26	26	2
ELECT	19	19	19	0
EXTC	7	7	7	0
HAS	3	3	3	0
MCA	31	31	31	0
MECH	29	29	29	0
Total	143	143	143	2

Total Paper Submissions	143
Accepted Full Papers for VIVA-TECH IJRI	In process
Total Accepted Papers	143
Acceptance Rate	

Total 145 Papers were received out of which 143 Papers were accepted. The paper submission system was online managed by ncrenb@viva-technology.org. The plagiarism is checked by plagiarism checker-X software. The papers were reviewed by a panel of internal as well as external reviewers. Each paper is reviewed by minimum two reviewers. Minimum One review by internal (VIVA TECH) reviewer and one review by external reviewers were performed. All external reviewers were highly qualified & experienced persons with good expertise. All papers were finally approved by program convener Dr. Arun Kumar for uploading on VIVA-TECH IJRI and selected papers will be published in UGC care Journal.

Summary

A two-day National Conference was conducted at VIVA Institute of Technology, Virar on March 15th & 16th, 2024. VIVA INSTITUTE OF TECHNOLOGY organizes NCRENB conference every year in the month of March. The 11th National Conference on Role of Engineers in Nation Building 2024 was co-sponsored by Bank of Baroda in association with ICT academy and VIVA Tech IJRI. The NCRENB conference was started with the aim of enabling students and researchers to present their research papers to like-minded people. Some seminars are also organized on how students studying in the college can contribute to nation building. This year, a total of 143 researchers and students participated in our conference. These researchers were from different departments of Electrical Engineering, Computer Engineering, Electronics and Telecom Engineering, Mechanical Engineering, Civil Engineering, Master of Computer Application. The Conference was inaugurated by various Principals of VIVA Campus by lighting the lamp. After that Saraswati Poojan was performed. Dr. Arun Kumar, Principal, VIVA Institute of Technology guided the dignitaries in the hall. After that, Mr. Manish Sharma, CTO, Kanalytics (Kailasa Analytics & Services Pvt Ltd) guided the students on "Cloud Computing". After that, the students went to different departments and presented their research papers. This conference was concluded on March 16, 2024. Prizes were awarded to the best papers in each section at the closing ceremony and Best Student of the year Award was announced.

Overall Response:

Expected delegates: 145 (Registered)

Total delegates : 15 (Attended)

Percentage turn out : 160

Total Resource persons : 16

Events organized

Paper presentation - 143 papers

Feedback

Rated very high with the following notes from the delegates:

- a) Good technical contents and research oriented.
- b) Though creativity was there, need to be enhanced.
- c) Hospitality was excellent.
- d) Cooperative staff members.

Prepared By:

Prof. Archana Ingle

(NCRENB 2024, Co-Convener)

Prof. Karishma Raut

(NCRENB 2024, Co-Ordinator)

Prof. Meena Perla

(NCRENB 2024, Program Committee)

Approved By:

Dr. Arun Kumar

(NCRENB 2024-Convener)

(Principal – VIVA Institute of Technology, Mumbai, Maharashtra)

Date: 18/03/2024

Place: VIVA-TECH, Mumbai, Maharashtra.



Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra
And Affiliated to University of Mumbai

3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge (patents filed, published, incubation center facilities in the HEI to be considered)

INDEX

7. PLAGIARISM SOFTWARE

Sr. No.	Contents
1	PLAGIARISM SOFTWARE



Req No: 1938

Principal Vit <principalvit@vivacollege.org>

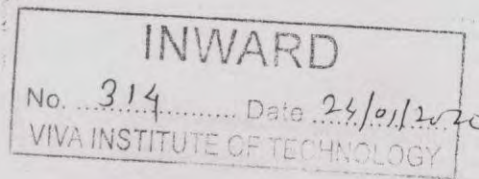
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Late Shri. Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra, Affiliated to University of Mumbai

At. Shirgaon, Post Virar, Tal. Vasai, Dist. Palghar - 401 305.

Tel.: 777 000 2544 • Website : www.viva-technology.org

E-mail : contact@viva-technology.org / principalvit@vivacollege.org

WO.NO. 75

Ref. No.: Ref/ VIVA VIT/ 75/2019-20

Date : 23/01/2020

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Total			Rs.10,515.19/-
Sales Tax/VAT			Rs.1,899.21
(Rs.Twelve Thousand Four Hundred & Fifty One Only) Grand Total-			Rs.12,450.40/-

*As per Your quotation, Payment will be made by Card.



Principal: Dr. Arun Kumar



Late Shri Vishnu Waman Thakur Charitable Trust's
Institute of Technology
 Approved by AICTE New Delhi, Affiliated to University of Mumbai
 At : Shirgaon, Post. Virar, Tal. Vasai, Dist. Thane - 401 303.
 Tel. : 0250 - 6990999 / 6965628

Date : 22/01/2020

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Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra
And Affiliated to University of Mumbai

3.2.1 Institution has created an ecosystem for innovations and has initiatives for creation and transfer of knowledge (patents filed, published, incubation center facilities in the HEI to be considered)

INDEX

7. INSTITUTION INNOVATION COUNCIL (IIC)

Sr. No.	Contents
1	Establishment Certificate
2	Resolution



CERTIFICATE

This is to certify that

Late Shri. Vishnu Waman Thakur Charitable Trust VIVA INSTITUTE OF TECHNOLOGY, Thane

**has established Institution Innovation Council(IIC) as per the norms of Innovation Cell,
Ministry of Education, Govt. of India during IIC Calendar year 2021-22**

Prof. Anil D. Sahasrabudhe
Chairman, AICTE

Dr. Abhay Jere
CIO, MHRD,
Innovation Cell

Date : 25-04-2022

Certificate No : 7272



Vishnu Waman Thakur Charitable Trust's
VIVA Institute of Technology

Approved by AICTE, New Delhi, DTE, Government of Maharashtra
and Affiliated to University of Mumbai

Shri. Hitendra V. Thakur
President

Ms. Aparna P. Thakur
Secretary

Dr. Arun Kumar
Principal

Ref. No. : VIVA / VIT / 47450 / 2023 - 24

Date : 21/08/2023

The council meeting of Institution's Innovation Council (IIC), VIVA Institute of Technology was called by IIC President, Dr. Niyati Raut on 24/08/2023 to discuss upon the formulation and function of IIC for academic year 2023-2024 & to assign roles and responsibility among newly joined council members as per the guidelines of Ministry of Education's Innovation cell.

As per the decision of competent authority, following members will be the part of IIC;

Sr. No.	Name of Member	Member Type (Teaching/ Nonteaching /Student/External Expert)	Key Role/ Position assigned in IIC
1	Dr. Arun Kumar	Principal	Convener
2	Dr. Niyati Raut	Faculty	President
3	Dr. Deepak Sajnekar	Faculty	Startup Activity Coordinator
4	Dr. Brijesh Joshi	Faculty	IPR Activity Coordinator
5	Dr. Kiran Jadhao	Faculty	Innovation Activity
6	Mr. Swapnil Raut	Faculty	Social Media
7	Mr. Mayur Jagtap	Faculty	Internship Activity Coordinator
8	Mr. Abhijit Wasave	Industry Expert	Member
9	Mr. Prashik Prakash Ubale	Student -CSE (AIML)	Social Media Coordinator
10	Mr. Aakash Ramu Prajapati	Student Civil Engg.	Internship Coordinator
11	Mr. Omkar Kargutkar	Student -Electrical Engg.	Innovation Coordinator
12	Mr. Anant Dinesh Chawda	Student-Computer Engg.	Startup Coordinator
13	Mr. Niuraj Janardan Dhadve	Student-EXTC Engg.	IPR Coordinator
14	Mr. Sairaj Shinde	Student - Mechanical Engg.	Member

The council members discussed about the activities (IIC calendar, Celebration and Self-Driven) and features of IIC portal. The council members also discussed about collaborations within and outside the institution to accelerate the activities of IIC. The council also deliberated on quarterly action plan in synchronisation with activities and initiatives of other departments, centres and facilities in the Institute working towards promoting IPR, Innovation, Entrepreneurship and Start up.

The council unanimously decided to carry out all the IIC activities in regular basis throughout the year and meet regularly in beginning of every quarter to review the progress made in previous quarter and also to plan for upcoming quarter. The council has agreed to convene next meeting tentatively on 22/11/2023.

Seal & Signature

IIC President or Head of the Institution

Name : Dr. Arun Kumar

Date : 21.08.2023

