2.3.1 Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

S.No	Content	Page No
	1.Experiential Learning	
1.1	Industrial Visit	04
1.2	Internship	17
1.3	Laboratory courses	188
	2.Participative Learning	
2.1	Club activities	283
2.2	Seminars	312
2.3	Workshop	321
	3.Problem Solving techniques	
3.1	Final Year Project	327
3.2	Mini Project	332
3.3	Case Studies	350

ACADEMIC YEAR 2022-23

1. EXPERIENTIAL LEARNING

1.1 INDUSTRIAL VISIT

INDUSTRIAL VISIT

DEPARTMENT WISE STUDENT PARTICIPATED LIST

S.NO	DEPT	YEAR	NAME OF THE COMPANY	DATE
1.	EEE	II,III,IV	KUDANKULAM NUCLEAR POWERPLANT, TIRUNELVELI DISTRICT, TAMIL NADU, INDIA.	16.08.2023

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2.3.1: EXPERIENTIAL LEARNING: 2022-23

INDUSTRIAL VISIT

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

VISITOR DETAILS

S.NO.	NAME OF THE VISITOR	AGE	GENDER	ID PROOF AADHAR CARD/COLLEGE ID CARD	ID PROOF NO
1	BALAJI B	19	Male	Aadhar Card	865529883974
2	DEVI M	20	Female	Aadhar Card	997628410430
3	DHAYANITHI M	19	Male	Aadhar Card	776585143445
4	HARIHARAN S	19	Male	Aadhar Card	880263102056
5	KARTHICK M	19	Male	Aadhar Card	828539689052
6	ROJA S	19	Female	Aadhar Card	810206944261
7	SANJAY M V	20	Male	Aadhar Card	303137469982
8	SANTHOSH M	19	Male	Aadhar Card	732883938132
9	SARANKUMAR A	20	Male	Aadhar Card	413370653852
10	SATHISH P	18	Male	Aadhar Card	714900333066
11	VENGADESHWARAN J	19	Male	Aadhar Card	979817756061
12	AGIMISH K G	25	Male	Aadhar Card	555736107283
13	KARTHICK C	23	Male	Aadhar Card	836576843459
14	TAMILSELVAN T	21	Male	Aadhar Card	931560429605
15	DHINESH.P`	20	Male	Aadhar Card	4182 3322 7021
16	ISAKKIRAJA.P	21	Male	Aadhar Card	244288290929
17	MUKESH.S	20	Male	Aadhar Card	342771613941
18	NAVEENKUMAR.G	20	Male	Aadhar Card	8972 2012 7259
19	ROHAN.R	20	Male	Aadhar Card	811543416000
20	SIVAGIRI.K	20	Male	Aadhar Card	971358992575
21	THIRUMARAN DILEEBAN.S	21	Male	Aadhar Card	5746 7383 4347
22	MAHESWARI.P	21	Female	Aadhar Card	708714998136

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23	SARAVANAN A	19	Male	Aadhar Card	608631063061
24	RANJITHA N	20	Female	Aadhar Card	906403034600
25	JOTHI S	19	Female	Aadhar Card	755116245709
STAFF NAME DETAILS					
26	G.PALANISAMY, AP/EEE,IV I/C	33	Male	Aadhar Card	844605557602
27	J.GURUPRASATH, AP/EEE	34	Male	Aadhar Card	554660217740
28	M.MOHANAMBIKA, AP/EEE	30	Female	Aadhar Card	854221794334

VEHICLE AND DRIVER DETAILS

S.NO.	Vehicle Number	Name of the Driver	Age	ID Proof	ID Proof No
1	TN 33 AP 9193	SILAMBARASAN.R	27	DRIVING LICENCE	TN36 20150004919

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R. Velmail Murugan
Senior Asst.Gr.1, HR
9489046177.

G. Sivakabil,
Senior Manager, HR, Member, Public Awareness Committee
94288 21931.

You are requested to contact Mr. N.K. Asokan (9489093419) or Mr. R. Velmail Murugan Half an hour before reaching KKNPP main gate on the date of visit for the pass arrangement.

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thank you

3 attachments
- Letter of Undertaking.doc 31K
- Individual willingness.xls 21K
- Model of the visitor format.xls 23K

PHOTO OF ACCEPTANCE MAIL FROM KKNPP

INDUSTRIAL VISIT REPORT

Industrial visit in Kudankulam Nuclear Power Plant (KKNPP), Tirunelveli District. EEE Department students and Faculty members went for Industrial visit:

1. Mr. G. Palanisamy, Assistant Professor/EEE
2. Mr. J.Guruprasath, Assistant Professor/EEE
3. Ms. M.Mohanambika, Assistant Professor/EEE

DETAILS OF JOURNEY:

- Students of JKKMCT undertook visit at Kudankulam Nuclear Power Plant (KKNPP), Tirunelveli District, on August 16th 2023 under the guidance of Mr. G. Palanisamy, Mr. J.Guruprasath, Ms.

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M.Mohanambika.

- Guided by Mr. M.K.Asokan (Senior Scientist) for company tour and learned about functions of nuclear reactor, simulators, and protection systems
- It took around Six hour for complete the visit and at the end we get chance to discuss on The Nuclear Power Corporation of India Limited with senior scientist Mr.M.K.Asokan.
- We exchange gratitude and Token of Love and returned.

OBJECTIVE:

- As the subject title 'Power Plant Engineering' in Electrical and Electronics Engineering, we feel it will be fruitful that the students have a sight of the Nuclear Power Plant to have a better appreciation of practical applications of theory.

COMPANY PROFILE:

Company Name: Kudankulam Nuclear Power Plant (KKNPP)

Location: Tirunelveli District, Tamil Nadu, India

Ownership: Joint venture between the Nuclear Power Corporation of India Limited (NPCIL) and Atomstroyexport, a subsidiary of Rosatom State Atomic Energy Corporation (Russia)

Partnership: KKNPP is a joint venture between the Nuclear Power Corporation of India Limited (NPCIL) and Atomstroyexport, a subsidiary of Russia's state-owned Rosatom. This partnership combines the expertise of both countries in nuclear technology.

Reactors: The plant consists of multiple VVER (Water-Water Energetic Reactor) pressurized water reactors. These reactors are designed to generate electricity through controlled nuclear fission reactions.

Capacity: Unit 1 & 2 each unit produce 1000 MW, Unit 3,4,5,6 are under construction.

INSIDE THE COMPANY THE STUDENT PERMITTED TO VISIT THE FOLLOWING UNIT

1. Fish Protection System
2. The Desalination Plant
3. Simulation Unit

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PROCESS OBSERVED:

- At first we had started from a small conference which was led by Mr.N.K. ASOKAN, Senior Scientist. He explained us the overall outline of the power plant clearly.
- The project consists of two 1000 MW capacity water Cooled Moderated Energy Reactors (WCMER), which falls under the category of Pressurized Water Reactor (PWR) and is the first of its kind in INDIA.
- This type of reactor uses about 4.4 enriched Uranium as fuel. The design of the plant and supply of all the major equipment is in the scope of the Russian Federation while development of infrastructure and project construction is in Indian Style.
- The style includes complete civil and structural works of the two reactor buildings along with the reactor auxiliary and control room buildings.
- The Hydro technical structures at KKNPP provide necessary cooling water required for the nuclear plant operation as well as its discharge after cooling the plant loads. To avoid silt, the sea water is drawn at a distance of 1.2 km away from the shore at 9.05-meter depth below the sea level from a caisson structure placed at the south tip of two breakwater dykes.

The intermediate structures consist of sea water intake structure with a fish protection system, three tunnels each for carrying the sea water to two pump houses from where the water is pumped to condensers in the turbine building through pressure pipelines. Four Caissons are placed at the southern tip of breakwater dykes for sea water intake. Out of these, two are used as water passage and two are adjoining units.

The power plant stands tall at the safety measures. The reactors deploy 4 stage safety features, namely the Passive Decay Heat Removal System, additional system for Core Passive Flooding, Passive Filtering Systems, etc. However, to enhance further the safety level, the task force suggested 17 recommendations, all of which have been implemented. Unit 1 of the plant was synchronized with the southern power grid in 2013 and is generating electricity to its limit of 1000 MW.Unit 2 with capacity 1,000 MW had achieved first criticality in July 2016. It was grid-

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connected in August 2016 and its commercial operation started its commercial operation started in 2016.

The ground-breaking ceremony for construction of units 3 & 4 was performed in February 2016. The power generated from the plant will provide electricity to Tamil Nadu, Puducherry, Kerala, Andhrapradesh and Karnataka.

The visit to the Kudankulam Nuclear Power Plant was such a great one for us as we gained worthy knowledge on power plant sectors and how the mechanical engineering methods are implemented there. In this the students able to gather the overall view about the company.

FISH PROTECTION SYSTEM

The Fish Protection System at Kudankulam Nuclear Power Plant is a comprehensive mechanism designed to mitigate the potential impact of the plant's cooling water intake on local fish populations and aquatic life. When nuclear power plants generate electricity, they require cooling systems to maintain optimal operating temperatures. Water from nearby water bodies, such as the Gulf of Mannar, is drawn into the cooling systems, and subsequently returned to the environment after being used to cool the reactor.

Components and Functionality:

1. **Fish Screens:** The heart of the Fish Protection System lies in the fish screens installed at the cooling water intake. These screens are designed with specific mesh sizes to prevent larger aquatic organisms, including fish, from being drawn into the cooling system.
2. **Behavioral Barriers:** In addition to physical barriers, certain systems are designed to deter fish from entering the intake area. These may include acoustic devices or light systems that create unfavorable conditions for fish to approach the intake.
3. **Fish Return Systems:** Fish that might accidentally get pulled into the cooling water system are often returned safely to the environment through dedicated return systems. These systems aredesigned to minimize any harm caused to the fish during the process.
4. **Monitoring and Research:** Continuous monitoring and research programs are typically in place to assess the efficiency of the Fish Protection System. Regular studies help gauge the system's effectiveness in preventing fish ingress and minimizing environmental impact.

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ENVIRONMENTAL IMPACT AND SAFETY:

The implementation of a robust Fish Protection System at Kudankulam Nuclear Power Plant demonstrates the commitment to environmental stewardship and sustainability. By reducing the impact on local fish populations, the plant aims to maintain the balance of the aquatic ecosystem and protect biodiversity in the region.

THE DESALINATION PLANT

The Desalination Plant at Kudankulam Nuclear Power Plant is a facility designed to convert seawater into fresh water suitable for various operational needs, including cooling and other processes. Water scarcity is a significant challenge in many regions, and nuclear power plants require substantial amounts of water for cooling purposes. By implementing a desalination plant, KKNPP demonstrates its commitment to both responsible water usage and environmental conservation.

Functionality and Key Components:

1. **Reverse Osmosis Technology:** The Desalination Plant typically employs reverse osmosis technology, a process that involves forcing seawater through a semi-permeable membrane to remove impurities, salts, and other contaminants. This process results in the production of fresh water that can be used for various purposes within the power plant.
2. **Pre-Treatment:** Before the reverse osmosis process, seawater undergoes pre-treatment to remove larger particles, debris, and sediments. This step ensures the efficiency and longevity of the membranes in the reverse osmosis system.
3. **Post-Treatment:** The fresh water produced through reverse osmosis may undergo further post-treatment to adjust its chemical composition, pH levels, and other parameters to meet the specific requirements of the power plant's processes.

IMPORTANCE AND BENEFITS:

1. **Water Security:** The Desalination Plant provides Kudankulam Nuclear Power Plant with a reliable and sustainable source of fresh water, reducing the reliance on local freshwater resources. This is especially crucial in regions where water scarcity is a pressing concern.
2. **Environmental Conservation:** By utilizing seawater for cooling and other processes, the plant helps preserve local freshwater ecosystems and reduces the impact on local water bodies.

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3. **Operational Efficiency:** The availability of a consistent water supply through the Desalination Plant ensures uninterrupted operation of the nuclear reactors and other systems, contributing to stable electricity generation.

4. **Community Impact:** In some cases, excess fresh water produced by the Desalination Plant might be shared with neighbouring communities, thus contributing to local water availability.

SIMULATION UNIT

The Simulation Unit at Kudankulam Nuclear Power Plant is a sophisticated facility designed to replicate the operation of nuclear reactors, control systems, and various plant processes in a virtual environment. This virtual simulation offers operators, engineers, and personnel a realistic and risk- free platform to understand, practice, and improve their skills before implementing changes or responding to complex scenarios within the actual plant.

Functionality and Key Features:

1. **Dynamic Scenario Replication:** The Simulation Unit accurately mimics the behavior of the nuclear reactors and associated systems under different conditions, such as start-up, normal operation, shutdown, and emergencies. This dynamic replication enables operators to test and improve their responses to a wide range of situations.

Training and Skill Enhancement: Operators and technical staff can undergo training exercises using the simulation, allowing them to practice routine operations, emergency procedures, and troubleshooting without affecting the actual plant. This significantly enhances their proficiency and preparedness.

2. **Risk Mitigation:** The Simulation Unit aids in identifying potential issues, vulnerabilities, and bottlenecks within the plant's systems. By simulating various scenarios, operators can proactively address challenges and refine strategies to prevent accidents and optimize plant performance.

3. **Scenario Testing:** New strategies, procedures, and modifications to plant systems can be tested in the simulation environment before implementation in the actual plant. This minimizes the risk of errors and ensures that changes are thoroughly evaluated.

BENEFITS AND IMPACT:

1. **Safety Enhancement:** The Simulation Unit contributes to enhanced safety by allowing operators to practice emergency responses, ensuring they are well-prepared to handle critical situations.

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2. **Operational Excellence:** By simulating various operational scenarios, the plant can identify opportunities for efficiency improvements, leading to optimized resource utilization and energy generation.

3. **Knowledge Transfer:** The Simulation Unit serves as a valuable tool for knowledge transfer and skill development among new operators and personnel, ensuring a consistent level of expertise.

4. **Reduced Downtime:** Through simulation-based testing of modifications and maintenance procedures, the plant can minimize downtime and disruptions to its operation.

EXPERIENCE GAINED FROM KUDANKULAM NUCLEAR POWER PLANT (KKNPP) INDUSTRIAL VISIT – OUTCOME REPORT:

An industrial visit to the Kudankulam Nuclear Power Plant can be an enlightening and educational experience, offering participants insights into nuclear energy generation, safety protocols, and the advanced technology that powers the plant. Here are some of the valuable experiences and lessons that visitors might gain from such a visit:

- Visitors can gain a comprehensive understanding of how nuclear energy is generated throughcontrolled fission reactions within the reactors.
- The visit provides an opportunity to witness the scale and complexity of the processes involved in harnessing nuclear power. KKNPP places a high emphasis on safety. Visitors can observe the rigorous safety protocols, redundancies, and multiple layers of protection in place to ensure the secure operation of the nuclear reactors and prevent any potential hazards.
- The industrial visit exposes participants to cutting-edge technology used in nuclear power plants. This includes reactor designs, control systems, instrumentation, and the use of automation to monitor and manage various plant operations. Visitors can learn about the measures taken to minimize the environmental impact of the power plant, such as the Fish Protection System and Desalination Plant.
- This experience highlights the plant's commitment to responsible energy production and environmental sustainability. Participants can gain insights into the challenges faced during the operation of a nuclear power plant, including maintaining consistent power output, managing cooling systems, and ensuring the reliability of critical components.

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- An industrial visit can shed light on the importance of a skilled and well-trained workforce to manage nuclear operations. Visitors might learn about the training programs, expertise, and roles of professionals working at the plant. The visit might include information about emergency response plans and how the plant is equipped to handle various emergency scenarios.
- This aspect underscores the plant's focus on safety and preparedness. Visitors might gain insights into how KKNPP engages with the local community and addresses public concerns regarding nuclear energy.
- This can provide valuable lessons on effective communication and building public trust. Understanding the role of nuclear power in India'senergy mix and the efforts to enhance energy security can offer participants a broader perspective on the nation's energy strategy.

Overall, a visit to Kudankulam Nuclear Power Plant can be an eye-opening experience, offering participants the chance to witness first-hand the intricate balance between technological advancement, environmental stewardship, and responsible energy generation in the context of a nuclear power facility.

It is important to approach the visit with curiosity, an open mind, and a commitment to learning about nuclear energy and its implications. The industrial visit to the Kudankulam Nuclear Power Plant has been a remarkable journey of exploration and learning, unveiling the intricate world of nuclear energy generation, safety protocols, advanced technology, and environmental stewardship.

This experience has provided us with a deep understanding of the complexities and responsibilities associated with operating a nuclear power facility. For students and young professionals, this visit has opened our eyes to potential career paths in nuclear science, engineering, safety, and management.

The visit has inspired us to consider contributing to the advancement of clean and sustainable energy solutions.

In conclusion, our industrial visit to the Kudankulam Nuclear Power Plant has been an enlightening journey that has broadened our horizons and deepened our appreciation for the intricate balance between technological progress, environmental responsibility, safety, and energy generation.

We leave with a renewed sense of curiosity, a commitment to responsible energy solutions, and a profound respect for the dedicated professionals who operate and ensure the success of facilities like

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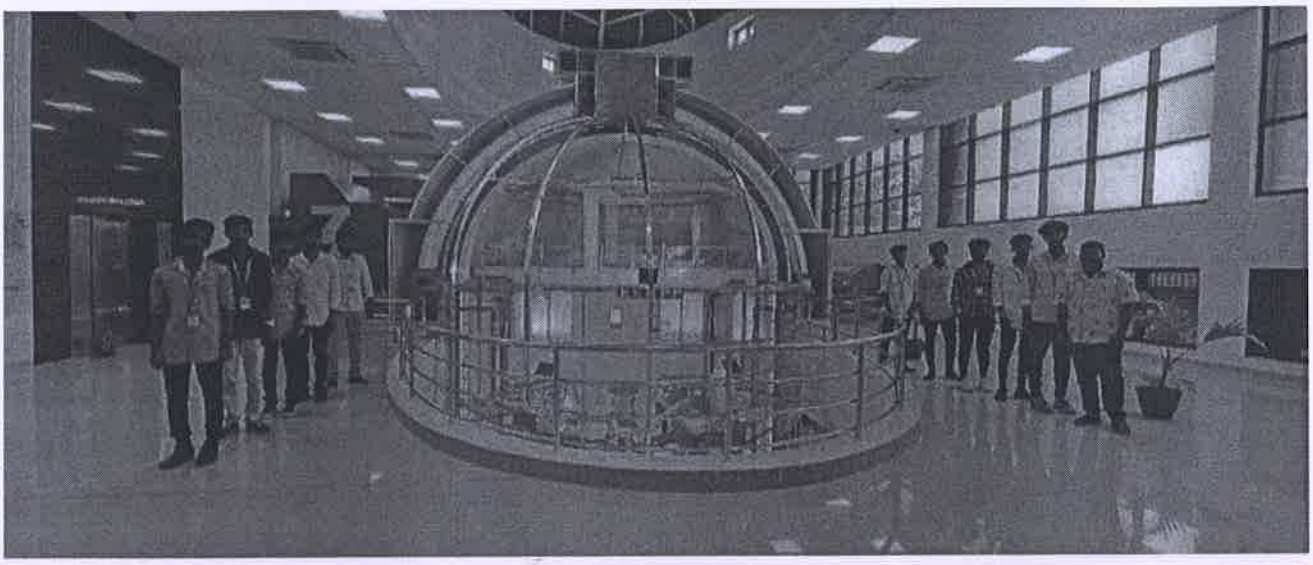
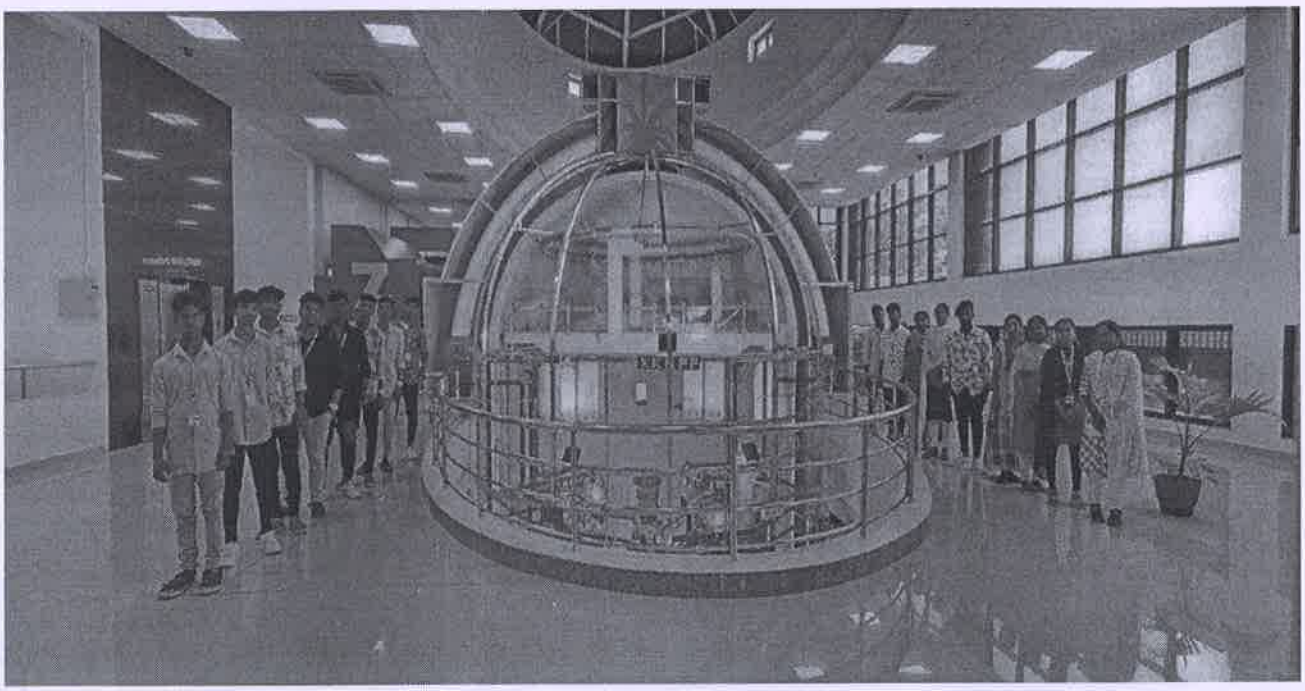
KKNPP. We want to thank our department staff for them guidance and JKKMCT for support. At around 4 pm visit was over.

PHOTO GALLERY





GROUP PHOTO OF OUR STUDENTS AT KUDANKULAM NUCLEAR POWER PLANT

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1.2 INTERNSHIP

INTERNSHIP UNDERGONE BY STUDENTS

INTERNSHIP

DEPARTMENT WISE STUDENT PARTICIPATED LIST

S.NO	DEPT	NAME OF THE STUDENT	NAME OF THE COMPANY	DURATION
1.	CIVIL	ANIL KUMAR BALDABOI DEBACHAND MUDULI DIVAKAR R	VIJAY BUILDER	06.02.20232 to 25.02.2023
2.	CSE	MADHAN G, PANDIYARAJ P, RAVI KUMAR P	ANJANA INFO TECH	03.07.2023 to 07.07.2023
		ARULMURUGAN S, SHYAMKUMAR S, VASANTHKUMAR S, BHARANI DHARAN.M	CODE BIND TECHNOLOGY	27.06.2023 to 03.07.2023
		DHAKSHINA MOORTHI E, GUNASEKARAN P, GUNASEKARAN S, SENTHILVEL S	CODE BIND TECHNOLOGY	05.07.2023 to 11.07.2023
		AMUTHAMALAR R	CODE BIND TECHNOLOGY	09.07.2023 to 15.07.2023
		SUSHMINA M, SNEHA L, SUBASHINI P	CODE BIND TECHNOLOGY	04.07.2023 to 13.07.2023

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		DURGA K, HARIPRABHA V, LALITHA T, MOUSIKA S, NANDHINI P, RUBIKA G, SUGANYA K, YAMUNA K, GAYATHRI R, NANDINI M	ETS ACADEMY	04.07.2023 to 10.07.2023
		VIGNESH.M	SBS TECHNOLOGIES	03.07.2023 to 07.07.2023
		BAMBAVASAN.V	TECHNOFLY SOLUTIONS	03.07.2023 to 19.07.2023
		AADHI SURYA K, PRIYA DHARSHINI S, SURYA S	THRIVE INFO TECH	26.06.2023 to 01.07.2023
		SRINIVAS.V, NIKETHA.S	UNIQ TECHNOLOGIES	10.07.2023 to 15.07.2023
		LOGANATHAN.T, VIGNESH.M	ANJANA INFO TECH	03.07.2023 to 13.07.2023
		BALU.R, CHARLES WILLIAM.L, DEEPAK.S, DEEPIKA.S, JAGATHESWARAN.P, KAVIN.M, NIRMALRAJ.S, ROHITH.R, VINISHA.T, VINITHA.A	APPIN TECH	30-6-2023 to 04.7.2023
		ABINAYA.G	BRAINERY SPOT TECH	11.07.2023 to 15.07.2023
		VINOTHKUMAR.R	BRAINERY SPOT TECH	13.07.2023 to 18.07.2023
		KARUNYAA.M, RAMYA.S, ROSHMA.I	DURGA TECH	20.07.2023 to 25.07.2023
		SUNDARAGANAESAN.K, BOOPALAN.M	ETHER INFO TECH	06.07.2023 to 12.07.2023
		DHARANISELVI.M	LITZ TECH	03.07.2023 to 07.07.2023

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		SIVALINGAM.K, DHAMODARAN.G	SAMCORE SOLUTION	10.07.2023 to 14.07.2023
		BALAKRISHNAN.V, DHATCHANA MOORTHI.A.P, MADHAN.M, MOHANRAJ.S, PRATHAP.N, PRAVIN.S, SANTHA MOORTHI.R, SENTHIL KUMAR.V. SUBASH CHANDRAN.P, TAMILSELVAN.A	KAASHIV INFO TECH	30.01.2023 to 04.02.2023
		BHUVANESHWARI.M, INDHUMATHI.P, MAHESHWARI.M, PAVITHRA.R, PRIYA.S, RAMYA.V, SUDHA DHARANI.R, SURIYA.R, SURIYA SARASWATHI.M, VENNILA.C	SQUARE SOFT TECHNOLOGIES	23.01.2023 to 28.01.2023
3.		DINESH M, KARTHICKRAJA G, KOWSALYA G, MAVURIYA D, MOTHIR L, NANDHINI S, PANDEESWARAN C K, PARTHIBAN M, RATHNA R, RITHIK S, SUYAMBURAJ C	CODE BIND TECHNOLOGY	27.06.2023 to 03.07.2023
		MADHANKUMAR N, MANIGANDAN M, MANOJKUMAR S, RAVIKUMAR M, ROHITH V, SHARANKUMAR M V	CODE BIND TECHNOLOGY	03.07.2023 to 07.07.2023

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		DEVIKA A, DHARSHINI P	ETHER INFO TECH	06.07.2023 to 12.07.2023
		BHUVANESWARAN M, BOOPATHI C, DHAYALAN R, NAVEEN S	ETHER INFO TECH	10.07.2023 to 14.07.2023
		KAVIBHARATHI G	ETHER INFO TECH	04.07.2023 to 18.07.2023
		KRISHNAN S	ETHER INFO TECH	19.06.2023 to 23.06.2023
		MAHADEVAMMA S, MANILA K, AHALYA J C	THRIVE INFO TECH	10.07.2023 to 15.07.2023
		KAVIN.P, POORANESHWARAN.N	ACCENT TECHNO SOFT	10.07.2023 to 20.07.2023
		DEEPAK.A, RAMKUMAR.R	ANJANA INFO TECH	03.07.2023 to 13.07.2023
		GOKUL.S, PANDIYARAJ.C, RAVISANKARAN.N, THANGESHWARI.G	APPIN TECH	30.06.2023 to 04.07.2023
		AJAYSRI.A, KALAISELVI.K, PARVATHY.A, PRIYANKA.S, SHILPA.C	ETHER INFO TECH	04.07.2023 to 18.7.2023
		DHINESHKUMAR .M, DINESH.S, LENA TAMILVANAN.G, MAYILRAJ.V, MUTHUKUMAR.G, SRIRAM.V	ETHER INFO TECH	06.07.2023 to 12.07.2023

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		SHIJINKUMAR K.G	NETWORKZ SYSTEMS	04.07.2023 to 20.07.2023
		RAVINDHIRAN.R	SAMCORE SOLUTION	10.07.2023 to 14.07.2023
		GOWTHAM.H, **MAHANTESH.S,** **NANDHINI.R,** **NAVEEN.S,** **NINGARAJU.S,** **NITHYA.K,** **PRABHU.M,** **PRIYADHARSINI.T,** **VAIDEVI.M,** **VAIGAIRAJ.M**	TRIOX TECHNOLOGIES	25.01.2023 to 31.01.2023
4.	ECE	**KALYAN K** **KUDIYARASU P** **MUTHUKUMAR M** **SUGUNADEVI M** **SUGUNADEVI M** **VIKRAM V** **JANARTHANAN K**	DURGA TECH	01.08.2022 to 08.08.2022
		BHARATHI M **JAGADEESH KUMAR G** **KEMPARAJ K** **MATHANKUMAR M** **MOHAN K** **MUTHUPANDI M** **NARMATHA M** **RAMESHPRABHU R** **SABARIGAYATHRI A** **SATHYA PRIYA K** **SURENDAR P**	DURGA TECH	26.07.2022 to 09.08.2022

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		UDHAYAKUMAR M KURALARASAN D		
		NARMATHA M SAKTHISIVAN K SANTHIYA Y SHARMILA V VENEESWARI M ARTHI V	UNIVERSAL POWER SUPPLIES	
		RANJITH B SATHASIVAN R SUBASH K SHARMILA V SOUNDARIYA S	PRAGATI HI- TECH CIRCUITS	18.01.2023 to 28.01.2023
		JAGADEESH KUMAR G SATHYA PRIYA K ROHINI M	UNIVERSAL POWER SUPPLIES	06.02.2023 to 31.03.2023
		KEMPARAJ K SABARIGAYATHRI A SURENDAR P	ETS ACADEMY	20.03.2023 to 12.05.2023
		MOHAN K MATHANKUMAR M NARMATHA M	PRAGATI HI- TECH CIRCUITS	
5.	M.E-A.E	BAKYALAKSHMI P DEEPIKA M	INNO MEKTRONIC	20.02.2023 to 08.03.2023
		SEETHASUGANTHI S	UNIVERSAL POWER SUPPLIES	01.05.2023 to 30.06.2023
6.	MBA	ARTHI.M ASHWINI.S BHUVANESWARI. R	ARUN CASUALS INDIA LTD	17.04.2023 to 27.04.2023

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		HARIDHARANI.N DHARANI .R		
		NANDHA KISHORE .S PANNEERSELVAM.T MANIMARAN .M SANTHIYA. P	AISHWARYA ENTERPRISES	17.04.2023 to 27.04.2023
		SATHIYAABIRAMI.N THILAGAVATHI.P THIYAGU.M SATHIYA PRIYA. G	SESHASAYEE PAPER	17.04.2023 to 27.04.2023
		DIVYA.S RAJKUMAR.V KALAPSAMUVEL. M MAYA. K PRADEEP .B	EVVI LTD	17.04.2023 to 27.04.2023
		SANTHOSH. S SOWNDARYA.S SRIRAM.M STENIN MESHAK.S.I BHARATHI .A	SSS BUILDERS Ltd	17.04.2023 to 27.04.2023

CIVIL ENGINEERING

- DIVAKAR R of civil engineering undergone internship at "VIJAI BUILDER", Bhavani from 06.02.2023 to 25.02.2023.
- ANILKUMAR BALDABOI, DEBACHAND MUDULI, "VIJAI BUILDER", Bhavani from 06.02.2023 to 25.02.2023.

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CERTIFICATES OF INTERNSHIP PROGRAMME

Date : 25.02.2023

INTERNSHIP CERTIFICATE

This is to certify that DIVAKAR R Third year in Civil Engineering Register no. 731219103001 student of J.K.K Munirajah College of Technology at T.N Palayam, Gobi(T.K), Erode (Dt) – 638506 has undergone the inplant training in our concern, work site From 06.02.2023 to 25.02.2023. His conduct and character was good during the training period.

For V-JAI BUILDER

Proprietor.

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Date:25.02.2023

INTERNSHIP CERTIFICATE

This is to certify that ANILKUMAR BALDABOI Final year in Civil Engineering Register no. 731219103002 student of J.K.K Munirajah College of Technology at T.N Palayam, Gobi(T.K), Erode(Dt) – 638506 has undergone the inplant training in our concern, work site From 06.02.2023 to 25.02.2023. His conduct and character was good during the training period.

For V-JAI BUILDER

Proprietor.

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+91 93625 55510

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Date:25.02.2023

INTERNSHIP CERTIFICATE

This is to certify that **DEBACHAND MUDULI** Final year in Civil Engineering Register no. 731219103003 student of J.K.K Munirajah College of Technology at T.N Palayam, Gobi(T.K), Erode(Dt) – 638506 has undergone the inplant training in our concern, work site From 06.02.2023 to 25.02.2023. His conduct and character was good during the training period.

For V-JAI BUILDER

Proprietor

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+91 93625 55510

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COMPUTER SCIENCE AND ENGINEERING

- **MADHAN G, PANDIYARAJ P, RAVI KUMAR P** of computer science and engineering Undergone internship at "ANJANA INFO TECH", Rajapalayam from 03.07.2023 to 07.07.2023.
- **ARULMURUGAN S, SHYAMKUMAR S, VASANTHKUMAR S, BHARANI DHARAN.M** of computer science and engineering undergone internship at "CODE BIND TECHNOLOGY" Chennaifrom27.06.2023 to 03.07.2023.
- **DHAKSHINA MOORTHI E, GUNASEKARAN P, GUNASEKARAN S, SENTHILVEL S** of computer science and engineering undergone internship at "CODE BIND TECHNOLOGY" Chennaifrom05.07.2023 to 11.07.2023.
- **BABUSHANKAR S, CHANDRA PRAKASH K** of computer science and engineering undergone internship at "CODE BIND TECHNOLOGY" Chennai, from 19.07.2023 to 25.07.2023.
- **AMUTHAMALAR R** of computer science and engineering undergone internship at "CODE BIND TECHNOLOGY" Chennai, from 9.07.2023 to 15.07.2023.
- **SUSHMINA M, SNEHA L, SUBASHINI P** of computer science and engineering undergone internship at "CODE BIND TECHNOLOGY" Coimbatore, from 04.07.2023 to 13.07.2023.
- **DURGA K, HARIPRABHA V, LALITHA T, MOUSIKA S,NANDHINI P,RUBIKA G, SUGANYA K, YAMUNA K, GAYATHRI R, NANDINI M** of computer science and engineering undergone internship at "ETS ACADEMY" Erode,from04.07.2023 to 10.07.2023.
- **VIGNESH.M** of computer science and engineering undergone internship at "**SBS TECHNOLOGIES**" Erode, from 9.07.2023 to 15.07.2023.
- **BAMBAVASAN.V** of computer science and engineering undergone internship at "**TECHNOFLY SOLUTIONS**" Erode, from 03.07.2023 to 19.07.2023.
- **AADHI SURYA K, PRIYA DHARSHINI S, SURYA S** of computer science and engineering undergone internship at "**THRIVE INFO TECH**" Erode, from 26.06.2023 to 01.07.2023.
- **SRINIVAS.V, NIKETHA.S** of Computer Science and Engineering undergone internship

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at "UNIQ TECHNOLOGIES" Erode, from10.07.2023 to 15.07.2023.

- **LOGANATHAN.T, VIGNESH.M** of Computer Science and Engineering undergone internship at "**ANJANA INFO TECH**" Rajapalayam, from10.07.2023 to 15.07.2023.
- **BALU.R, CHARLES WILLIAM.L, DEEPAK.S, DEEPIKA.S, JAGATHESWARAN.P, KAVIN.M, NIRMALRAJ.S, ROHITH.R, VINISHA.T, VINITHA.A** of Computer Science and Engineering undergone internship at "**APPIN TECH**" Rajapalayam, from 30-6-2023 to 04.7.2023.
- **ABINAYA**.G of Computer Science and Engineering undergone internship at "BRAINERY SPOT TECH" Coimbatore, from 10.07.2023 to 15.07.2023.
- **VINOTHKUMAR.R** of Computer Science and Engineering undergone internship at "BRAINERY SPOT TECH" Coimbatore, from13.07.2023 to 18.07.2023.
- **KARUNYAA.M, RAMYA.S, ROSHMA.I** of Computer Science and Engineering undergone internship at "DURGA TECH" Erode, from20-7-2023 to 25.7.2023.
- **SUNDARAGANAESAN.K, BOOPALAN.M** of Computer Science and Engineering undergone internship at "ETHER INFO TECH" Coimbatore, from 6-7-2023 TO 12.7.2023.
- **DHARANISELVI.M** of Computer Science and Engineering undergone internship at "LITZ TECH" Coimbatore, from 03.07.2023 to 07.07.2023.
- **SIVALINGAM.K, DHAMODARAN.G** of Computer Science and Engineering undergone internship at "**SAMCORE SOLUTION**" Trichy, from 10.07.2023 to 14.07.2023.

- **BALAKRISHNAN.V, DHATCHANAMOORTHI.A.P, MADHAN.M, MOHANRAJ.S, PRATHAP.N, PRAVIN.S, SANTHA MOORTHI.R, SENTHIL KUMAR.V.SUBASH CHANDRAN.P, TAMILSELVAN.A** of Computer Science and Engineering undergone internship at "KAASHIV INFO TECH" Chennai, from 30.01.2023 to 04.02.2023.

- **BHUVANESHWARI.M,INDHUMATHI.P,MAHESHWARI.M,PAVITHRA.R,PRIYA.S,RAMYA.V,SUDHA DHARANI.R,SURIYA.R,SURIYA SARASWATHI.M,** of Computer Science and Engineering undergone internship at "SQUARE SOFT TECHNOLOGIES" Coimbatore,from23.01.2023 to 28.01.2023.

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CERTIFICATES OF INTERNSHIP PROGRAMME

Anjana Infotech
Your Dream We Display

Date: 07.07.2023

INTERNSHIP TRAINING COMPLETION CERTIFICATE

This is to certify that the internship training entitled Angular submitted by **Mr. G. Madhan (731221104022)** Studying II year B.E (Computer Science) at, J.K.K Munirajah College of Technology has undergone internship training at our **Anjana Infotech Private Limited Rajapalayam**, as a collaborative activity from 03.07.2023 to 07.07.2023. He has successfully Completed his Internship under my Guidance and is worthy of consideration for the same.

Thanking you.

Anjana Infotech

M SAKTHI SARAVANAN
Proprietor

info@anjanainfotech.in
anjanainfotech.in
359 B&S, Illathupillaimar Complex, Near Gandhi Statue, Rajapalayam - 626 117
+91 97879 70633 | +91 97877 248063

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Anjana Infotech
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Date: 07.07.2023

INTERNSHIP TRAINING COMPLETION CERTIFICATE

This is to certify that the internship training entitled Angular submitted by **Mr. P. Pandiyaraj (731221104027)** Studying II year B.E (Computer Science) at, J.K.K Munirajah College of Technology has undergone internship training at our **Anjana Infotech Private Limited Rajapalayam**, as a collaborative activity from 03.07.2023 to 07.07.2023. He has successfully Completed his Internship under my Guidance and is worthy of consideration for the same.

Thanking you.

M SAKTHI SARAVANAN
Proprietor

info@anjanainfotech.in
anjanainfotech.in
209 B&S, Jothipillamai Complex, Near Gandhi Statue, Rajapalayam. 626 117
+91 97879 70433 | +91 9787 248063

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Date: 07.07.2023

INTERNSHIP TRAINING COMPLETION CERTIFICATE

This is to certify that the internship training entitled Angular submitted by **Mr. P. Ravikumar** (731221104029) Studying II year B.E (Computer Science) at, J.K.K Munirajah College of Technology has undergone internship training at our **Anjana Infotech Private Limited Rajapalayam**, as a collaborative activity from 03.07.2023 to 07.07.2023. He has successfully Completed his Internship under my Guidance and is worthy of consideration for the same.

Thanking you.

M SAKTHI SARAVANAN
Proprietor

info@anjanainfotech.in
anjanainfotech.in
359 BB/5, Illathupillaivar Complex, Near Gandhi Statue, Rajapalayam - 626 117
+91 97879 70633 | +91 9787 248063

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CERTIFICATE OF INTERNSHIP

CERTIFICATE NUMBER	CBTINE272005230612

This certificate is awarded to **Mr/Ms. ARULMURUGAN.S.** for the successful completion of **Internship in Internet of Things (IoT)** at **CodeBind Technologies, Chennai** from **27th June 2023** to **03rd July 2023.**

During the course of the internship **Mr/Ms. ARULMURUGAN.S.** exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

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CERTIFICATE OF INTERNSHIP

CERTIFICATE NUMBER	CBTINE272005230613

This certificate is awarded to **Mr/Ms. SHYAM KUMAR.S,** for the successful completion of **Internship in Internet of Things (IoT)** at **CodeBind Technologies, Chennai** from **27th June 2023 to 03rd July 2023.**

During the course of the internship Mr/Ms. SHYAM KUMAR.S, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

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CERTIFICATE OF INTERNSHIP

CERTIFICATE NUMBER | CBTINE272005230615

This certificate is awarded to Mr/Ms. VASANTH KUMAR.S, for the successful completion of Internship in Internet of Things (IoT) at CodeBind Technologies, Chennai from 27th June 2023 to 03rd July 2023.

During the course of the internship Mr/Ms. VASANTH KUMAR.S, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

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CERTIFICATE OF INTERNSHIP

CERTIFICATE NUMBER | **CBTINE272005230614**

This certificate is awarded to **Mr/Ms. BHARANI DHARAN.M,** for the successful completion of Internship in Internet of Things (IoT) at **CodeBind Technologies, Chennai** from **27th June 2023 to 03rd July 2023.**

During the course of the internship **Mr/Ms. BHARANI DHARAN.M,** exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

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CERTIFICATE OF INTERNSHIP

CERTIFICATE NUMBER | **CBTINE052005230701**

This certificate is awarded to Mr/Ms. DHAKSHINA MOORTHI.E, for the successful completion of Internship in Embedded Systems at CodeBind Technologies, Chennai from 05th July 2023 to 11th July 2023.

During the course of the internship Mr/Ms. DHAKSHINA MOORTHI.E, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

Training Co-Ordinator

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CERTIFICATE OF INTERNSHIP

CERTIFICATE NUMBER | **CBTINE052005230702**

This certificate is awarded to Mr/Ms. **GUNASEKARAN P.** for the successful completion of **Internship in Embedded Systems** at **CodeBind Technologies, Chennai** from **05th July 2023 to 11th July 2023.**

During the course of the internship **Mr/Ms. GUNASEKARAN P.** exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

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CERTIFICATE NUMBER | CBTINE052005230701

This certificate is awarded to Mr/Ms. **GUNASEKARAN S,** for the successful completion of Internship in Embedded Systems at CodeBind Technologies, Chennai from 05th July 2023 to 11th July 2023.

During the course of the internship Mr/Ms. **GUNASEKARAN S,** exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

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CERTIFICATE OF INTERNSHIP

CERTIFICATE NUMBER | CBTINE052005230704

This certificate is awarded to **Mr/Ms. SENTHILL VEL S,** for the successful completion of **Internship in Embedded Systems** at **CodeBind Technologies, Chennai from 05th July 2023 to 11th July 2023.**

During the course of the internship Mr/Ms. SENTHILL VEL S, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

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CERTIFICATE OF INTERNSHIP

CERTIFICATE NUMBER | **CBTINE192005230702**

This certificate is awarded to Mr/Ms. S.BABUSHANKAR, for the successful completion of Internship in Internet of Things (IoT) at CodeBind Technologies, Chennai from 19th July 2023 to 25th July 2023.

During the course of the internship Mr/Ms. S.BABUSHANKAR, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

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CERTIFICATE OF INTERNSHIP

CERTIFICATE NUMBER | CBTINE192005230701

This certificate is awarded to **Mr/Ms. K.CHANDRA PRAKASH**, for the successful completion of **Internship in Internet of Things (IoT)** at **CodeBind Technologies, Chennai** from 19th July 2023 to 25th July 2023.

During the course of the internship **Mr/Ms. K.CHANDRA PRAKASH**, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

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CERTIFICATE OF INTERNSHIP

CERTIFICATE NUMBER | **CBTINC122005230701**

This certificate is awarded to Mr/Ms. R.AMUTHA MALAR, for the successful completion of Internship in Digital Marketing at CodeBind Technologies, Chennai from 12th July 2023 to 18th July 2023.

During the course of the internship Mr/Ms. R.AMUTHA MALAR, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

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CERTIFICATE OF PROJECT COMPLETION

CERTIFICATE NUMBER | **CBTINDM0611032307l8**

This certificate is awarded to Mr/Ms. M.SUSHMINA, on the successful completion of the project titled "Digital marketing strategy for Distance Education colleges" at CodeBind Technologies, Coimbatore, from 06th July 2023 to 10th July 2023.

We found the candidate to be highly self-motivated, duty bound and hard working. The performance was above satisfactory and we wish them all the best in their future career.

Training Co-Ordinator

Issuing Authority

601C, 1st Street,
Cross Cut Road, Gandhipuram, Coimbatore-12
Landmark : Near Gandhipuram Bus Stand. 9751111343
www.codebindtechnologies.com

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JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).

info@codebindtechnologies.com
+91 975 11 11 343

CERTIFICATE OF INTERNSHIP

CERTIFICATE NUMBER | CBTINDM03110323073I

This certificate is awarded to **Mr/Ms. L.SNEHA,** for the successful completion of **Internship in Digital Marketing** at **CodeBind Technologies, Coimbatore** from **04th July 2023** to **13th July 2023.**

During the course of the internship **Mr/Ms. L.SNEHA,** exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

Training Co-Ordinator

Issuing Authority

601C, 1st Street,
Cross Cut Road, Gandhipuram, Coimbatore-12
Landmark : Near Gandhipuram Bus Stand. 9751111343
www.codebindtechnologies.com

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CERTIFICATE OF INTERNSHIP

CERTIFICATE NUMBER | **CBTINDM031103230730**

This certificate is awarded to **Mr/Ms. P.SUBASHINI,** for the successful completion of **Internship in Digital Marketing** at **CodeBind Technologies, Coimbatore** from **04th July 2023** to **13th July 2023.**

During the course of the internship **Mr/Ms. P.SUBASHINI,** exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

CODEBIND TECHNOLOGIES
Gandhipuram,
Coimbatore - 641 012

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Issuing Authority

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CERTIFICATE
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Appreciation

DATE : 10.07.2023

ETS Academy

THIS IS TO CERTIFY THAT HARIPRABHA V (731221104015)
II-YEAR B.E (COMPUTER SCIENCE AND ENGINEERING)
FROM JKK MUNIRAJAH COLLEGE OF TECHNOLOGY
HAS SUCCESSFULLY COMPLETED THE COURSE
EMBEDDED WITH ROBOTICS
CONDUCTED BY ETS ACADEMY, ERODE
FROM 04-07-2023 *TO* 10.07.2023

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CERTIFICATE
OF
Appreciation

DATE : 10.07.2023

THIS IS TO CERTIFY THAT MOUSIKA S (731221104025)
II-YEAR B.E (COMPUTER SCIENCE AND ENGINEERING)
FROM JKK MUNIRAJAH COLLEGE OF TECHNOLOGY
HAS SUCCESSFULLY COMPLETED THE COURSE
EMBEDDED WITH ROBOTICS
CONDUCTED BY ETS ACADEMY, ERODE
FROM 04-07-2023 *TO* 10.07.2023

ETS Academy is registered under the Ministry of MSME Govt. of India
Reg No :TN07E0021273

CERTIFICATE ID : A0037107

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CERTIFICATE
OF
Appreciation

DATE : 10.07.2023

ETS Academy

THIS IS TO CERTIFY THAT SUGANYA K (731221104035)
II-YEAR B.E (COMPUTER SCIENCE AND ENGINEERING)
FROM JKK MUNIRAJAH COLLEGE OF TECHNOLOGY
HAS SUCCESSFULLY COMPLETED THE COURSE
ETHICAL HACKING
CONDUCTED BY ETS ACADEMY, ERODE
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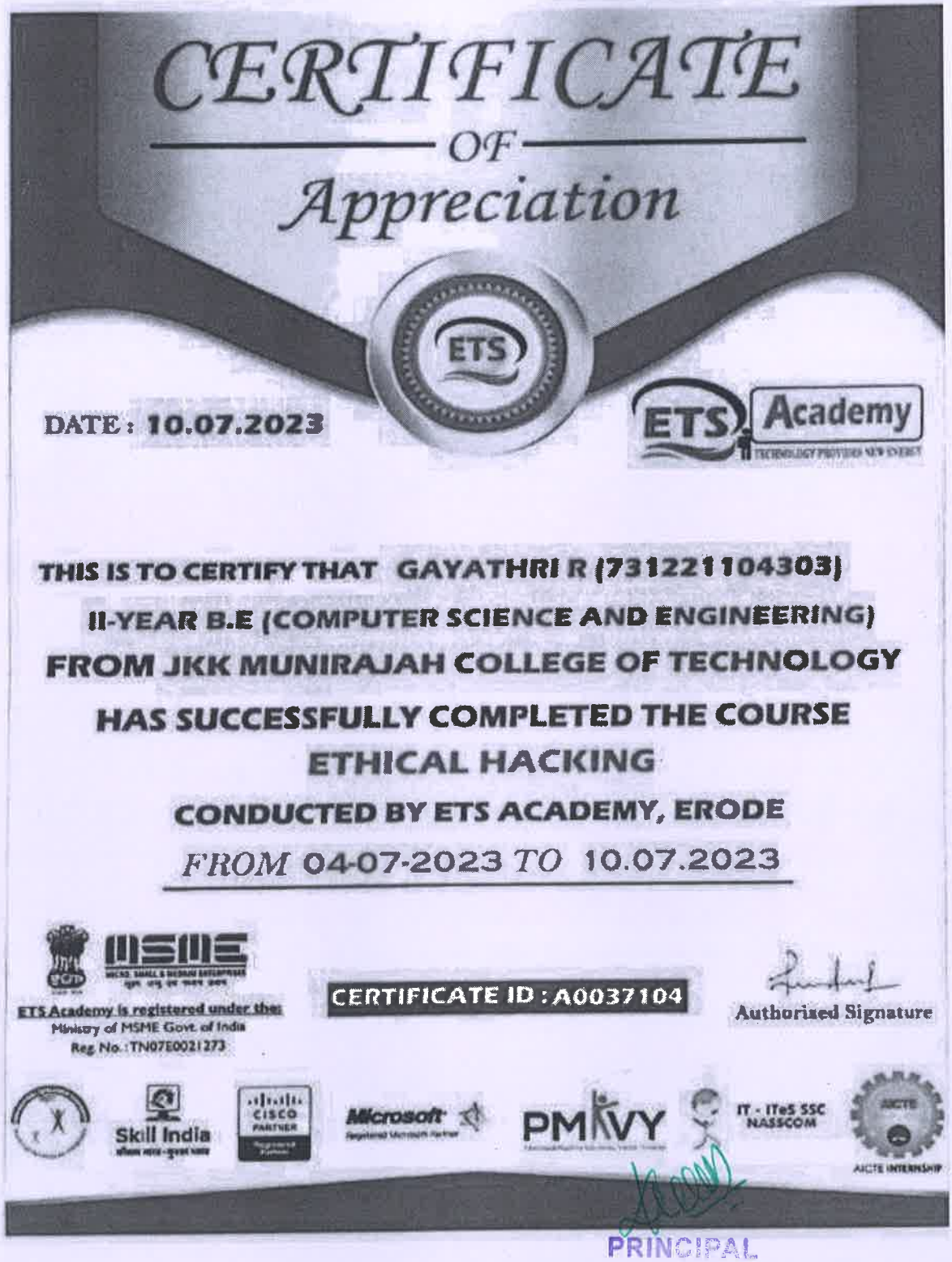

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Appreciation

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THIS IS TO CERTIFY THAT GAYATHRI R (731221104303)
II-YEAR B.E (COMPUTER SCIENCE AND ENGINEERING)
FROM JKK MUNIRAJAH COLLEGE OF TECHNOLOGY
HAS SUCCESSFULLY COMPLETED THE COURSE
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CERTIFICATE
OF
Appreciation

DATE : 10.07.2023

THIS IS TO CERTIFY THAT NANDINI M (731221104305)
II-YEAR B.E (COMPUTER SCIENCE AND ENGINEERING)
FROM JKK MUNIRAJAH COLLEGE OF TECHNOLOGY
HAS SUCCESSFULLY COMPLETED THE COURSE
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CERTIFICATE ID : A0037103

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This is to certify that V. BAMBAVASAN a student of JKK Munirajah College of Technology has completed 3 months/weeks of Internship From 3.7.2023 To 24.7.2023 in Artificial Intelligence Domain.

We wish you all the best in your future endeavors.

Date: 24.7.2023

For TechnoFly Solutions

TECHNOFLY SOLUTIONS Date: Authorized Signature BANGALORE

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www.thriveinfotech.com

Date: 01.07.2023

CERTIFICATE OF COMPLETION

This is to certify that Mr. Aadhi Surya.k (Reg No. : 731221104001) has completed INTERNSHIP successfully from 26.06.2023 to 01.07.2023 in our organization.

During this period she had undergone training on INTRODUCTION TO WEB DESIGNING and had shown an exemplary attitude and approach.

Approved by

Rajkumar Thangamani
Managing Director
Thrive InfoTech
265, Ramesh Murugan Complex,
Ground Floor, Subban Street,
Theni - 625531

265, Ramesh Murugan Complex, Ground Floor,
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Date: 01.07.2023

CERTIFICATE OF COMPLETION

This is to certify that **Ms. Priya dharshini.S (Reg No. : 731221104028)** has completed **INTERNSHIP** successfully from 26.06.2023 to 01.07.2023 in our organization.

During this period she had undergone training on **INTRODUCTION TO WEB DESIGNING** and had shown an exemplary attitude and approach.

Approved by

Rajkumar Thangamani
Managing Director
Thrive InfoTech
265, Ramesh Murugan Complex,
Ground Floor, Subban Street,
Theni - 625531

265, Ramesh Murugan Complex, Ground floor,
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www.thriveinfotech.com

Date: 01.07.2023

CERTIFICATE OF COMPLETION

This is to certify that Mr. Surya.S (Reg No. : 731221104036) has completed INTERNSHIP successfully from 26.06.2023 to 01.07.2023 in our organization.

During this period she had undergone training on INTRODUCTION TO WEB DESIGNING and had shown an exemplary attitude and approach.

Approved by

Rajkumar Thangamani
Managing Director

265, Ramesh Murugan Complex, Ground floor,
Subban Street, Theni-625531

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CERTIFICATE OF MERIT

This is to certify that SRINIVAS V (Reg No. 731221104307) has successfully completed the internship in PYTHON Application Development in our concern from 10/07/2023 to 15/07/2023.

During the internship period, the performance of the intern was found to be Good.

EXP-01582

Program Coordinator

HR Head

PRINCIPAL
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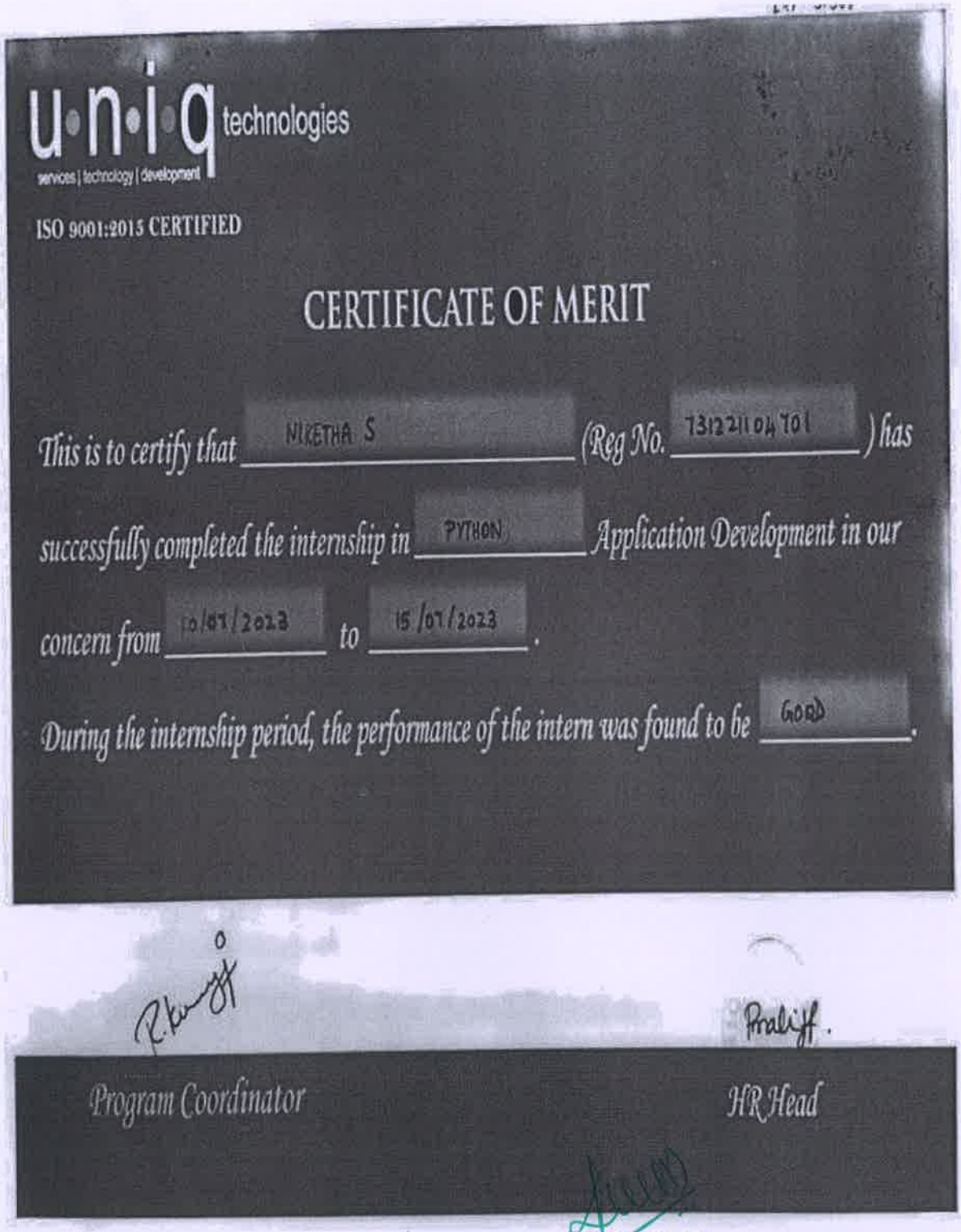

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CERTIFICATE OF MERIT

This is to certify that NIKETHA S (Reg No. 731221104101) has successfully completed the internship in PYTHON Application Development in our concern from 10/07/2023 to 15/07/2023.

During the internship period, the performance of the intern was found to be GOOD.

Program Coordinator

HR Head

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Date: 13.07.2023

INTERNSHIP TRAINING COMPLETION CERTIFICATE

This is to certify that the internship training entitled Mobile App Development submitted by Mr. T. Loganathan (731220104014) Studying B.E (Computer Science) at J.K.K Munirajah College of Technology has undergone internship training at our Anjana Infotech Private Limited Rajapalayam, as a collaborative activity from 03.07.2023 to 13.07.2023. He has successfully Completed his Internship under my Guidance and is worthy of consideration for the same.

Thanking you.

M SAKTHI SARAVANAN
Proprietor

info@anjanainfotech.in
anjanainfotech.in
359 E&F, Illathuppillaimar Complex, Near Gandhi Statue, Rajapalayam -626 117
+91 97879 70633 | +91 9787 248063

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Date: 13.07.2023

INTERNSHIP TRAINING COMPLETION CERTIFICATE

This is to certify that the internship training entitled Mobile App Development submitted by **Mr. M. Vignesh (731220104028)** Studying B.E (Computer Science) at. J.K.K Munirajah College of Technology has undergone internship training at our **Anjana Infotech Private Limited Rajapalayam, as a collaborative activity** from 03.07.2023 to 13.07.2023. He has successfully Completed his Internship under my Guidance and is worthy of consideration for the same.

Thanking you.

Anjana Infotech

M SAKTHI SARAVANAN
Proprietor

info@anjanainfotech.in
anjanainfotech.in
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+91 97879 70633 | +91 9787 249063

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COIMBATORE

Date : 04.07.2023

INTERNSHIP CERTIFICATE

This is to inform that Mr. **BALU R (731220104003)**, Third year, **BACHELOR OF ENGINEERING in COMPUTER SCIENCE ENGINEERING**, student of **J. K. K MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N.PALAYAM**, has attended Internship training in our organization from June 30th 2023 to July 04th 2023.

During this Internship training, He has learned the overview concepts of **DATA SCIENCE WITH PYTHON.**

Thanking You.

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INTERNSHIP CERTIFICATE

This is to inform that **Mr. CHARLES WILLIAM L (731220104004)**, Third year, **BACHELOR OF ENGINEERING in COMPUTER SCIENCE ENGINEERING**, student of **J. K. K MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N.PALAYAM**, has attended Internship training in our organization from June 30th 2023 to July 04th 2023.

During this Internship training, He has learned the overview concepts of **DATA SCIENCE WITH PYTHON**.

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Date : 04.07.2023

INTERNSHIP CERTIFICATE

This is to inform that Mr. DEEPAK S (731220104005), Third year, BACHELOR OF ENGINEERING in COMPUTER SCIENCE ENGINEERING, student of J. K. K MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N.PALAYAM, has attended Internship training in our organization from June 30th 2023 to July 04th 2023.

During this Internship training, He has learned the overview concepts of DATA SCIENCE WITH PYTHON.

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Date : 04.07.2023

INTERNSHIP CERTIFICATE

This is to inform that Mr. **JAGATHESWARAN P (731220104009)**,Third year, **BACHELOR OF ENGINEERING in COMPUTER SCIENCE ENGINEERING**, student of **J. K. K MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N.PALAYAM**, has attended Internship training in our organization from June 30th 2023 to July 04th 2023.

During this Internship training, He has learned the overview concepts of **DATA SCIENCE WITH PYTHON**.

Thanking You.

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Date : 04.07.2023

INTERNSHIP CERTIFICATE

This is to inform that Mr. KAVIN M (731220104012), Third year, BACHELOR OF ENGINEERING in COMPUTER SCIENCE ENGINEERING, student of J. K. K MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N.PALAYAM, has attended Internship training in our organization from June 30th 2023 to July 04th 2023.

During this Internship training, He has learned the overview concepts of DATA SCIENCE WITH PYTHON.

Thanking You.

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Date : 04.07.2023

INTERNSHIP CERTIFICATE

This is to inform that Mr. NIRMALRAJ S (731220104019), Third year, BACHELOR OF ENGINEERING in COMPUTER SCIENCE ENGINEERING, student of J. K. K MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N.PALAYAM, has attended Internship training in our organization from June 30th 2023 to July 04th 2023.

During this Internship training, He has learned the overview concepts of DATA SCIENCE WITH PYTHON.

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Date : 04.07.2023

INTERNSHIP CERTIFICATE

This is to inform that Mr. ROHITH R (731220104022), Third year, BACHELOR OF ENGINEERING in COMPUTER SCIENCE ENGINEERING, student of J. K. K MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N.PALAYAM, has attended Internship training in our organization from June 30th 2023 to July 04th 2023.

During this Internship training, He has learned the overview concepts of DATA SCIENCE WITH PYTHON.

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Date : 04.07.2023

INTERNSHIP CERTIFICATE

This is to inform that Ms. VINISHA T (731220104029), Third year, BACHELOR OF ENGINEERING in COMPUTER SCIENCE ENGINEERING, student of J. K. K MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N.PALAYAM, has attended Internship training in our organization from June 30th 2023 to July 04th 2023.

During this Internship training, She has learned the overview concepts of DATA SCIENCE WITH PYTHON.

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Date : 04.07.2023

INTERNSHIP CERTIFICATE

This is to inform that Ms. VINITHA A (731220104030), Third year, BACHELOR OF ENGINEERING in COMPUTER SCIENCE ENGINEERING, student of J. K. K MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N.PALAYAM, has attended Internship training in our organization from June 30th 2023 to July 04th 2023.

During this Internship training, She has learned the overview concepts of DATA SCIENCE WITH PYTHON.

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BRAINERY SPOT TECHNOLOGY

Date: 15/07/2023

INTERNSHIP CERTIFICATE

This is to inform that Mrs. ABINAYA G, 3rd year B.E., Computer Science and Engineering Student of J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY (ANNA UNIVERSITY), T.N. PALAYAM, has attended Internship in our organization from July 11th 2023 to July 15th 2023.

During this Internship, she has learned the overview concept of **WEB DEVELOPMENT WITH PYTHON PROGRAMMING.**

Thanking You.

BRAINERY SPOT TECHNOLOGY
Authorised Signatory

braineryspot.com admin@braineryspot.com 98944 50083
Branch : 2nd Floor, 30, Ansari Street, Ram Nagar, Coimbatore - 641009

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BRAINERY SPOT TECHNOLOGY

Date: 18/07/2023

INTERNSHIP CERTIFICATE

This is to inform that Mr. VINOTHKUMAR R, 3rd year B.E., Computer Science and Engineering Student of J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY (ANNA UNIVERSITY), T.N. PALAYAM, has attended Internship in our organization from July 13th 2023 to July 18th 2023.

During this Internship, he has learned the overview concept of WEB DEVELOPMENT WITH PYTHON PROGRAMMING.

Thanking You.

BRAINERY SPOT TECHNOLOGY

Authorized Signatory

braineryspot.com hradmin@braineryspot.com 98944 50083
Branch : 2nd Floor, 38, Ansari Street, Ram Nagar, Coimbatore - 641009

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Date: 25-7-2023

This is to certify that M. KARUNYAA Reg.No: 7312010401O in BE-[CSE] III year student of J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N.PALAYAM has completed the Internship/In-plant Training under the WEB DEVELOPMENT in Durga Tech from 20-7-23 to 25-7-23

During this Internship/In-plant Training M. KARUNYAA found to be highly sincere, committed, hard working, progressive and professional towards her/his work and is capable of discharging her/his duties in a similar capacity and her/his conduct was found to be good during her/his period of Internship/In-plant Training.

We wish M. KARUNYAA success in her/his future endeavors in her/his career.

Regards

For Durga Tech

Thanking You

78D, Sri Murugan Complex,
Nachiappa 1st Street,
Near Bus Stand, Erode - 638001
Ph: 73737 16107

www.durgatech.org
info.durgatech@gmail.com

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Date : 25-07-2023

This is to certify that S. RAMYA Reg.No: 731220104021 in BE - [CSE] III rd year student of J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N.PALAYAM has completed the Internship/In-plant Training under the WEB DEVELOPMENT in Durga Tech from 20.7.23 to 25.7.23

During this Internship/In-plant Training S. RAMYA found to be highly sincere, committed, hard working, progressive and professional towards her/his work and is capable of discharging her/his duties in a similar capacity and her/his conduct was found to be good during her/his period of Internship/In-plant Training.

We wish S. RAMYA success in her/his future endeavors in her/his career.

Regards

For Durga Tech

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info.durgatech@gmail.com

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Date: 25-07-2023

This is to certify that T. ROSHMA Reg.No: 731220104023 in BE-[CSE] III Yr year student of JKK. MUNIRAJAH COLLEGE OF TECHNOLOGY, TN-PALAYAM has completed the Internship/In-plant Training under the WEB DEVELOPMENT in Durga Tech from 20.7.23 to 25.7.23

During this Internship/In-plant Training T. ROSHMA found to be highly sincere, committed, hard working, progressive and professional towards her/his work and is capable of discharging her/his duties in a similar capacity and her/his conduct was found to be good during her/his period of Internship/In-plant Training.

We wish T ROSHMA success in her/his future endeavors in her/his career.

Regards

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ETHER iNFOTECH

Date: 12/07/2023

INTERNSHIP CERTIFICATE

This is to inform that Mr. SUNDARA GANESAN .K, BE, COMPUTER SCIENCE, student of JKKM COLLEGE OF TECHNOLOGY, ERODE, has attended Internship training in our organization from July 06th 2023 to July 12th 2023.

During this Internship training, he has learned the overview concepts of DIGITAL MARKETING.

Thanking You.

For Ether Infotech

Authorised Signatory

35/4, 2nd Floor, Arputham Towers, Desabandhu Street, Ram Nagar, Coimbatore - 641009
W: www.etherinfotech.com | E: prasanth@etherinfotech.com
T : 0422 - 3511420 | M: 95002 95905 • 82205 71905

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GOBI (Tk), ERODE (Dt).

ETHER INFOTECH

Date: 12/07/2023

INTERNSHIP CERTIFICATE

This is to inform that **Mr. BOOPALAN .M, BE, COMPUTER SCIENCE,** student of **JKKM COLLEGE OF TECHNOLOGY,** ERODE, has attended Internship training in our organization from July 06th 2023 to July 12th 2023.

During this Internship training, he has learned the overview concepts of **MACHINE LEARNING.**

Thanking You.

For Ether Infotech

Authorised Signatory

35/4, 2nd Floor, Arputham Towers, Desabandhu Street, Ram Nagar, Coimbatore - 641009
W: www.etherinfotech.com | E: prasanth@etherinfotech.com
T: 0422 - 3511420 | M: 95002 95905 • 82205 71905

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Certificate of Training and Instruction

This is to certify that **DHARANI SELVI M (731220104007)** a Student Of **"J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY"** has successfully completed her **INTERNSHIP PROGRAM in ANDROID APP DEVELOPMENT** at our Concern from **03.07.2023 to 07.07.2023**

LIT TECH INDIA PVT LTD

Authorized Signatory

STUDENT ID: LITZH22906

CERTIFICATE ID: LITZH22907

No 4,Arangasamy Nagar, Sitra, Civil Aerodrome(po),Coimbatore - 641014

www.litztech.in coimbatore@litztech.in Tel : 0422 4382930

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T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).

SAMCORE SOLUTION

CERTIFICATE
OF INTERNSHIP

This is to certify that Mr. / Ms. /

SIVALINGAM K (731920104024)

Student of BE-CSE, JKK MUNIRAJAH COLLEGE OF TECHNOLOGY

has completed the Internship Program on TOOLKIT PROFESSION

for the period from 10.07.2023 to 14.07.2023.

CERT. NO: 2023/07674

#16, 2nd Floor, Rangoo Complex
Chatram Bus Stand, Trichy - 620002
9843207599. www.samcoresolution.in

SEAL

HEAD

SAMCORE SOLUTION

CERTIFICATE
OF INTERNSHIP

This is to certify that Mr. / Ms. /

DHAMODARAN G (731920104302)

Student of BE-CSE, JKK MUNIRAJAH COLLEGE OF TECHNOLOGY

has completed the Internship Program on TOOLKIT PROFESSION

for the period from 10.07.2023 to 14.07.2023.

CERT. NO: 2023/07673

#16, 2nd Floor, Rangoo Complex
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9843207599. www.samcoresolution.in

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KaaShiv InfoTech

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.BALAKRISHNAN.V**, studying **BE.Computer Science and Engineering** in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed Internship Program from **30.01.2023** to **04.02.2023** at **Kaashiv info tech,** Chennai
During the Internship, her Performance was good.

Manager

KaaShiv InfoTech

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.DHATCHANA MOORTHI.A.P**, studying **BE.Computer Science and Engineering** in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed Internship Program from **30.01.2023** to **04.02.2023** at **Kaashiv info tech, Chennai**
During the Internship, her Performance was good.

Manager

PRINCIPAL
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KaaShiv InfoTech

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.MADHAN.M**, studying **BE.Computer Science and Engineering** in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed Internship Program **from 30.01.2023** to **04.02.2023** at **Kaashiv info tech**, Chennai
During the Internship, her Performance was good.

Manager

KaaShiv InfoTech

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.MOHANRAJ.S**, studying **BE.Computer Science and Engineering** in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed Internship Program from **30.01.2023** to **04.02.2023** at **Kaashiv info tech**, Chennai
During the Internship, her Performance was good.

Manager

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TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr.PRATHAP.N, studying BE.Computer Science and Engineering in J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY has successfully completed Internship Program from 30.01.2023 to 04.02.2023 at Kaashiv info tech, Chennai
During the Internship, her Performance was good.

Manager

KaaShiv InfoTech

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr.PRAVIN.S, studying BE.Computer Science and Engineering in J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY has successfully completed Internship Program from 30.01.2023 to 04.02.2023 at Kaashiv info tech, Chennai
During the Internship, her Performance was good.

Manager

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TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.SANTHA MOORTHI.R**, studying **BE.Computer Science and Engineering** in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed Internship Program from **30.01.2023** to **04.02.2023** at **Kaashiv Info tech, Chennai**
During the Internship, her Performance was good.

Manager

KaaShiv InfoTech

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.SENTHIL KUMAR.V**, studying **BE.Computer Science and Engineering** in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed Internship Program from **30.01.2023** to **04.02.2023** at **Kaashiv Info tech, Chennai**
During the Internship, her Performance was good.

Manager

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KaaShiv InfoTech

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.SUBASH CHANDRAN.P**, studying **BE.Computer Science and Engineering** in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed Internship Program from **30.01.2023** to **04.02.2023** at **Kaashiv info tech, Chennai**
During the Internship, her Performance was good.

Manager

KaaShiv InfoTech

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.TAMILSELVAN.A**, studying **BE.Computer Science and Engineering** in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed Internship Program from **30.01.2023** to **04.02.2023** at **Kaashiv info tech, Chennai**
During the Internship, her Performance was good.

Manager

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Squaresoft Technologies

SQUARE SOFT TECHNOLOGIES

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.BHUVANESHWARI.M** studying **BE.Computer Science and Engineering** in **JKK Munirajah College of Technology** has/have successfully completed the internship program from **23.01.2023** to **28.01.2023** at **SQUARESOFT TECHONOLOGIES**, Coimbatore. His/Her performance was good throughout the internship.

Manager

28.01.2023
Date

Squaresoft Technologies

SQUARE SOFT TECHNOLOGIES

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms.INDHUMATHI.P** studying **BE.Computer Science and Engineering** in **JKK Munirajah College of Technology** has/have successfully completed the internship program from **23.01.2023** to **28.01.2023** at **SQUARESOFT TECHONOLOGIES**, Coimbatore. His/Her performance was good throughout the internship.

Manager

28.01.2023
Date

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GOBI (Tk), ERODE (Dt).

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TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms.MAHESHWARI.M** studying **BE.Computer Science and Engineering** in **JKK Munirajah College of Technology** has/have successfully completed the internship program from **23.01.2023** to **28.01.2023** at **SQUARESOFT TECHONOLOGIES**, Coimbatore.
His/Her performance was good throughout the internship.

Manager

28.01.2023
Date

Squaresoft Technologies

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TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms.PAVITHRA.R** studying **BE.Computer Science and Engineering** in **JKK Munirajah College of Technology** has/have successfully completed the internship program from **23.01.2023** to **28.01.2023** at **SQUARESOFT TECHONOLOGIES**, Coimbatore.
His/Her performance was good throughout the internship.

Manager

28.01.2023
Date

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TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms.PRIYA.S** studying **BE.Computer Science and Engineering** in **JKK Munirajah College of Technology** has/have successfully completed the internship program from **23.01.2023** to **28.01.2023** at **SQUARESOFT TECHONOLOGIES**, Coimbatore. His/Her performance was good throughout the internship.

Manager

28.01.2023
Date

Squaresoft Technologies

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This is to certify that **Ms.RAMYA.V** studying **BE.Computer Science and Engineering** in **JKK Munirajah College of Technology** has/have successfully completed the internship program from **23.01.2023** to **28.01.2023** at **SQUARESOFT TECHONOLOGIES**, Coimbatore. His/Her performance was good throughout the internship.

Manager

28.01.2023
Date

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GOBI (Tk), ERODE (Dt).

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SQUARE SOFT TECHNOLOGIES

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms.SUDHA DHARANI.R** studying **BE.Computer Science and Engineering** in **JKK Munirajah College of Technology** has/have successfully completed the internship program from **23.01.2023** to **28.01.2023** at **SQUARESOFT TECHONOLOGIES**, Coimbatore. His/Her performance was good throughout the internship.

Manager

28.01.2023
Date

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TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms.SURIYA.R** studying **BE.Computer Science and Engineering** in **JKK Munirajah College of Technology** has/have successfully completed the internship program from **23.01.2023** to **28.01.2023** at **SQUARESOFT TECHONOLOGIES**, Coimbatore. His/Her performance was good throughout the internship.

Manager

28.01.2023
Date

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This is to certify that **Ms.SURIYA SARASWATHI.M** studying **BE.Computer Science and Engineering** in **JKK Munirajah College of Technology** has/have successfully completed the internship program from **23.01.2023** to **28.01.2023** at **SQUARESOFT TECHONOLOGIES**, Coimbatore.

His/Her performance was good throughout the internship.

Manager — Date: 28.01.2023

Squaresoft Technologies

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TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms.VENNILA.C** studying **BE.Computer Science and Engineering in JKK Munirajah College of Technology** has/have successfully completed the internship program from **23.01.2023** to **28.01.2023** at **SQUARESOFT TECHONOLOGIES**, Coimbatore.

His/Her performance was good throughout the internship.

Manager — Date: 28.01.2023

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GOBI (Tk), ERODE (Dt).

INFORMATIONTECHNOLOGY

- **DINESH M, KARTHICKRAJA ,KOWSALYA G,MAVURIYA D, MOTHIR L, NANDHINI S, PANDEESWARAN C K,PARTHIBAN.M,RATHNA.R,RITHIK.S,SUYAMBURAJ.C** of Information Technology undergone internship at "CODE BIND TECHNOLOGY" Chennai,from27.06.2023 to 03.07.2023.
- **MADHANKUMAR N, MANIGANDAN M, MANOJKUMAR S, RAVIKUMAR M, ROHITH V, SHARANKUMAR M V** of Information Technology undergone internship at "CODE BIND TECHNOLOGY" Chennai, from 03.07.2023 to 07.07.2023.
- **DEVIKA A, DHARSHINI P** of Information Technology undergone internship at "ETHER INFO TECH" Erode, from06.07.2023 to 12.07.2023.
- **BHUVANESWARAN M, BOOPATHI C, DHAYALAN R, NAVEEN S** of Information Technology undergone internship at "ETHER INFO TECH" Erode, from10.07.2023 to 14.07.2023.
- **KAVIBHARATHI G** of Information Technology undergone internship at "ETHER INFO TECH" Erode, from04.07.2023 to 18.07.2023.
- **KRISHNAN S** of Information Technology undergone internship at "ETHER INFO TECH" Erode, from19.06.2023 to 23.06.2023.
- **MAHADEVAMMA S, MANILA K, AHALYA J C** of Information Technology undergone internship at "THRIVE INFO TECH" Erode, from 10.07.2023 to 15.07.2023.
- **KAVIN.P, POORANESHWARAN.N** of Information Technology undergone internship at "ACCENT TECHNO SOFT" Coimbatore, from10.07.2023 to 20.07.2023.
- **DEEPAK.A, RAMKUMAR.R** of Information Technology undergone internship at "ANJANA INFO TECH" Coimbatore, from03.07.2023 to 13.07.2023.
- **GOKUL.S, PANDIYARAJ.C, RAVISANKARAN.N, THANGESHWARI.G** of Information Technology undergone internship at "APPIN TECH" Coimbatore, from 03.07.2023 to 13.07.2023.
- **AJAYSRI.A, KALAISELVI.K, PARVATHY.A, PRIYANKA.S, SHILPA.C** of

PRINCIPAL
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T.N. PALAYAM (Po)-638 506.

Information Technology undergone internship at "ETHER INFO TECH" Coimbatore, from 04-7-2023 to 18.7.2023.

- **DHINESHKUMAR .M, DINESH.S, LENA TAMILVANAN.G, MAYILRAJ.V, MUTHUKUMAR.G, SRIRAM.V** of Information Technology undergone internship at "ETHER INFO TECH" Coimbatore, from 06-7-2023 to 12.7.2023.
- **SHIJINKUMAR K.G** of Information Technology undergone internship at "NETWORKZ SYSTEMS" Marthandam, from 04.07.2023 to 20.07.2023.
- **RAVINDHIRAN.R** of Information Technology undergone internship at "SAM CORE SOLUTION" Trichy, from 10.07.2023 to 14.07.2023.
- **VAIGAIRAJ.M, GOWTHAM.H, MAHANTESH.S, NANDHINI.R, NAVEEN.S, NINGARAJU.S, NITHYA.K, PRABHU.M, PRIYADHARSINI.T, VAIDEVI.M,** of Information Technology undergone internship at "TRIOX TECHNOLOGIES" Coimbatore, from 25.01.2023 to 31.01.2023.

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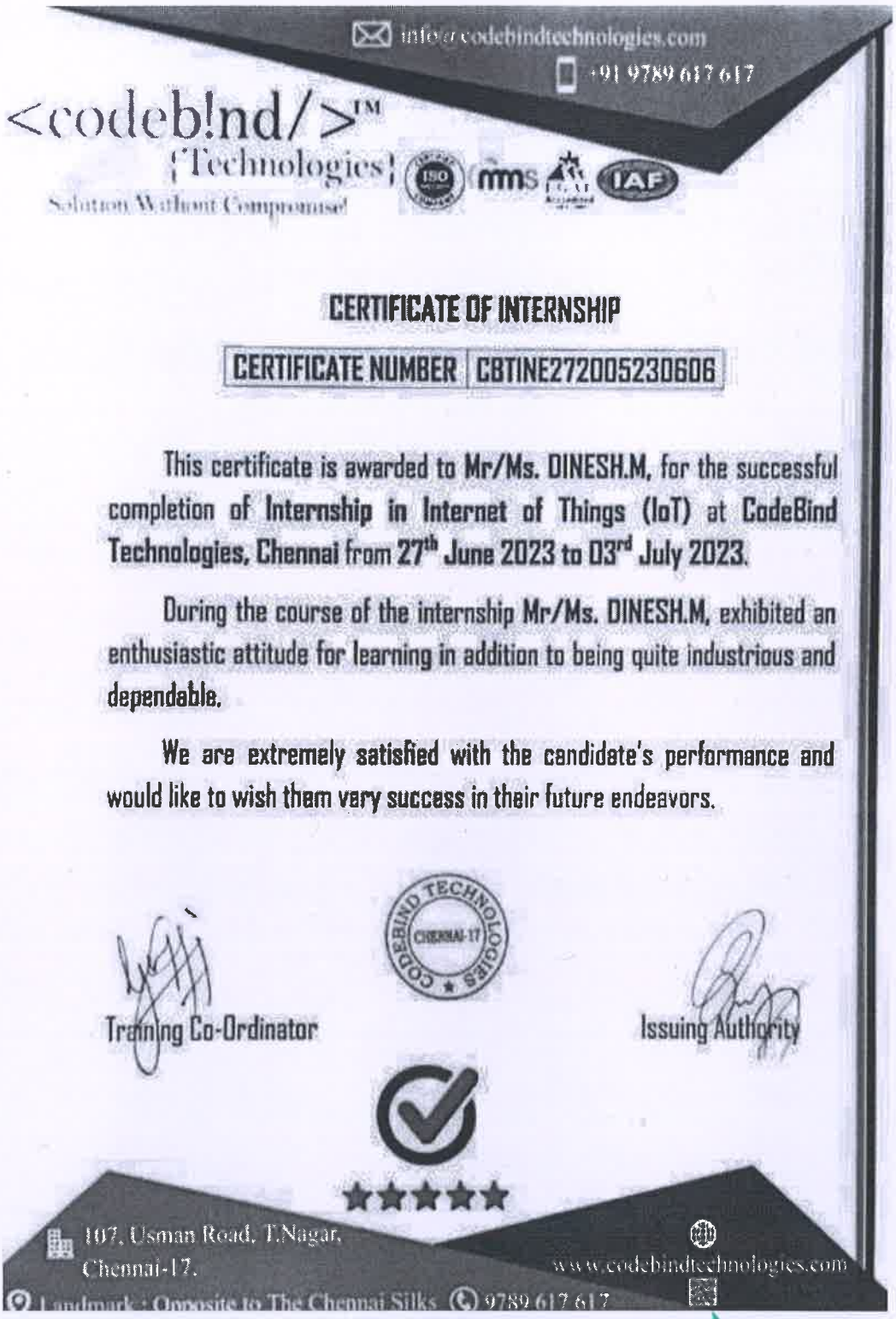

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+91 9789 617 617

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CERTIFICATE OF INTERNSHIP

CERTIFICATE NUMBER | CBTINE272005230611

This certificate is awarded to Mr/Ms. KOWSALYA.G, for the successful completion of Internship in Internet of Things (IoT) at CodeBind Technologies, Chennai from 27th June 2023 to 03rd July 2023.

During the course of the internship Mr/Ms. KOWSALYA.G, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

CODEBIND TECHNOLOGIES CHENNAI-17

Training Co-Ordinator

Issuing Authority

★★★★★

107, Usman Road, T.Nagar,
Chennai-17.
Landmark: Opposite to The Chennai Silks 9789 617 617
www.codebindtechnologies.com

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GOBI (Tk), ERODE (Dt).

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+91 9789 617 617

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CERTIFICATE OF INTERNSHIP

CERTIFICATE NUMBER | **CBTINE272005230609**

This certificate is awarded to **Mr/Ms. MAVURIYA.D,** for the successful completion of **Internship in Internet of Things (IoT)** at **CodeBind Technologies, Chennai** from **27th June 2023** to **03rd July 2023.**

During the course of the internship **Mr/Ms. MAVURIYA.D,** exhibited an enthusiastic attitude for learning **in addition to being quite industrious** and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

CODEBIND TECHNOLOGIES CHENNAI-17

Training Co-Ordinator

Issuing Authority

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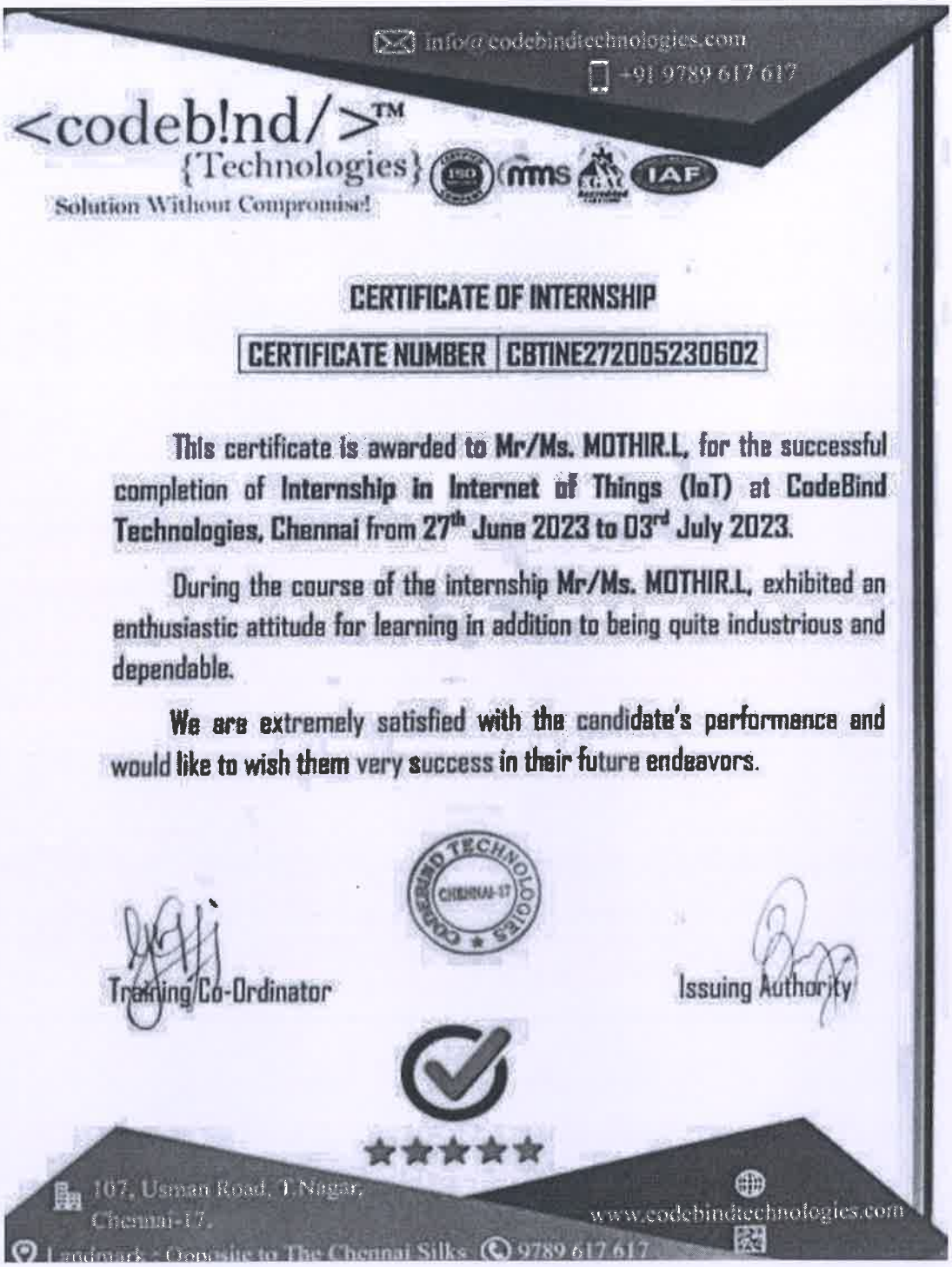
GOBI (Tk), ERODE (Dt).



CERTIFICATE OF INTERNSHIP

CERTIFICATE NUMBER | CBTINE272005230602

This certificate is awarded to Mr/Ms. MOTHIR.L, for the successful completion of Internship in Internet of Things (IoT) at CodeBind Technologies, Chennai from 27th June 2023 to 03rd July 2023.

During the course of the internship Mr/Ms. MOTHIR.L, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

CODEBIND TECHNOLOGIES CHENNAI-17

Training Co-Ordinator

Issuing Authority

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CERTIFICATE OF INTERNSHIP

CERTIFICATE NUMBER | CBTINE272005230603

This certificate is awarded to Mr/Ms. NANDHINI.S, for the successful completion of Internship in Internet of Things (IoT) at CodeBind Technologies, Chennai from 27th June 2023 to 03rd July 2023.

During the course of the internship Mr/Ms. NANDHINI.S, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

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GOBI (Tk), ERODE (Dt).

CERTIFICATE OF INTERNSHIP

CERTIFICATE NUMBER | CBTINE272005230605

This certificate is awarded to Mr/Ms. PARTHIBAN.M, for the successful completion of Internship in Internet of Things (IoT) at CodeBind Technologies, Chennai from 27th June 2023 to 03rd July 2023.

During the course of the internship Mr/Ms. PARTHIBAN.M, exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

CODEBIND TECHNOLOGIES CHENNAI-17

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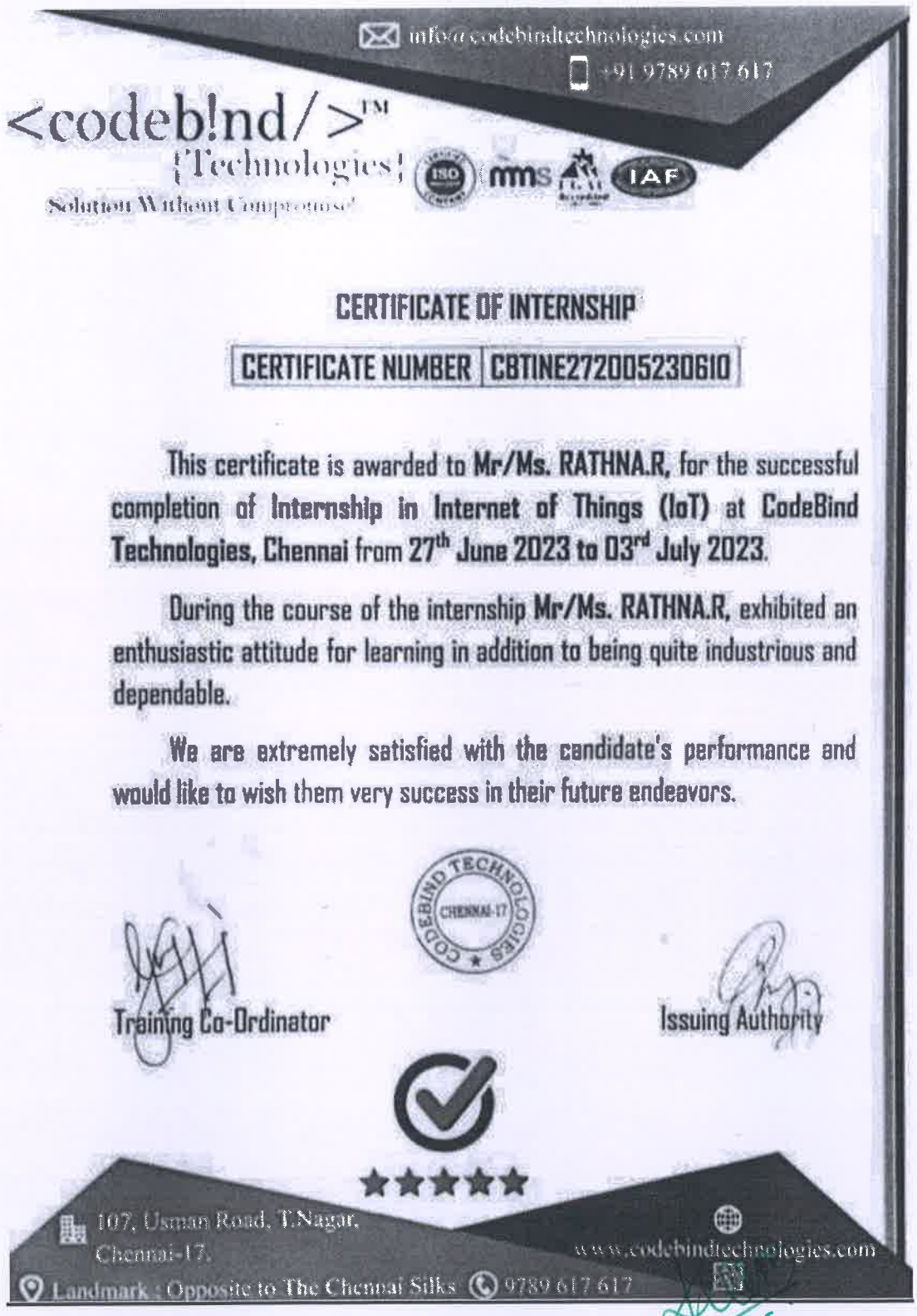

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CERTIFICATE OF INTERNSHIP

CERTIFICATE NUMBER | CBTINE272005230601

This certificate is awarded to **Mr/Ms. RITHIK.S,** for the successful completion of **Internship in Internet of Things (IoT)** at **CodeBind Technologies, Chennai** from **27th June 2023 to 03rd July 2023.**

During the course of the internship **Mr/Ms. RITHIK.S,** exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

CODEBIND TECHNOLOGIES CHENNAI-17

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CERTIFICATE OF INTERNSHIP

CERTIFICATE NUMBER | CBTINE272005230608

This certificate is awarded to Mr/Ms. **SUYAMBURAJ.C,** for the successful completion of Internship in Internet of Things (IoT) at CodeBind Technologies, Chennai from 27th June 2023 to 03rd July 2023.

During the course of the internship Mr/Ms. **SUYAMBURAJ.C,** exhibited an enthusiastic attitude for learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

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CERTFICATE OF INTERNSHIP

CERTIFICATE NUMBER CBTINE272005230706

This certificate is awarded toMr/Ms. MADHAN KUMAR.N. for the successful completion of Internship in Internet of Things (IOT) at CodeBind Technologies, Chennai from 3rd July 2023 to 07th July 2023.

During the course of the internship Mr/Ms. MADHAN KUMAR.N, exhibited an enthusiastic attitude far learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

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CERTFICATE OF NTERNSHIP

CERTIFICATE NUMBER CBTNE272005230704

This certificate is awarded to Mr/Ms.MANIGANDAN.M , for the successful completion of Internship in Internet of Things (IOT) at CodeBind Technologies, Chennai from 3rd July 2023 to 07th July 2023.

During the course of the internship Mr/Ms. MANIGANDAN.M, exhibited an enthusiastic attitude far learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

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CERTFICATE OF NTERNSHIP

CERTIFICATE NUMBER CBTINE272005230705

This certificate is awarded to Mr/Ms.MANOJ KUMAR.S, for the successful completion of Internship in Internet of Things (IOT) at CodeBind Technologies, Chennai from 3rd July 2023 to 07th July 2023.

During the course of the internship Mr/Ms. MANOJ KUMAR.S, exhibited an enthusiastic attitude far learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

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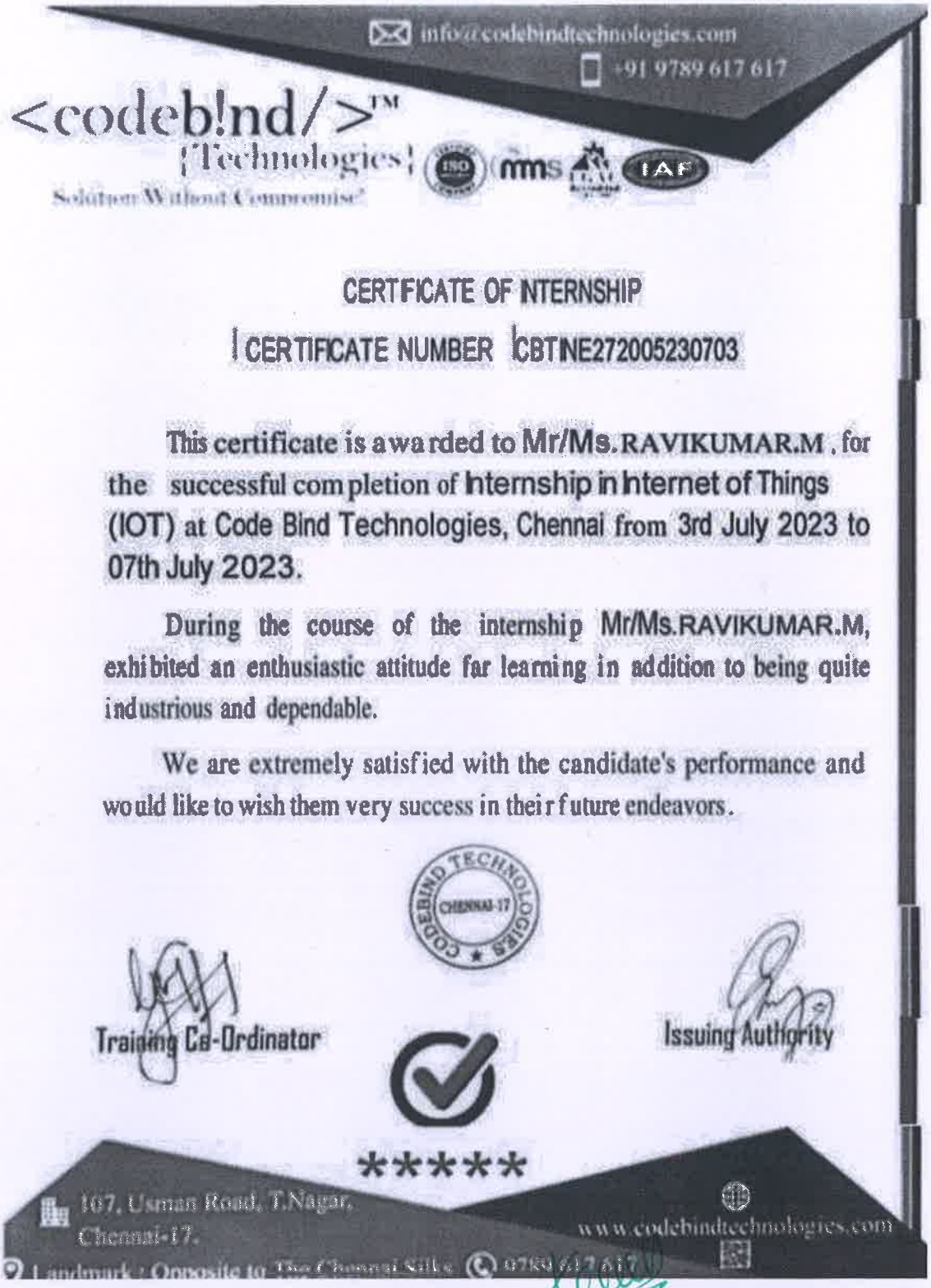

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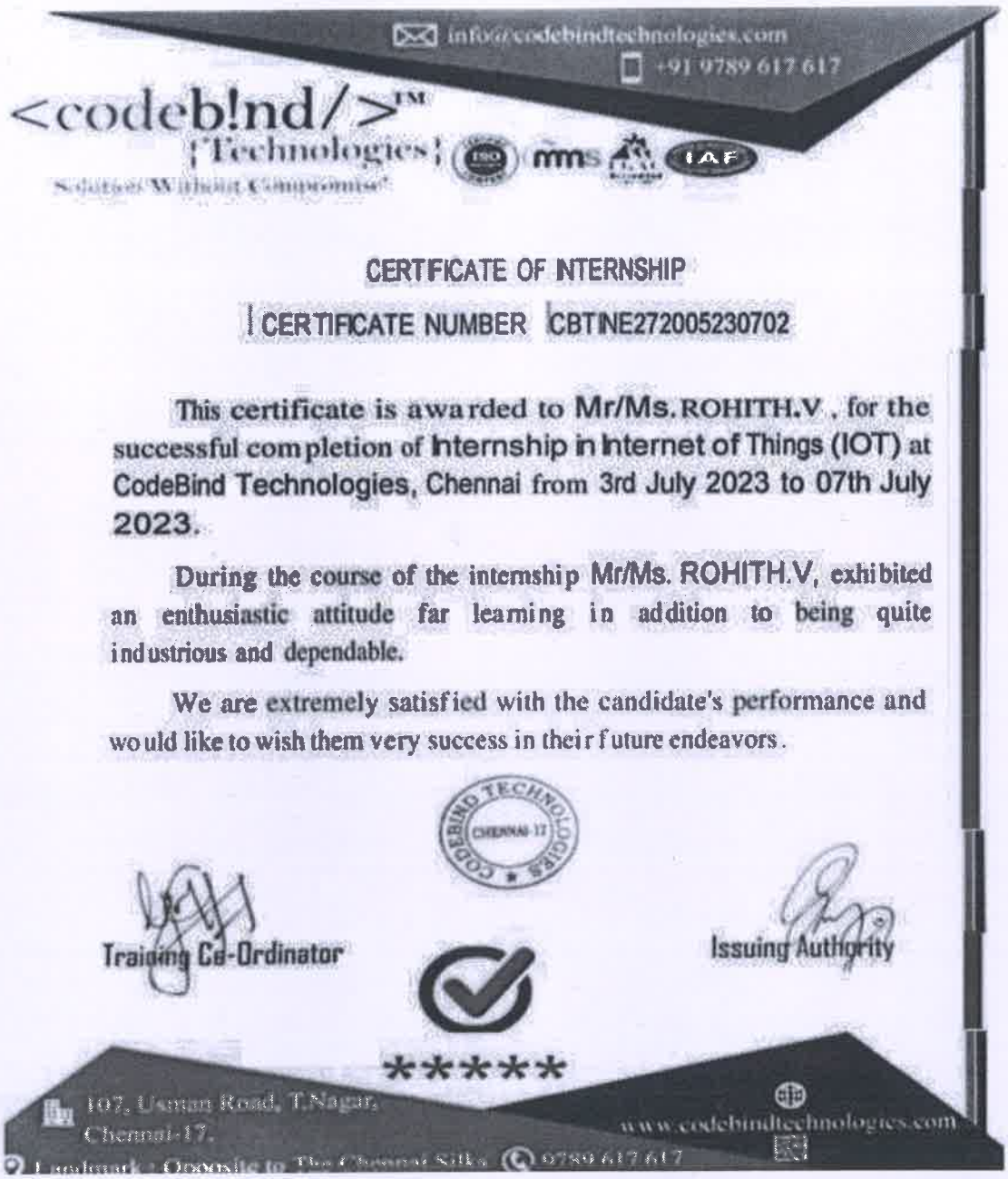

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CERTFICATE OF NTERNSHIP

CERTIFICATE NUMBER CBTINE272005230702

This certificate is awarded to Mr/Ms. ROHITH.V , for the successful completion of Internship in Internet of Things (IOT) at CodeBind Technologies, Chennai from 3rd July 2023 to 07th July 2023.

During the course of the internship Mr/Ms. ROHITH.V, exhibited an enthusiastic attitude far learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

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CERTIFICATE OF INTERNSHIP

CERTIFICATE NUMBER CBTINE272005230701

This certificate is awarded to Mr/Ms.SHARAN KUMAR.M.V , for the successful completion of Internship in Internet of Things (IOT) at CodeBind Technologies, Chennai from 3rd July 2023 to 07th July 2023.

During the course of the internship Mr/Ms. SHARAN KUMAR.M.V, exhibited an enthusiastic attitude far learning in addition to being quite industrious and dependable.

We are extremely satisfied with the candidate's performance and would like to wish them very success in their future endeavors.

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ETHER INFOTECH

Date: 12/07/2023

INTERNSHIP CERTIFICATE

This is to inform that **Ms. DEVIKA .A, B.TECH – INFORMATION TECHNOLOGY,** student of **JKKM COLLEGE OF TECHNOLOGY,** ERODE, has attended Internship training in our organization from July 06th 2023 to July 12th 2023.

During this Internship training, she has learned the overview concepts of **PYTHON.**

Thanking You.

For Ether Infotech

Authorised Signatory

35/4, 2nd Floor, Arputham Towers, Desabandhu Street, Ram Nagar, Coimbatore - 641009
W: www.etherinfotech.com | E: prasanth@etherinfotech.com
T: 0422 - 3511420 | M: 95002 95905 • 82205 71905

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ETHER iNFOTECH

Date: 15/07/2023

INTERNSHIP CERTIFICATE

This is to inform that **Ms. DHARSHINI .P, B.TECH - INFORMATION TECHNOLOGY**, student of **JKKM COLLEGE OF TECHNOLOGY, T.N. PALAYAM, ERODE,** has attended Internship training in our organization from July 10th 2023 to July 15th 2023.

During this Internship training, she has learned the overview concepts of **PYTHON.**

Thanking You.

For Ether Infotech

Authorised Signatory

35/4, 2nd Floor, Arputham Towers, Desabandhu Street, Ram Nagar, Coimbatore - 641009
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ETHER INFOTECH

Date: 14/07/2023

INTERNSHIP CERTIFICATE

This is to inform that Mr. BHUVANESWARAN. M, B.TECH - INFORMATION TECHNOLOGY, student of J K K MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N. PALAYAM, ERODE, has attended Internship training in our organization from July 10th 2023 to July 14th 2023.

During this Internship training, he has learned the overview concepts of WEB DESIGN.

Thanking You.

For Ether Infotech

Authorised Signatory

35/4, 2nd Floor, Arputham Towers, Desabandhu Street, Ram Nagar, Coimbatore - 641009
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GOBI (Tk), ERODE (Dt).

ETHER iNFOTECH

Date: 14/07/2023

INTERNSHIP CERTIFICATE

This is to inform that **Mr. BOOPATHI. C, B.TECH - INFORMATION TECHNOLOGY,** student of **J K K MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N. PALAYAM, ERODE,** has attended Internship training in our organization from July 10th 2023 to July 14th 2023.

During this Internship training, he has learned the overview concepts of **WEB DESIGN.**

Thanking You.

For Ether Infotech

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GOBI (Tk), ERODE (Dt).

ETHER INFOTECH

Date: 14/07/2023

INTERNSHIP CERTIFICATE

This is to inform that Mr. DHAYALAN. R, B.TECH - INFORMATION TECHNOLOGY, student of J K K MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N. PALAYAM, ERODE, has attended Internship training in our organization from July 10th 2023 to July 14th 2023.

During this Internship training, he has learned the overview concepts of WEB DESIGN.

Thanking You.

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Date: 14/07/2023

INTERNSHIP CERTIFICATE

This is to inform that **Mr. NAVEEN. S, B.TECH - INFORMATION TECHNOLOGY,** student of **J K K MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N. PALAYAM, ERODE,** has attended Internship training in our organization from July 10th 2023 to July 14th 2023.

During this Internship training, he has learned the overview concepts of **WEB DESIGN.**

Thanking You.

For Ether Infotech

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ETHER iNFOTECH

Date: 18/07/2023

INTERNSHIP CERTIFICATE

This is to inform that **Ms. KAVIBHARATHI .G, 2nd year, B.TECH – INFORMATION TECHNOLOGY, student of JKK MUNIRAJAH COLLEGE OF TECHNOLOGY, ERODE, has attended Internship training in our organization from July 04th 2023 to July 18th 2023.**

During this Internship training, she has learned the overview concepts of **PYTHON.**

Thanking You.

For Ether Infotech

Authorised Signatory

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ETHER iNFOTECH

Date: 23/06/2023

INTERNSHIP CERTIFICATE

This is to inform that Mr. KRISHNAN .S, 02nd year, B.TECH-INFORMATION TECHNOLOGY, student of J.K.K MUNIRAJAH COLLEGE OF TECHNOLOGY, GOBI, has attended Internship training in our organization from June 19th 2023 to June 23rd 2023.

During this Internship training, he has learned the overview concepts of PYTHON.

Thanking You.

For Ether Infotech

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info@thriveinfotech.com
www.thriveinfotech.com

Date: 15.07.2023

CERTIFICATE OF COMPLETION

This is to certify that Ms. Mahadevamma.S (Reg No. : 731221205017) has completed INTERNSHIP successfully from 10.07.2023 to 15.07.2023 in our organization.

During this period He/She had undergone training on INTRODUCTION TO DIGITAL MARKETING & IT'S STRATEGIES and had shown an exemplary attitude and approach.

Approved by

Rajkumar Thangamani
Managing Director

265, Ramesh Murugan Complex, Ground Floor,
Subban Street, Theni-625531

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+91 9384353564
info@thriveinfotech.com
www.thriveinfotech.com

Date: 15.07.2023

CERTIFICATE OF COMPLETION

This is to certify that Ms. Manila.K (Reg No. : 731221205020) has completed INTERNSHIP successfully from 10.07.2023 to 15.07.2023 in our organization.

During this period He/She had undergone training on INTRODUCTION TO DIGITAL MARKETING & IT'S STRATEGIES and had shown an exemplary attitude and approach.

Approved by

Rajkumar Thangamani
Managing Director

Thrive InfoTech
265, Ramesh Murugan Complex,
Ground Floor,Subban Street,
Theni - 625531

265, Ramesh Murugan Complex, Ground floor,
Subban Street, Theni-625531

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info@thriveinfotech.com
www.thriveinfotech.com

Date: 15.07.2023

CERTIFICATE OF COMPLETION

This is to certify that Ms. Ahalya.JC (Reg No. : 731221205301) has completed INTERNSHIP successfully from 10.07.2023 to 15.07.2023 in our organization.

During this period He/She had undergone training on INTRODUCTION TO DIGITAL MARKETING & IT'S STRATEGIES and had shown an exemplary attitude and approach.

Approved by

Rajkumar Thangamani
Managing Director

Thrive InfoTech
265, Ramesh Murugan Complex,
Ground Floor,Subban Street,
Theni - 625531

265, Ramesh Murugan Complex, Ground floor,
Subban Street, Theni-625531

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20.07.2023
Coimbatore

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.KAVIN P (Reg No:731220205012)** of **III B.Tech (Information Technology)** student from **JKK Munirajah College of Technology** has successfully completed his Internship Training in **" Full Stack Web Development "** at our esteemed organization. The Internship duration is from **10.07.2023 to20.07.2023 .**

During this period, he was sincere and regular in attending all the phases of internship program.

For Accent Techno Soft (ATS),

ACCENT TECHNO SOFT

Authorized Signatory

#203, Nehru Street, Ram Nagar, Coimbatore - 641009
www.accenttechnosoft.com 0422 - 4212232 info@accenttechnosoft.com

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ACCENT TECHNO SOFT
Quality Matters...

An ISO 9001:2015 Certified

20.07.2023
Coimbatore

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr.POORANESHWARAN N (Reg No:731220205301) of III B.Tech (Information Technology) student from JKK Munirajah College of Technology has successfully completed his Internship Training in " Full Stack Web Development " at our esteemed organization. The Internship duration is from 10.07.2023 to 20.07.2023 .

During this period, he was sincere and regular in attending all the phases of internship program.

For Accent Techno Soft (ATS),

ACCENT TECHNO SOFT CBE-09

Authorized Signatory

#203, Nehru Street, Ram Nagar, Coimbatore - 641009
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Anjana Infotech
Your Dream We Display

Date: 13.07.2023

INTERNSHIP TRAINING COMPLETION CERTIFICATE

This is to certify that the internship training entitled Mobile App Development submitted by Mr. A. Deepak (731220205004) Studying B.Tech(IT) at, J.K.K Munirajah College of Technology has undergone internship training at our Anjana Infotech Private Limited Rajapalayam, as a collaborative activity from 03.07.2023 to 13.07.2023. He has successfully Completed his Internship under my Guidance and is worthy of consideration for the same.

Thanking you.

M SAKTHI SARAVANAN
Proprietor

info@anjanainfotech.in
anjanainfotech.in
399 EB/5, Illathupillaimar Complex, Near Gandhi Statue, Rajapalayam - 626 117.
+91 97879 20633 | +91 9787 248063

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Anjana Infotech
Your Dream We Display

Date: 13.07.2023

INTERNSHIP TRAINING COMPLETION CERTIFICATE

This is to certify that the internship training entitled Mobile App Development submitted by **Mr. R. Ramkumar** (731220205019) Studying B.Tech (IT) at, J.K.K Munirajah College of Technology has undergone internship training at our **Anjana Infotech Private Limited Rajapalayam**, as a collaborative activity from 03.07.2023 to 13.07.2023. He has successfully Completed his Internship under my Guidance and is worthy of consideration for the same.

Thanking you.

Anjana Infotech
www.anjanainfotech.in
9787970633
Rajapalayam - 626 117

M SAKTHI SARAVANAN
Proprietor

info@anjanainfotech.in
anjanainfotech.in
359 B/5, Bathrapillaiyar Complex, Near Gandhi Statue, Rajapalayam 626 117
+91 97879 70633 | +91 9787 248043

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Date : 04.07.2023

INTERNSHIP CERTIFICATE

This is to inform that Mr. GOKUL S (731220205009), Third year, BACHELOR OF TECHNOLOGY in INFORMATION TECHNOLOGY, student of J. K. K MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N.PALAYAM, has attended Internship training in our organization from June 30th 2023 to July 04th 2023.

During this Internship training, He has learned the overview concepts of DATA SCIENCE WITH PYTHON.

Thanking You.

144, Sengupta Street, Ram Nagar,
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Date : 04.07.2023

INTERNSHIP CERTIFICATE

This is to inform that Mr. PANDIYARAJ C(731220205016), Third year, BACHELOR OF TECHNOLOGY in INFORMATION TECHNOLOGY, student of J. K. K MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N.PALAYAM, has attended Internship training in our organization from June 30th 2023 to July 04th 2023.

During this Internship training, He has learned the overview concepts of DATA SCIENCE WITH PYTHON.

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Date : 04.07.2023

INTERNSHIP CERTIFICATE

This is to inform that Mr. RAVISANKARAN N (731220205020), Third year, BACHELOR OF TECHNOLOGY in INFORMATION TECHNOLOGY, student of J. K. K MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N.PALAYAM, has attended Internship training in our organization from June 30th 2023 to July 04th 2023.

During this Internship training, He has learned the overview concepts of DATA SCIENCE WITH PYTHON.

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Date : 04.07.2023

INTERNSHIP CERTIFICATE

This is to inform that **Ms.THANGESHWARI G (731220205024)**, Third year, **BACHELOR OF TECHNOLOGY in INFORMATION TECHNOLOGY**, student of **J. K. K MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N.PALAYAM**, has attended Internship training in our organization from **June 30th 2023 to July 04th 2023.**

During this Internship training, She has learned the overview concepts of **DATA SCIENCE WITH PYTHON.**

Thanking You.

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ETHER
iNFCJTECH

Date: 18/07/2023

INTERNSBIP CERTIFICATE

This is to inform that Ms. AJAY SRI .A, 3rd year, B.TECH — INFORMATION TECHNOLOGY, student of JKK MUNIRAJAH COLLEGE OF TECHNOLOGY, ERODE, has attended Internship training in our organization from July 04th 2023 to July 18th 2023.

During this Internship training, she has learned the overview concepts of PYTHON.

Thanking You.

For Ether Infotech

Authorised Signatory

PRINCIPAL
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GOBI (Tk), ERODE (Dt).

ETHER INFOTECH

Date: 18/07/2023

INTERNSHIP CERTIFICATE

This is to inform that **Ms. KALAISELVI .K, 3rd year, B.TECH – INFORMATION TECHNOLOGY,** student of **JKK MUNIRAJAH COLLEGE OF TECHNOLOGY,** ERODE, has attended Internship training in our organization from July 04th 2023 to July 18th 2023.

During this Internship training, she has learned the overview concepts of **PYTHON.**

Thanking You.

For Ether Infotech

Authorised Signatory

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ETHER INFOTECH

Date: 18/07/2023

INTERNSHIP CERTIFICATE

This is to inform that **Ms. PARVATHY .A, 3rd year, B.TECH – INFORMATION TECHNOLOGY**, student of **JKK MUNIRAJAH COLLEGE OF TECHNOLOGY, ERODE**, has attended Internship training in our organization from July 04th 2023 to July 18th 2023.

During this Internship training, she has learned the overview concepts of **PYTHON.**

Thanking You.

For Ether Infotech

Authorised Signatory

35/4, 2nd Floor, Arputham Towers, Desabandhu Street, Ram Nagar, Coimbatore - 641009
W: www.etherinfotech.com | T: 0422 - 3511420 | M: 95002 95905 | E: info@etherinfotech.com

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T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).

ETHER iNFOTECH

Date: 18/07/2023

INTERNSHIP CERTIFICATE

This is to inform that Ms. PRIYANKA .S, 3rd year, B.TECH – INFORMATION TECHNOLOGY, student of JKK MUNIRAJAH COLLEGE OF TECHNOLOGY, ERODE, has attended Internship training in our organization from July 04th 2023 to July 18th 2023.

During this Internship training, she has learned the overview concepts of PYTHON.

Thanking You.

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Date: 18/07/2023

INTERNSHIP CERTIFICATE

This is to inform that **Ms. SHILPA .C, 3rd year, B.TECH – INFORMATION TECHNOLOGY,** student of **JKK MUNIRAJAH COLLEGE OF TECHNOLOGY,** ERODE, has attended Internship training in our organization from July 04th 2023 to July 18th 2023.

During this Internship training, she has learned the overview concepts of **PYTHON.**

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ETHER iNFOTECH

Date: 12/07/2023

INTERNSHIP CERTIFICATE

This is to inform that **Mr. DHINESH KUMAR .M, B.TECH, INFORMATION TECHNOLOGY,** student of **JKKM COLLEGE OF TECHNOLOGY,** ERODE, has attended Internship training in our organization from July 06th 2023 to July 12th 2023.

During this Internship training, he has learned the overview concepts of **MACHINE LEARNING.**

Thanking You.

For Ether Infotech

Authorised Signatory

35/4, 2nd Floor, Arputham Towers, Desabandhu Street, Ram Nagar, Coimbatore - 641009
W: www.etherinfotech.com | E: prasanth@etherinfotech.com
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ETHER iNFOTECH

Date: 12/07/2023

INTERNSHIP CERTIFICATE

This is to inform that Mr. DINESH .S, B.TECH - INFORMATION TECHNOLOGY, student of JKKM COLLEGE OF TECHNOLOGY, T.N. PALAYAM, ERODE, has attended Internship training in our organization from July 06th 2023 to July 12th 2023.

During this Internship training, he has learned the overview concepts of MACHINE LEARNING.

Thanking You.

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T.N. PALAYAM (Po)-638 506.
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Date: 12/07/2023

INTERNSHIP CERTIFICATE

This is to inform that **Ms. LENA TAMILVANAN .G, B.TECH – INFORMATION TECHNOLOGY,** student of **JKKM COLLEGE OF TECHNOLOGY,** ERODE, has attended Internship training in our organization from July 06th 2023 to July 12th 2023.

During this Internship training, she has learned the overview concepts of **MACHINE LEARNING.**

Thanking You.

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ETHER iNFOTECH

Date: 12/07/2023

INTERNSHIP CERTIFICATE

This is to inform that Mr. MAYILRAJ .V, B.TECH - INFORMATION TECHNOLOGY, student of JKKM COLLEGE OF TECHNOLOGY, T.N. PALAYAM, ERODE, has attended Internship training in our organization from July 06th 2023 to July 12th 2023.

During this Internship training, he has learned the overview concepts of MACHINE LEARNING.

Thanking You.

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ETHER iNFOTECH

Date: 12/07/2023

INTERNSHIP CERTIFICATE

This is to inform that **Mr. MUTHUKUMAR .G, B.TECH, INFORMATION TECHNOLOGY,** student of **JKKM COLLEGE OF TECHNOLOGY, ERODE,** has attended Internship training in our organization from July 06th 2023 to July 12th 2023.

During this Internship training, he has learned the overview concepts of **DIGITAL MARKETING.**

Thanking You.

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ETHER iNFOTECH

Date: 12/07/2023

INTERNSHIP CERTIFICATE

This is to inform that Mr. SRIRAM.V, B.TECH, INFORMATION TECHNOLOGY, student of JKKM COLLEGE OF TECHNOLOGY, ERODE, has attended Internship training in our organization from July 06th 2023 to July 12th 2023.

During this Internship training, he has learned the overview concepts of DIGITAL MARKETING.

Thanking You.

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At : NETWORKZ SYSTEMS, MARTHANDAM , INDIA

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OF INTERNSHIP

This is to certify that Mr Ms

Ravindhiyan.R (731220205302)

Student of B.TECH - IT JKK MUNIRAJAH COLLEGE OF TECHNOLOGY

has completed the Internship Program on IMAGE PROCESSING

for the period from 10-07-2023 to 14-07-2023

CERT. NO: 2023107676

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Chatram Bus Stand, Trichy - 620002
9843207599, www.samcoresolution.in

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INDUSTRIAL TECHNICAL ENGINEERS ASSOCIATION IN COIMBATORE

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.GOWTHAM.H**, studying **B Tech Information Technology** in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed Internship Program from **25.01.2023** to **31.01.2023** at **TRIOX TECHNOLOGIES**,coimbatore
During the Internship, her Performance was good.

Manager

TRIOX

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INDUSTRIAL TECHNICAL ENGINEERS ASSOCIATION IN COIMBATORE

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.MAHANTESH.S**, studying **B Tech Information Technology** in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed Internship Program from **25.01.2023** to **31.01.2023** at **TRIOX TECHNOLOGIES**,coimbatore
During the Internship, her Performance was good.

Manager

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TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms.NANDHINI.R**, studying **B Tech Information Technology** in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed Internship Program from **25.01.2023** to **31.01.2023** at **TRIOX TECHNOLOGIES**,coimbatore
During the Internship, her Performance was good.

Manager

TRIOX

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INDUSTRIAL TECHNICAL ENGINEERS ASSOCIATION IN COIMBATORE

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.NAVEEN.S**, studying **B Tech Information Technology** in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed Internship Program from **25.01.2023** to **31.01.2023** at **TRIOX TECHNOLOGIES**,coimbatore
During the Internship, her Performance was good.

Manager

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TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr.NINGARAJU.S**, studying **B Tech Information Technology** in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed Internship Program from **25.01.2023** to **31.01.2023** at **TRIOX TECHNOLOGIES**,coimbatore
During the Internship, her Performance was good.

Manager

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TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms.NITHYA.K**, studying **B Tech Information Technology** in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed Internship Program from **25.01.2023** to **31.01.2023** at **TRIOX TECHNOLOGIES**,coimbatore
During the Internship, her Performance was good.

Manager

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This is to certify that **Ms.PRIYADHARSINI.T**, studying **B Tech Information Technology** in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed Internship Program from **25.01.2023** to **31.01.2023** at **TRIOX TECHNOLOGIES**,coimbatore
During the Internship, her Performance was good.

Manager

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TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Ms.VAIDEVI.M**, studying **B Tech Information Technology** in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed **Internship Program** from **25.01.2023** to **31.01.2023** at **TRIOX TECHNOLOGIES**,coimbatore
During the Internship, her Performance was good.

Manager

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This is to certify that **Mr.VAIGAIRAJ.M**, studying **B Tech Information Technology** in **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has successfully completed Internship Program from **25.01.2023** to **31.01.2023** at **TRIOX TECHNOLOGIES**,coimbatore

During the Internship, her Performance was good.

Manager

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T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).

Since 2009

Date: 9.8.2022

Durga Tech
Research & Development

This is to certify that D. Kural Arasan Reg.No: 731219106301 in BE(ECE) IV year student of JKK Munirajah College of Technology, Gobi has completed the Internship/~~In plant~~ Training under the Embedded Systems in Durga Tech from 26.7.22 to 9.8.22

During this Internship/~~In plant~~ Training D. Kural Arasan found to be highly sincere, committed, hard working, progressive and professional towards ~~her~~/his work and is capable of discharging ~~her~~/his duties in a similar capacity and ~~her~~/his conduct was found to be good during ~~her~~/his period of Internship/~~In plant~~ Training.

We wish D. Kural Arasan success in ~~her~~/his future endeavors in ~~her~~/his career.

Thanking You

Regards
DURGA TECH
For Durga Tech
99449 16107

www.durgatech.org
info.durgatech@gmail.com

109, MR Complex, Nehru Street, Ram Nagar,
Gandhipuram, Coimbatore - 641009.
Ph: 99449 16107

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OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).

Since 2009

Durga Tech
Research & Development

Date : 9.8.2022

This is to certify that M. UDHAYAKUMAR Reg.No: 731219106021 in BE(ECE) IV year student of JKK MUNIRAJAH COLLEGE OF TECHNOLOGY, GOBI has completed the Internship/~~In-plant~~ Training under the EMBEDDED SYSTEMS in Durga Tech from 26.7.22 to 9.8.22

During this Internship/~~In-plant~~ Training M. UDHAYAKUMAR found to be highly sincere, committed, hard working, progressive and professional towards ~~her~~/his work and is capable of discharging ~~her~~/his duties in a similar capacity and ~~her~~/his conduct was found to be good during ~~her~~/his period of Internship/~~In-plant~~ Training.

We wish M. UDHAYAKUMAR success in ~~her~~/his future endeavors in ~~her~~/his career.

Thanking You

Received
For Durga Tech

www.durgatech.org
info.durgatech@gmail.com

109, MR Complex, Nehru Street, Ram Nagar,
Gandhipuram, Coimbatore - 641009.
Ph : 99449 16107

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T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).

Since 2009

Date : 9.8.2022

Durga Tech
Research & Development

This is to certify that P. Surendar Reg.No: 731219106019 in BE(ECE) IV year student of JKK Munirajah College of Technology, Gobi has completed the Internship/~~In-plant~~ Training under the Embedded Systems in Durga Tech from 26.7.22 to 9.8.22

During this Internship/~~In-plant~~ Training P. Surendar found to be highly sincere, committed, hard working, progressive and professional towards ~~her~~/his work and is capable of discharging ~~her~~/his duties in a similar capacity and ~~her~~/his conduct was found to be good during ~~her~~/his period of Internship/~~In-plant~~ Training.

We wish P. Surendar success in ~~her~~/his future endeavors in ~~her~~/his career.

Thanking You

For Durga Tech

www.durgatech.org
info.durgatech@gmail.com

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Ph : 99449 16107

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GOBI (Tk), ERODE (Dt).

Since 2009

Date: 9.8.2022

Durga Tech
Research & Development

This is to certify that K. Sathyapriya Reg.No: 731219106018 in BE(ECE) IV year student of JKK Munirajah College of Technology, Gobi has completed the Internship/~~In-plant~~ Training under the Embedded Systems in Durga Tech from 26.7.22 to 9.8.22

During this Internship/~~In-plant~~ Training K. Sathyapriya found to be highly sincere, committed, hard working, progressive and professional towards her/~~his~~ work and is capable of discharging her/~~his~~ duties in a similar capacity and her/~~his~~ conduct was found to be good during her/~~his~~ period of Internship/~~In-plant~~ Training.

We wish K. Sathyapriya success in her/~~his~~ future endeavors in her/~~his~~ career.

Thanking You

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Since 2009

Date 9.8.2022

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This is to certify that A. Sabari Gayathri Reg.No: 731219106016 in BE(ECE) IV year student of JKK Munirajah College of Technology, Gobi has completed the Internship/~~In-plant~~ Training under the Embedded Systems in Durga Tech from 26.7.22 to 9.8.22

During this Internship/~~In-plant~~ Training A. Sabari Gayathri found to be highly sincere, committed, hard working, progressive and professional towards her/~~his~~ work and is capable of discharging her/~~his~~ duties in a similar capacity and her/~~his~~ conduct was found to be good during her/~~his~~ period of Internship/~~In-plant~~ Training.

We wish A. Sabari Gayathri success in her/~~his~~ future endeavors in her/~~his~~ career.

Regards

For Durga Tech

Thanking You

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info.durgatech@gmail.com

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Date 9.8.2022

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This is to certify that R. Ramesh Prabhu Reg.No: 731219106014 in BE(ECE) IV year student of JKKMunirajah College of Technology, Gobi has completed the Internship/~~In-plant~~ Training under the Embedded Systems in Durga Tech from 26.7.22 to 9.8.22

During this Internship/~~In-plant~~ Training R. Ramesh Prabhu found to be highly sincere, committed, hard working, progressive and professional towards ~~her~~/his work and is capable of discharging ~~her~~/his duties in a similar capacity and ~~her~~/his conduct was found to be good during ~~her~~/his period of Internship/~~In-plant~~ Training.

We wish R. Ramesh Prabhu success in ~~her~~/his future endeavors in ~~her~~/his career.

Thanking You

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info.durgatech@gmail.com

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Since 2009

Date: 9.8.2022

Durga Tech
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This is to certify that M. Narmatha Reg.No: 731219106012 in BE(ECE) IV year student of JKK Munirajah College of Technology, Gobi has completed the Internship/~~In-plant~~ Training under the Embedded Systems in Durga Tech from 26.7.22 to 9.8.22

During this Internship/~~In-plant~~ Training M. Narmatha found to be highly sincere, committed, hard working, progressive and professional towards her/~~his~~ work and is capable of discharging her/~~his~~ duties in a similar capacity and her/~~his~~ conduct was found to be good during her/~~his~~ period of Internship/~~In-plant~~ Training.

We wish M. Narmatha success in her/~~his~~ future endeavors in her/~~his~~ career.

Regards

Thanking You

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info.durgatech@gmail.com

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Date 9.8.2022

This is to certify that M.Muthupandi Reg.No: 731219106010 in BE(ECE) IV year student of JKK Munirajah College of Technology, Gobi has completed the Internship/~~In-plant~~ Training under the Embedded Systems in Durga Tech from 26.7.22 to 9.8.22

During this Internship/~~In-plant~~ Training M.Muthupandi found to be highly sincere, committed, hard working, progressive and professional towards ~~her~~/his work and is capable of discharging ~~her~~/his duties in a similar capacity and ~~her~~/his conduct was found to be good during ~~her~~/his period of Internship/~~In-plant~~ Training.

We wish M.Muthupandi success in ~~her~~/his future endeavors in ~~her~~/his career.

Thanking You

For Durga Tech

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Date 9.8.2022

Durga Tech
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This is to certify that K. Mohan Reg.No: 731219106009 in BE(ECE) IV year student of JKKMunirajah College of Technology, Gobi has completed the Internship/~~In-plant~~ Training under the Embedded Systems in Durga Tech from ~~26.7.22~~ to 9.8.22

During this Internship/~~In-plant~~ Training K. Mohan found to be highly sincere, committed, hard working, progressive and professional towards ~~her~~/his work and is capable of discharging ~~her~~/his duties in a similar capacity and ~~her~~/his conduct was found to be good during ~~her~~/his period of Internship/~~In-plant~~ Training.

We wish K. Mohan success in ~~her~~/his future endeavors in ~~her~~/his career.

Thanking You

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Date 9.8.2022

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Research & Development

This is to certify that M.Mathankumar Reg.No: 731219106008 in BE(ECE) IV year student of JKKMunirajah College of Technology, Gobi has completed the Internship ~~In-plant~~ Training under the Embedded Systems in Durga Tech from 26.7.22 to 9.8.22

During this Internship/~~In-plant~~ Training M.Mathankumar found to be highly sincere, committed, hard working, progressive and professional towards ~~her~~/his work and is capable of discharging ~~her~~/his duties in a similar capacity and ~~her~~/his conduct was found to be good during ~~her~~/his period of Internship/~~In-plant~~ Training.

We wish M.Mathankumar success in ~~her~~/his future endeavors in ~~her~~/his career.

Regards,

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This is to certify that K. Kemparaj Reg.No: 731219106006 in BE(ECE) IV year student of JKKMunirajah College of Technology, Gobi has completed the Internship/~~In-plant~~ Training under the Embedded Systems in Durga Tech from 26.7.22 to 9.8.22

During this Internship/~~In-plant~~ Training K. Kemparaj found to be highly sincere, committed, hard working, progressive and professional towards ~~her~~/his work and is capable of discharging ~~her~~/his duties in a similar capacity and ~~her~~/his conduct was found to be good during ~~her~~/his period of Internship/~~In-plant~~ Training.

We wish K. Kemparaj success in ~~her~~/his future endeavors in ~~her~~/his career.

Regards

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Date : 9.8.2022

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This is to certify that G. Jagadeeshkumar Reg.No: 731219106004 in BE(ECE) IV year student of JKKMunirajah College of Technology, Gobi has completed the Internship/~~In-plant~~ Training under the Embedded Systems in Durga Tech from 26.7.22 to 9.8.22

During this Internship/~~In-plant~~ Training G. Jagadeeshkumar found to be highly sincere, committed, hard working, progressive and professional towards ~~her~~/his work and is capable of discharging ~~her~~/his duties in a similar capacity and ~~her~~/his conduct was found to be good during ~~her~~/his period of Internship/~~In-plant~~ Training.

We wish G. Jagadeeshkumar success in ~~her~~/his future endeavors in ~~her~~/his career.

Regards,

For Durga Tech
99449 16107

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This is to certify that M. Bharathi Reg.No: 731219106001 in BE(ECE) IV year student of JKK Munirajah College of Technology, Gobi has completed the Internship/~~In-plant~~ Training ~~under~~ the Embedded Systems in Durga Tech from 26.7.22 to 9.8.22

During this Internship/~~In-plant~~ Training M. Bharathi found to be highly sincere, committed, hard working, progressive and professional towards ~~her~~/his work and is capable of discharging ~~her~~/his duties in a similar capacity and ~~her~~/his conduct was found to be good during ~~her~~/his period of Internship/~~In-plant~~ Training.

We wish M. Bharathi success in ~~her~~/his future endeavors in ~~her~~/his career.

Regards

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Pragati Hi-Tech Circuits

Manufacturers of Printed Circuit Boards, Single & Double Side
TIN No: 33692202194

Door No: 6, Ayyappa Nagar, Lakshmi Puram
Chinnavedampatti, Coimbatore - 641 049
Phone: 2605235 Cell: 98430 [illegible]
E-mail: pragatipcb@yahoo.co.in

DATE : 28.01.2023

INTERNSHIP COMPLETION CERTIFICATE

This is to certify that Ms. Soundarlya S of B.E Electronics and Communication Engineering – II Year from J.K.K.Munirajah College of Technology, T.N.Palayam has done Internship for a period from 18th Jan to 28th Jan 2023.

She was regular in her attendance and performance was good.

For PRAGATI HI TECH CIRCUITS

Proprietor

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Phone : 2665235 Cell : 98430-32679
E-mail : pragatipcb@yahoo.in

DATE : 28.01.2023

INTERNSHIP COMPLETION CERTIFICATE

This is to certify that Ms. Sharmila V of B.E Electronics and Communication Engineering – II Year from J.K.K.Munirajah College of Technology, T.N.Palayam has done Internship for a period from 18th Jan to 28th Jan 2023.

She was regular in her attendance and performance was good.

For PRAGATI HI TECH CIRCUITS

Proprietor

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Phone : 2665235 Cell : 98430-32679
E-mail : pragatipcb@yahoo.in

DATE : 28.01.2023

INTERNSHIP COMPLETION CERTIFICATE

This is to certify that Mr. Subash K of B.E Electronics and Communication Engineering – II Year from J.K.K.Munirajah College of Technology, T.N.Palayam has done Internship for a period from 18th Jan to 28th Jan 2023.

He was regular in his attendance and performance was good.

For PRAGATI HI TECH CIRCUITS

Proprietor

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Chinnavedampatti, Coimbatore - 641 006
Phone : 2665235 Cell : 98430 32679
E-mail : pragathipcb@yahoo.in

DATE : 28.01.2023

INTERNSHIP COMPLETION CERTIFICATE

This is to certify that Mr. Sathasivan R of B.E Electronics and Communication Engineering – II Year from J.K.K.Munirajah College of Technology, T.N.Palayam has done Internship for a period from 18th Jan to 28th Jan 2023.

He was regular in his attendance and performance was good.

For PRAGATI HI TECH CIRCUITS

Proprietor

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Phone : 2665235 Cell : 98430 32679
E-mail : pragatipcb@yahoo.in

DATE : 28.01.2023

INTERNSHIP COMPLETION CERTIFICATE

This is to certify that Mr. Ranjith B of B.E Electronics and Communication Engineering – II Year from J.K.K.Munirajah College of Technology, T.N.Palayam has done Internship for a period from 18th Jan to 28th Jan 2023.

He was regular in his attendance and performance was good.

For PRAGATI HI TECH CIRCUITS

Proprietor

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UNIVERSAL POWER SUPPLIES

Department of R & D Centre,
Varanapuram, Bhavani, Tamil Nadu 638301

Phone: 099421 07795
Website: www.gbro.in

Date: 31.03.2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that the student Ms. M.ROHINI (Reg. No:731219106015) Department of Electronics and Communication Engineering Final Year from J.K.K Munirajah College of Technology, T.N.Palayam, Gobi, has satisfactorily completed her internship during the period of 06.02.2023 to 31.03.2023.

She worked on the project titled "INCREASING EFFICIENCY AND LIFETIME OF E-VEHICLE BATTERY SYSTEM" under our guidance.

During the above mentioned period her conduct and behavior remains good, We wish her all the best for future.

For

Project Manager
UNIVERSAL POWER SUPPLIES
Opp. Bhavani G.H.,
Bhavani - 638 301.
Contact : 88833 98889

Electronics R & D Manufacturing
Universal Power Supplies

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GOBI (Tk), ERODE (Dt).

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Department of R & D Centre,
Varanapuram, Bhavani, Tamil Nadu 638301

Phone: 099421 07795
Website: www.obro.in

Date: 31.03.2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that the student Ms. K.SATHYA PRIYA (Reg. No: 731219106018) Department of Electronics and Communication Engineering Final Year from J.K.K Munirajah College of Technology, T.N.Palayam, Gobi, has satisfactorily completed her Internship during the period of 06.02.2023 to 31.03.2023.

She worked on the project titled "INCREASING EFFICIENCY AND LIFETIME OF E-VEHICLE BATTERY SYSTEM" under our guidance.

During the above mentioned period her conduct and behavior remains good, We wish her all the best for future.

For

Electronics R & D Manufacturing
Universal Power Supplies

Project Manager
UNIVERSAL POWER SUPPLIES
Opp. Bhavani G.H.,
Bhavani - 638 301.
Contact : 88833 96669

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T.N.PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).

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Department of R & D Centre,
Varanapuram, Bhavani, Tamil Nadu 638301

Phone: 099421 07795
Website: www.gbro.in

Date: 31.03.2023

TO WHOMSOEVER IT MAY CONCERN

This is to certify that the student **Mr. G.JAGADEESH KUMAR (Reg. No: 731219106004)** Department of Electronics and Communication Engineering Final Year from J.K.K Munirajah College of Technology, T.N.Palayam, Gobi, has satisfactorily completed his Internship during the period of 06.02.2023 to 31.03.2023.

He worked on the project titled **"INCREASING EFFICIENCY AND LIFETIME OF E-VEHICLE BATTERY SYSTEM"** under our guidance.

During the above mentioned period his conduct and behavior remains good.

We wish him all the best for future.

For

Project Manager
UNIVERSAL POWER SUPPLIES
Opp. Bhavani G.H.,
Bhavani - 638 301.
Contact : 88833 96669

Electronics R & D Manufacturing
Universal Power Supplies

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T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).

M.E APPLIED ELECTRONICS

- BAKYALAKSHMI P, DEEPIKA M of M.E APPLIED ELECTRONICS undergone internship at "INNO MEKTRONIC", Coimbatore from 20.02.2023 to 08.03.2023.
- SEETHASUGANTHI S of M.E APPLIED ELECTRONICS undergone internship at "UNIVERSAL POWER SUPPLIES", Bhavani from 01.05.2023 to 30.06.2023.

CERTIFICATES OF INTERNSHIP PROGRAMME

INNO MEKTRONIC
THE E.M.S. COMPANY

CERTIFICATE OF INTERNSHIP

This Internship certificate is proudly awarded to

P.BAKYALAKSHMI (REG NO: 731222401001)

For her outstanding completion of the internship program at the firm INNOMEKTRONIC(The EMS COMPANY) under the guidance of Mrs.Mangai from 20.02.2023 to 08.03.2023. She is found to be Hardworking, Sincere and diligent. We wish her all the best for future.

CEO
M.NANDHA GOPAL

PROGRAM MANAGER
M.LOGAMANGAI

INNO MEKTRONIC
No. 12, Maruthi Nagar,
Avarampalayam, Coimbatore-641006
Tamilnadu, India.
GSTIN: 33AAOFI0431B1Z8

No.12, Maruthi Nagar(Near Shoba Nagar) Avarampalayam,Coimbatore-641006, Tamilnadu, India.
Tel:0422-4530232, Mobile: 95855 30232, www.innomektronic.com, E-mail : innomektronic@gmail.com

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T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).

INNO MEKTRONIC
THE E.M.S. COMPANY

CERTIFICATE OF INTERNSHIP

This Internship certificate is proudly awarded to

M.DEEPIKA (REG NO: 731222401002)

For her outstanding completion of the internship program at the firm INNOMEKTRONIC(The EMS COMPANY) under the guidance of Mrs.Mangai from 20.02.2023 to 08.03.2023. She is found to be Hardworking, Sincere and diligent. We wish her all the best for future.

CEO
M.NANDHA GOPAL

PROGRAM MANAGER
M.LOGAMANGAI

INNO MEKTRONIC
No. 12, Maruthi Nagar,
Avarampalayam, Coimbatore-641006
Tamilnadu, India.
GSTIN: 33AAGFI0431B1Z8

No .12, Maruthi Nagar(Near Shoba Nagar) Avarampalayam,Coimbatore-641006, Tamilnadu, India.
Tel:0422-4530232, Mobile: 95855 30232, www.innomektronic.com, E-mail : innomektronic@gmail.com

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DEPARTMENT OF MANAGEMENT STUDIES

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Tamil Nadu
91-4256-227813, aruncasualsltd@gmail.com

Date: 27.04.2023

CERTIFICATE OF COMPLETION

This is to certify that DHARANI .R .1st MBA of J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY has done internship from 17/04/2023 to 27/04/2023. During the course period the performance of the trainee was found to be good.

MANAGING DIRECTOR

PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk). ERODE (Dt).

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Date: 27.04.2023

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This is to certify that BHUVANESWARI. R .1st MBA of J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY has done internship from 17/04/2023 to 27/04/2023. During the course period the performance of the trainee was found to be good.

MANAGING DIRECTOR

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GOBI (Tk), ERODE (Dt).

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This is to certify that HARIDHARANI.N .1st MBA of **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has done internship from 17/04/2023 to 27/04/2023.. During the course period the performance of the trainee was found to be good.

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This is to certify that ASHWINI.S .1st MBA of J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY has done internship from 17/04/2023 to 27/04/2023. During the course period the performance of the trainee was found to be good.

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This is to certify that ARTHI.M .1st MBA of J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY has done internship from 17/04/2023 to 27/04/2023. During the course period the performance of the trainee was found to be good.

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KNG PudurPirivu,
Coimbatore, Tamil Nadu 641108, aishwaryaentcbe@gmail.com
Tele : 0422 487 1333
Ph : 80486-02753

Date: 27:04:2023

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This is to certify that **SANTHIYA. P** 1st MBA of **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has done internship from 17/04/2023 to 27/04/2023. During the course period the performance of the trainee was found to be good.

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334/1 F, AGARWAL SCHOOL ROAD,
KNG PudurPirivu,
Coimbatore, Tamil Nadu 641108, aishwaryaentcbe@gmail.com

Tele : 0422 487 1333
Ph : 80486-02753

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This is to certify that **MANIMARAN.M** 1st MBA of **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has done internship from 17/04/2023 to 27/04/2023. During the course period the performance of the trainee was found to be good.

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KNG PudurPirivu,
Coimbatore, Tamil Nadu 641108, aishwaryaentcbe@gmail.com
Tele : 0422 487 1333
Ph : 80486-02753

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This is to certify that **PANNEERSELVAM.T** 1st MBA of **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has done internship from 17/04/2023 to 27/04/2023. During the course period the performance of the trainee was found to be good.

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KNG PudurPirivu,
Coimbatore, Tamil Nadu 641108, aishwaryaentcbe@gmail.com
Tele : 0422 487 1333
Ph : 80486-02753

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This is to certify that **NANDHA KISHORE .S** 1st **MBA** of **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has done internship from 17/04/2023 to 27/04/2023. During the course period the performance of the trainee was found to be good.

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This is to certify that SATHIYAPRIYA.G 1st MBA of **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has done internship from 17/04/2023 to 27/04/2023. During the course period the performance of the trainee was found to be good.

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This is to certify that THIYAGU.M **1st MBA** of **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has done internship from 17/04/2023 to 27/04/2023. During the course period the performance of the trainee was found to be good.

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This is to certify that THILAGAVATHI.P **1st MBA** of **J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY** has done internship from 17/04/2023 to 27/04/2023. During the course period the performance of the trainee was found to be good.

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This is to certify that Mr./Ms. **PRADEEP .B** First year management from JKK MUNIRAJAH COLLEGE OF TECHNOLOGY TN PALAYAM has Satisfactory completed his internship training of trading and marketing during the period of 17/04/2023 to 27/04/2023 under the guidance

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This is to certify that Mr./Ms. **MAYA. K** First year management from JKK MUNIRAJAH COLLEGE OF TECHNOLOGY TN PALAYAM has Satisfactory completed his internship training of trading and marketing during the period of 17/04/2023 to 27/04/2023 under the guidance

DATE: 27/04/2023

PROJECT MANAGER

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This is to certify that Mr./Ms. **KALAPSAMUVEL. M** First year management from JKK MUNIRAJAH COLLEGE OF TECHNOLOGY TN PALAYAM has Satisfactory completed his internship training of trading and marketing during the period of 17/04/2023 to 27/04/2023 under the guidance

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This is to certify that Mr./Ms. **DIVYA.S** First year management from JKK MUNIRAJAH COLLEGE OF TECHNOLOGY TN PALAYAM has Satisfactory completed his internship training of trading and marketing during the period of 17/04/2023 to 27/04/2023 under the guidance

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This is to certify that Mr./Ms. **RAJKUMAR.V** First year management from JKK MUNIRAJAH COLLEGE OF TECHNOLOGY TN PALAYAM has Satisfactory completed his internship training of trading and marketing during the period of 17/04/2023 to 27/04/2023 under the guidance

DATE: 27/04/2023

PROJECT MANAGER

SSS BUILDERS

SATHYAMANGALAM

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This is to certify that Mr./Ms. **SANTHOSH. S** first year management from JKK MUNIRAJAH COLLEGE OF TECHNOLOGY TN PALAYAM has Satisfactory completed his internship training of supervising and coordinating during the period of 13/04/2023 to 23/04/2023 under the guidance

DATE:23/04/2023

PROJECT MANAGER

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SSS BUILDERS

SATHYAMANGALAM

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This is to certify that Mr./Ms. SRIRAM.M first year management from JKK MUNIRAJAH COLLEGE OF TECHNOLOGY TN PALAYAM has Satisfactory completed his internship training of supervising and coordinating during the period of 13/04/2023 to 23/04/2023 under the guidance

DATE:23/04/2023

PROJECT MANAGER

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GOBI (Tk), ERODE (Dt).

SSS BUILDERS

SATHYAMANGALAM

CERTIFICATE

This is to certify that Mr./Ms. **STENIN MESHAK.S.I** first year management from JKK MUNIRAJAH COLLEGE OF TECHNOLOGY TN PALAYAM has Satisfactory completed his internship training of supervising and coordinating during the period of 13/04/2023 to 23/04/2023 under the guidance

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PROJECT MANAGER

SSS BUILDERS

SATHYAMANGALAM

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This is to certify that Mr./Ms. **BHARATHI.A** first year management from JKK MUNIRAJAH COLLEGE OF TECHNOLOGY TN PALAYAM has Satisfactory completed his internship training of supervising and coordinating during the period of 13/04/2023 to 23/04/2023 under the guidance

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LIST OF LABORATORY COURSES ACADEMIC YEAR 2022-23

DEPARTMENT OF CIVIL ENGINEERING

S.NO	SEMESTER	COURSE CODE	SUBJECT CODE	SUBJECT NAME
1	I	C106	GE3171	Problem Solving and Python Programming Laboratory
2		C107	BS3171	Physics and Chemistry Laboratory
3	II	C113	GE3271	Engineering Practices Laboratory
4		C114	BE3272	Basic Electrical, Electronics and Instrumentation Engineering Laboratory
5	III	C207	CE3361	Surveying and Levelling Laboratory
6		C208	CE3311	Water and waste water analysis Laboratory
7		C209	GE3361	Professional Development
8	IV	C216	CE3411	Hydraulic Engineering Laboratory
9		C217	CE3412	Materials Testing Laboratory
10		C218	CE3413	Soil Mechanics Laboratory
11	V	C307	CE8511`	Soil Mechanics Laboratory
12		C308	CE8512	Water And Waste Water Analysis Laboratory
13		C309	CE8513	Survey Camp
14	VI	C316	CE8611	Highway Engineering Laboratory
15		C317	CE8612	Irrigation & Environmental Engineering Drawing
16		C318	HS8581	Professional Communication
17	VII	C406	CE8711	Creative and innovative project (Activity Based-Subject Related)
18		C407	CE8712	Industrial Training (4 weeks during VI Semester –Summer)
19	VIII	C410	CE8811	Project Work

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DEPARTMENT OF CIVIL ENGINEERING

S. No	LAB NAME	LIST OF EXPERIMENTS	BATCH SIZE (STUDENTS)	REMARKS
1	**PROBLEM SOLVING AND PYTHON PROGRAMMING LABORATORY**	1.Identification and solving of simple real life or scientific or technical problems, and developing flow charts for the same. (Electricity Billing, Retail shop billing, Sin series, weight of a motorbike, Weight of a steel bar, compute Electrical Current in Three Phase AC Circuit, etc.) 2. Python programming using simple statements and expressions (exchange the values of two variables, circulate the values of n variables, distance between two points). 3. Scientific problems using Conditionals and Iterative loops. (Number series, Number Patterns, pyramid pattern) 4. Implementing real-time/technical applications using Lists, Tuples. (Items present in a library/Components of a car/ Materials required for construction of a building –operations of list & tuples) 5. Implementing real-time/technical applications using Sets, Dictionaries. (Language, components of an automobile, Elements of a civil structure, etc.- operations of Sets & Dictionaries) 6. Implementing programs using Functions. (Factorial, largest number in a list, area of shape) 7. Implementing programs using Strings. (reverse, palindrome, character count, replacing characters) 8. Implementing programs using written modules and Python Standard Libraries (pandas, numpy. Matplotlib, scipy) 9. Implementing real-time/technical applications using File handling. (copy from one file to another, word count, longest word) 10. Implementing real-time/technical applications using Exception handling. (divide by zero error, voter's age validity, student mark range validation) 11. Exploring Pygame tool.	3 BATCHES (35 STUDENTS PER BATCH)& 3 CYCLES	

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		12. Developing a game activity using Pygame like bouncing ball, car race etc.		
2.	**PHYSICS AND CHEMISTRY LABORATORY**	1.Torsional pendulum - Determination of rigidity modulus of wire and moment of inertia of regular and irregular objects. 2. Simple harmonic oscillations of cantilever. 3. Non-uniform bending - Determination of Young's modulus 4. Uniform bending – Determination of Young's modulus 5. Laser- Determination of the wave length of the laser using grating 6. Air wedge - Determination of thickness of a thin sheet/wire 7. a) Optical fibre -Determination of Numerical Aperture and acceptance angle b) Compact disc- Determination of width of the groove using laser. 8. Acoustic grating- Determination of velocity of ultrasonic waves in liquids. 9. Ultrasonic interferometer – determination of the velocity of sound and compressibility of liquids 10. Post office box -Determination of Band gap of a semiconductor. 11. Photoelectric effect 12. Michelson Interferometer. 13. Melde's string experiment 14. Experiment with lattice dynamics kit.	3 BATCHES (35 STUDENTS PER BATCH)& 3 CYCLES	

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3.	**ENGINEERING PRACTICES LABORATORY**	**GROUP – A (CIVIL & ELECTRICAL)** **PART I CIVIL ENGINEERING PRACTICES 15** **PLUMBING WORK:** a) Connecting various basic pipe fittings like valves, taps, coupling, unions, reducers,elbows and other components which are commonly used in household. b) Preparing plumbing line sketches. c) Laying pipe connection to the suction side of a pump d) Laying pipe connection to the delivery side of a pump. e) Connecting pipes of different materials: Metal, plastic and flexible pipes used in household appliances. **WOOD WORK:** a) Sawing, b) Planing and c) Making joints like T-Joint, Mortise joint and Tenon joint and Dovetail joint. Wood Work Study: a) Studying joints in door panels and wooden furniture b) Studying common industrial trusses using models. **PART II ELECTRICAL ENGINEERING PRACTICES 15** a) Introduction to switches, fuses, indicators and lamps - Basic switch board wiring with lamp, fan and three pin socket b) Staircase wiring c) Fluorescent Lamp wiring with introduction to CFL and LED types. d) Energy meter wiring and related calculations/ calibration e) Study of Iron Box wiring and assembly f) Study of Fan Regulator (Resistor type and Electronic type using Diac/Triac/quadrac) g) Study of emergency lamp wiring/Water heater	3 BATCHES (35 STUDENTS PER BATCH)& 3 CYCLES	

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4.	**BASIC ELECTRICAL, ELECTRONICS AND INSTRUMENTATION ENGINEERING LABORATORY**	1. Verification of ohms and Kirchhoff's Laws. 2. Three Phase Power Measurement 3. Load test on DC Shunt Motor. 4. Load test on Self Excited DC Generator 5. Load test on Single phase Transformer 6. Load Test on Induction Motor 7. Characteristics of PN and Zener Diodes 8. Characteristics of BJT, SCR and MOSFET 9. Design and analysis of Half wave and Full Wave rectifiers 10. Measurement of displacement of LVDT	3 BATCHES (35 STUDENTS PER BATCH)& 3 CYCLES	
5.	**SURVEYING AND LEVELLING LABORATORY**	**LIST OF EXPERIMENTS:** **Chain Survey** 1. Study of chains and its accessories, Aligning, Ranging, Chaining and Marking Perpendicular offset 2. Setting out works – Foundation marking using tapes single Room and Double Room **Compass Survey** 3. Compass Traversing – Measuring Bearings & arriving included angles **Levelling - Study of levels and levelling staff** 4. Fly levelling using Dumpy level &Tilting level 5. Check levelling **Theodolite - Study of Theodolite** 6. Measurements of horizontal angles by reiteration and repetition and vertical angles 7. Determination of elevation of an object using single plane method when base is Accessible/inaccessible. **Tacheometry – Tangential system – Stadia system** 8. Determination of Tacheometric Constants 9. Heights and distances by stadia Tacheometry 10. Heights and distances by Tangential Tacheometry	1 BATCH (1 STUDENT PER BATCH) & 2 CYCLES	

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		Total Station - Study of Total Station, Measuring Horizontal and vertical angles 11. Traverse using Total station and Area of Traverse 12. Determination of distance and difference in elevation between two inaccessible points using Total station		
6.	**WATER AND WASTEWATER ANALYSIS LABORATORY**	**LIST OF EXPERIMENTS:** **ANALYSIS OF WATER SAMPLE** 1. Sampling and preservation methods for water and wastewater (Demonstration only) 2. Measurement of Electrical conductivity and turbidity 3. Determination of fluoride in water by spectrophotometric method /ISE 4. Determination of iron in water (Demo) 5. Determination of Sulphate in water 6. Determination of Optimum Coagulant Dosage by Jar test apparatus 7. Determination of available Chlorine in Bleaching powder and residual chlorine in water **ANALYSIS OF WASTE WATER SAMPLE** 8. Estimation of suspended, volatile and fixed solids 9. Determination of Sludge Volume Index in waste water 10. Determination of Dissolved Oxygen 11. Estimation of B.O.D. 12. Estimation of C.O.D. 13. Determination of TKN and Ammonia Nitrogen in wastewater 14. Determination of total and faecal coliform (Demonstration only)	1 BATCH (1 STUDENT PER BATCH) & 2 CYCLES	
7.	**PROFESSIONAL DEVELOPMENT**	**MS WORD: 10 Hours** Create and format a document Working with tables Working with Bullets and Lists Working with styles, shapes, smart art, charts Inserting objects, charts and importing objects from other office tools Creating and Using document templates Inserting equations, symbols and special	1 BATCH (1 STUDENT PER BATCH) & 2 CYCLES	

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		characters Working with Table of contents and References, citations Insert and review comments Create bookmarks, hyperlinks, endnotes footnote Viewing document in different modes Working with document protection and security Inspect document for accessibility **MS EXCEL: 10 Hours** Create worksheets, insert and format data Work with different types of data: text, currency, date, numeric etc. Split, validate, consolidate, Convert data Sort and filter data Perform calculations and use functions: (Statistical, Logical, Mathematical, date, Time etc.,) Work with Lookup and reference formulae Create and Work with different types of charts Use pivot tables to summarize and analyse data Perform data analysis using own formulae and functions Combine data from multiple worksheets using own formulae and built-in functions to generate results Export data and sheets to other file formats Working with macros Protecting data and Securing the workbook **MS POWERPOINT: 10 Hours** Select slide templates, layout and themes Formatting slide content and using bullets and numbering Insert and format images, smart art, tables, charts Using Slide master, notes and handout master Working with animation and transitions Organize and Group slides Import or create and use media objects: audio, video, animation Perform slideshow recording and Record narration and create presentable videos		

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8.	**HYDRAULIC ENGINEERING LABORATORY**	**LIST OF EXPERIMENTS (Any 10 of the following)** **A. FLOW MEASUREMENT** 1. Calibration of Rotameter 2. Flow through Orifice meter/mouthpiece,Venturimeter and Notches 3. Bernoulli's Experiment84 **B. LOSSES IN PIPES** 4. Determination of friction factor in pipes. 5. Determination of minor losses **C. PUMPS** 6. Characteristics of Centrifugal pumps 7. Characteristics of Gear pump 8. Characteristics of Submersible pump 9. Characteristics of Reciprocating pump **D. TURBINES** 10. Characteristics of Pelton wheel turbine 11. Characteristics of Francis turbine **E. DETERMINATION OF METACENTRIC HEIGHT** 12. Determination of metacentric height of floating bodies.	1 BATCH (1 STUDENT PER BATCH) 2 CYCLES	
9.	**MATERIALS TESTING LABORATORY**	**I. TESTS ON METALS** a. Tension test on steel rod b. Torsion test on mild steel rod c. Deflection test on metal beam d. Double shear test on metal e. Impact test on metal specimen (Izod and Charpy) f. Hardness test on metals (Rockwell and Brinell Hardness Tests) g. Compression test on helical spring h. Deflection test on carriage spring **II. TESTS ON CEMENT** a. Determination of fineness of cement b. Determination of consistency of cement c. Determination of specific gravity of cement d. Determination of initial and final setting time of cement **III. TESTS ON FINE AGGREGATE** a. Determination of specific gravity and	1 BATCH (1 STUDENT PER BATCH) 2 CYCLES	

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		water absorption of fine aggregate b. Determination of grading of fine aggregate c. Determination of water absorption for fine aggregate **IV. TESTS ON COARSE AGGREGATE** a. Determination of compacted and loose bulk density of coarse aggregate b. Determination of impact value of coarse aggregate c. Determination of elongation index of coarse aggregate d. Determination of flakiness index of coarse aggregate e. Determination of aggregate crushing value of coarse aggregate f. Determination of specific gravity and water absorption of coarse aggregate **V. TESTS ON BRICKS** a. Determination of compressive strength of bricks b. Determination of water absorption of bricks c. Determination of efflorescence of bricks **VI. TESTS ON CONCRETE** a. Determination of slump of concrete b. Determination of compressive strength of concrete c. Determination of flowability of self-compacting concrete (Demo only) **VII. TEST ON WOOD** a. Determination of Compression test on wood		
10.	**SOIL MECHANICS LABORATORY**	**1. DETERMINATION OF INDEX PROPERTIES** Specific gravity of soil solids a. Grain size distribution – Sieve analysis b. Grain size distribution - Hydrometer analysis c. Liquid limit and Plastic limit tests d. Shrinkage limit and Differential free	1 BATCH (1 STUDENT PER BATCH) 2 CYCLES	

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		swell tests **2. DETERMINATION OF INSITU DENSITY AND COMPACTION CHARACTERISTICS** a. Field density Test (Sand replacement method) b. Determination of moisture – density relationship using standard proctor compaction test. **3. DETERMINATION OF ENGINEERING PROPERTIES** a. Permeability determination (constant head and falling head methods) b. One dimensional consolidation test (Determination of co-efficient of consolidation only) c. Direct shear test in cohesion less soil d. Unconfined compression test in cohesive soil e. Laboratory vane shear test in cohesive soil f. Tri-axial compression test in cohesion less soil (Demonstration only) g. California Bearing Ratio Test 87 **4. TEST ON GEOSYNTHETICS** **(Demonstration only)** Determination of tensile strength and interfacial friction angle. a. Determination of apparent opening sizes and permeability.		
11.	**SOIL MECHANICS LABORATORY**	**1. DETERMINATION OF INDEX PROPERTIES** a. Specific gravity of soil solids b. Grain size distribution – Sieveanalysis c. Grain size distribution -	1 BATCH (1 STUDENT PER BATCH)	

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		Hydrometer analysis d. Liquid limit and Plastic limittests Shrinkage limit and Differential free swell tests **2. DETERMINATION OF INSITU DENSITY AND COMPACTION CHARACTERISTICS** a. Field density Test (Sand replacement method and corecutter method) b. Determination of moisture –density relationship using standard Proctor compactiontest. c. Determination of relative density (Demonstration only) **3. DETERMINATION OFENGINEERING PROPERTIES** a. Permeability determination(constant head and falling head methods) b. One dimensional consolidation test		

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		(Determination of Co-efficient of consolidationonly) c. Direct shear test incohesionless soil d. Unconfined compression testin cohesive soil e. Laboratory vane shear test incohesive soil f. Tri-axial compression test incohesionless soil (Demonstration only) g. California Bearing Ratio Test.		
12.	**WATER AND WASTE WATER ANALYSIS LABORATORY**	1. Determination of pH, Turbidity and conductivity 2. Determination of Hardness 3. Determination of Alkalinityand Acidity 4. Determination of Chlorides 5. Determination of Phosphatesand Sulphates 6. Determination of iron andfluoride 7. Determination of OptimumCoagulant dosage 8. Determination of residual chlorine and available	1 BATCH (1 STUDENT PER BATCH)	

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		chlorine in bleaching powder 9. Determination of Oil, andGrease 10. Determination of suspended, settleable, volatile and fixed solids 11. Determination Dissolved Oxygen and BOD for the given sample 12. Determination of COD forgiven sample 13. Determination of SVI of Biological sludge and microscopic examination 14. Determination of MPN index of given water sample 15. Determination of pH, Turbidity and conductivity 16. Determination of Hardness 17. Determination of Alkalinityand Acidity 18. Determination of Chlorides 19. Determination of Phosphatesand Sulphates 20. Determination of iron andfluoride		

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		21. Determination of OptimumCoagulant dosage 22. Determination of residual chlorine and available chlorine in bleaching powder 23. Determination of Oil, andGrease 24. Determination of suspended, settleable, volatile and fixed solids 25. Determination Dissolved Oxygen and BOD for the given sample 26. Determination of COD forgiven sample 27. Determination of SVI of Biological sludge and microscopic examination 28. Determination of MPN index of given water sample		
13.	**HIGHWAY ENGINEERING LABORATORY**	**I TEST ON AGGREGATES** a) Specific Gravity b) Los AngelesAbrasion Test	1 BATCH (1 STUDENT PER BATCH)	

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		c) Water Absorption of Aggregates **II TEST ON BITUMEN** a) Specific Gravity of Bitumen b) Penetration Test c) Viscosity Test d) Softening Point Test e) Ductility Test **III TESTS ON BITUMINOUS MIXES** f) Stripping Test g) Determination of Binder Content h) Marshall Stability andFlow Values **IV DEMONSTRATION OF ANY ONE FIELD TESTING EQUIPMENT LIKE SKID RESISTANCE TESTER/BENKELMAN BEAM**		

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PHOTO GALLERY

MATERIALS TESTING LABORATORY

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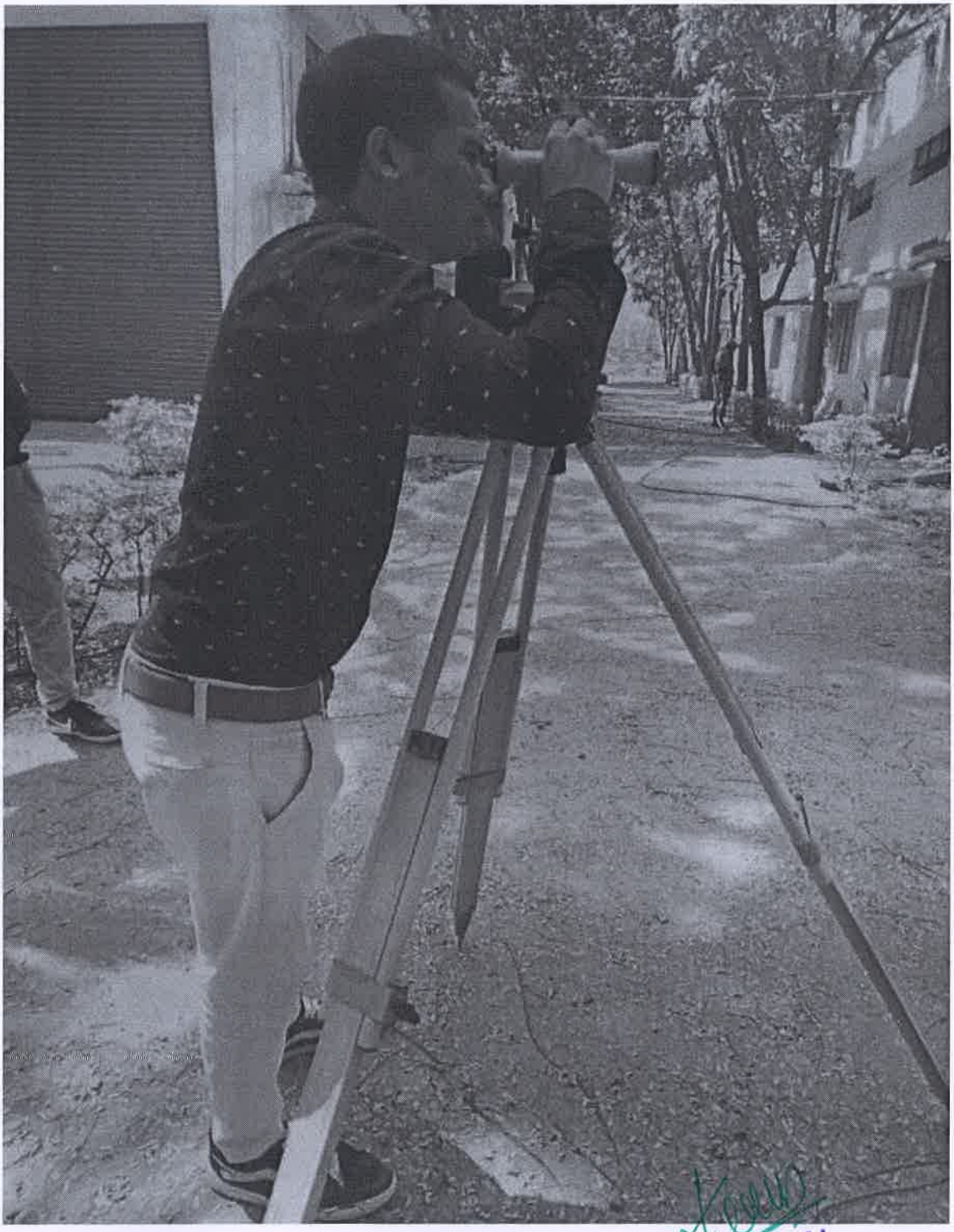

SURVEYING LABORATORY

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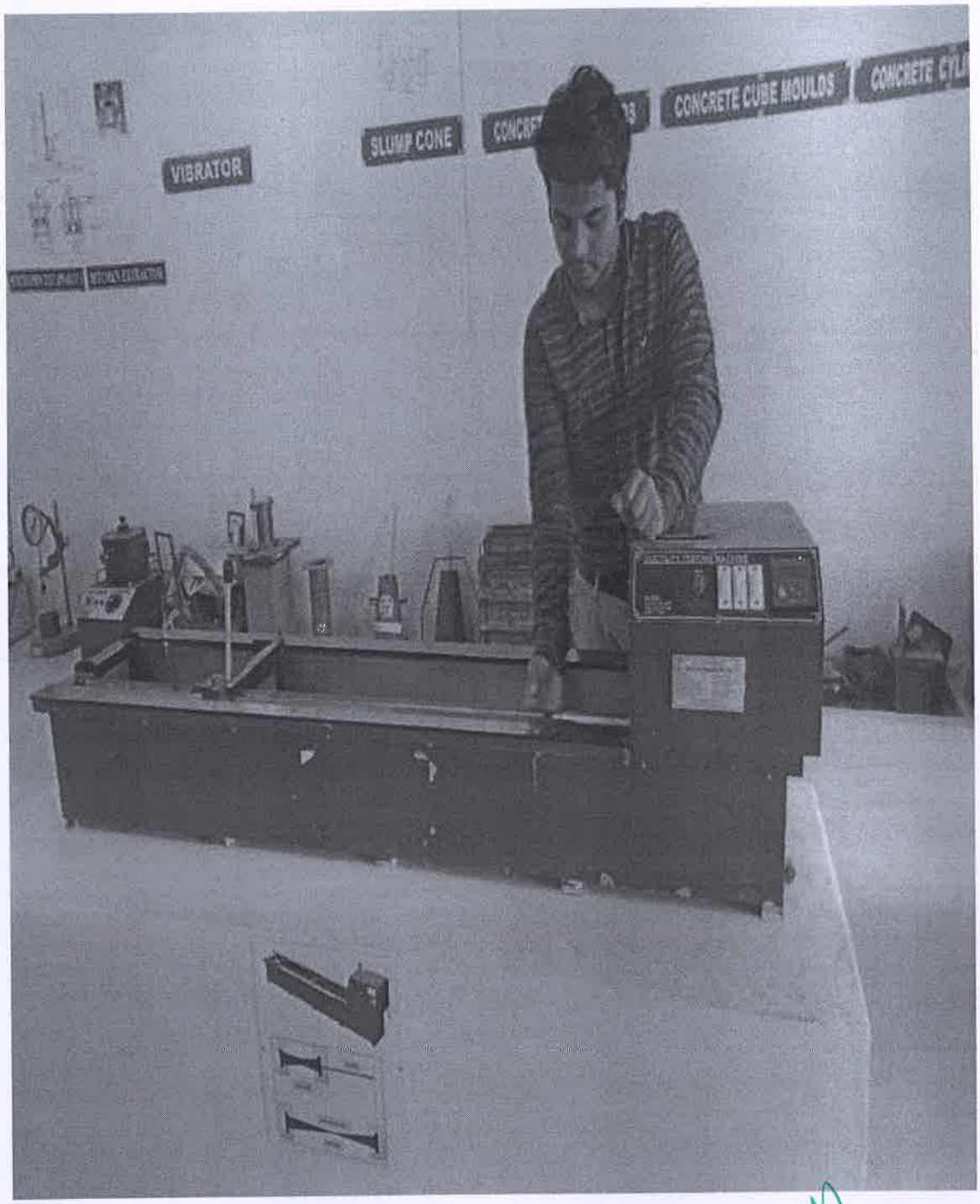

HIGHWAY ENGINEERING LABORATORY

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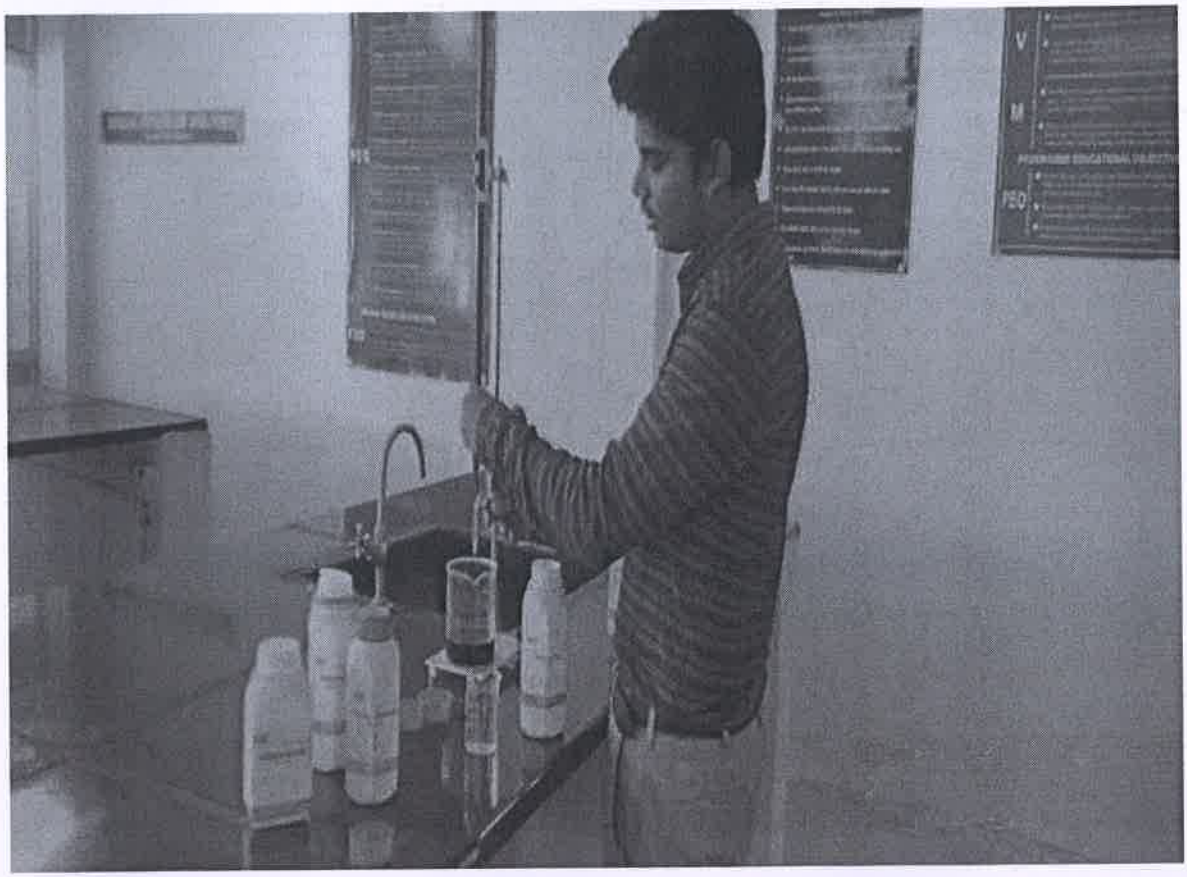

WATER AND WASTE WATER ANALYSIS LABORATORY

HYDRAULIC ENGINEERING LABORATORY

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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

S.NO	SEMESTER	COURSE CODE	SUBJECT CODE	SUBJECT NAME
1	I	C106	GE3151	Problem Solving and Python Programming Laboratory
2	II	C206	CS3251	Programming in C Laboratory
3	III	C306	CS3311	Data Structures Laboratory
4		C307	CS3381	Object Oriented Programming Laboratory
5		C308	CS3361	Data Science Laboratory
6		C309	GE3361	Professional Development
7	IV	C408	CS3461	Operating Systems Laboratory
8		C409	CS3481	Database Management Systems Laboratory
9	V	C507	EC8681	Microprocessors and Microcontrollers Laboratory
10		C508	CS8582	Object Oriented Analysis and Design Laboratory
11		C509	CS8581	Networks Laboratory
12	VI	C606	CS8661	Internet Programming Laboratory
13		C607	CS8662	Mobile Application Development Laboratory
14	VII	C706	CS8711	Cloud Computing Laboratory
15		C707	IT8761	Security Laboratory

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

S.No	LAB NAME	LIST OF EXPERIMENTS	BATCH SIZE (STUDENTS)	REMARKS
1	**Data Structures Laboratory**	1.Array implementation of Stack, Queue and Circular Queue ADTs 2.Implementation of Singly Linked List 3.Linked list implementation of Stack and Linear Queue ADTs 4.Implementation of Polynomial Manipulation using Linked list 5.Implementation of Evaluating Postfix Expressions, Infix to Postfix conversion 6.Implementation of Binary Search Trees 7.Implementation of AVL Trees 8.Implementation of Heaps using Priority Queues 9.Implementation of Dijkstra's Algorithm 10.Implementation of Prim's Algorithm 11.Implementation of Linear Search and Binary Search 12.Implementation of Insertion Sort and Selection Sort 13.Implementation of Merge Sort 14.Implementation of Open Addressing (Linear Probing and Quadratic Probing)	7 BATCH (6 STUDENTS/ BATCH) & 2 CYCLES	

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2	**Object Oriented Programming Laboratory**	1.Solve problems by using sequential search, binary search, and quadratic sorting algorithms (selection, insertion) 2.Develop stack and queue data structures using classes and objects. 3.Develop a java application with an Employee class with Emp_name, Emp_id, Address, Mail_id, Mobile_no as members. Inherit the classes, Programmer, Assistant Professor, Associate Professor and Professor from employee class. Add Basic Pay (BP) as the member of all the inherited classes with 97% of BP as DA, 10 % of BP as HRA, 12% of BP as PF, 0.1% of BP for staff club funds. Generate pay slips for the employees with their gross and net salary. 4.Write a Java Program to create an abstract class named Shape that contains two integers and an empty method named printArea(). Provide three classes named Rectangle, Triangle and Circle such that each one of the classes extends the class Shape.	7 BATCH (6 STUDENTS/ BATCH) & 2 CYCLES	

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Each one of the classes contains only the method printArea( ) that prints the area of the given shape.

5.Solve the above problem using an interface.

6.Implement exception handling and creation of user defined exceptions.

7.Write a java program that implements a multi-threaded application that has three threads. First thread generates a random integer every 1 second and if the value is even, the second thread computes the square of the number and prints. If the value is odd, the third thread will print the value of the cube of the number.

8.Write a program to perform file operations.

9.Develop applications to demonstrate the features of generics classes.

10.Develop applications using JavaFX controls, layouts and menus.

11.Develop a mini project for any application using Java concepts.

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3	**DATA SCIENCE LABORATORY**	1.Download, install and explore the features of NumPy, SciPy, Jupyter, Statsmodels and Pandas packages. 2.Working with Numpy arrays 3.Working with Pandas data frames 4.Reading data from text files, Excel and the web and exploring various commands for doing descriptive analytics on the Iris data set. 5.Use the diabetes data set from UCI and Pima Indians Diabetes data set for performing the following: a.Univariate analysis: Frequency, Mean, Median, Mode, Variance, Standard Deviation, Skewness and Kurtosis. b.Bivariate analysis: Linear and logistic regression modeling c.Multiple Regression analysis d.Also compare the results of the above analysis for the two data sets. 6.Apply and explore various plotting functions on UCI data sets. a.Normal curves b.Density and contour plots c.Correlation and scatter plots d.Histograms e.Three dimensional plotting 7.Visualizing Geographic Data with Basemap	7 BATCH (6STUDENTS/ BATCH) & 2 CYCLES	

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4	Professional Development	MS WORD: Create and format a document Working with tables Working with Bullets and Lists Working with styles, shapes, smart art, charts Inserting objects, charts and importing objects from other office tools Creating and Using document templates Inserting equations, symbols and special characters Working with Table of contents and References, citations Insert and review comments Create bookmarks, hyperlinks, endnotes footnote Viewing document in different modes Working with document protection and security Inspect document for accessibility MSEXCEL: Create worksheets, insert and format data Work with different types of data: text, currency, date, numeric etc. Split, validate, consolidate, Convert data Sort and filter data Perform calculations and use functions: (Statistical, Logical, Mathematical, date, Time etc.,) Work with Lookup and reference formulae Create and Work with different types of charts Use pivot tables to summarize and analyse data Perform data analysis using own formulae and functions Combine data from multiple worksheets using own formulae and built-in functions to	7 BATCH (6STUDENTS/ BATCH) & 2 CYCLES	

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		generate results Export data and sheets to other file formats Working with macros Protecting data and Securing the workbook MS POWERPOINT: Select slide templates, layout and themes Formatting slide content and using bullets and numbering Insert and format images, smart art, tables, charts Using Slide master, notes and handout master Working with animation and transitions Organize and Group slides Import or create and use media objects: audio, video, animation Perform slideshow recording and Record narration and create presentable videos		
5	**Operating Systems Laboratory**	1.Installation of windows operating system 2.Illustrate UNIX commands and Shell Programming 3.Process Management using System Calls : Fork, Exit, Getpid, Wait, Close. 4.Write C programs to implement the various CPU Scheduling Algorithms 5.Illustrate the inter process communication strategy 6.Implement mutual exclusion by Semaphore 7.Write C programs to avoid Deadlock using Banker's Algorithm 8.Write a C program to	7 BATCH (6STUDENTS/ BATCH) & 2 CYCLES	

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		Implement Deadlock Detection Algorithm 9.Write C program to implement Threading 10.Implement the paging Technique using C program 11.Write C programs to implement the following Memory Allocation Methods First Fit b. Worst Fit c. Best Fit 12.Write C programs to implement the various Page Replacement Algorithms 13.Write C programs to Implement the various File Organization Techniques 14.Implement the following File Allocation Strategies using C programs a.Sequential b. Indexed c. Linked 15.Write C programs for the implementation of various disk scheduling algorithms 16.Install any guest operating system like Linux using VMware.		

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6	**DATABASE MANAGEMENT SYSTEMS LABORATORY**	1. Create a database table, add constraints (primary key, unique, check, Not null), insert rows, update and delete rows using SQL DDL and DML commands. 2. Create a set of tables, add foreign key constraints and incorporate referential integrity. 3. Query the database tables using different 'where' clause conditions and also implement aggregate functions. 4. Query the database tables and explore sub queries and simple join operations. 5. Query the database tables and explore natural, equi and outer joins. 6. Write user defined functions and stored procedures in SQL. 7. Execute complex transactions and realize DCL and TCL commands. 8. Write SQL Triggers for insert, delete, and update operations in a database table. 9. Create View and index for database tables with a large number of records. 10. Create an XML database and validate it using XML schema. 11. Create Document, column and graph based data using NOSQL database tools. 12. Develop a simple GUI based database application and incorporate all the above-mentioned features 13. Case Study using any of the real life database applications from the following list a) Inventory Management for a EMart Grocery Shop b) Society Financial	6 BATCH (6STUDENTS/ BATCH) & 2 CYCLES	

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		Management c) Cop Friendly App – Eseva d) Property Management – eMall e) Star Small and Medium Banking and Finance • Build Entity Model diagram. The diagram should align with the business and functional goals stated in the application. • Apply Normalization rules in designing the tables in scope. • Prepared applicable views, triggers (for auditing purposes), functions for enabling enterprise grade features. • Build PL SQL / Stored Procedures for Complex Functionalities, ex EOD Batch Processing for calculating the EMI for Gold Loan for each eligible Customer.		
7	Microprocessors and Microcontrollers Laboratory	**8086 Programs using kits and MASM** 1.Basic arithmetic and Logical operations 2.Move a data block without overlap 3.Code conversion, decimal arithmetic and Matrix operations. 4.Floating point operations, string manipulations, sorting and searching 5.Password checking, Print RAM size and system date 6.Counters and Time Delay **Peripherals and Interfacing Experiments** 7.Traffic light controller 8.Stepper motor control	5 BATCH (5STUDENTS/ BATCH) & 2 CYCLES	

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		9.Digital clock 10.Key board and Display 11.Printer status 12.Serial interface and Parallel interface 13.A/D and D/A interface and Waveform Generation **8051 Experiments using kits and MASM** 14.Basic arithmetic and Logical operations 15.Square and Cube program, Find 2's complement of a number 16.Unpacked BCD to ASCII		
8	OBJECT ORIENTED ANALYSIS AND DESIGN LABORATORY	1.Identify a software system that needs to be developed. 2.Document the Software Requirements Specification (SRS) for the identified system. 3.Identify use cases and develop the Use Case model. 4.Identify the conceptual classes and develop a Domain Model and also derive a Class Diagram from that. 5.Using the identified scenarios, find the interaction between objects and represent them usingUML Sequence and Collaboration Diagrams 6.Draw relevant State Chart and Activity Diagrams for the same system. 7.Implement the system as per the detailed design 8.Test the software system for all the scenarios identified as per the usecase diagram	5 BATCH (5STUDENTS/ BATCH) & 2 CYCLES	

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		9.Improve the reusability and maintainability of the software system by applying appropriate design patterns. 10.Implement the modified system and test it for various scenarios.		
9	NETWORKS LABORATORY	1.Learn to use commands like tcpdump, netstat, ifconfig, nslookup and traceroute. Capture ping and traceroute PDUs using a network protocol analyzer and examine. 2.Write a HTTP web client program to download a web page using TCP sockets. 3.Applications using TCP sockets like: •Echo client and echo server •Chat •File Transfer 4.Simulation of DNS using UDP sockets. 5.Write a code simulating ARP /RARP protocols. 6.Study of Network simulator (NS) and Simulation of Congestion Control Algorithms using NS. 7.Study of TCP/UDP performance using Simulation tool. 8.Simulation of Distance Vector/ Link State Routing algorithm. 9.Performance evaluation of Routing protocols using Simulation tool.	5 BATCH (5STUDENTS/ BATCH) & 2 CYCLES	

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		10.Simulation of error correction code (like CRC).		
10	Internet Programming Laboratory	1.Create a web page with the following using HTML a.To embed a map in a web page b.To fix the hot spots in that map c.Show all the related information when the hot spots are clicked. 2.Create a web page with the following. a.Cascading style sheets. b.Embedded style sheets. c.Inline style sheets. Use our college information for the web pages. 3.Validate the Registration, user login, user profile and payment by credit card pages using JavaScript. 4.Write programs in Java using Servlets: i.To invoke servlets from HTML forms ii.Session tracking using hidden form fields and Session tracking for a hit count 5.Write programs in Java to create three-tier applications using servlets for conducting on- line examination for displaying student mark list. Assume that student information is available in a database which has been stored in a database server. 6.Install TOMCAT web server. Convert the static web pages of programs into dynamic web pages using servlets (or JSP)	5 BATCH (5STUDENTS/ BATCH) & 2 CYCLES	

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		and cookies. Hint: Users information (user id, password, credit card number) would be stored in web.xml. Each user should have a separate Shopping Cart. 7.Redo the previous task using JSP by converting the static web pages into dynamic web pages. Create a database with user information and books information. The books catalogue should be dynamically loaded from the database. 8.Create and save an XML document at the server, which contains 10 users Information. Write a Program, which takes user Id as an input and returns the User details by taking the user information from the XML document 9.i.Validate the form using PHP regular expression. ii.PHP stores a form data into database. 10.Write a web service for finding what people think by asking 500 people's opinion for any consumer product.		
11	MOBILE APPLICATION DEVELOPMENT LABORATORY	1.Develop an application that uses GUI components, Font and Colours 2.Develop an application that uses Layout Managers and event listeners. 3.Write an application that draws basic graphical primitives on the screen. 4.Develop an application that makes use of databases. 5.Develop an application that makes use of Notification Manager 6.Implement an application that uses Multi-threading 7.Develop a native application	5 BATCH (5STUDENTS/ BATCH) & 2 CYCLES	

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		that uses GPS location information 8.Implement an application that writes data to the SD card. 9.Implement an application that creates an alert upon receiving a message 10.Write a mobile application that makes use of RSS feed 11.Develop a mobile application to send an email. 12.Develop a Mobile application for simple needs (Mini Project)		
12	PROFESSIONAL COMMUNICATION	**UNIT I** Introduction to Soft Skills--Hard skills & soft skills - employability and career Skills—Grooming as a professional with values—Time Management—General awareness of Current Affairs **UNIT II** Self-Introduction-organizing the material - Introducing oneself to the audience – introducing the topic – answering questions – individual presentation practice— presenting the visuals effectively – 5 minute presentations **UNIT III** Introduction to Group Discussion— Participating in group discussions – understanding group dynamics - brainstorming the topic — questioning and clarifying –GD strategies- activities to improve GD skills **UNIT IV** Interview etiquette – dress code – body language – attending job interviews– telephone/skype interview -one to one interview &panel interview – FAQs related to job interviews **UNIT V**	5 BATCH (5STUDENTS/ BATCH) & 2 CYCLES	

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		Recognizing differences between groups and teams-managing time-managing stress- networking professionally- respecting social protocols-understanding career management-developing a long-term career plan-making career changes		
13	**Cloud Computing Laboratory**	1.InstallVirtualbox/VMware Workstation with different flavours of linux or windows OS on top of windows7 or 8. 2.Install a C compiler in the virtual machine created using virtual box and execute Simple Programs 3.Install Google App Engine. Create hello world app and other simple web applications using python/java. 4.Use GAE launcher to launch the web applications. 5.Simulate a cloud scenario using CloudSim and run a scheduling algorithm that is not present in CloudSim. 6.Find a procedure to transfer the files from one virtual machine to another virtual machine. 7.Find a procedure to launch virtual machine using trystack (Online Openstack Demo Version) 8.Install Hadoop single node cluster and run simple applications like wordcount.	5 BATCH (4 STUDENTS/ BATCH) & 2 CYCLES	
14	**SECURITY LABORATORY**	1.Perform encryption, decryption using the following substitution techniques (i)Ceaser cipher, (ii) playfair cipher iii) Hill Cipher iv) Vigenere cipher 2.Perform encryption and decryption using following transposition techniques i) Rail fence ii) row & Column		

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		Transformation 3.Apply DES algorithm for practical applications. 4.Apply AES algorithm for practical applications. 5.Implement RSA Algorithm using HTML and JavaScript 6.Implement the Diffie-Hellman Key Exchange algorithm for a given problem. 7.Calculate the message digest of a text using the SHA-1 algorithm. 8.Implement the SIGNATURE SCHEME - Digital Signature Standard. 9.Demonstrate intrusion detection system (ids) using any tool eg. Snort or any other s/w. 10.Automated Attack and Penetration Tools Exploring N-Stalker, a Vulnerability Assessment Tool 11.Defeating Malware i) Building Trojans ii) Rootkit Hunter	5 BATCH (4 STUDENTS/ BATCH) & 2 CYCLES	

PHOTO GALLERY

CLOUD COMPUTING LABORATORY

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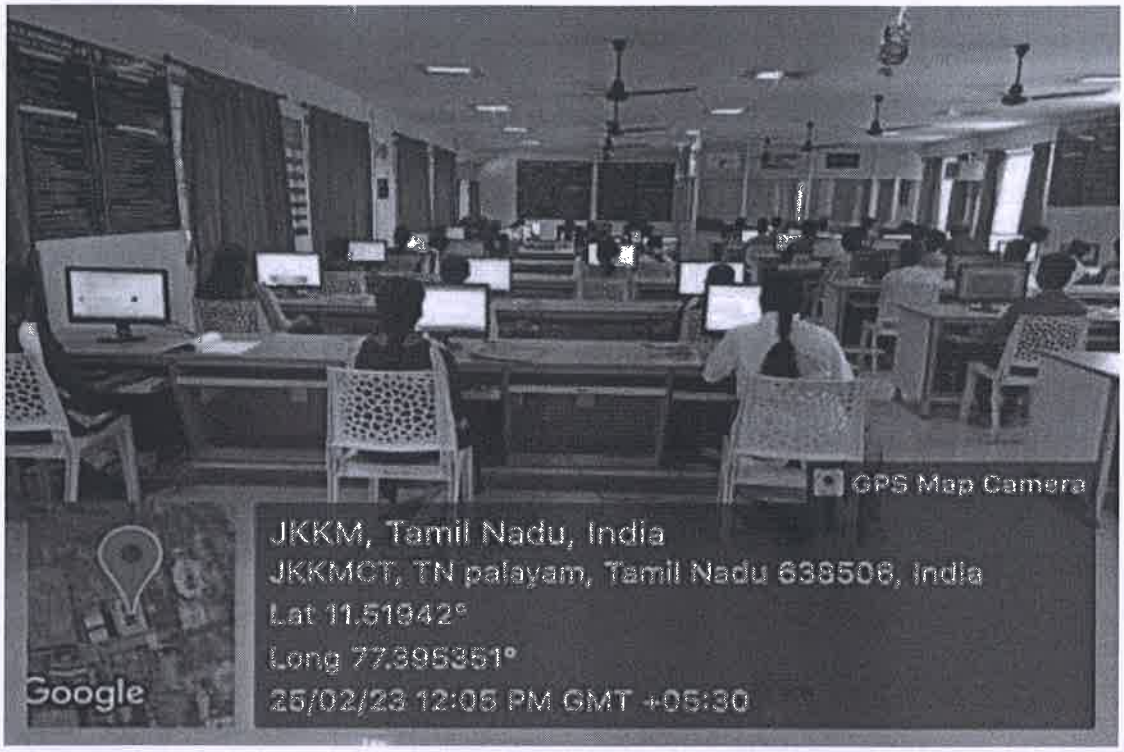
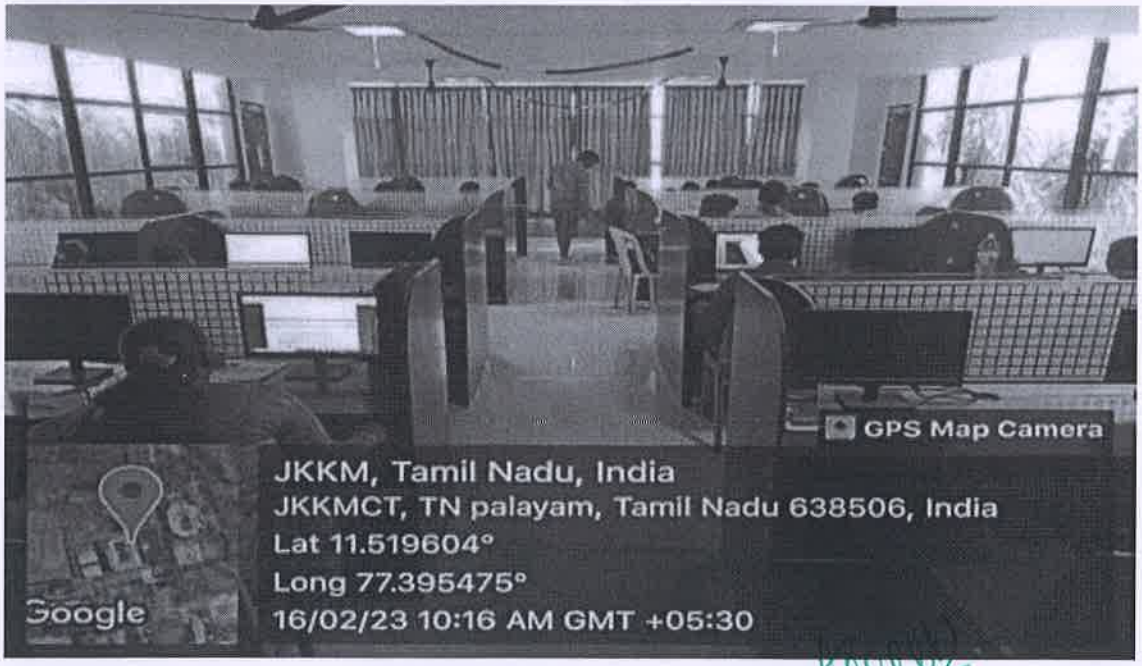


SECURITY LABORATORY



INTERNET PROGRAMMING LABORATORY

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LIST OF LABORATORY COURSES ACADEMIC YEAR 2022-23

DEPARTMENT OF INFORMATION TECHNOLOGY

S.NO	SEMESTER	COURSE CODE	SUBJECT CODE	SUBJECTNAME
1	I	C106	GE3151	Problem Solving and Python Programming Laboratory
2	II	C206	CS3251	Programming in C Laboratory
3	III	C306	CD3281	Data Structures And Algorithms Laboratory
4		C307	CS3381	Object Oriented Programming Laboratory
5		C308	CS3361	Data Science Laboratory
6		C309	GE3361	Professional Development
7	IV	C408	CS3461	Operating Systems Laboratory
8		C409	CS3481	Database Management Systems Laboratory
9	V	C507	EC8681	Microprocessors and Microcontrollers Laboratory
10		C508	CS8581	Networks Laboratory
11		C509	IT8511	Web Technology Laboratory
12		C606	CS8662	Mobile Application Development Laboratory
13		C607	CS8582	Object Oriented Analysis and Design Laboratory
14		C608	IT8611	Mini Project
15	VI	C609	HS8581	Professional Communication
16	VII	C706	IT8711	FOSS and Cloud Computing Laboratory
17		C707	IT8761	Security Laboratory
18	VIII	C803	CS8811	Project Work

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S.No	LAB NAME	LIST OF EXPERIMENTS	BATCH SIZE (STUDENTS)	REMARKS
1	**DATA STRUCTURES LABORATORY**	1.Array implementation of Stack, Queue and Circular Queue ADTs. 2.Implementation of Singly Linked List 3.Linked list implementation of Stack and Linear Queue ADTs 4.Implementation of Polynomial Manipulation using Linked list 5.Implementation of Evaluating Postfix Expressions, Infix to Postfix conversion 6.Implementation of Binary Search Trees 7.Implementation of AVL Trees 8.Implementation of Heaps using Priority Queues 9.Implementation of Dijkstra's Algorithm 10.Implementation of Prim's Algorithm 11.Implementation of Linear Search and Binary Search 12.Implementation of Insertion Sort and Selection Sort 13.Implementation of Merge Sort 14.Implementation of Open Addressing (Linear Probing and Quadratic Probing)	7 BATCH (6STUDENTS/ BATCH) & 2 CYCLES	
		B1.Solve problems by using sequential search, binary search, and quadratic sorting algorithms (selection, insertion)		

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2	**OBJECT ORIENTED PROGRAMMING LABORATORY**	2.Develop stack and queue data structures using classes and objects. 3.Develop a java application with an Employee class with Emp_name, Emp_id, Address, Mail_id, Mobile_no as members. Inherit the classes, Programmer, Assistant Professor, Associate Professor and Professor from employee class. Add Basic Pay (BP) as the member of all the inherited classes with 97% of BP as DA, 10 % of BP as HRA, 12% of BP as PF, 0.1% of BP for staff club funds. Generate pay slips for the employees with their gross and net salary.	7 BATCH (6STUDENTS/ BATCH) & 2 CYCLES	
		4.Write a Java Program to create an abstract class named Shape that contains two integers and an empty method named printArea(). Provide three classes named Rectangle, Triangle and Circle such that each one of the classes extends the class Shape. Each one of the classes contains only the method printArea( ) that prints the area of the given shape. 5.Solve the above problem using an interface. 6.Implement exception handling and creation of user defined exceptions. 7.Write a java program that implements a multi-threaded application that has three		

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		threads. First thread generates a random integer every 1 second and if the value is even, the second thread computes the square of the number and prints. If the value is odd, the third thread will print the value of the cube of the number. 8.Write a program to perform file operations. 9.Develop applications to demonstrate the features of generics classes. 10.Develop applications using JavaFX controls, layouts and menus. 11.Develop a mini project for any application using Java concepts.		
3	**DATA SCIENCE LABORATORY**	1.Download, install and explore the features of NumPy, SciPy, Jupyter, Statsmodels and Pandas packages. 2.Working with Numpy arrays 3.Working with Pandas data frames 4.Reading data from text files, Excel and the web and exploring various commands for doing descriptive analytics on the Iris data set. 5.Use the diabetes data set from UCI and Pima Indians Diabetes data set for performing the following: a.Univariate analysis: Frequency, Mean, Median, Mode, Variance, Standard Deviation, Skewness and Kurtosis.	7 BATCH (6 STUDENTS/ BATCH) & 2 CYCLES	

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		b.Bivariate analysis: Linear and logistic regression modeling c.Multiple Regression analysis d.Also compare the results of the above analysis for the two data sets. 6.Apply and explore various plotting functions on UCI data sets. a.Normal curves b.Density and contour plots c.Correlation and scatter plots d.Histograms e.Three dimensional plotting 7.Visualizing Geographic Data with Basemap		
4	**PROFESSIONAL DEVELOPMENT**	MS WORD: Create and format a document Working with tables Working with Bullets and Lists Working with styles, shapes, smart art, charts Inserting objects, charts and importing objects from other office tools Creating and Using document templates Inserting equations, symbols and special characters Working with Table of contents and References, citations Insert and review comments Create bookmarks, hyperlinks, endnotes footnote Viewing document in different modes Working with document protection and security Inspect document for accessibility MSEXCEL: Create worksheets, insert and format data Work with different types of data: text, currency, date, numeric etc. Split, validate, consolidate, Convert data	7 BATCH (6 STUDENTS/ BATCH) & 2 CYCLES	

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		Sort and filter data Perform calculations and use functions: (Statistical, Logical, Mathematical, date, Time etc.,) Work with Lookup and reference formulae Create and Work with different types of charts Use pivot tables to summarize and analyse data Perform data analysis using own formulae and functions Combine data from multiple worksheets using own formulae and built-in functions to generate results Export data and sheets to other file formats Working with macros Protecting data and Securing the workbook MS POWERPOINT: Select slide templates, layout and themes Formatting slide content and using bullets and numbering Insert and format images, smart art, tables, charts Using Slide master, notes and handout master Working with animation and transitions Organize and Group slides Import or create and use media objects: audio, video, animation Perform slideshow recording and Record narration and create presentable videos		

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4	**OPERATING SYSTEMS LABORATORY**	1.Installation of windows operating system 2.Illustrate UNIX commands and Shell Programming 3.Process Management using System Calls : Fork, Exit, Getpid, Wait, Close. 4.Write C programs to implement the various CPU Scheduling Algorithms 5.Illustrate the inter process communication strategy 6.Implement mutual exclusion by Semaphore 7.Write C programs to avoid Deadlock using Banker's Algorithm 8.Write a C program to Implement Deadlock Detection Algorithm 9.Write C program to implement Threading 10.Implement the paging Technique using C program 11.Write C programs to implement the following Memory Allocation Methods First Fit b. Worst Fit c. Best Fit 12.Write C programs to implement the various Page Replacement Algorithms 13.Write C programs to Implement the various File Organization Techniques	6 BATCH (6STUDENTS/ BATCH) & 2 CYCLES	

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		14.Implement the following File Allocation Strategies using C programs a.Sequential b. Indexed c. Linked 15.Write C programs for the implementation of various disk scheduling algorithms 16.Install any guest operating system like Linux using VMware.		
5.	**DATABASE MANAGEMENT SYSTEMS LABORATORY**	1. Create a database table, add constraints (primary key, unique, check, Not null), insert rows, update and delete rows using SQL DDL and DML commands. 2. Create a set of tables, add foreign key constraints and incorporate referential integrity. 3. Query the database tables using different 'where' clause conditions and also implement aggregate functions. 4. Query the database tables and explore sub queries and simple join operations. 5. Query the database tables and explore natural, equiand outer joins. 6. Write user defined functions and stored procedures in SQL. 7. Execute complex transactions and realize DCL and TCL commands. 8. Write SQL Triggers for insert, delete, and update operations in a database table. 9. Create View and index for database tables with a large number of records. 10. Create an XML database	6 BATCH (6STUDENTS/ BATCH) & 2 CYCLES	

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		and validate it using XML schema. 11. Create Document, column and graph based data using NOSQL database tools. 12. Develop a simple GUI based database application and incorporate all the above-mentioned features 13. Case Study using any of the real life database applications from the following list a) Inventory Management for a EMart Grocery Shop b) Society Financial Management c) Cop Friendly App – Eseva d) Property Management – eMall e) Star Small and Medium Banking and Finance • Build Entity Model diagram. The diagram should align with the business and functional goals stated in the application. • Apply Normalization rules in designing the tables in scope. • Prepared applicable views, triggers (for auditing purposes), functions for enabling enterprise grade features. • Build PL SQL / Stored Procedures for Complex Functionalities, ex EOD Batch Processing for calculating the EMI for Gold Loan for each eligible Customer.		
		8086 Programs using kits and MASM 1.Basic arithmetic and Logical operations 2.Move a data block without		

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6.	MICROPROCESSORS AND MICROCONTROLLERS LABORATORY	overlap 3.Code conversion, decimal arithmetic and Matrix operations. 4.Floating point operations, string manipulations, sorting and searching 5.Password checking, Print RAM size and system date 6.Counters and Time Delay **Peripherals and Interfacing Experiments** 7.Traffic light controller 8.Stepper motor control 9.Digital clock 10.Key board and Display 11.Printer status 12.Serial interface and Parallel interface 13.A/D and D/A interface and Waveform Generation **8051 Experiments using kits and MASM** 14.Basic arithmetic and Logical operations 15.Square and Cube program, Find 2's complement of a number 16.Unpacked BCD to ASCII	5 BATCH (5STUDENTS/ BATCH) & 2 CYCLES	
7.	WEB TECHNOLOGY LABORATORY	1.Create a web page with the following using HTML. i)To embed an image map in a web page. ii)To fix the hot spots. iii)Show all the related information when the hot spots are clicked 2.Create a web page with all types of Cascading style sheets. 3.Client Side Scripts for Validating Web Form Controls using DHTML.	5 BATCH (5STUDENTS/ BATCH) & 2 CYCLES	

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		4.Installation of Apache Tomcat web server. 5.Write programs in Java using Servlets: To invoke servlets from HTML forms. Session Tracking. 6.Write programs in Java to create three-tier applications using JSP and Databases •For conducting on-line examination. •For displaying student mark list. Assume that student information is available in a database which has been stored in a database server. 7.Programs using XML – Schema – XSLT/XSL. 8.Programs using DOM and SAX parsers. 9.Programs using AJAX. 10.Consider a case where we have two web Services- an airline service and a travel agent and the travel agent is searching for an airline. Implement this scenario using Web Services and Data base.		
8	**NETWORKS LABORATORY**	1.Learn to use commands like tcpdump, netstat, ifconfig, nslookup and traceroute. Capture ping and traceroute PDUs using a network protocol analyzer and examine. 2.Write a HTTP web client program to download a web page using TCP sockets. 3.Applications using TCP sockets like: •Echo client and echo server •Chat •File Transfer 4.Simulation of DNS using	5 BATCH (5STUDENTS/	

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		UDP sockets. 5.Write a code simulating ARP /RARP protocols. 6.Study of Network simulator (NS) and Simulation of Congestion Control Algorithms using NS. 7.Study of TCP/UDP performance using Simulation tool. 8.Simulation of Distance Vector/ Link State Routing algorithm. 9.Performance evaluation of Routing protocols using Simulation tool. 10.Simulation of error correction code (like CRC).	BATCH) & 2 CYCLES	
9	**MOBILE APPLICATION DEVELOPMENT LABORATORY**	1.Develop an application that uses GUI components, Font and Colours 2.Develop an application that uses Layout Managers and event listeners. 3.Write an application that draws basic graphical primitives on the screen. 4.Develop an application that makes use of databases. 5.Develop an application that makes use of Notification Manager 6.Implement an application that uses Multi-threading 7.Develop a native application that uses GPS location information 8.Implement an application that writes data to the SD card. 9.Implement an application that creates an alert upon receiving a message	5 BATCH (4 STUDENTS/ BATCH) & 2 CYCLES	

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		10.Write a mobile application that makes use of RSS feed 11.Develop a mobile application to send an email. 12.Develop a Mobile application for simple needs (Mini Project)		
10	**OBJECT ORIENTED ANALYSIS AND DESIGN LABORATORY**	1.Identify a software system that needs to be developed. 2.Document the Software Requirements Specification (SRS) for the identified system. 3.Identify use cases and develop the Use Case model. 4.Identify the conceptual classes and develop a Domain Model and also derive a Class Diagram from that. 5.Using the identified scenarios, find the interaction between objects and represent them usingUML Sequence and Collaboration Diagrams 6.Draw relevant State Chart and Activity Diagrams for the same system. 7.Implement the system as per the detailed design 8.Test the software system for all the scenarios identified as per the usecase diagram 9.Improve the reusability and maintainability of the software system by applying appropriate design patterns. 10.Implement the modified system and test it for various scenarios	5 BATCH (4 STUDENTS/ BATCH) & 2 CYCLES	

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11.	**PROFESSIONAL COMMUNICATION**	UNIT I Introduction to Soft Skills--Hard skills & soft skills - employability and career Skills—Grooming as a professional with values—Time Management—General awareness of Current Affairs UNIT II Self-Introduction-organizing the material - Introducing oneself to the audience – introducing the topic – answering questions – individual presentation practice— presenting the visuals effectively – 5 minute presentations UNIT III Introduction to Group Discussion— Participating in group discussions – understanding group dynamics - brainstorming the topic — questioning and clarifying –GD strategies- activities to improve GD skills UNIT IV Interview etiquette – dress code – body language – attending job interviews– telephone/skype interview -one to one interview &panel interview – FAQs related to job interviews UNIT V Recognizing differences between groups and teams-managing time-managing stress- networking professionally- respecting social protocols-understanding career management-developing a long-term career plan-making career changes	5 BATCH (4 STUDENTS/ BATCH) & 2 CYCLES	

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12.	**CLOUD COMPUTING LABORATORY**	1.InstallVirtualbox/VMware Workstation with different flavours of linux or windows OS on top of windows7 or 8. 2.Install a C compiler in the virtual machine created using virtual box and execute Simple Programs 3.Install Google App Engine. Create hello world app and other simple web applications using python/java. 4.Use GAE launcher to launch the web applications. 5.Simulate a cloud scenario using CloudSim and run a scheduling algorithm that is not present in CloudSim. 6.Find a procedure to transfer the files from one virtual machine to another virtual machine. 7.Find a procedure to launch virtual machine using trystack (Online Openstack Demo Version) 8.InstallHadoop single node cluster and run simple applications like wordcount.	3 BATCH (3 STUDENTS/ BATCH) & 2 CYCLES	
13.	**SECURITY LABORATORY**	1.Perform encryption, decryption using the following substitution techniques (i)Ceaser cipher, (ii) playfair cipher iii) Hill Cipher iv) Vigenere cipher 2.Perform encryption and decryption using following transposition techniques i) Rail fence ii) row & Column Transformation 3.Apply DES algorithm for practical applications. 4.Apply AES algorithm for practical applications. 5.Implement RSA Algorithm using HTML and JavaScript 6.Implement the Diffie-Hellman Key Exchange algorithm for a	3 BATCH (3 STUDENTS/ BATCH) & 2 CYCLES	

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		given problem. 7.Calculate the message digest of a text using the SHA-1 algorithm. 8.Implement the SIGNATURE SCHEME - Digital Signature Standard. 9.Demonstrate intrusion detection system (ids) using any tool eg. Snort or any other s/w. 10.Automated Attack and Penetration Tools Exploring N-Stalker, a Vulnerability Assessment Tool 11.Defeating Malware i) Building Trojans ii) Rootkit Hunter		

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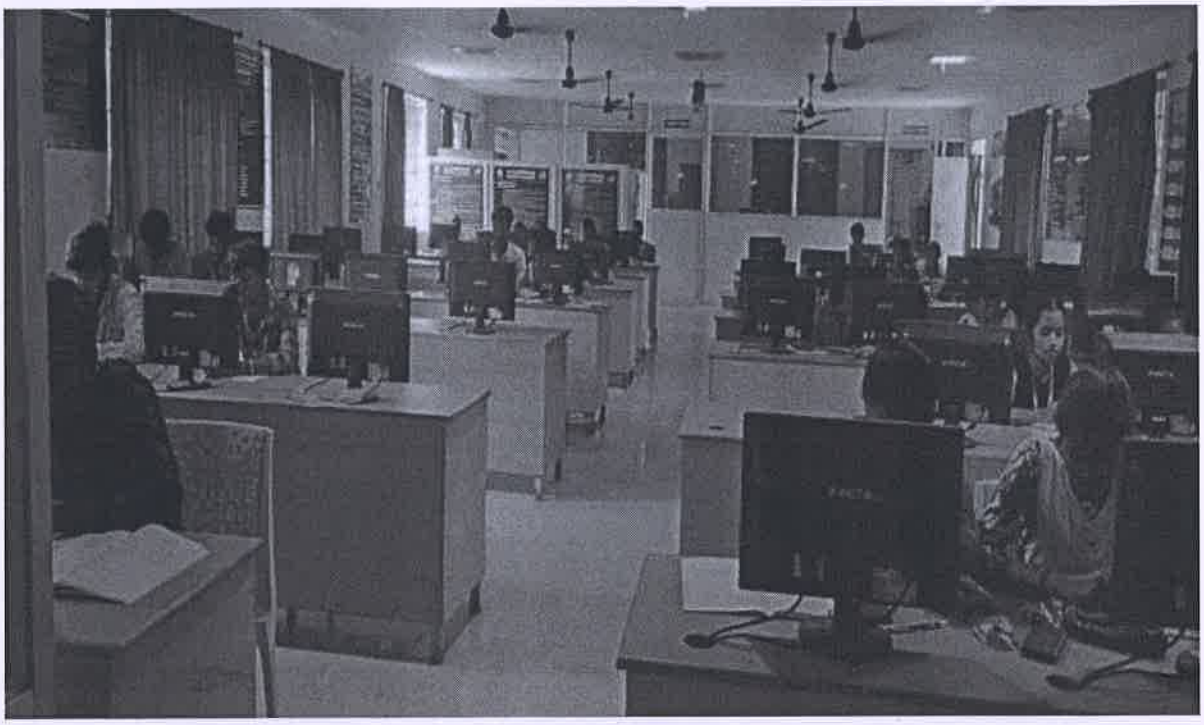

NETWORKS LABORATORY

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DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

M.E–COMPUER SCIENCE ENGINEERING

LIST OF LABORATORY COURSES

ACADEMIC YEAR 2022-23

MASTER OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING

S.NO	SEMESTER	COURSE CODE	SUBJECT CODE	SUBJECT NAME
1	I	C108	CP4161	Advanced Data Structures and Algorithms Laboratory
2	II	C207	CP4211	Term Paper Writing and seminar
3		C208	CP4212	Software Engineering Laboratory
4	III	C305	CP4311	Project Work I
5	IV	C401	CP4411	Project Work II

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S.No	LAB NAME	LIST OF EXPERIMENTS	(STUDENTS)	REMARKS
1	**ADVANCED DATA STRUCTURES AND ALGORITHMS LABORATORY**	1: Implementation of recursive function for tree traversal and Fibonacci 2: Implementation of iteration function for tree traversal and Fibonacci 3: Implementation of Merge Sort and Quick Sort 4: Implementation of a Binary Search Tree 5: Red-Black Tree Implementation 6: Heap Implementation 7: Fibonacci Heap Implementation 8: Graph Traversals 9: Spanning Tree Implementation 10: Shortest Path Algorithms (Dijkstra's algorithm, Bellman Ford Algorithm) 11: Implementation of Matrix Chain Multiplication 12: Activity Selection and Huffman Coding Implementation	1 BATCH(2 STUDENTS/ BATCH) & 2 CYCLES	

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2	**TERM PAPER WRITING AND SEMINAR**	1. Selecting a subject, narrowing the subject into a topic 2. Stating an objective. 3. Collecting the relevant bibliography (atleast 15 journal papers) 4. Preparing a working outline. 5. Studying the papers and understanding the authors contributions and critically analysing each paper. 6. Preparing a working outline 7. Linking the papers and preparing a draft of the paper. 8. Preparing conclusions based on the reading of all the papers. 9. Writing the Final Paper and giving final Presentation	1 BATCH(2 STUDENTS / BATCH) & 2 CYCLES	
3	**SOFTWARE ENGINEERING LABORATORY**	1. Write a Problem Statement to define a title of the project with bounded scope of project 2. Select relevant process model to define activities and related task set for assigned project 3. Prepare broad SRS (Software Requirement Specification) for the above selected projects 4. Prepare USE Cases and Draw Use Case Diagram using modelling Tool 5. Develop the activity diagram to represent flow from one activity to another for software development 6. Develop data Designs using DFD Decision Table & ER Diagram. 7. Draw class diagram, sequence diagram, Collaboration Diagram, State Transition Diagram for the assigned project 8. Write Test Cases to Validate requirements of assigned project from SRS Document	1 BATCH (2 STUDENTS / BATCH) & 2 CYCLES	

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		9. Evaluate Size of the project using function point metric for the assigned project 10. Estimate cost of the project using COCOMO and COCOCMOII for the assigned project 11. Use CPM/PERT for scheduling the assigned project 12. Use timeline Charts or Gantt Charts to track progress of the assigned project		

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DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

LIST OF LABORATORY COURSES

ACADEMIC YEAR: 2022-23

DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

S.NO	SEMESTER	COURSE CODE	SUBJECT CODE	SUBJECT NAME
1	I	C108	MC4111	Advanced Data Structures and Algorithms Laboratory
2		C109	MC4112	Python Programming Laboratory
3		C110	MC4113	Communication Skills Enhancement – I
4	II	C207	MC4211	Advanced Database Technology Laboratory
5		C208	MC4212	Full Stack Web Development Laboratory
6		C209	MC4213	Communication Skills Enhancement– II
7	III	C307	MC4311	Machine Learning Laboratory
9		C308	MC4312	Internet of Things Laboratory.
11	IV	C401	MC4411	Project Work

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S.No	LAB NAME	LIST OF EXPERIMENTS	(STUDENTS)	REMARKS
1	Advanced Data Structures and Algorithms Laboratory	1. 1: Implementation of recursive function for tree traversal and Fibonacci 2. 2: Implementation of iteration function for tree traversal and Fibonacci 3. 3: Implementation of Merge Sort and Quick Sort 4. 4: Implementation of a Binary Search Tree 5. 5: Red-Black Tree Implementation 6. 6: Heap Implementation 7. 7: Fibonacci Heap Implementation 8. 8: Graph Traversals 9. 9: Spanning Tree Implementation 10. 10: Shortest Path Algorithms (Dijkstra's algorithm, Bellman Ford Algorithm) 11. 11: Implementation of Matrix Chain Multiplication 12. 12: Activity Selection and Huffman Coding Implementation	2 BATCH (3 STUDENTS/ BATCH) & 2 CYCLES	

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2	Python Programming Laboratory	1. Python programming using simple statements and expressions (exchange the values of two variables, circulate the values of n variables, distance between two points). 2. Scientific problems using Conditionals and Iterative loops. 3. Linear search and Binary search 4. Selection sort, Insertion sort 5. Merge sort, Quick Sort 6. Implementing applications using Lists, Tuples. 7. Implementing applications using Sets, Dictionaries. 8. Implementing programs using Functions. 9. Implementing programs using Strings. 10. Implementing programs using written modules and Python Standard Libraries (pandas, numpy, Matplotlib, scipy) 11. Implementing real-time/technical applications using File handling. 12. Implementing real-time/technical applications using Exception handling. 13. Creating and Instantiating classes	2 BATCH (3 STUDENTS/ BATCH) & 2 CYCLES	

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3	Communication Skills Enhancement – I	1. Listening: Listening and practicing neutral accents23 Listening to short talks and lectures and completing listening comprehension exercises Listening to TED Talks 2. Speaking: Giving one minute talks Participating in small Group Discussions Making Presentations 3. Reading: Reading Comprehension Reading subject specific material Technical Vocabulary 4. Writing: Formal vs Informal Writing Paragraph Writing Essay Writing Email Writing	2 BATCH (3 STUDENTS/ BATCH) & 2 CYCLES	
4	Machine Learning Laboratory	1. Demonstrate how do you structure data in Machine Learning 2. Implement data preprocessing techniques on real time dataset 3. Implement Feature subset selection techniques 4. Demonstrate how will you measure the performance of a machine learning model 5. Write a program to implement the naïve Bayesian classifier for a sample training data	2 BATCH (3 STUDENTS/ BATCH) & 2 CYCLES	

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		set. Compute the accuracy of the classifier, considering few test data sets. 6. Write a program to construct a Bayesian network considering medical data. Use this model to demonstrate the diagnosis of heart patients using the standard Heart Disease Data Set. 7. Apply EM algorithm to cluster a set of data stored in a .CSV file. 8. Write a program to implement k-Nearest Neighbor algorithm to classify the data set. 9. Apply the technique of pruning for a noisy data monk2 data, and derive the decision tree from this data. Analyze the results by comparing the structure of pruned and unpruned tree. 10. Build an Artificial Neural Network by implementing the Back propagation algorithm and test the same using appropriate data sets 11. Implement Support Vector Classification for linear kernels. 12. Implement Logistic Regression to classify problems such as spam detection. Diabetes predictions and so on.		

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5	Internet of Things Laboratory.	1. To study various IoT protocols – 6LowPAN, IPv4/IPv6, Wifi, Bluetooth, MQTT. 2. IoT Application Development Using sensors and actuators (temperature sensor, light sensor, infrared sensor) 3. To study Raspberry Pi development board and to implement LED blinking applications. 4. To develop an application to send and receive data with Arduino using HTTP request 5. To develop an application that measures the room temperature and posts the temperature value on the cloud platform. 6. To develop an application that measures the moisture of soil and post the sensed data over Google Firebase cloud platform. 7. To develop an application for measuring the distance using ultrasonic sensor and post distance value on Google Cloud IoT platform 8. Develop a simple application based on sensors. 9. Develop IoT applications using Django Framework and Firebase/ Bluemix platform. 10. Develop a commercial IoT application.	2 BATCH (3 STUDENTS/ BATCH) & 2 CYCLES	

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DATA STRUCTURES AND ALGORITHMS LABORATORY

WEB PROGRAMMING WITH JAVA LABORATORY

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MOBILE APPLICATION DEVELOPMENT LABORATORY

CLOUD AND BIG DATALABORATORY

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GOBI (Tk), ERODE (Dt).

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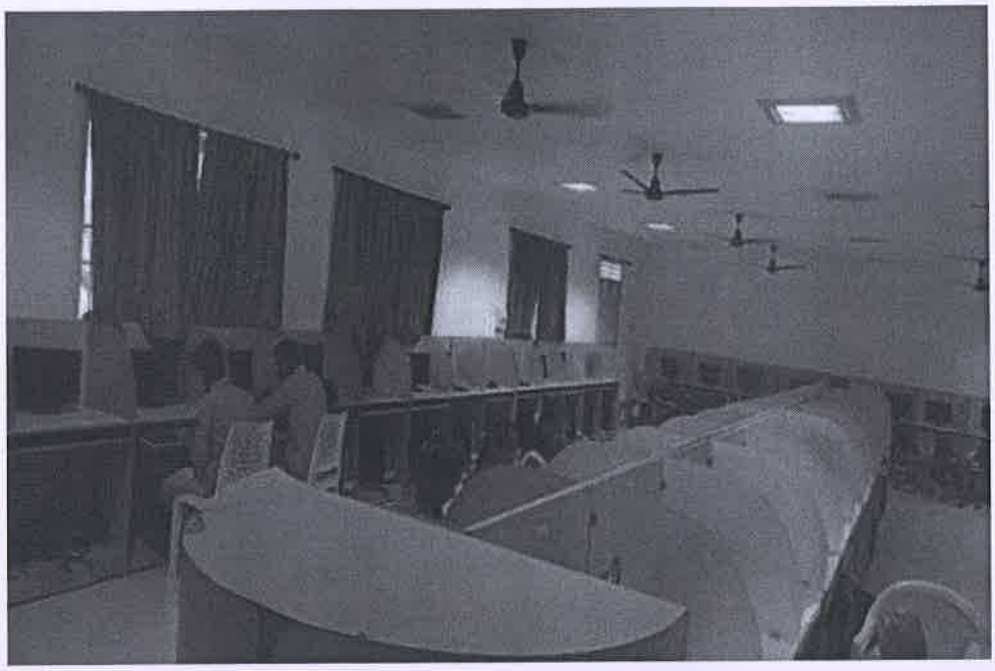

SOFTWARE TESTING LABORATORY

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LIST OF LABORATORY COURSES ACADEMIC YEAR 2022-23

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERNG

S.N0	SEMESTER	COURSE CODE	SUBJECT CODE	SUBJECT NAME
1	I	C106	GE3171	PYTHON PROGRAMMING LABORATORY
2		C107	BS3171	PHYSICS AND CHEMISTRY LABORATORY
3	II	C114	GE3271	ENGINEERING PRACTICES LABORATORY
4		C115	EC3271	CIRCUIT ANALYSIS LABORATORY
5	III	C208	CS3362	CPROGRAMMING AND DATASTRUCTURES LABORATORY
6		C207	EC3361	ELECTRONIC DEVICES AND CIRCUITSLABORATORY
7		C210	EC3352	DIGITAL SYSTEMS DESIGN LABORATORY
8		C217	EC3461	COMMUNICATION SYSTEMS LABORATORY
9	IV	C218	EC3462	LINEAR INTEGRATED CIRCUITS LABORATORY
10		C219	EC3492	DIGITAL SIGNAL PROCESSING LABORATORY
11	V	C307	EC8562	DIGITAL SIGNAL PROCESSING LABORATORY
12		C308	EC8561	COMMUNICATION SYSTEMS LABORATORY
13		C309	EC8563	COMMUNICATION NETWORKS LABORATORY
14		C316	EC8681	MICROPROCESSORS AND MICROCONTROLLERS LABORATORY
15	VI	C317	EC8661	VLSI DESIGN LABORATORY
16	VII	C403	EC8711	EMBEDDED LABORATORY
17		C408	EC8761	ADVANCED COMMUNICATION LABORATORY

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S.No	LAB NAME	LIST OF EXPERIMENTS	BATCH SIZE (STUDENTS)	REMARKS
1	.GE3171-Python Programming Laboratory	1. Identification and solving of simple real life or scientific or technical problems, and developing flow charts for the same. (Electricity Billing, Retail shop billing, Sin series, weight of a motorbike, Weight of a steel bar, compute Electrical Current in Three Phase AC Circuit, etc.) 2. Python programming using simple statements and expressions (exchange the values of two variables, circulate the values of n variables, distance between two points). 3. Scientific problems using Conditionals and Iterative loops. (Number series, Number Patterns, pyramid pattern) 4. Implementing real-time/technical applications using Lists, Tuples. (Items present in a library/Components of a car/ Materials required for construction of a building – operations of list & tuples) 5. Implementing real-time/technical applications using Sets, Dictionaries. (Language, components of an automobile,	7 BATCHS (5 STUDENTS PER BATCH) & 2 CYCLES	

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		Elements of a civil structure, etc.- operations of Sets & Dictionaries) 6. Implementing programs using Functions. (Factorial, largest number in a list, area of shape) 7. Implementing programs using Strings. (reverse, palindrome, character count, replacing characters) 8. Implementing programs using written modules and Python Standard Libraries (pandas, numpy. Matplotlib, scipy) 9. Implementing real-time/technical applications using File handling. (copy from one file to another, word count, longest word) 10. Implementing real-time/technical applications using Exception handling. (divide by zero error, voter's age validity, student mark range validation) 11. Exploring Pygame tool. 12. Developing a game activity using Pygame like bouncing ball, car race etc.		
2	BS3171-Physics and Chemistry Laboratory	**PHYSICS LABORATORY :** 1. Torsional pendulum - Determination of rigidity modulus of wire and moment of inertia of regular and irregular objects.	7 BATCHS (5 STUDENTS PER BATCH) & 2 CYCLES	

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		2. Simple harmonic oscillations of cantilever. 3. Non-uniform bending - Determination of Young's modulus 4. Uniform bending – Determin ation of Young's modulus 5. Laser- Determination of the wavelength of the laser using grating 6. Air wedge - Determination of thickness of a thin sheet/wire 7. a) Optical fibre - Determination of Numerical Aperture and acceptance angle b) Compact disc- Determination of width of the groove using laser. 8. Acoustic grating- Determination of velocity of ultrasonic waves in liquids. 9. Ultrasonic interferometer – determination of the velocity of sound and compressibility of liquids 10. Post office box - Determination of Band gap of a semiconductor. 11. Photoelectric effect 12. Michelson Interferometer. 13. Melde's string experiment 14. Experiment with lattice dynamics kit **CHEMISTRY**		

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		LABORATORY 1. Preparation of Na2CO3 as a primary standard and estimation of acidity of a water sample using the primary standard 2. Determination of types and amount of alkalinity in a water sample. - Split the first experiment into two 3. Determination of total, temporary & permanent hardness of water by EDTA method. 4. Determination of DO content of water sample by Winkler's method. 5. Determination of chloride content of water sample by Argentometric method. 6. Estimation of copper content of the given solution by Iodometry. 7. Estimation of TDS of a water sample by gravimetry. 8. Determination of strength of given hydrochloric acid using pH meter. 9. Determination of strength of acids in a mixture of acids using conductivity meter. 10. Conductometric titration of barium chloride against sodium sulphate (precipitation titration) 11. Estimation of iron content of the given solution using		

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		potentiometer. 12. Estimation of sodium /potassium present in water using a flame photometer. 13. Preparation of nanoparticles (TiO2/ZnO/CuO) by Sol-Gel method. 14. Estimation of Nickel in steel 15. Proximate analysis of Coal		
4	GE3271-Engineering Practices Laboratory	**GROUP – A** **(CIVIL & ELECTRICAL)** **PART I** **CIVIL ENGINEERING PRACTICES PLUMBING WORK:** a) Connecting various basic pipe fittings like valves, taps, coupling,unions, reducers,elbows and other components which are commonly used in household. b) Preparing plumbing line sketches. c) Laying pipe connection to the suction side of a pump d) Laying pipe connection to the delivery side of a pump. e) Connecting pipes of different materials: Metal, plastic and flexible pipes used inhousehold appliances. **WOOD WORK**: a) Sawing, b) Planing and	7 BATCHS (5 STUDENTS PER BATCH) & 2 CYCLES	

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		c) Making joints like T-Joint, Mortise joint and Tenon joint and Dovetail joint. **Wood Work Study:** a) Studying joints in door panels and wooden furniture b) Studying common industrial trusses using models. **PART II** **ELECTRICAL ENGINEERING PRACTICES**a) Introduction to switches, fuses, indicators and lamps - Basic switch board wiring with lamp, fan and three pin socket b) Staircase wiring c) Fluorescent Lamp wiring with introduction to CFL and LED types. d) Energy meter wiring and related calculations/ calibration e) Study of Iron Box wiring and assembly f) Study of Fan Regulator (Resistor type and Electronic type using Diac/Triac/quadrac) g) Study of emergency lamp wiring/Water heater **PART II** **ELECTRICAL ENGINEERING PRACTICES** a) Introduction to switches, fuses, indicators and lamps -		

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		Basic switch board wiring with lamp, fan and three pin socket b) Staircase wiring c) Fluorescent Lamp wiring with introduction to CFL and LED types. d) Energy meter wiring and related calculations/ calibration e) Study of Iron Box wiring and assembly f) Study of Fan Regulator (Resistor type and Electronic type using Diac/Triac/quadrac) g) Study of emergency lamp wiring/Water heater **GROUP – B (MECHANICAL AND ELECTRONICS)** **PART III** **MECHANICAL ENGINEERING PRACTICES** **WELDING WORK:** a) Welding of Butt Joints, Lap Joints, and Tee Joints using arc welding. b) Practicing gas welding. **BASIC MACHINING WORK:** a) (simple)Turning. b) (simple)Drilling. c)(simple)Tapping. **ASSEMBLY WORK:** a) Assembling a centrifugal pump. b) Assembling a household mixer.		

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		c) Assembling an airconditioner. **SHEET METAL WORK:** a) Making of a square tray **FOUNDRY WORK:** a) Demonstrating basic foundry operations. **PART IV ELECTRONIC ENGINEERING PRACTICES** **SOLDERING WORK:** a) Soldering simple electronic circuits and checking continuity. **ELECTRONIC ASSEMBLY AND TESTING WORK:** a) Assembling and testing electronic components on a small **PCB. ELECTRONIC EQUIPMENT STUDY:** a) Study an elements of smart phone. b) Assembly and dismantle of LED TV. c) Assembly and dismantle of computer/ laptop		
5	EC3271-Circuit Analysis Laboratory	1. Verifications of KVL & KCL. 2. Verifications of Thevenin& Norton theorem. 3. Verification of Superposition Theorem. 4. Verification of maximum power transfer Theorem 5. Determination of Resonance Frequency of Series & Parallel RLC Circuits.	7 BATCHS (5STUDENTS PER BATCH) & 2 CYCLES	

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		6. Transient analysis of RL and RC circuits.		
6	CS3362-C Programming and Data Structures Laboratory	1. Practice of C programming using statements, expressions, decision making and iterative statements 2. Practice of C programming using Functions and Arrays 3. Implement C programs using Pointers and Structures 4. Implement C programs using Files 5. Development of real time C applications 6. Array implementation of List ADT 7. Array implementation of Stack and Queue ADTs 8. Linked list implementation of List, Stack and Queue ADTs 9. Applications of List, Stack and Queue ADTs 10. 10.Implementation of Binary Trees and operations of Binary Trees 11. Implementation of Binary Search Trees 2. Implementation of searching techniques	7 BATCHS (5 STUDENTS PER BATCH) & 2 CYCLES	
7	EC3361-Electronic Devices and Circuits Laboratory	1. Characteristics of PN Junction Diode and Zener diode. 2. Full Wave Rectifier with Filters. 3. Design of Zener diode	7 BATCHS (5 STUDENTS PER BATCH) & 2 CYCLES	

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		Regulator. 4. Common Emitter input-output Characteristics. 5. MOSFET Drain current and Transfer Characteristics. 6. Frequency response of CE and CS amplifiers. 7. Frequency response of CB and CC amplifiers. 8. Frequency response of Cascode Amplifier 9. CMRR measurement of Differential Amplifier 10. Class A Transformer Coupled Power Amplifier		
8	EC3352-Digital Systems Design Laboratory	1.Design of adders and subtractors & code converters. 2. Design of Multiplexers &Demultiplexers. 3. Design of Encoders and Decoders. 4. Design of Magnitude Comparators 5. Design and implementation of counters using flip-flops 6. Design and implementation of shift registers.	7 BATCHS (5 STUDENTS PER BATCH) & 2 CYCLES	
9	EC3461-Communication Systems Laboratory	1. AM- Modulator and Demodulator 2. FM - Modulator and Demodulator 3. Pre-Emphasis and De-Emphasis. 4. Signal sampling and TDM.	7 BATCHS (5 STUDENTS PER BATCH) & 2 CYCLES	

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		5. Pulse Code Modulation and Demodulation. 6. Pulse Amplitude Modulation and Demodulation. 7. Pulse Position Modulation and Demodulation and Pulse Width Modulation and Demodulation. 8. Digital Modulation – ASK, PSK, FSK. 9. Delta Modulation and Demodulation. 10. Simulation of ASK, FSK, and BPSK Generation and Detection Schemes. 11. Simulation of DPSK, QPSK and QAM Generation and Detection Schemes. 12. Simulation of Linear Block and Cyclic Error Control coding Schemes.		
10	EC3462-Linear Integrated Circuits Laboratory	1. Series and Shunt feedback amplifiers-Frequency response, Input and output impedance 2. RC Phase shift oscillator and Wien Bridge Oscillator 3. Hartley Oscillator and Colpitts Oscillator 4. RC Integrator and Differentiator circuits using Op-Amp 5. Clippers and Clampers 6. Instrumentation amplifier 7. Active low-pass, High pass & Band pass filters	7 BATCHS (5 STUDENTS PER BATCH) & 2 CYCLES	

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		8. PLL Characteristics and its use as frequency multiplier, clock synchronization 9. R-2R ladder type D-A converter using Op-Am		
11	EC3492-Digital Signal Processing Laboratory	1. Generation of elementary Discrete-Time sequences 2. Linear and Circular convolutions 3. Auto correlation and Cross Correlation 4. Frequency Analysis using DFT 5. Design of FIR filters (LPF/HPF/BPF/BSF) and demonstrates the filtering operation 6. Design of Butterworth and Chebyshev IIR filters (LPF/HPF/BPF/BSF) and demonstrate the filtering operations . Study of architecture of Digital Signal Processor 8. Perform MAC operation using various addressing modes 9. Generation of various signals and random noise 10. Design and demonstration of FIR Filter for Low pass, High pass, Band pass and Band stop filtering 11. Design and demonstration of Butter worth and Chebyshev IIR	7 BATCHS (5 STUDENTS PER BATCH) & 2 CYCLES	

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		Filters for Low pass, High pass, Band pass and Band stop filtering 12. Implement an Up-sampling and Down-sampling operation in DSP Processor		
12	EC8562-Digital Signal Processing Laboratory	**LIST OF EXPERIMENTS: MATLAB / EQUIVALENT SOFTWARE PACKAGE** 1.Generation of elementary Discrete-Time sequences 2.Linear and Circular convolutions 3.Autocorrelation and Cross correlation 4.Frequency analysis using DFT` 5. Design of FIR filters (LPF/HPF/BPF/BSF) and demonstrates the filtering operation 6.Design of Butterworth andChebyshev IIR filters (LPF/HPF/BPF/BSF) and demonstrate the filtering operations **DSP PROCESSOR BASED IMPLEMENTATION** 1. Study of architecture of Digital Signal Processor 2. Perform MAC operation using various addressing modes 3. Generation of various signals and random noise 4. Design and demonstration of FIR Filter for Low pass, High pass, Band pass and Band stop filtering 5. Design and demonstration of Butter worth and Chebyshev IIR Filters for Low pass, High pass, Band pass and Band stop filtering	7 BATCHS (5 STUDENTS PER BATCH) & 2 CYCLES	

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		6. Implement an Up-sampling and Down-sampling operation in DSP Processor		
13	EC8561-Communication Systems Laboratory	1. Signal Sampling and reconstruction 2.Time Division Multiplexing 3.AM Modulator and Demodulator 4.FM Modulator and Demodulator 5. Pulse Code Modulation and Demodulation 6.Delta Modulation and Demodulation 7.Line coding schemes 8.Simulation of ASK, FSK, and BPSK generation schemes 9.Simulation of Linear Block and Cyclic error control coding schemes 10.Simulation of signal constellations of BPSK, QPSK and QAM 11.Simulation ofASK,FSK,BPSK Schemes 12.Simulation of DPSK, QPSK and QAM generation schemes 13.Simulation of Convolutional coding scheme 14.Communication link simulation	7 BATCHS (5 STUDENTS PER BATCH) & 2 CYCLES	
14	EC8563-Communication Networks Laboratory	1.Implementation of Error Detection / Error Correction Techniques 2. Implementation of Stop and Wait Protocol and sliding window 3.Implementation and study of Goback-N and selective repeat protocols 4.Implementation of High Level Data Link Control	7 BATCHS (5 STUDENTS PER BATCH) & 2 CYCLES	

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		5.Implementation of IP Commands such as ping, Traceroute, nslookup 6.Implementation of IP address configuration 7.To create scenario and study the performance of network with CSMA / CA protocol and compare with CSMA/CD protocols 8.Network Topology - Star, Bus, Ring 9.Implementation of distance vector routing algorithm 10.Implementation of Link state routing algorithm 11.Study of Network simulator (NS) and simulation of Congestion Control Algorithms using NS 12.Implementation of Encryption and Decryption Algorithms using any programming language.		
15	EC8681- Microprocessors and Microcontrollers Laboratory	**8086 Programs using kits and MASM** 1. Basic arithmetic and Logical operations 2. Move a data block without overlap 3. Code conversion, decimal arithmetic and Matrix operations. 4. Floating point operations, string manipulations, sorting and searching 5. Password checking, Print RAM size and system date 6. Counters and Time Delay **Peripherals and Interfacing Experiments** 7. Traffic light controller 8. Stepper motor control 9. Digital clock 10. Key board and Display 11. Printer status 12. Serial interface and Parallel interface	7 BATCHS (5 STUDENTS PER BATCH) & 2 CYCLES	

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		13. A/D and D/A interface and Waveform Generation **8051 Experiments using kits and MASM** 14. Basic arithmetic and Logical operations 15. Square and Cube program, Find 2's complement of a number 16. Unpacked BCD to ASCII		
16	EC8661- VLSI Design Laboratory	**Part I: Digital System Design using HDL & FPGA** 1.Design an Adder (Min 8 Bit) using HDL. Simulate it using Xilinx/Altera Software and implement by Xilinx/Altera FPGA 2. Design a Multiplier (4 Bit Min) using HDL. Simulate it using Xilinx/Altera Software and implement by Xilinx/Altera FPGA 3.Design an ALU using HDL. Simulate it using Xilinx/Altera Software and implement by Xilinx/Altera FPGA 4.Design a Universal Shift Register using HDL. Simulate it using Xilinx/Altera Software and implement by Xilinx/Altera FPGA 5.Design Finite State Machine (Moore/Mealy) using HDL. Simulate it using Xilinx/Altera Software and implement by Xilinx/Altera FPGA 6.Design Memories using HDL. Simulate it using Xilinx/Altera Software and implement by Xilinx/Altera FPGA **Part-II Digital Circuit Design** 7.Design and simulate a	7 BATCHS (5 STUDENTS PER BATCH) & 2 CYCLES	

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		CMOS inverter using digital flow 8.Design and simulate a CMOS Basic Gates & Flip-Flops 9.Design and simulate a 4-bit s Manual/Automatic Layout experiments 7 to 9 10.Analyze the power, area and timing for experiments 7 to 9 by performing Pre Layout and Post Layout Simulations **Part-III Analog Circuit Design** 11.Design and Simulate a CMOS Inverting Amplifier 12Design and Simulate basic Common Source, Common Gate and Common Drain Amplifiers 13.Analyze the input impedance, output impedance, gain and bandwidth for experiments 10 and 11 by performing Schematic Simulations 14.Design and simulate simple 5 transistor differential amplifier. Analyze Gain, 15. Bandwidth and CMRR by performing Schematic Simulations.		
17	EC8711- Embedded Laboratory	1.Study of ARM evaluation system 2.Interfacing ADC and DAC 3 .Interfacing LED and PWM. 4.Interfacing real time clock and serial port 5 Interfacing keyboard and LCD. 6.Interfacing EPROM and interrupt 7 .Mailbox. 8.Interrupt performance characteristics of ARM and FPGA. 9.Flashing of LEDS	7 BATCHS (5 STUDENTS PER BATCH) & 2 CYCLES	

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		10 .Interfacing stepper motor and temperature sensor. 11. Implementing zigbeeprotocol with ARM		
18	EC8761-Advanced Communication Laboratory	**LIST OF OPTICAL EXPERIMENTS** 1.Measurement of connector, bending and fiber attenuation losses 2.Numerical Aperture and Mode Characteristics of Fibers. 3.DC Characteristics of LED and PIN Photo diode 4. Fiber optic Analog and Digital Link Characterization - frequency response(analog), eye diagram and BER (digital) **LIST OF WIRELESS COMMUNICATION EXPERIMENTS** 1.Wireless Channel Simulation including fading and Doppler effects 2. Simulation of Channel Estimation, Synchronization & Equalization techniques 3.Analysing Impact of Pulse Shaping and Matched Filtering using Software Defined Radios 4.OFDM Signal Transmission and Reception using Software Defined Radios **LIST OF MICROWAVE EXPERIMENTS** 1. VSWR and Impedance 2.Measurement and Impedance Matching 3.Characterization of Directional Couplers, Isolators, Circulators Gunn Diode Characteristics 4.Microwave IC – Filter Characteristics	7 BATCHS (5 STUDENTS PER BATCH) & 2 CYCLES	

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M.E –APPLIED ELECTRONICS

S.N0	SEMESTER	COURSE CODE	SUBJECT CODE	SUBJECT NAME
1	I	C108	AP4111	ELECTRONICS SYSTEM DESIGN LABORATORY
2		C109	AP4112	SIGNAL PROCESSING LABORATORY
3	II	C205	AP4211	VLSI DESIGN LABORATORY
4		C206	AP4072	PCB DESIGN LABORATORY

S.No	LAB NAME	LIST OF EXPERIMENTS	BATCH SIZE (STUDENTS)	REMARKS
1	AP4111 - ELECTRONICS SYSTEM DESIGN LABORATORY	1. Design of a 4-20 mA transmitter for a bridge type transducer. Design the Instrumentation amplifier with the bridge type transducer (Thermistor or any resistance variation transducers) and convert the amplified voltage from the instrumentation amplifier to 4 – 20 mA current using op-amp. Plot the variation of the temperature Vs output current. 2. Design of AC/DC voltage regulator using SCR Design a phase controlled voltage regulator using full wave rectifier and SCR, vary the conduction angle and plot the output voltage. 3. PCB layout design using CAD	1 BATCHS (2 STUDENTS PER BATCH) & 2 CYCLES	

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		Drawing the schematic of simple electronic circuit and design of PCB layout using CAD 4. HDL based design entry and simulation of Parameterizable cores of Counters, Shift registers, State machines, 8-bit Parallel adders and 8 –Bit multipliers. 5. HDL based design entry and simulation of Parameterizable cores on the simple Distributed Arithmetic system. Test vector generation and timing analysis. 6. HDL based design entry and simulation of Parameterizable cores on memory design and 4 – bit ALU. Synthesis, P&R and post P&R simulation, Critical paths and static timing analysis results to be identified. FPGA real time programming and I/O interfacing. 7. Interfacing with Memory modules in FPGA Boards. Verifying design functionality by probing internal signals. 8. Realization of Discrete Fourier transform/Fast Fourier Transform algorithm in HDL and observing the spectrum in simulation. 9. Invoke PLL module and demonstrate the use of the PLL for clock generation in FPGAs. Verify design functionality implemented in FPGA by capturing the signal in		

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		Oscilloscope		
2	AP4112-SIGNAL PROCESSING LABORATORY	1. Design of Adaptive channel equalizer 2. Realization of sub band filter using linear convolution 3. Realization of STFT using FFT 4. Demonstration of Bayes technique 5.Demonstration of Min-max technique 6. Realization of FIR Wiener filter 7. Generation of Multivariate Gaussian generated data with desired mean vector and the required co-variance matrix. 8. Design and Realization of the adaptive filter using LMS algorithm (solved using steepestdescent algorithm) 9. Representation of the 2D image signal as the linear combinations of PCA (Eigen faces) 10. Image compression using Discrete cosine transformation (DCT). 11. Multiple-input Multiple output (MIMO) 12. Speech recognition using Support Vector Machine (SVM) 13. LMS filtering implementation using TMS320C6x processor 14. Face detection and tracking in video using OpenCV	1 BATCHS (2 STUDENTS PER BATCH) & 2 CYCLES	
3	AP4211- VLSI DESIGN LABORATORY	1. Synthesize and implement Combinational and Sequential Circuits in VERILOG / VHDL	1 BATCHS (3 STUDENTS PER BATCH) & 2 CYCLES	

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		2. Synthesize and implement MAC unit and GCD unit in Verilog /VHDL 3. Implementation of sampling of input signal and display in FPGA Synthesize and implement FIR filter and IIR filter Verilog /VHDL 4. Synthesize and implement 8 bit general purpose processor in Verilog/VHDL 5. Synthesize and implement UART and USART 6. Simulation and Analysis of CMOS combinational and sequential logic circuits using CAD tool		
4	AP4072-PCB DESIGN	.1. Using any Electronic design automation (EDA) software, Practice following PCB Design steps (Open source EDA Tool KiCad Preferable or equivalent) Example circuit: Basic RC Circuit Schematic Design: Familiarization of the Schematic Editor, Schematic creation, Annotation, Netlist generation Layout Design: Familiarization of Footprint Editor, Mapping of components, Creation of PCB layout Schematic Create new schematic components Create new component footprints. 2. Fabricate single-sided PCB, mount the components and assemble in a cabinet for any one of the circuits mentioned below. 3. Regulator circuit using 7805. 4. Astable or	1 BATCHS (3 STUDENTS PER BATCH) & 2 CYCLES	

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		Monostablemultivibrator using IC555 5. RC Phase-shift or Wein-bridge Oscillator using transistor. 6. 4 bit binary /MOD N counter using D-Flip flops. 7. Design a 8051 Development board having Power section consisting of IC7805, capacitor, resistor, headers, LED,Serial communication section consisting of MAX 232, Capacitors,DB9 connector, Jumper, LEDs, Reset & Input/ output sections consisting of89C51 Microcontroller, Electrolytic Capacitor, Resistor, Jumper, Crystal Oscillator, Capacitors. 8. Touch plate switches – transistorized or 555 based 9. Doorbell/cordless bell 10. Clapping switch and IR switch 11. Blinkers 12. Cell charger, battery charger, mobile charger 13. Fire/smoke/intruder alarm 14. Liquid level controller 15. Audio amplifiers		

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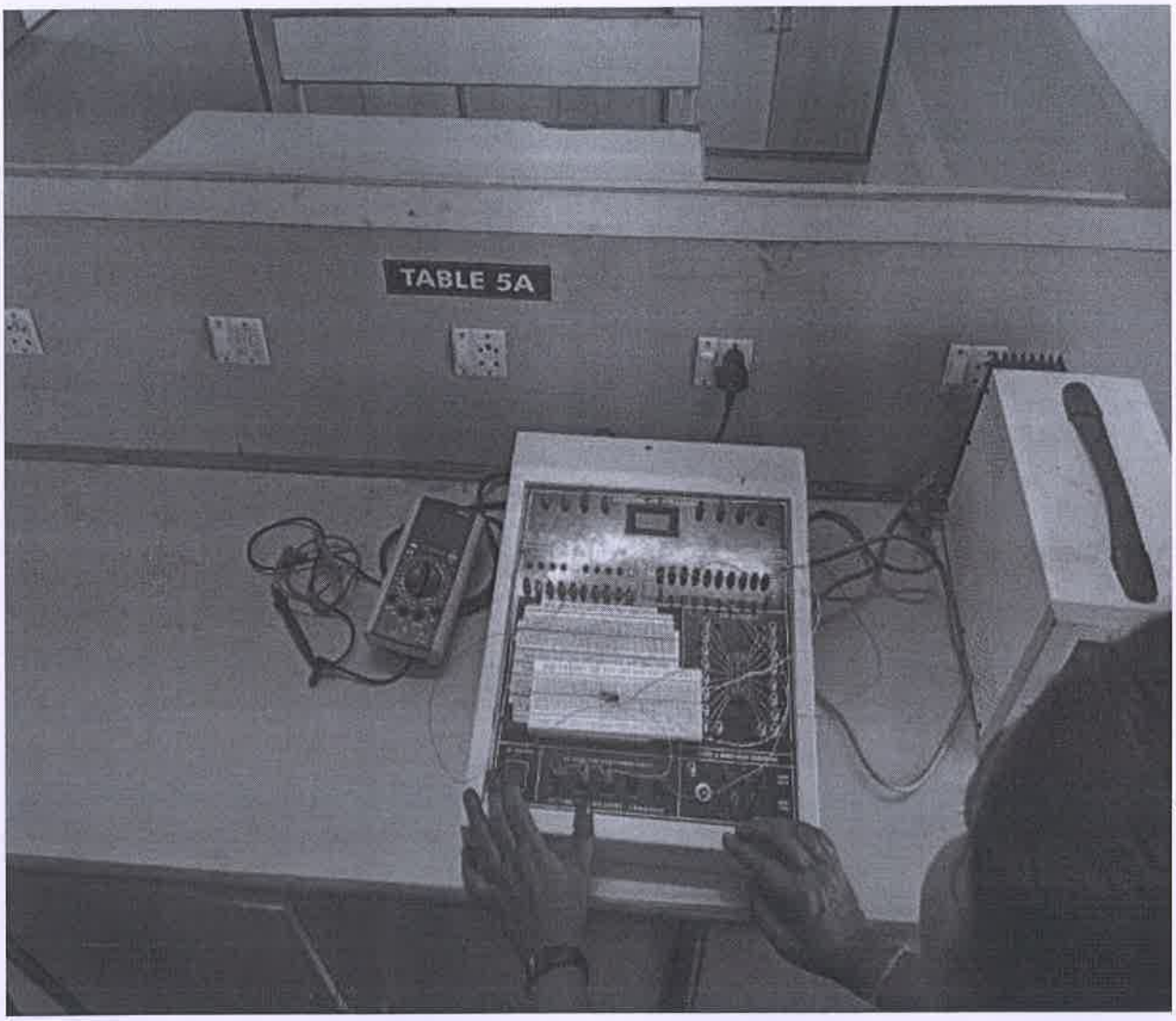
PHOTO GALLERY



DIGITAL SYSTEMS DESIGN LABORATORY

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LINEAR INTEGRATED CIRCUITS LABORATORY

COMMUNICATION SYSTEMS LABORATORY

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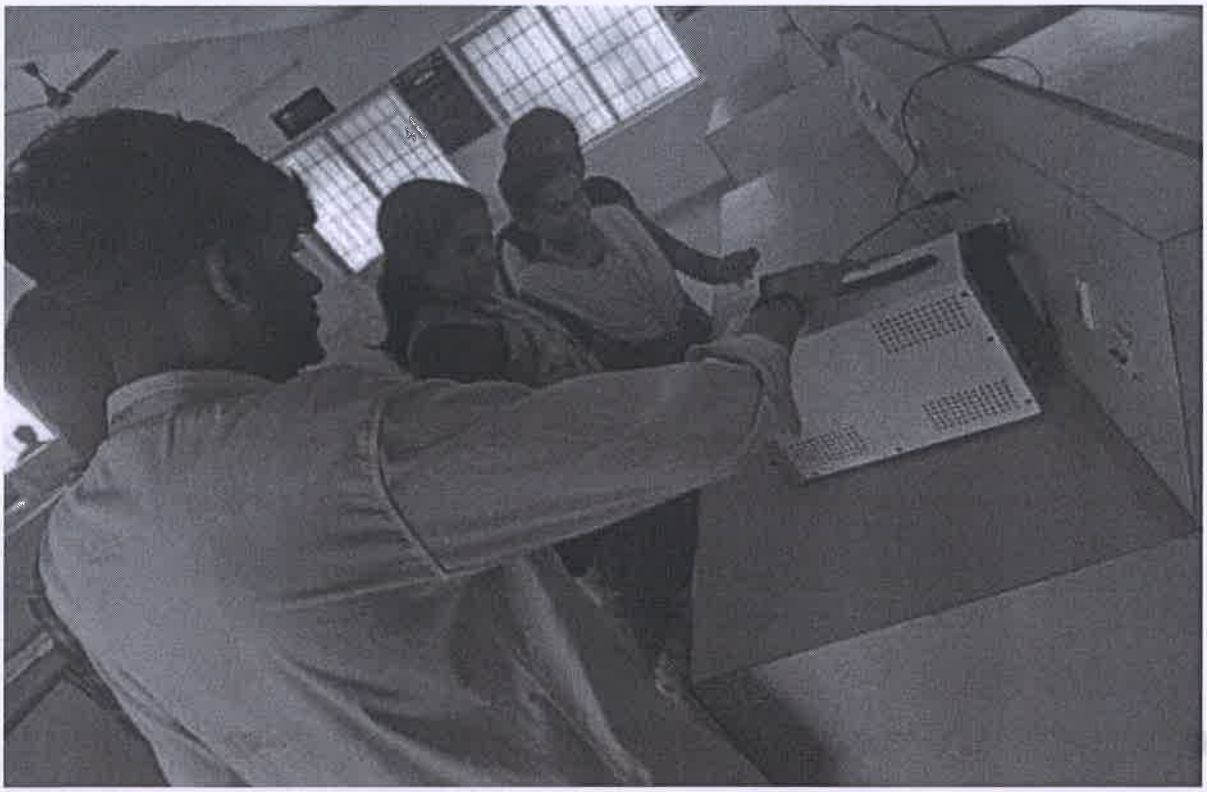
GOBI (Tk), ERODE (Dt).



VLSI DESIGN LABORATORY

CIRCUIT ANALYSIS LABORATORY

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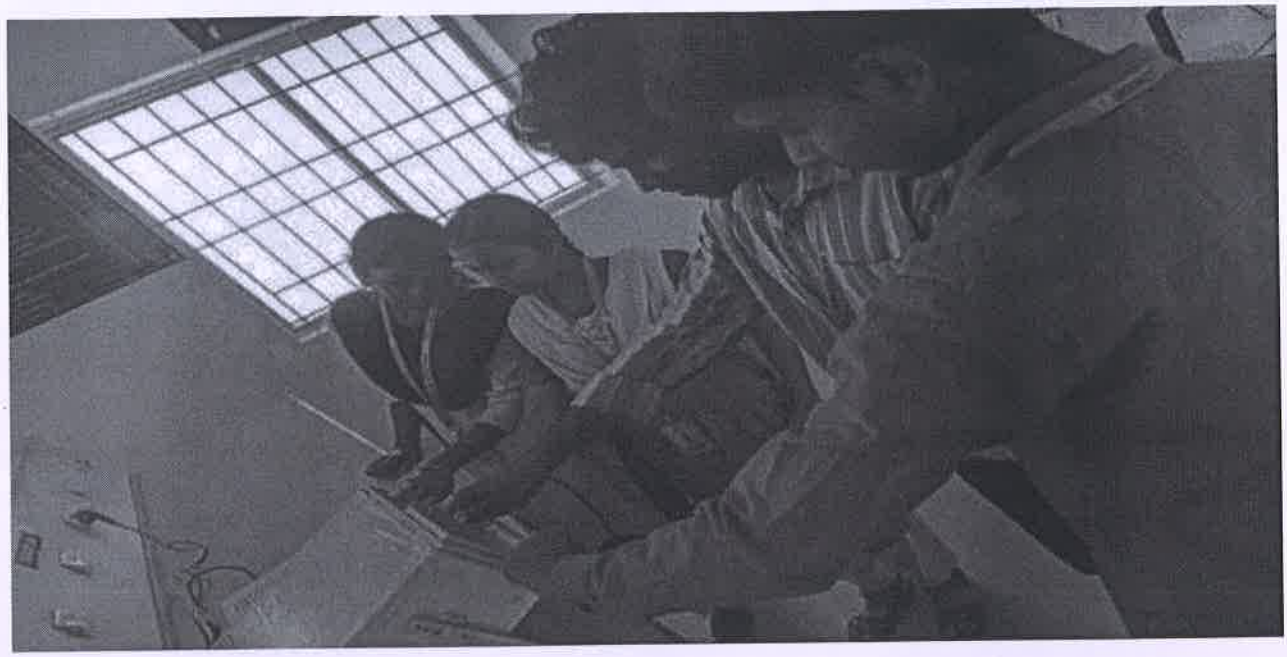
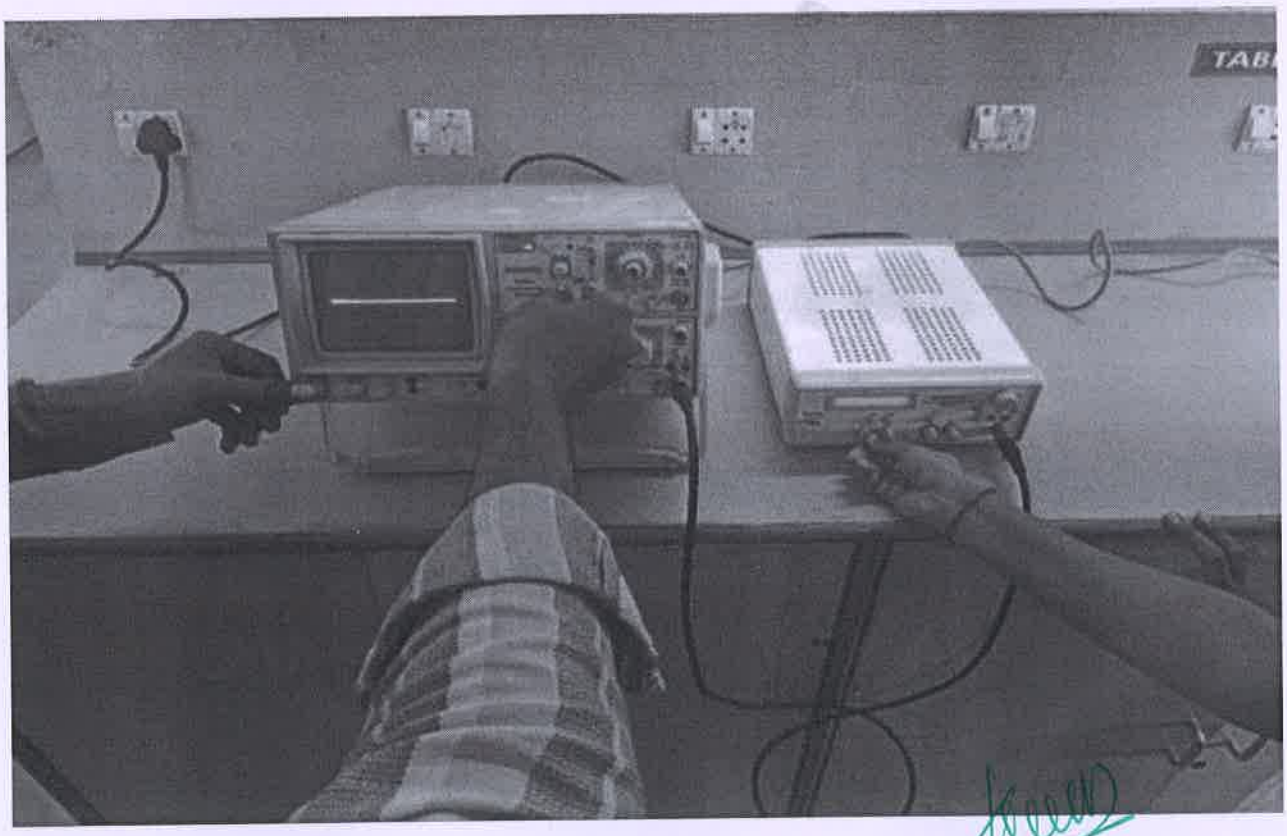


EMBEDDED LABORATORY



ELECTRONICS DEVICES AND CIRCUITS LABORATORY

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2.2 CLUB ACTIVITIES

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2.2 CLUB ACTIVITES

2.2.1 FINE ARTS CLUB

Event Organized By	Fine Arts Club Members of JKKMCT
Name of the Convenor	DR.N.SATHYABALAJI MISTE.,Ph.D.,HOD/CSE&IT
Name of the Members	Mrs.M.C. SAVITHRI,AP/CSE, Mrs.D. NIVETHINI,AP/IT
Name of the Programme	FINE ARTS
Venue	Seminar Hall
Chief Guest	Mr.J.NIRMAL KUMAR B.Sc.,Arts and Craft InstructorNIVETHA INSTITUTE OF ARTS AND CRAFTS , Chennai.,
Date	27.08.2022

- Fine Arts Club of JKKMCT conducted a programme on " FINE ARTS " on 27th Aug 2022.
- The programme was organized by Fine Arts Club on 27.08.2022 from 10.00 am to 4.00 pm, the chief guest Mr.J.NIRMAL KUMAR, Arts and Craft Instructor, Chennai. He was sharing his Skill Enhancement for Students to embrace the canvas of endless possibilities.
- Students from various branches of Engineering enrolled themselves and actively participated in the programme.
- Fine Arts Club witnessed remarkable growth, both in terms of individual artistic development and community impact. The dedication and passion of its members have set the stage for continued success and innovation in the coming years.

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PHOTO GALLERY

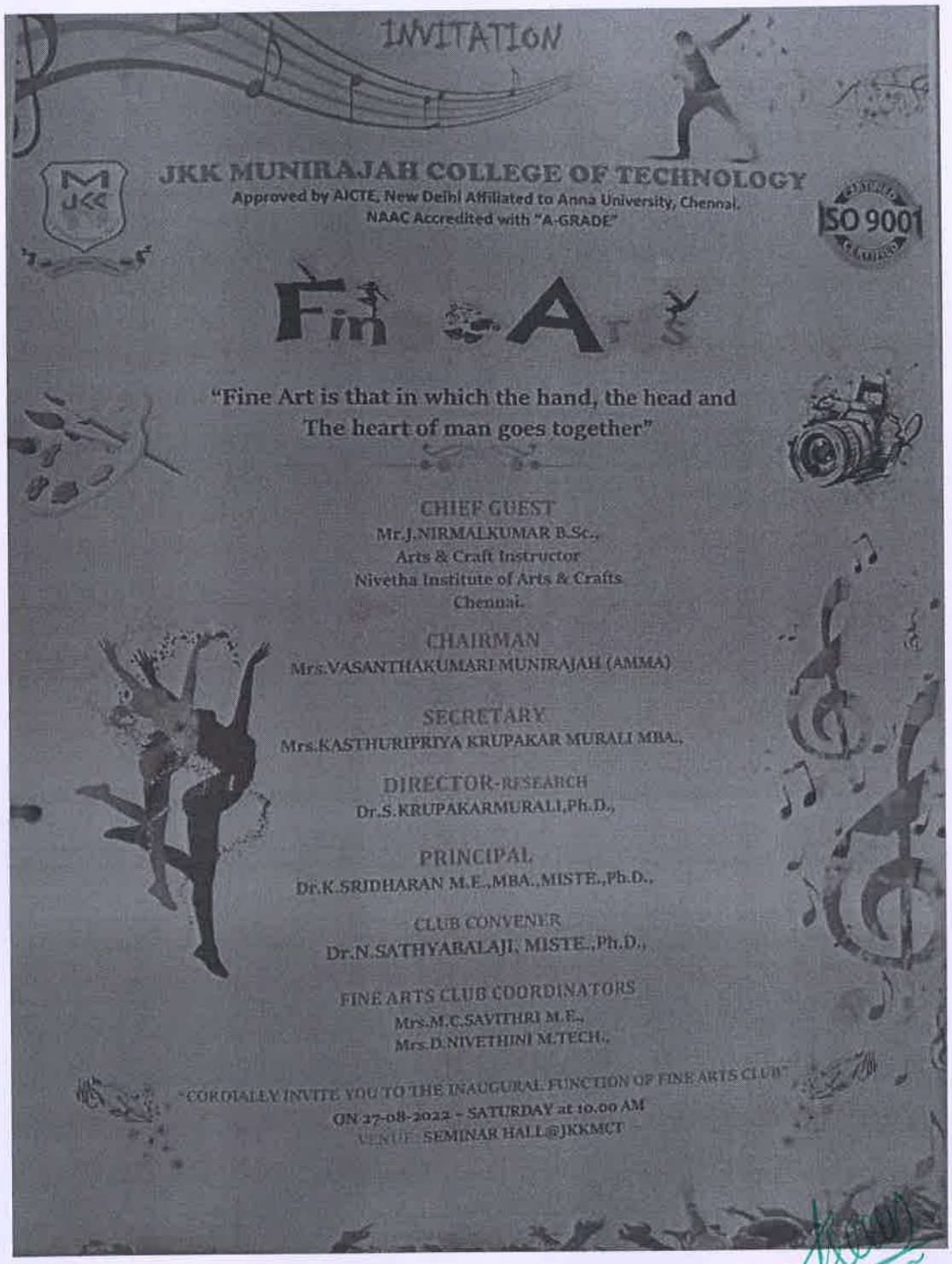

PHOTO OF INVITATION

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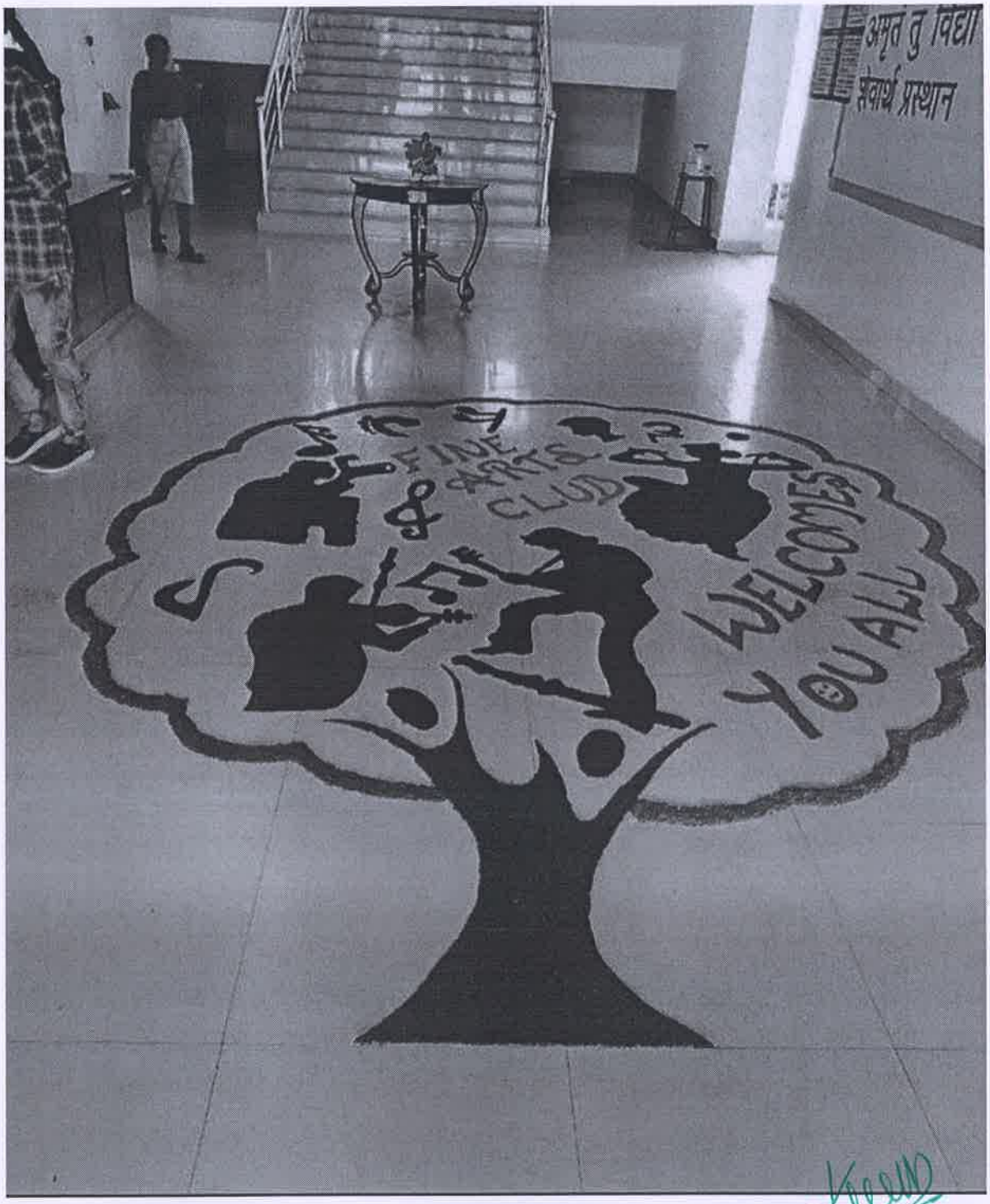

PHOTO OF RANGOLI

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PHOTO OF EVENTS TOOK PLACE AT SEMINAR HALL

PHOTO OF FRUIT CARVING

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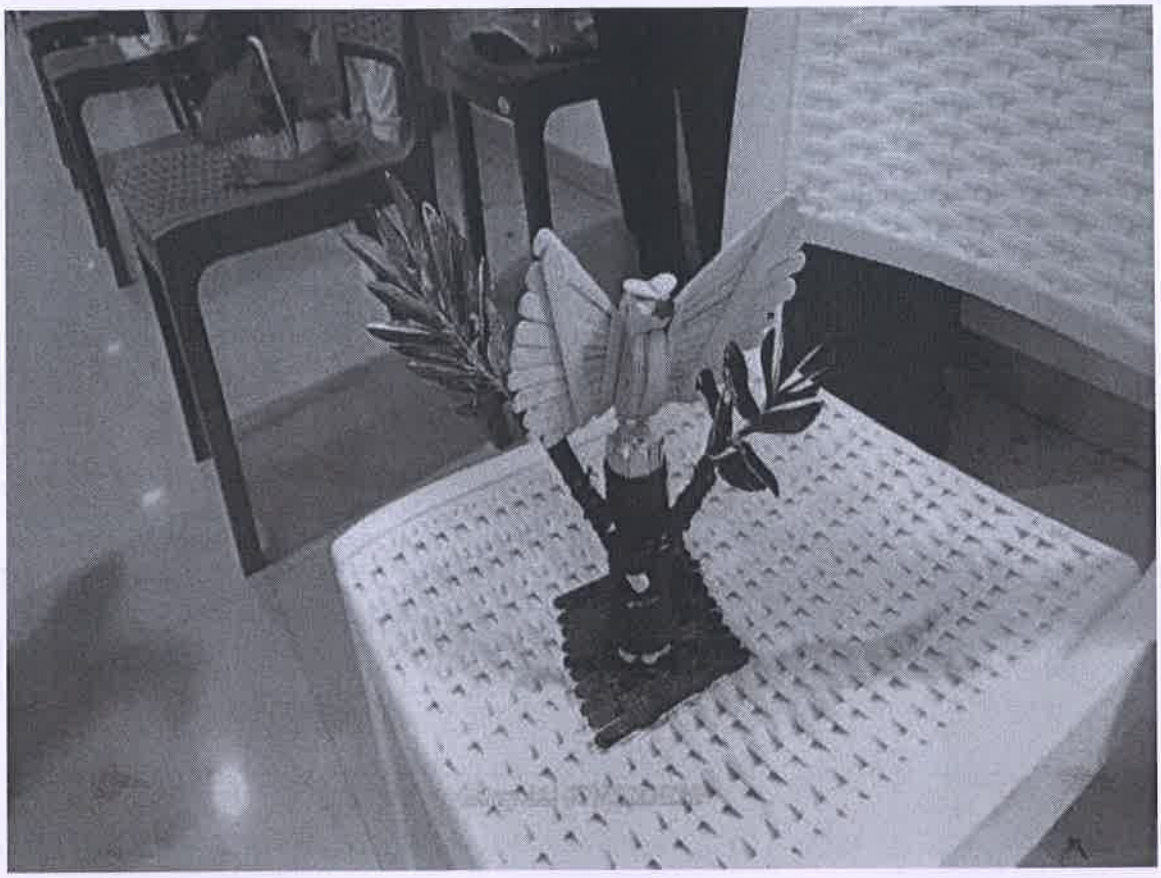

PHOTO OF WASTE PAPER CRAFT ACTIVITY

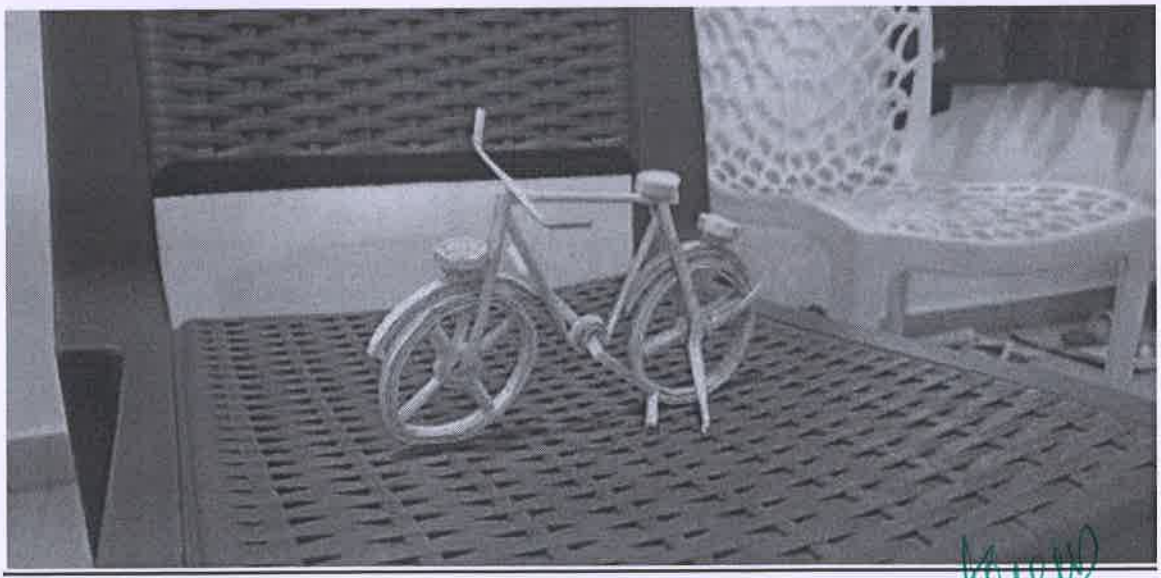

PHOTO OF WASTE PAPER CRAFT ACTIVITY

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WOMEN'S EMPOWERMENT CELL

1.RURAL WOMEN'S RIGHTS & ALCOHOL CESSATION AWARENESS PROGRAM

Event Organized By	Women's Empowerment Cell Members of JKKMCT
Name of the Convenor	MRS.V.MOHANAPRIYA,HOD/CIVIL,JKKMCT
Name of the Members	MS.V.SATHIYAPRIYAI,AP/CIVIL MRS.D. NIVETHINI,AP/IT MRS.U.SASIKALA,AP/ECE MRS.S.POORNIMA.AP/S&H MRS.M.C.SAVITHRI,AP/MCA
Name of the Programme	RURAL WOMEN'S RIGHTS & ALCOHOL CESSATION AWARENESS PROGRAM
Venue	RURAL PANCHAYAT OFFICE, T.N.PALAYAM
Chief Guest	MRS.SAROJA, RURAL PANCHAYAT OFFICER
Date	13.08.2022

- The Programme was Organized by Women's Empowerment cell of JKKMCT. The overall programme covers the concept of women's rights towards rural community. The speech delivered by the MRS.SAROJA, RURAL PANCHAYAT OFFICER and head of women empowerment initiatives focuses on the importance of recognizing and championing the rights of rural women. She highlights the challenges they face, including limited access to education, healthcare, and economic opportunities, and emphasizes the necessity of empowering them for sustainable development.

- The speech calls for dismantling barriers, amplifying their voices, and creating an enabling environment for rural women to thrive. And further she extendes her speech in the topic of drugs as Drugs destroy lives, families, and communities. Together, we can break the cycle of addiction and build a healthier, drug-free society.

- The students of JKKMCT **potrayed a drama** regarding drug addiction, its effects, treatment, upliftment & upgradation via selfrealization & selfemployment. Drug

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addiction ravages the lives of housewives, fracturing families and eroding stability. It brings emotional turmoil, financial strain, and neglect of responsibilities. Let's offer support, understanding, and resources to break the cycle and restore hope.

- Rural women can pursue self-employment by starting small-scale ventures like organic farming, handicrafts, or rural tourism. The personalities stated that, to avoid drug addiction, they must prioritize community support, engage in skill-building activities, foster healthy relationships, and seek counseling if needed.

- Empowering women through entrepreneurship and a supportive environment can provide alternatives to substance abuse, fostering resilience and well-being. The program concludes with a commitment to building a future where every rural woman can live with dignity, equality, and opportunity.

PHOTO GALLERY

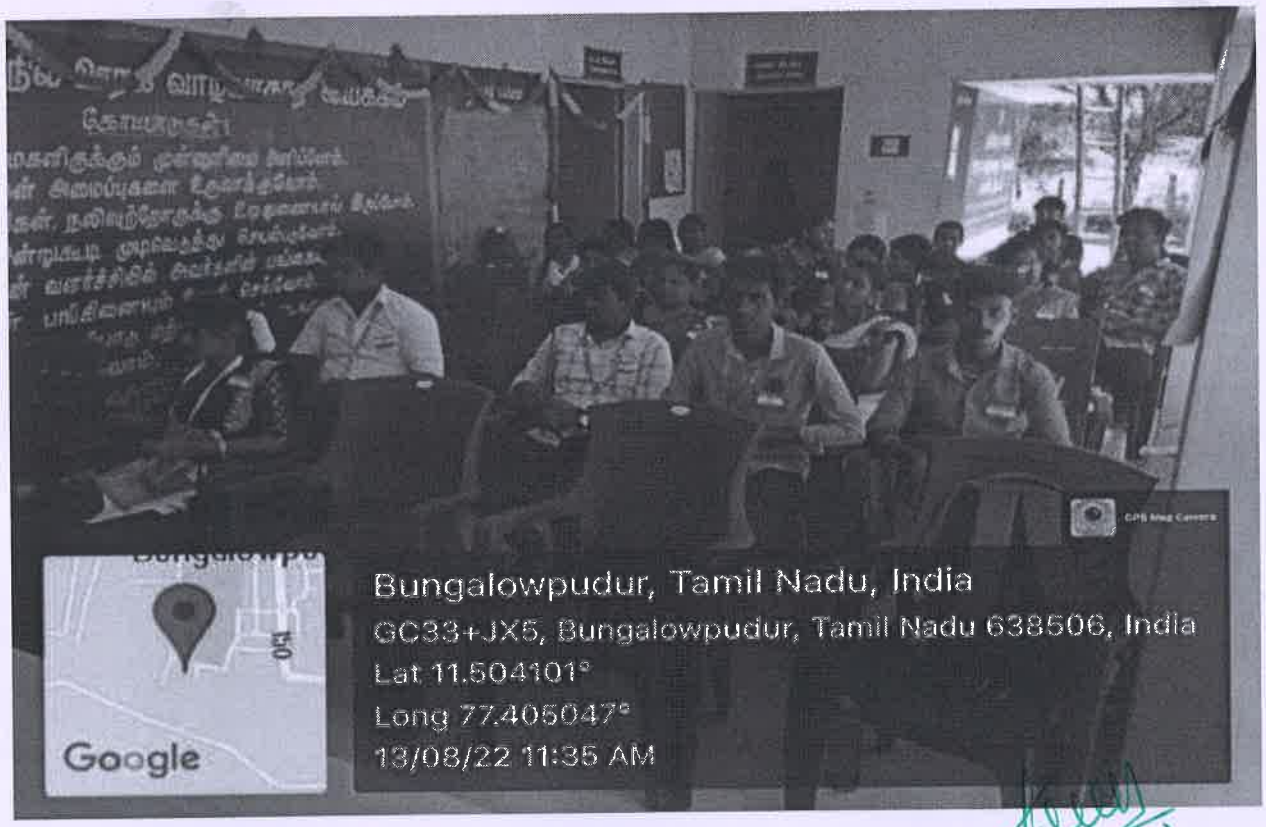

PHOTO OF THE EVENT

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PHOTO OF SPEECH GIVEN BY WEC I/C OF JKKMCT

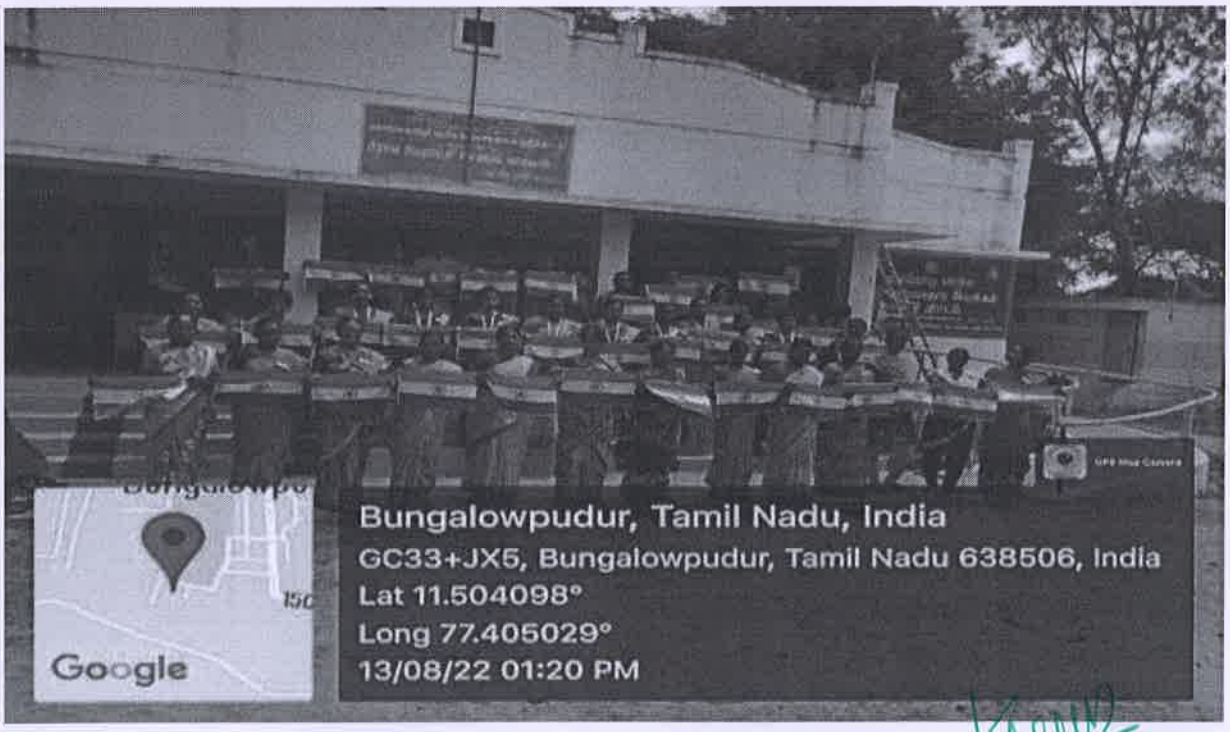

PHOTO OF RURAL WOMEN'S RIGHTS & ALCOHOL CESSATION GATHERING

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WOMEN'S EMPOWERMENT CELL

2.INTERNATIONAL WOMEN'S DAY CELEBRATION

Event Organized By	Women's Empowerment Cell of JKKMCT
Name of the Convenor	MRS.V.MOHANAPRIYA,HOD/CIVIL,JKKMCT
Name of the Members	MS.V.SATHIYAPRIYAI,AP/CIVIL MRS.D. NIVETHINI,AP/IT MRS.U.SASIKALA,AP/ECE MRS.S.POORNIMA.AP/S&H MRS.M.C.SAVITHRI,AP/MCA
Name of the Programme	INTERNATIONAL WOMEN'S DAY CELEBRATION
Venue	JKKMCT SEMINAR HALL
Chief Guest	Mrs.R.NALINA M.A.,B.ED., LLB.,M.L.,Advocate Mrs.V.Vijaya,B.Lit.,
Date	08.03.2023

- The speech titled "Digit ALL: Innovation and Technology for Gender Equality" highlighted the crucial role of digital innovation and technology in advancing gender equality.
- It emphasized how technological advancements have the potential to break down barriers, empower women, and create opportunities for their socio-economic advancement.
- The speaker discussed various initiatives and programs aimed at leveraging technology to address gender disparities, such as promoting digital literacy, providing access to online resources, and supporting women entrepreneurs in the digital space.
- Overall, the speech underscored the importance of harnessing the power of innovation and technology to achieve greater gender equality in our society.
- The theme for the celebration of IWD in India is ''Women of Tomorrow". It aimed to make women successful in all fields without discriminating.

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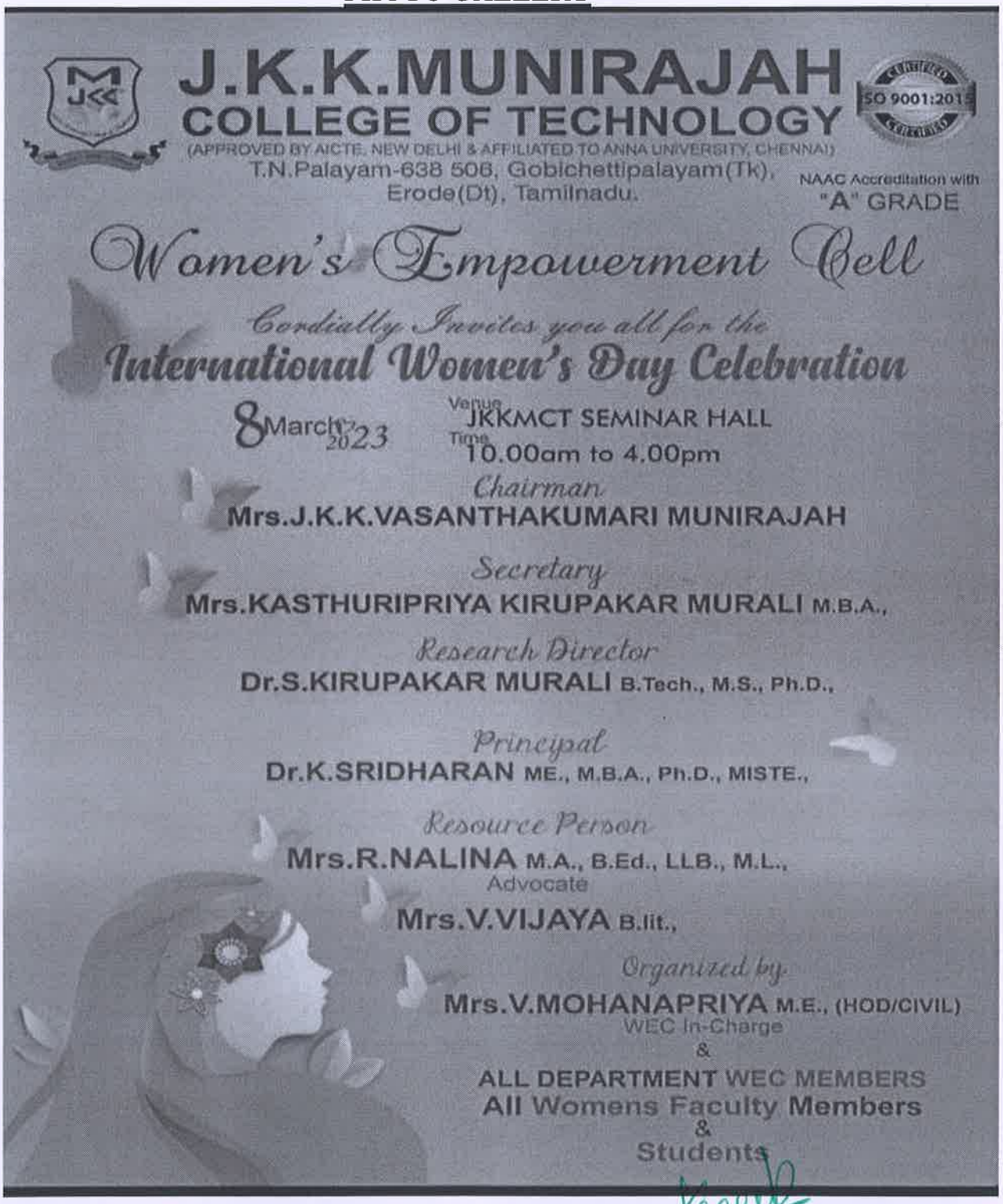

INVITATION

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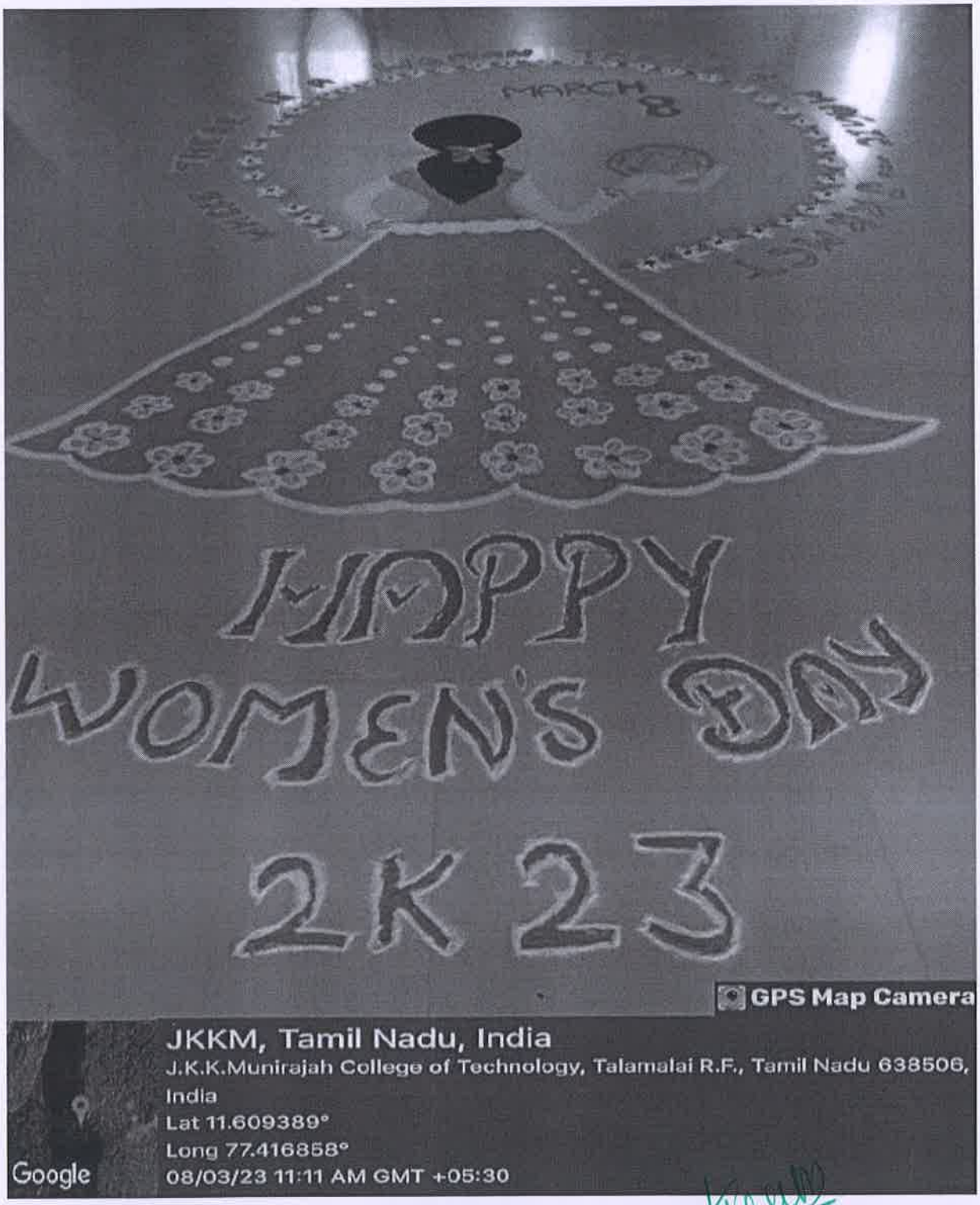

RANGOLI OF THE EVENT

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PHOTO OF LIGHTENING OF LAMP

PHOTO OF HONOURING OF OUR SECRETARY MADAM WITH GIFT & SHAWL

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PHOTO OF MARCH '8'2023 WOMEN'S DAY CELEBRATION AT JKKMCT BY CUTTTING THE CAKE BY OUR HONOURABLE SECRETARY MADAM & OUR RESPECTED CHIEF GUEST

PHOTO OF THE GIRL STUDENTS AND FACULTIESOF THE EVENT

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WOMEN'S EMPOWERMENT CELL

3.FUNDAMENTALS OF INFORMATION TECHNOLOGY & IMPACTS OF CLIMATE CHANGE

Event Organized By	Women's Empowerment Cell & ECE department (JKKM FM) of JKKMCT
Name of the Convenor	MR.V.P.MURUGESAN,HOD/ECE,JKKMCT & MRS.V.MOHANAPRIYA,HOD/CIVIL,JKKMCT
Name of the Members	MS.V.SATHIYAPRIYAI,AP/CIVIL MRS.U.SASIKALA,AP/ECE
Name of the Programme	FUNDAMENTALS OF INFORMATION TECHNOLOGY & IMPACTS OF CLIMATE CHANGE
Venue	JKKMCT SEMINAR HALL
Chief Guest	Mr.M.BALAMURUGAN, FACTSALA –INDIAMEDIA LITERACY TRAINER
Date	25.04.2023

- The Programme was Organized by Women's Empowerment cell at JKKMCT Seminar Hall on 25.04.23 from 2.00pm to 4.00pm .Mrs.V.Mohanapriya M.E HOD/CIVIL, Women's Empowerment cell I/C,was spoke about Women's Empowerment cell and its activities.
- She spoke that WEC aims to empower girl students, enhance their understanding of issues related to women and to make the college campus a safe place for girls.
- Then the our resource person Mr.M.Balamurugan were delivered a speech for the girls students to gave awareness of fake messages and fake id's on social media.
- They were speaking about the future social media problems and how to relived.It was Very useful for students.

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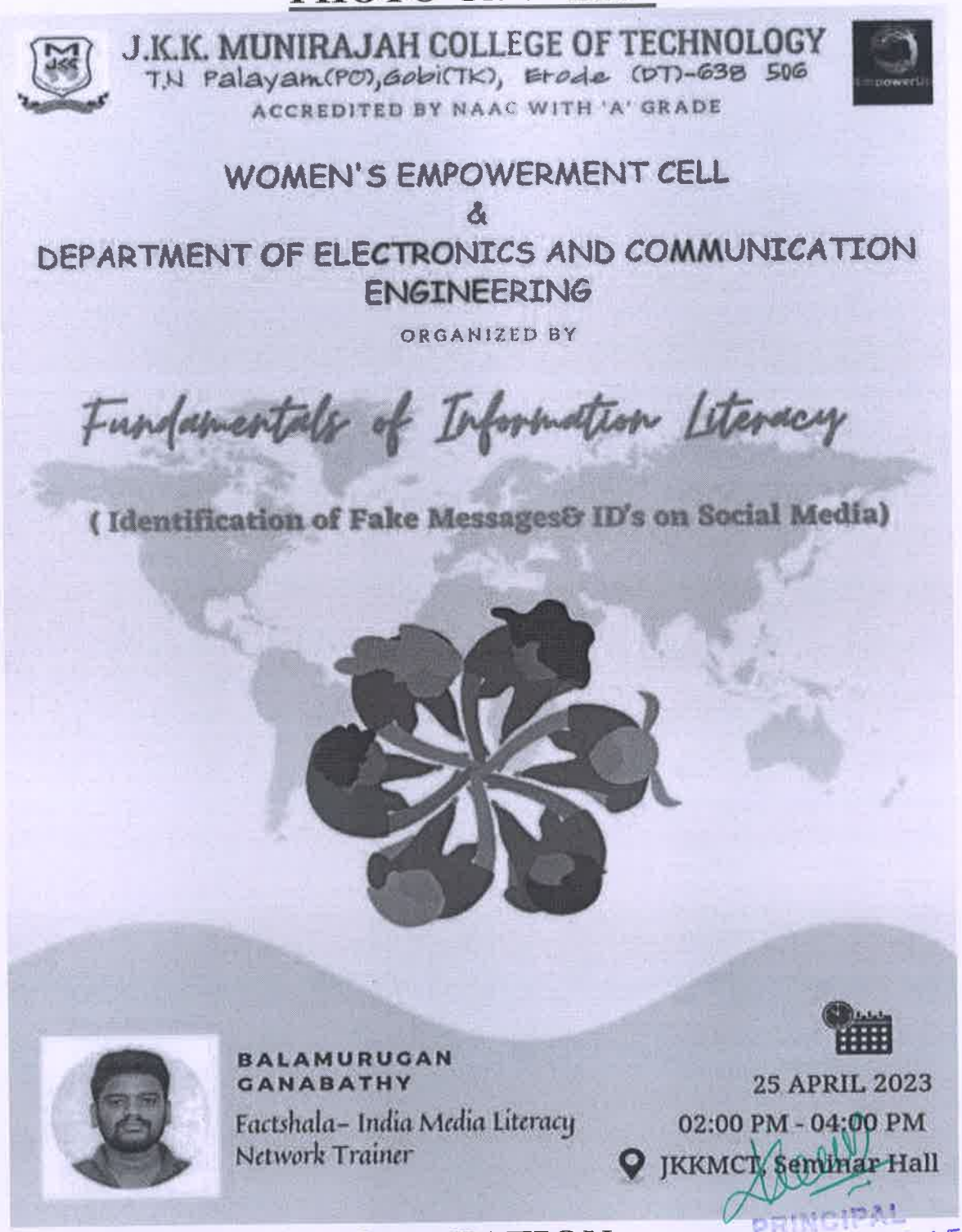

INVITATION

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POSTER OF THE EVENT

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PHOTO OF THE EVENT

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GOBI (Tk), ERODE (Dt).

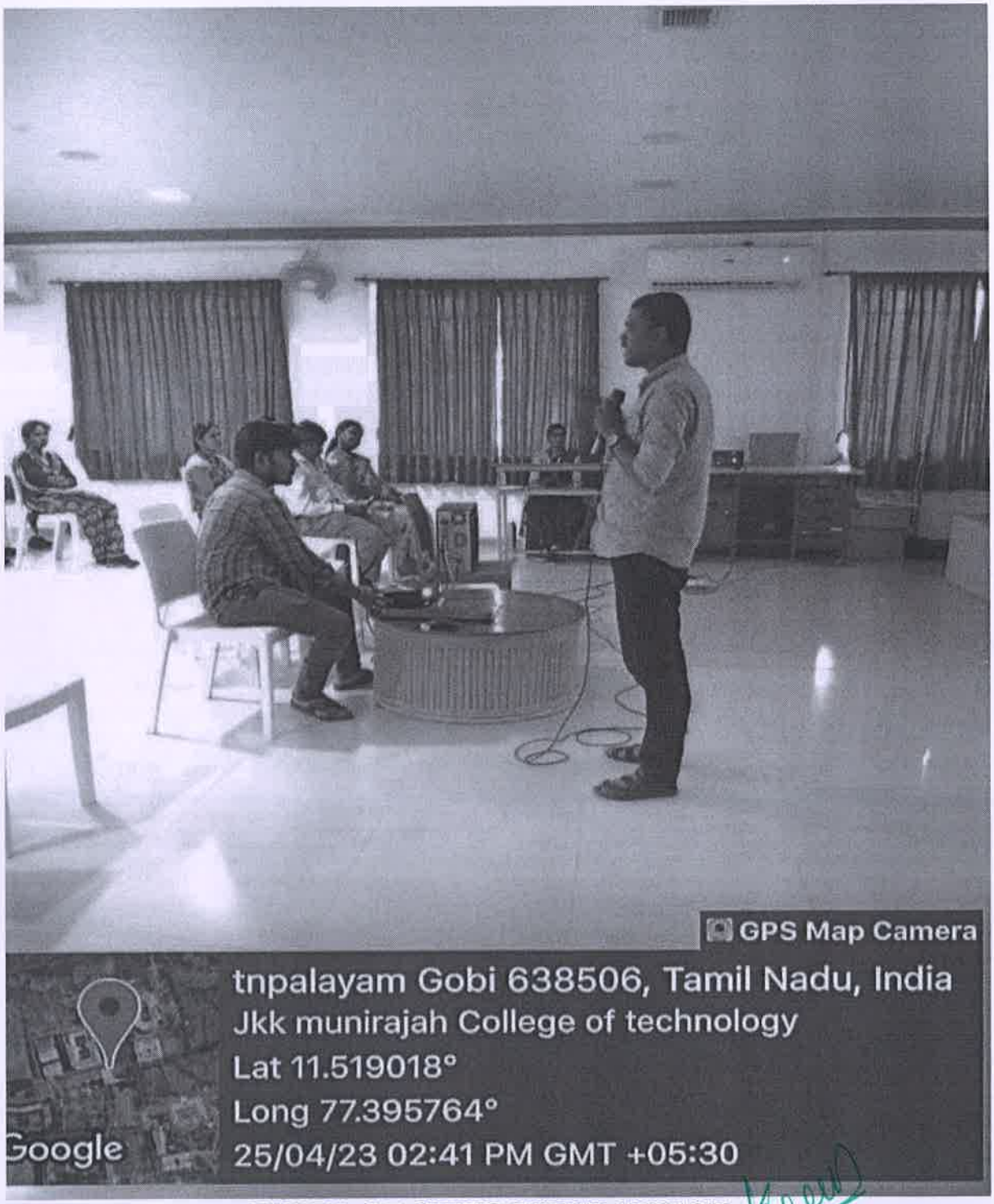

PHOTO OF CHIEF GUEST SPEECH

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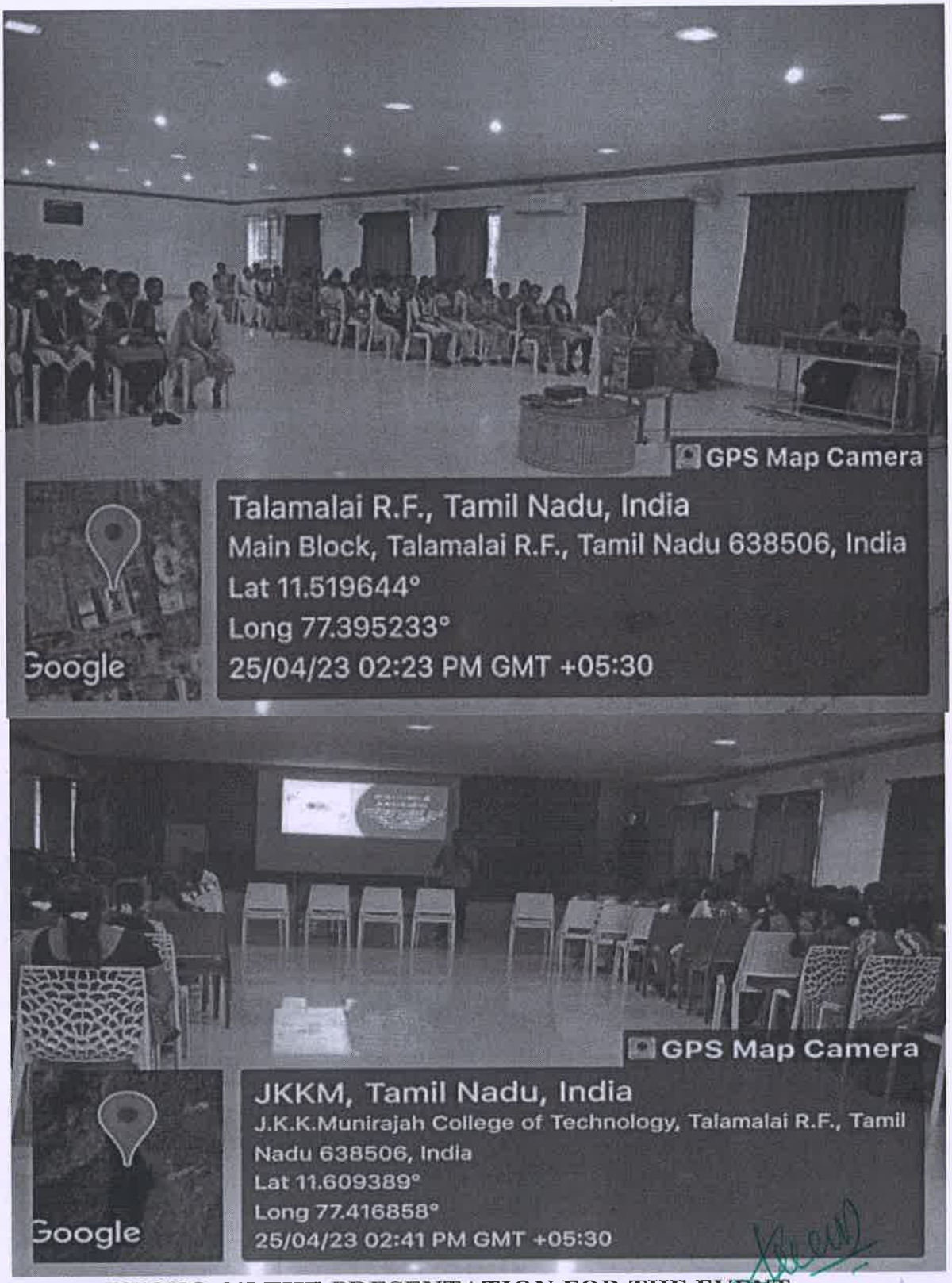

PHOTO OF THE PRESENTATION FOR THE EVENT

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PHOTOGRAPHY CLUB

Event Organized By	PHOTOGRAPHY CLUB of JKKMCT
Name of the Convenor	MRS.V.MOHANAPRIYA,HOD/CIVIL,JKKMCT
Name of the Coordinators	MS.V.SATHIYAPRIYA, AP/CIVIL, MRS.P.REENA AP/CIVIL
Name of the Programme	WORLD PHOTOGRAPHY DAY EVENT
Theme	PATTERN LEAFS
Venue	JKKMT SEMINAR HALL
PRIZE DISTRIBUTED BY	DR.K.SRIDHARAN,PRINCIPAL/JKKMCT
Date	24.08.2022

- The Programme was Organized byPhotographyclub on24.08.2022.
- **,Mrs.V.Mohanapriya M.E HOD/CIVIL, Photography Club I/C,** gave Presentation for students to motivate them to exhibit their talents in photography. It was highly useful and energetic for students.
- By remembering the special day of World Photography day on 19.08.2022, as our institution were conducted an event on photography in the theme of "PATTERN LEAFS".
- All the photography event participated student's photos were displayed in Presentation at JKKMCT'S Seminar hall on 24.08.2022.
- Then First three Winners name were announced and distributed prizes for them by our esteemed Principal.

PHOTO GALLERY

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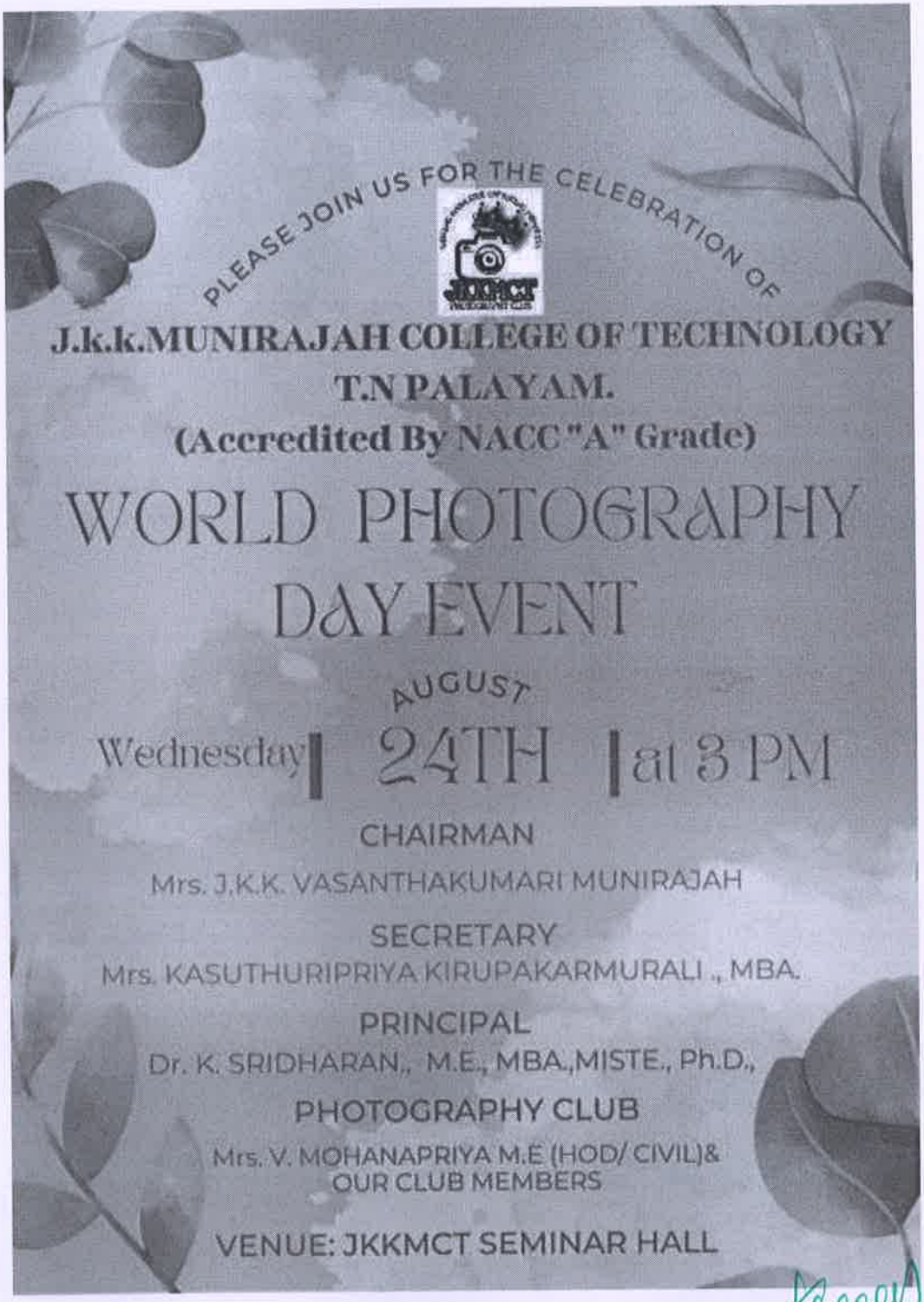

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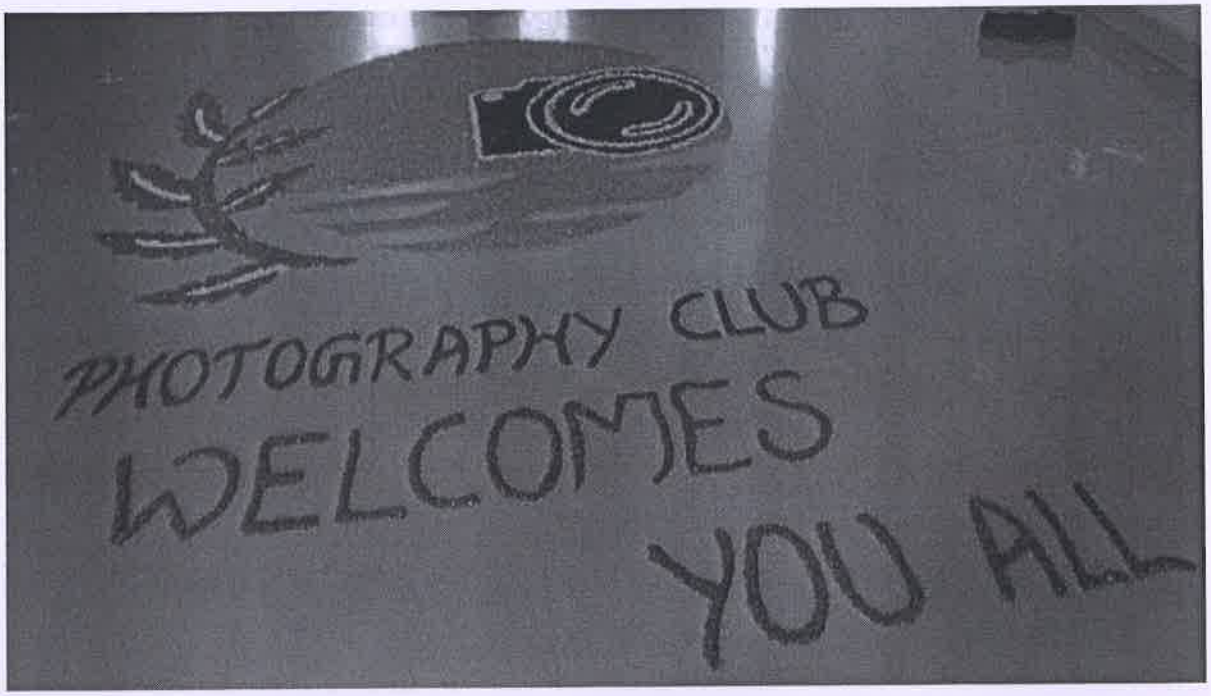

PHOTO OF PHOTOGRAPHY CLUB – RANGOLI ON 24.08.2022

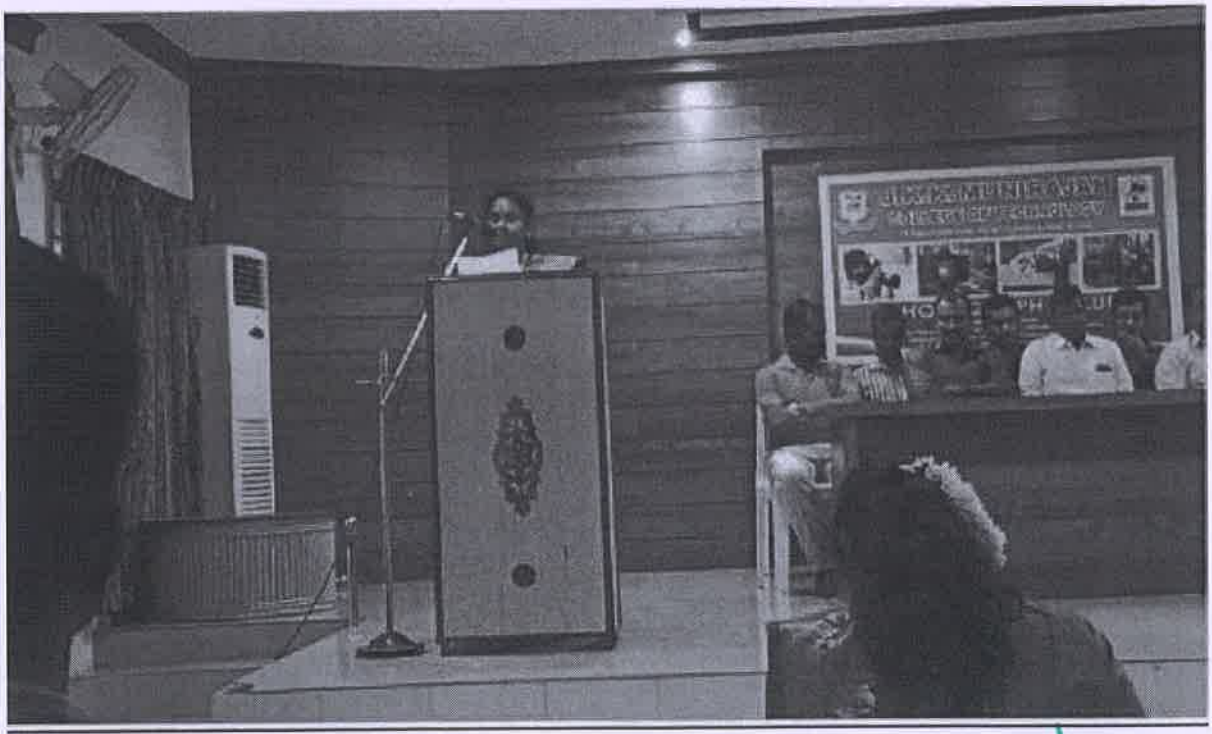

PHOTO OF WELCOME ADDRESS BY PHOTOCLUB I/C

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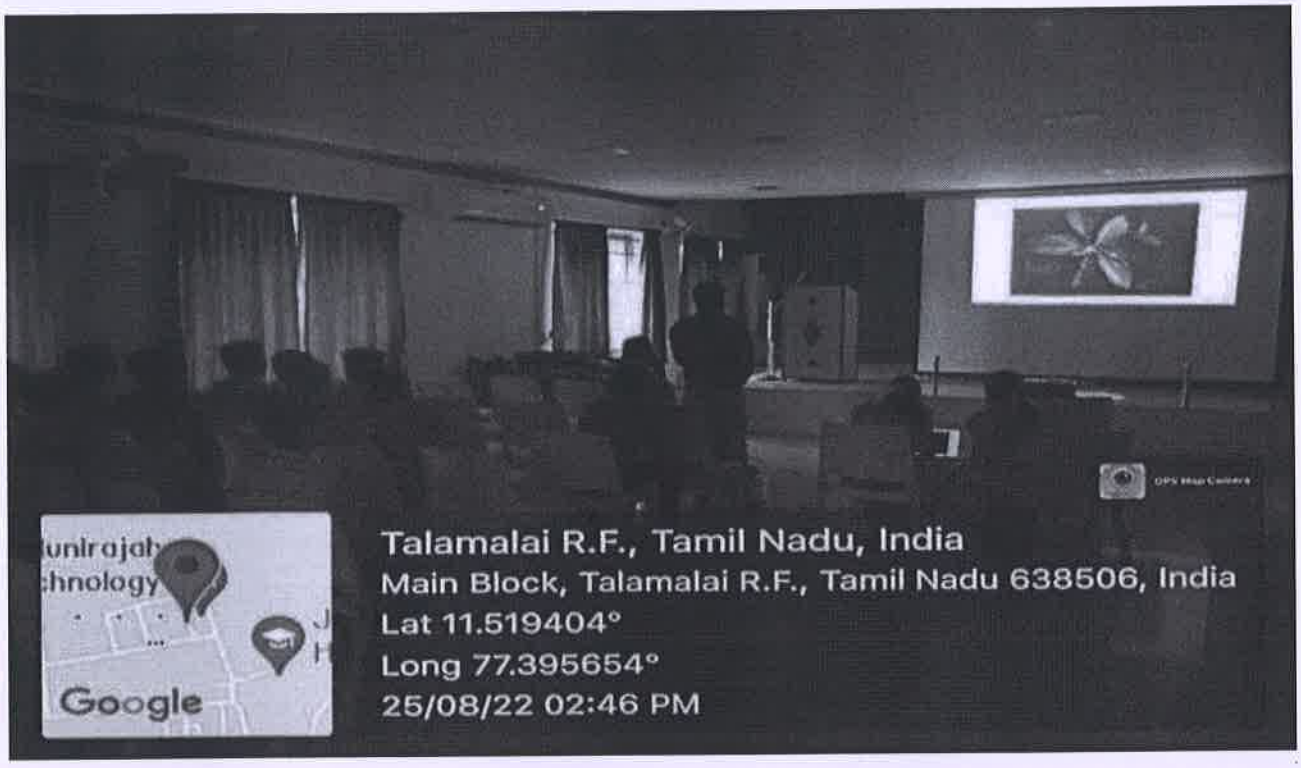

PHOTO OF PRESENTATION OF STUDENT'S CAPTURED PATTERN LEAFS

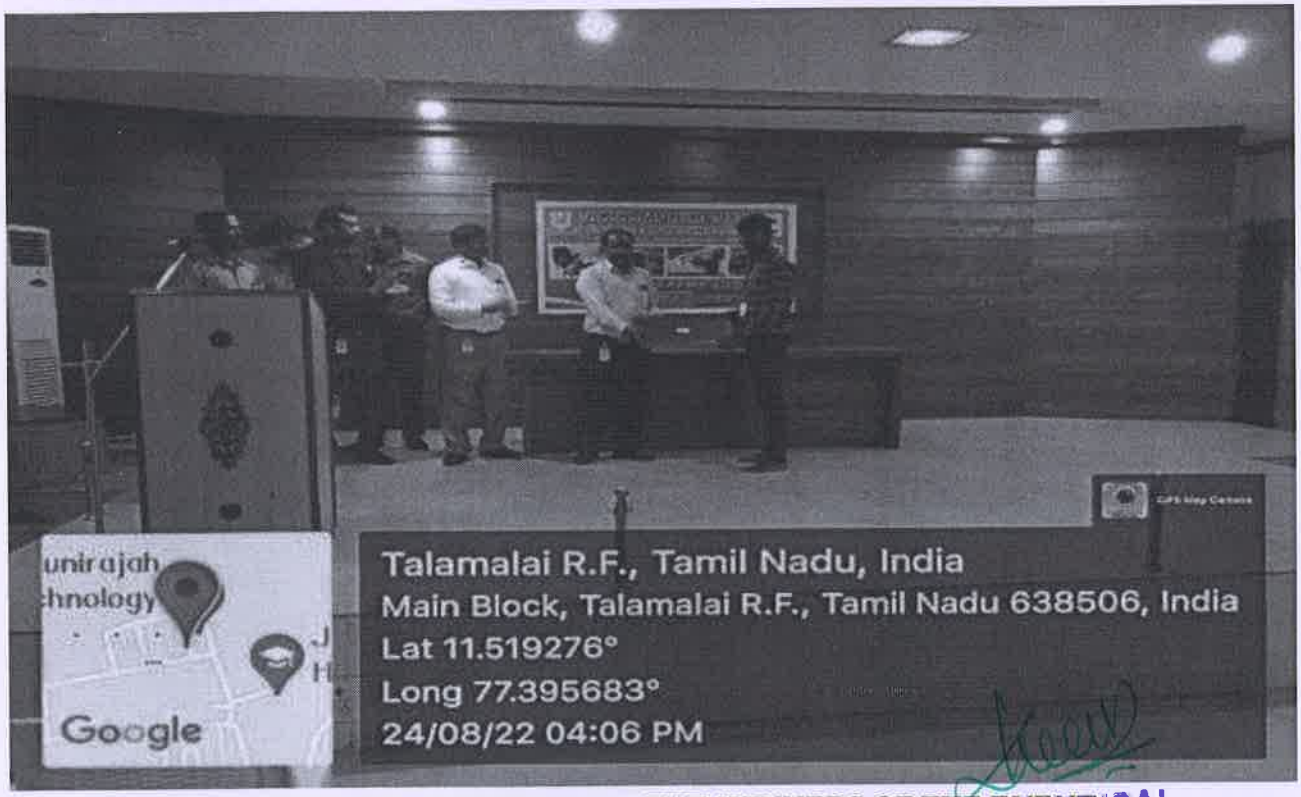

PHOTO OF PRIZE DISTRIBUTION TO THE WINNERS OF THE EVENT

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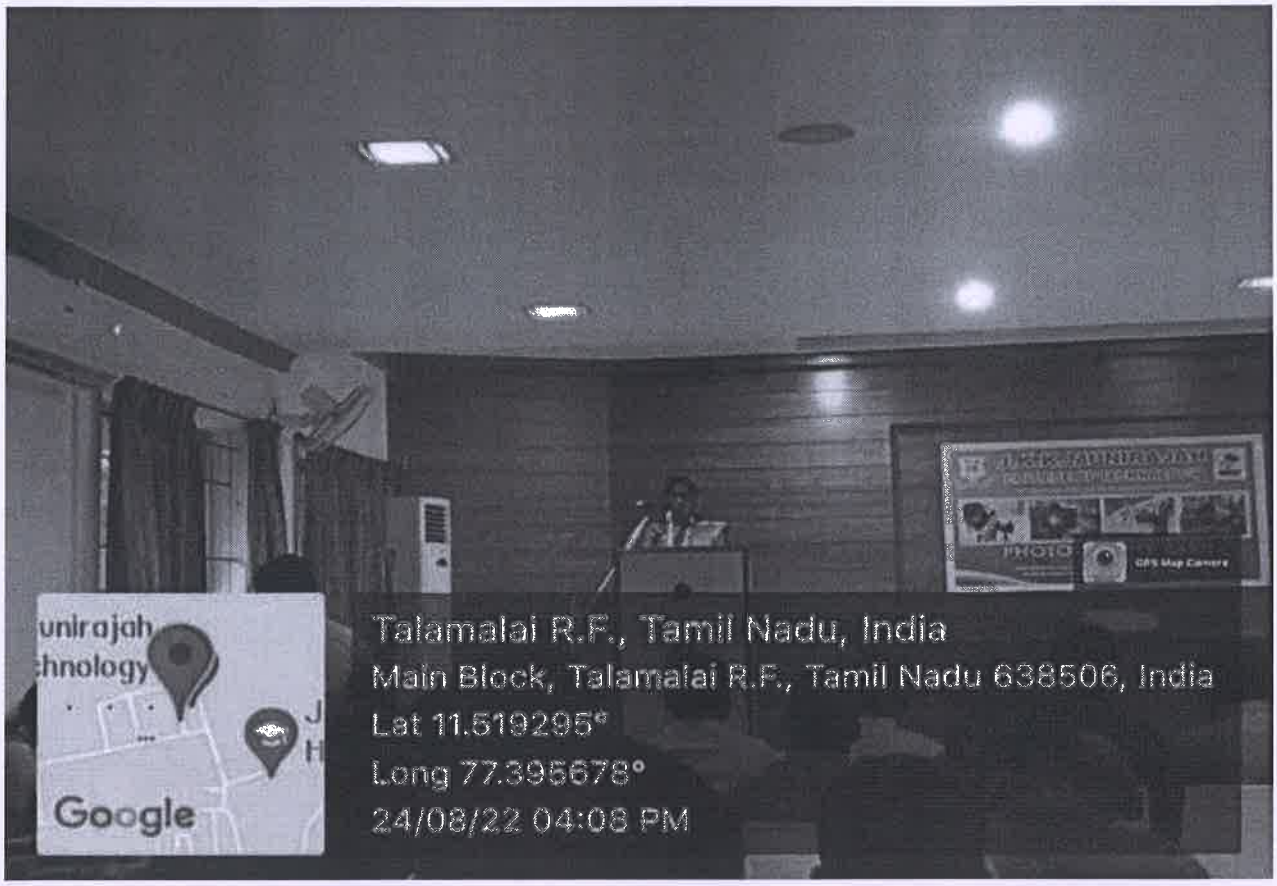

PHOTO OF VOTE OF THANKS FOR THE EVENT

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NATIONAL SERVICE SCHEME

1.PLASTIC AWARENESS AND PLASTIC COLLECTION PROGRAMME

EVENT NAME:	**PLASTIC AWARENESS AND PLASTIC COLLECTION PROGRAMME**
VENUE:	Kadambur Hills
DATE:	02.09.2022
CHIEF GUEST:	Dr. K.Sridharan,Principal, JKKMCT. Forest Guard, Kadambur Hills
NO. OF BENEFICIARIES:	500
NO. OF NSS VOLUNTEERS:	20
NO. OF HOURS INVOLVED:	04 Hours
EVENT DETAILS:	The National service scheme,Automobile and Mechanical Department of JKKMCT organized a Plastic awareness and Plastic collection programme on 02.09.2022 in Kadambur hills .In this programme more than 30 students were participated. Our students had created public awareness on the causes, effects and solutions on Plastic Pollution and removed the plastic waste from Kadambur hills.

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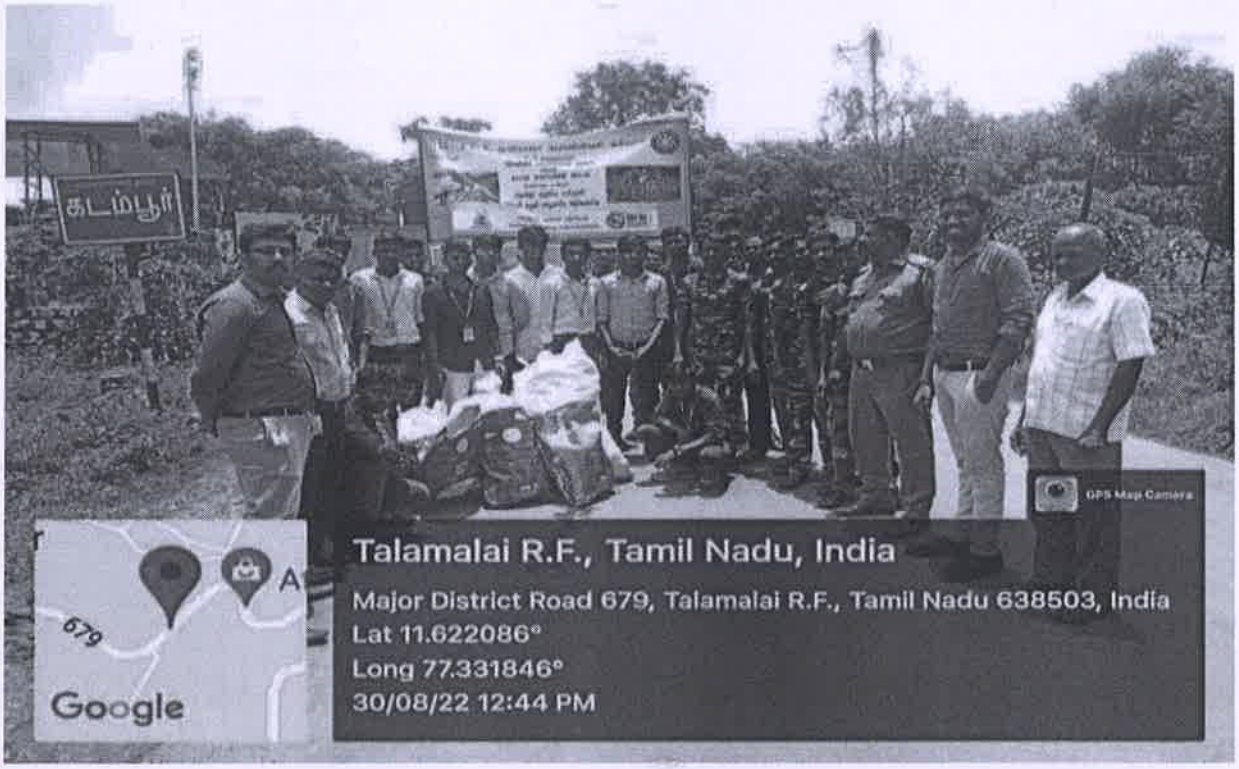

PHOTO OF PLASTIC AWARENESS PROGRAMME AT KADAMBUR VILLAGE ON 02.09.2022

2.ONE DAY FREE DOMESTIC APPLIANCES SERVICE CAMP

EVENT NAME:	**ONE DAY FREE DOMESTIC APPLIANCES SERVICE CAMP**
VENUE:	Punjaithuraiyam Palayam
DATE:	08.10.2022
CHIEF GUEST:	Dr. K.Sridharan, Principal, JKKMCT.
NO. OF BENEFICIARIES:	200
NO. OF NSS VOLUNTEERS:	20

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NO. OF HOURS INVOLVED:	04 Hours
EVENT DETAILS:	Our college NSS volunteers of Electrical and Electronics Engineering Department,Faculty members and Maruti Gas Agency,Gobichettipalayam organized the camp on 08.10.2022 at Punjaithuraiyam Palayam village.In that service camp,we serviced more than 15 no's of Gas stoves and 70 numbers of Electrical domestic appliances like fans,Mixer grinders,Wet grinder,Iron box,etc.

PHOTO OF ONE DAY FREE DOMESTIC APPLIANCES SERVICE CAMP AT PUNJAITHURAIYAM PALAYAM ON 08.10.2022

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3.ERODE MID TOWN LIONS CLUB SPEECH COMPETITION

EVENT NAME:	**ERODE MID TOWN LIONS CLUB SPEECH COMPETITION**
VENUE:	VELLALAR WOMENS COLLEGE,ERODE
DATE:	28.01.2023
CHIEF GUEST:	ERODE MID TOWN LIONS CLUB PRESIDENT
NO. OF BENEFICIARIES:	200
NO. OF NSS VOLUNTEERS:	2
NO. OF HOURS INVOLVED:	02 Hours
EVENT DETAILS:	Our two students were short listed and participated in the Speech competitions of Erode midtown lions club on 28.01.2023 at Vellalar Women's college, Erode. They got the participation certificate.

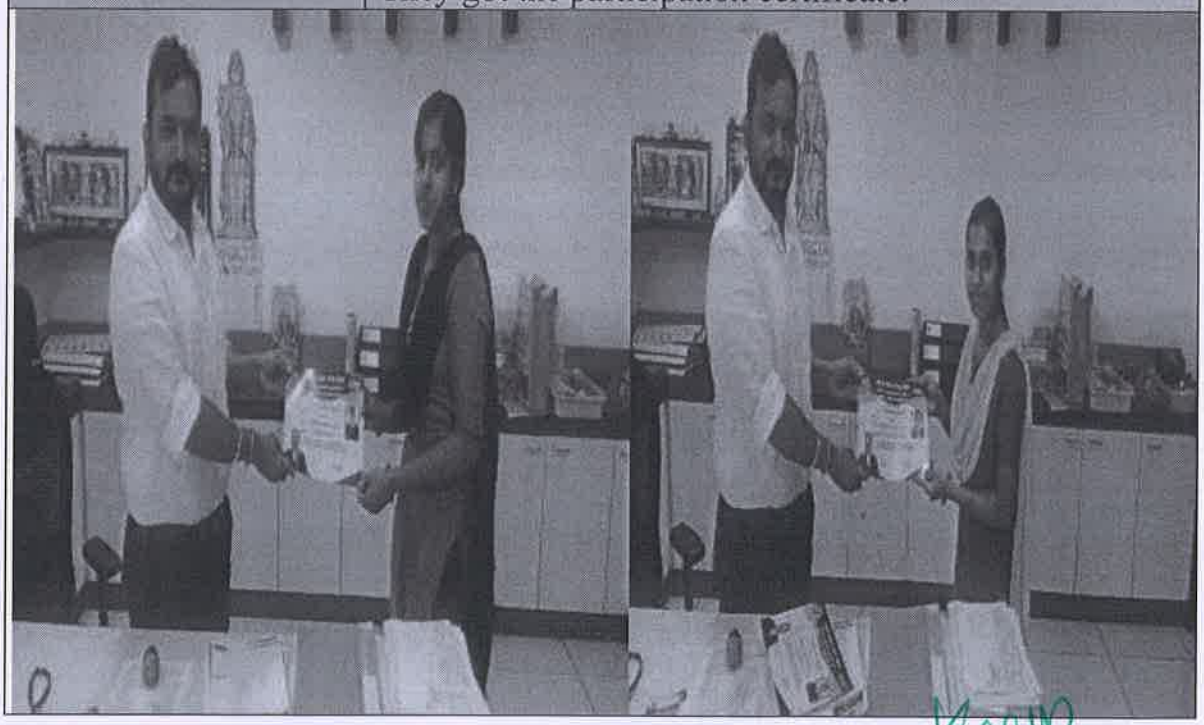

PHOTO OF THE EVENT

PRINCIPAL
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OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).

2.2 SEMINAR

PRINCIPAL
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OF TECHNOLOGY
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GOBI (Tk), ERODE (Dt).

2.3 SEMINAR

ELECTRICAL & ELECTRONICS ENGINEERING

ONE DAY SEMINAR ON ADVANCED TECHNOLOGY IN AUTOMOTIVE & PRODUCTION INDUSTRIES

Event Organized By	EEE DEPARTMENT OFJKKMCT
Name of the Event	ONE DAY SEMINAR
Date of the Event	**15.10.2022**
Number of Participants	25
Venue	**JKKMCT Seminar Hall**
Name of Chief Guest/Speakers	MR.HARISH RAVI,CEO

- A one day Seminar on "ADVANCED TECHNOLOGY IN AUTOMOTIVE & PRODUCTION INDUSTRIES" was conducted on 15.10.2022. The resource person was **MR.HARISH RAVI, CEO, Bharath industrial automation services and solutions Pvt. ltd, Bangalore.**
- Our Participants gained insights into the latest advancements, technologies, and trends in the automotive and production industries, fostering continuous learning.
- Attendees become aware of the cutting-edge technologies, innovations and emerging trends that are shaping the future of the automotive and production sectors.
- Seminars provide a platform for networking with industry experts, professionals, and like-minded individuals, facilitating valuable connections and collaborations.

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Accredited by NAAC with "A" grade
T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506.

ISO 9001:2015 CERTIFIED

J.K.K .MUNIRAJAH COLLEGE OF TECHNOLOGY

T.N.PALAYAM,GOBI -638506.

APPROVED BY AICTE, NEW DELHI, 'A ' GRADE ACCREDITATION BY NAAC ,
ISO 9001: 2015 CERTIFIED AND AFFILIATED TO ANNA UNIVERSITY ,CHENNAI.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ONE DAY SEMINAR

ON

ADVANCED TECHNOLOGY IN AUTOMOTIVE AND PRODUCTION INDUSTRIES

Date : 15th OCTOBER , 2022

Time : 10.00 AM

Venue : Seminar Hall,JKKMCT

In Association with M/s Bharath Industrial Automation Services and Solutions Pvt. Ltd, Bangalore.

Chief Guest

Mr. HARISH RAVI , C.E.O,

Bharath Industrial Automation Services and Solutions Pvt. Ltd

CHIEF PATRON

Mrs.VASANTHAKUMARI MUNIRAJAH,

Chairman, JKKMCT

PATRON

Mrs.KASTURIPRIYA KIRUBAKAAR MURALI ,M.B.A,

Secretary , JKKMCT

CONVENOR

Dr.K.SRIDHARAN ,M.E,M.B.A, Ph.d ,M.I.S.T.E

Principal , JKKMCT

INVITATION OF THE SEMINAR EVENT

PRINCIPAL
JKK MUNIRAJAH COLLEGE
OF TECHNOLOGY
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GOBI (Tk), ERODE (Dt).

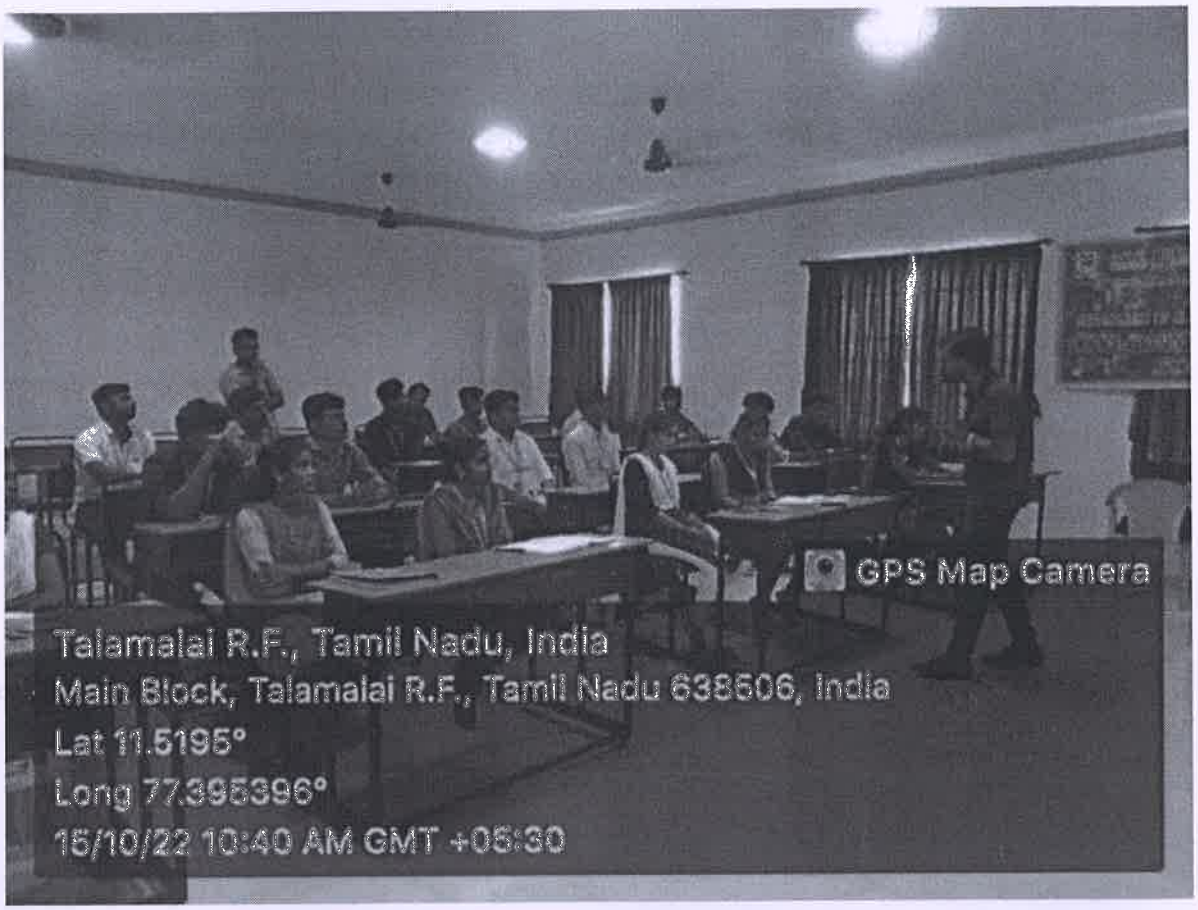

PHOTO OF THE SEMINAR EVENT

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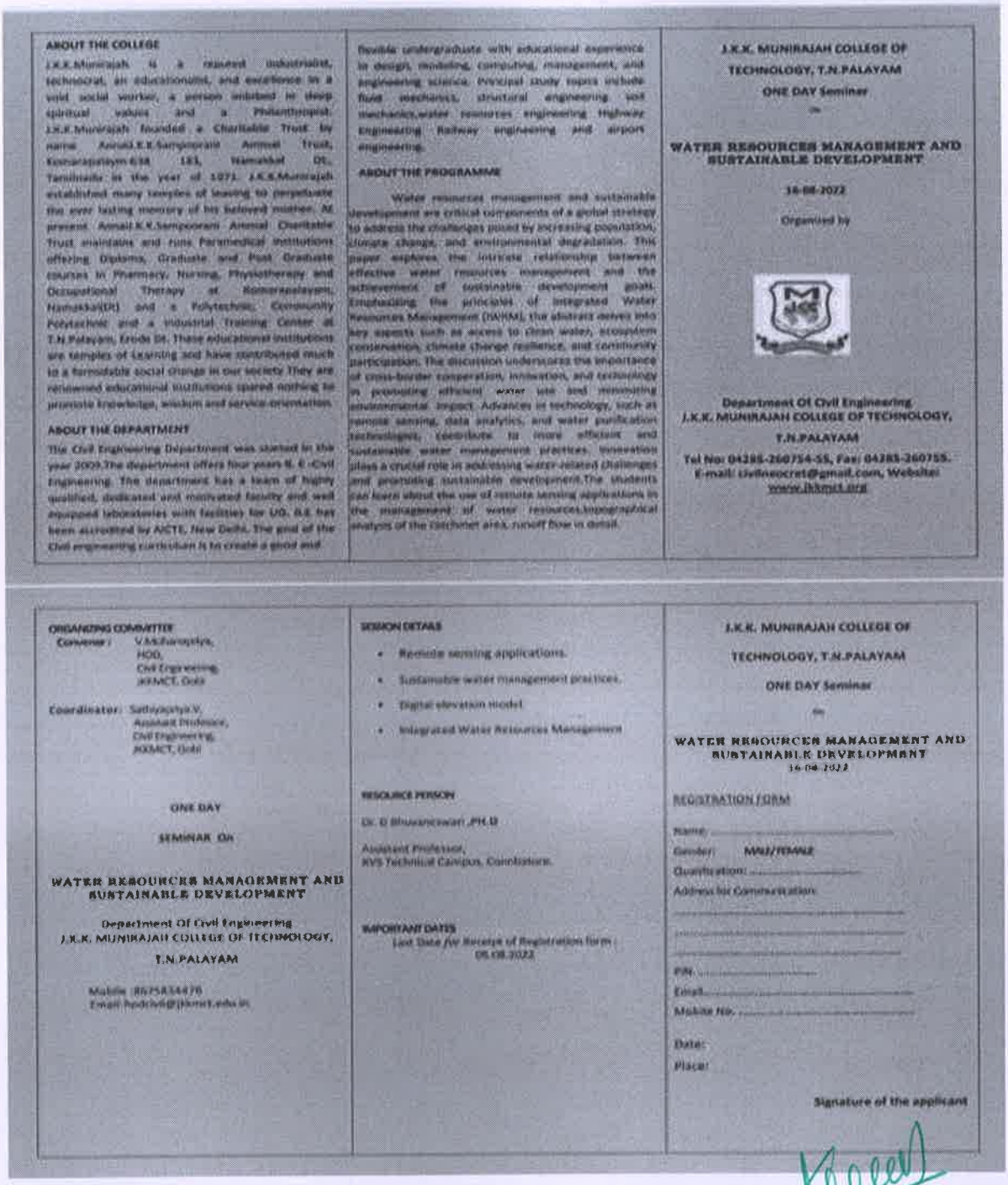
CIVIL ENGINEERING

ONE DAY SEMINAR ON WATER RESOURCES MANAGEMENT AND SUSTAINABLE DEVELOPMENT



ABOUT THE COLLEGE

J.K.K.Munirajah is a renowned industrialist, technocrat, an educationalist, and excellence in a vivid social worker, a person imbibed in deep spiritual values and a Philanthropist. J.K.K.Munirajah founded a Charitable Trust by name Annai.K.K.Sampoorani Ammal Trust, Kanarapalayam 638 183, Namakkal Dt., Tamilnadu in the year of 1971. J.K.K.Munirajah established many temples of learning to perpetuate the ever lasting memory of his beloved mother. At present Annai.K.K.Sampoorani Ammal Charitable Trust maintains and runs Paramedical institutions offering Diploma, Graduate and Post Graduate courses in Pharmacy, Nursing, Physiotherapy and Occupational Therapy at Kanarapalayam, Namakkal(Dt) and a Polytechnic, Community Polytechnic and a Industrial Training Center at T.N.Palayam, Erode Dt. These educational institutions are temples of learning and have contributed much to a formidable social change in our society They are renowned educational institutions spared nothing to promote knowledge, wisdom and service orientation.

ABOUT THE DEPARTMENT

The Civil Engineering Department was started in the year 2009.The department offers four years B. E -Civil Engineering. The department has a team of highly qualified, dedicated and motivated faculty and well equipped laboratories with facilities for UG. B.E has been accredited by AICTE, New Delhi. The goal of the Civil engineering curriculum is to create a good and flexible undergraduate with educational experience in design, modeling, computing, management, and engineering science. Principal study topics include fluid mechanics, structural engineering soil mechanics,water resources engineering Highway engineering Railway engineering and airport engineering.

ABOUT THE PROGRAMME

Water resources management and sustainable development are critical components of a global strategy to address the challenges posed by increasing population, climate change, and environmental degradation. This paper explores the intricate relationship between effective water resources management and the achievement of sustainable development goals. Emphasizing the principles of Integrated Water Resources Management (IWRM), the abstract delves into key aspects such as access to clean water, ecosystem conservation, climate change resilience, and community participation. The discussion underscores the importance of cross-border cooperation, innovation, and technology in promoting efficient water use and minimizing environmental impact. Advances in technology, such as remote sensing, data analytics, and water purification technologies, contribute to more efficient and sustainable water management practices. Innovation plays a crucial role in addressing water-related challenges and promoting sustainable development.The students can learn about the use of remote sensing applications in the management of water resources,topographical analysis of the catchment area, runoff flow in detail.

J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N.PALAYAM
ONE DAY Seminar
On
WATER RESOURCES MANAGEMENT AND SUSTAINABLE DEVELOPMENT
16-08-2022
Organized by

Department Of Civil Engineering
J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY,
T.N.PALAYAM
Tel No: 04285-260754-55, Fax: 04285-260755.
E-mail: civilnoocret@gmail.com, Website: www.jkkmct.org

ORGANIZING COMMITTEE

Convenor : V.Mohanapriya, HOD, Civil Engineering, JKKMCT, Gobi

Coordinator: Sathyapriya V, Assistant Professor, Civil Engineering, JKKMCT, Gobi

ONE DAY
SEMINAR On
WATER RESOURCES MANAGEMENT AND SUSTAINABLE DEVELOPMENT
Department Of Civil Engineering
J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY,
T.N.PALAYAM

Mobile :8675834478
Email: hodcivil@jkkmct.edu.in

SESSION DETAILS

- Remote sensing applications.
- Sustainable water management practices.
- Digital elevation model
- Integrated Water Resources Management

RESOURCE PERSON

Dr. D Bhuvaneswari ,PH.D

Assistant Professor,
KVS Technical Campus, Coimbatore.

IMPORTANT DATES

Last Date for Receipt of Registration form : 05.08.2022

J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N.PALAYAM
ONE DAY Seminar
On
WATER RESOURCES MANAGEMENT AND SUSTAINABLE DEVELOPMENT
16-08-2022

REGISTRATION FORM

Name: .....
Gender: MALE/FEMALE
Qualification: .....
Address for Communication:
.....
.....
.....
PIN: .....
Email: .....
Mobile No. .....

Date:
Place:

Signature of the applicant

BROCHURE OF THE SEMINAR EVENT

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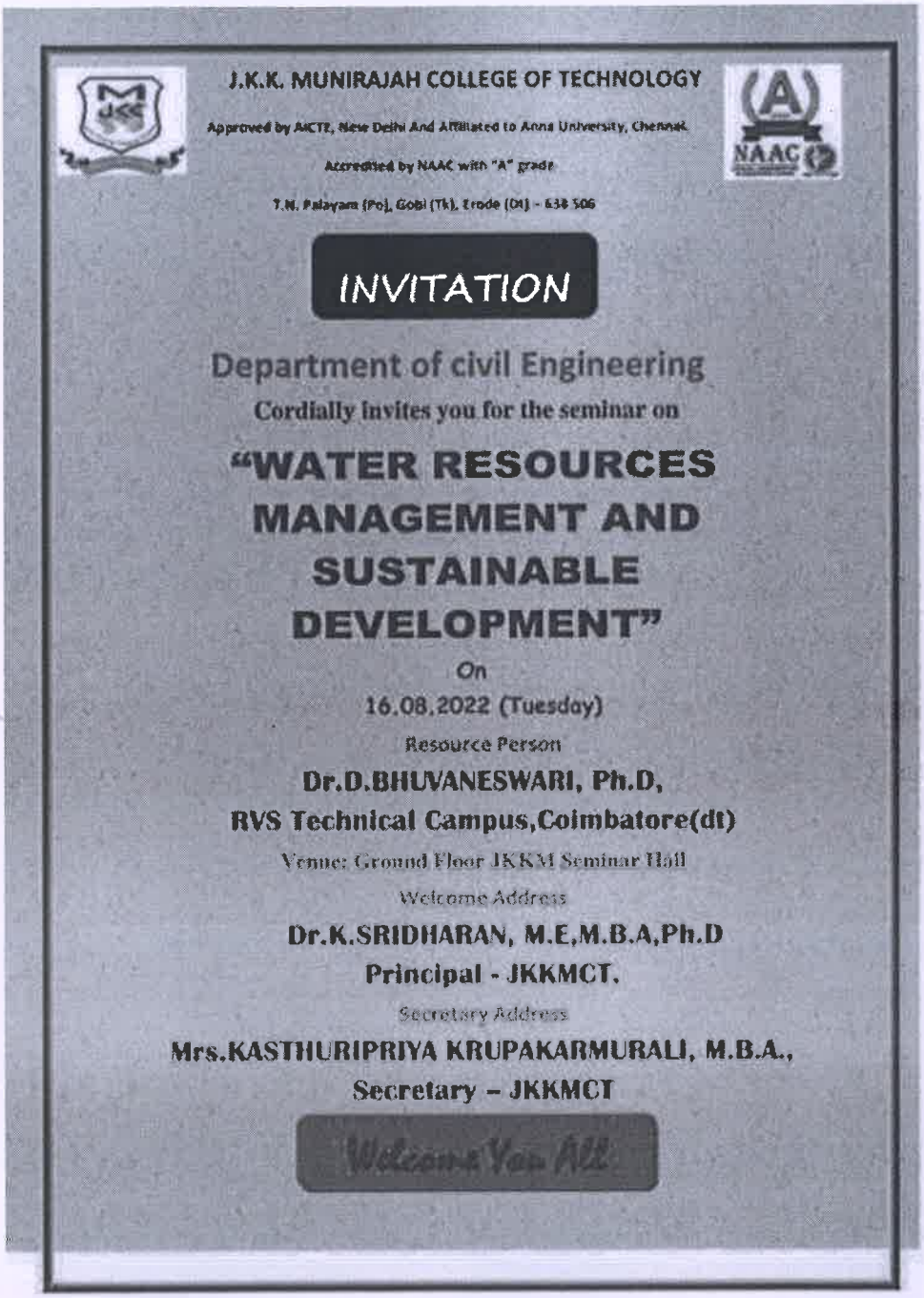

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INVITATION

Department of civil Engineering

Cordially invites you for the seminar on

"WATER RESOURCES MANAGEMENT AND SUSTAINABLE DEVELOPMENT"

On

16.08.2022 (Tuesday)

Resource Person

Dr.D.BHUVANESWARI, Ph.D,

RVS Technical Campus,Coimbatore(dt)

Venue: Ground Floor JKKM Seminar Hall

Welcome Address

Dr.K.SRIDHARAN, M.E,M.B.A,Ph.D

Principal - JKKMCT.

Secretary Address

Mrs.KASTHURIPRIYA KRUPAKARMURALI, M.B.A.,

Secretary – JKKMCT

Welcome You All

INVITATION OF THE SEMINAR EVENT

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Name of Department	Department of Civil Engineering
Name of Event Organized	Seminar
Title of the Event	Water Resources Management and Sustainable Development
Date of Event Organized	16-08-2022
No of Participants	12
Venue	College Seminar Hall
Name of Chief Guest/Speakers	Dr.D.Bhuvaneswari, RVS Technical campus, Kannampalayam,Coimbatore

Description/Conclusion:

Water resources management and sustainable development are critical components of a global strategy to address the challenges posed by increasing population, climate change, and environmental degradation. This seminar explores the intricate relationship between effective water resources management and the achievement of sustainable development goals. Emphasizing the principles of Integrated Water Resources Management (IWRM), the abstract delves into key aspects such as access to clean water, ecosystem conservation, climate change resilience, and community participation. The discussion underscores the importance of cross-border cooperation, innovation, and technology in promoting efficient water use and minimizing environmental impact. Recognizing water as a finite and essential resource, the abstract advocates for a comprehensive and inclusive approach to balance human needs with the preservation of ecosystems. As water scarcity becomes a pressing global issue, embracing sustainable water management practices emerges as a fundamental pathway to secure a resilient and equitable future for all. Advances in technology, such as remote sensing, data analytics, and water purification technologies, contribute to more efficient and sustainable water management practices.Innovation plays a crucial role in addressing water-related challenges and promoting sustainable development. The seminar commenced with an insightful overview of the current state of global water resources and the escalating threats posed by climate change, population growth, and urbanization. We learn about water conservation, efficient irrigation practices, watershed management, and the role of technology in monitoring and managing water resources.

Speaker details: Dr.D.Bhuvaneswari,Ph.D, Assistant professor, RVS Technical campus, Coimbatore

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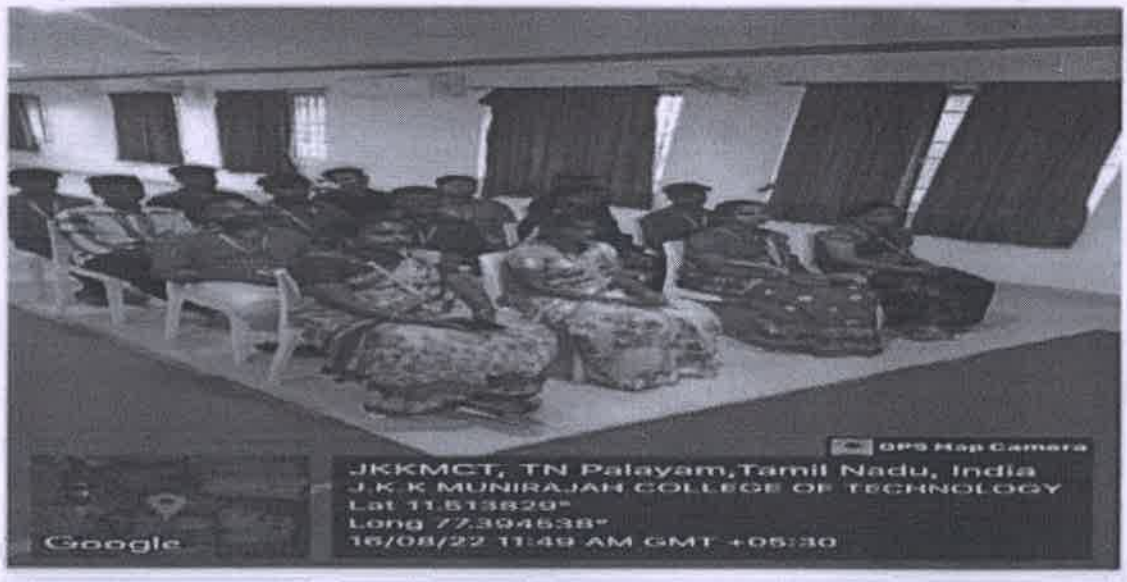

Pic – Seminar Water Resources Management and Sustainable Development

16-08-2022

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Event Organized By	ECE Department of JKKMCT
Name of the Event	A National level Seminar on " **Internet of Things (IOT)"**
Date of the Event	22.09.2022
Venue	JKKMCT Seminar Hall
Name of the Resource Person	Mr.N.Prabhu Centre Manager, ETS Academy, Mettur Road, Erode.

- A National level Seminar on **"Internet of Things (IOT)""** was conducted on 22.09.2022. The resource persons were Mr.N.PRABHU Centre Manager from ETS Academy , Erode.

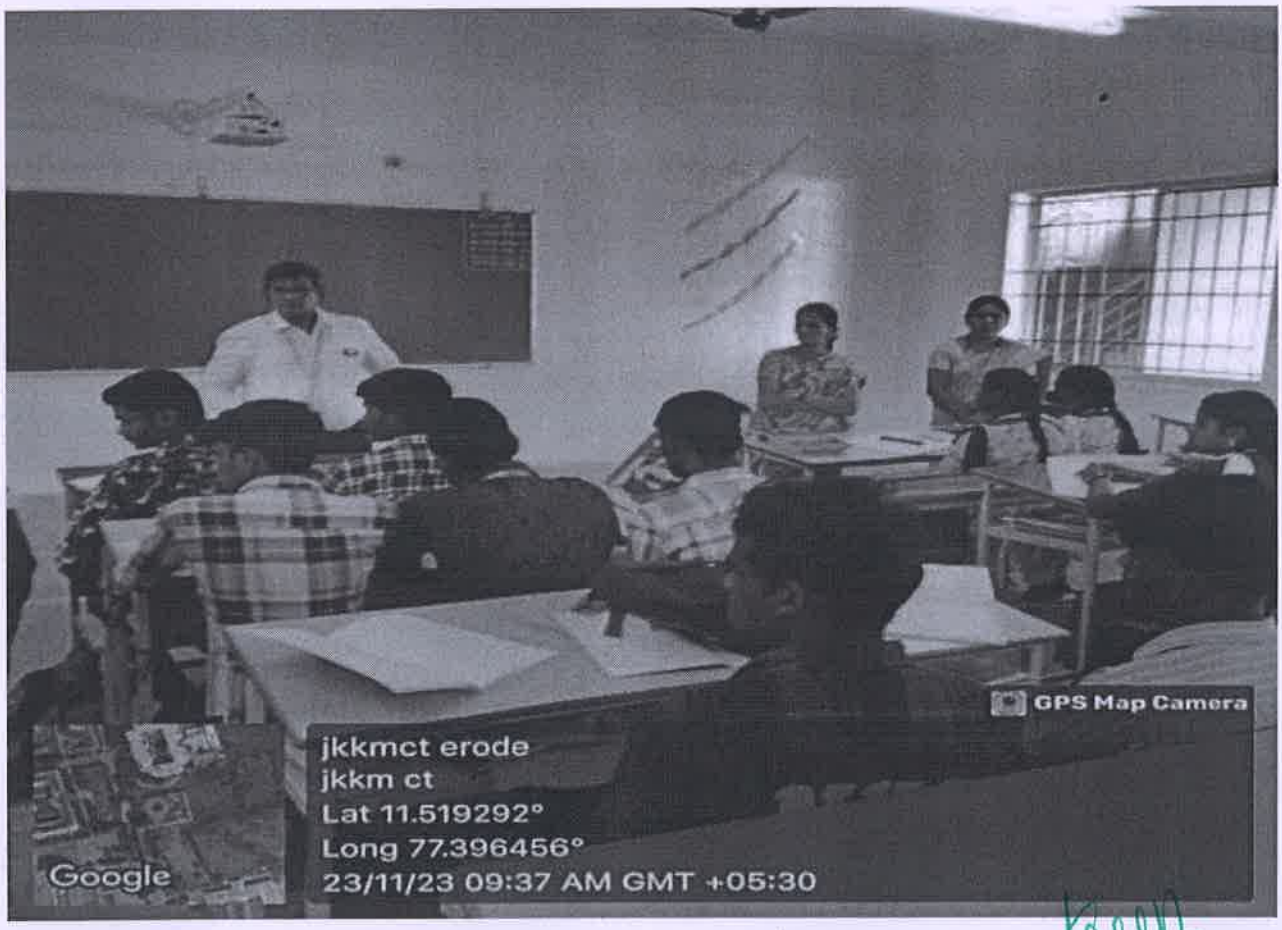

PHOTO OF THE EVENT

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2.3 WORKSHOP

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GOBI (Tk), ERODE (Dt).

Name of Event Organized	Workshop
Title of the Event	Optimizing hydraulic system efficiency through advanced fluid dynamics analysis
Date of Event Organized	21.09.2022
No of Participants	04
Venue	Seminar Hall
Name of Chief Guest/Speakers	Dr. L. Vignesh Rajkumar

Description/Conclusion:

Hydraulic systems play a pivotal role in various industrial applications, ranging from manufacturing to aerospace, where precision and efficiency are paramount. This study explores the optimization of hydraulic system efficiency through the application of advanced fluid dynamics analysis. By computational tools and methodologies, we delve into the intricate flow characteristics within hydraulic components to identify opportunities for improvement. The research focuses on three key aspects such as Computational Fluid Dynamics Modeling Using state-of-the-art CFD simulations, we create a detailed digital representation of the hydraulic system. Including modeling fluid behavior, pressure distribution, and velocity profiles within crucial components such as pumps, valves, and actuators. The simulations provide a comprehensive understanding of flow dynamics, enabling us to identify areas of inefficiency and potential optimization.Optimization Strategies Building upon the insights gained from CFD simulations.This involves fine-tuning parameters such as component geometries, fluid properties, and operating conditions to minimize energy losses and improve performance.The goal is to achieve a balance between pressure requirements, flow rates, and system reliability.Experimental Validation to see effectiveness of the proposed optimizations, a series of real-world experiments are conducted on a prototype hydraulic system. Performance metrics, including energy consumption, response times, and overall system reliability, are measured and compared with baseline data. The experimental results to validate the accuracy of the CFD simulations and the practical applicability of the optimization strategies.our research aims to contribute to the advancement of hydraulic system technology, providing industries with practical insights to improve energy efficiency, reduce operational costs, and enhance overall system performance. The findings of this study have the potential to influence the design and operation of hydraulic systems across various sectors, leading to more sustainable and optimized industrial processes.

Speaker details: Dr.L.Vignesh Rajkumar,PH.D, Assistant professor, VIT, Vellore

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INVITATION

DEPARTMENT OF CIVIL ENGINEERING

Cordially invites you for the Workshop on

"OPTIMIZING HYDRAULIC SYSTEM EFFICIENCY THROUGH ADVANCED FLUID DYNAMICS ANALYSIS"

On

21st SEPTEMBER 2022

Resource person

Dr. L. Vignesh Rajkumar, PH.D.,

Assistant Professor,

VIT University, Vellore

Venue: Seminar Hall

Welcome Address

Dr. K.Sridharan.,M.E,M.B.A., PH.D., Principal – JKKMCT

Secretary Address

Mrs. Kasthuripriya Krupakarmurali., M.B.A.,

Secretary – JKKMCT

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ABOUT THE PROGRAMME

Hydraulic systems play a pivotal role in various industrial applications, ranging from the manufacturing to aerospace.This workshop explores the optimization of hydraulic system efficiency through the application of advanced fluid dynamics analysis. The research focuses on aspects such as Computational Fluid Dynamics Modeling and Optimization Strategies building upon the insights gained from simulations, we develop and implement optimization strategies to enhance the overall system efficiency. Experimental Validation to validate the effectiveness of the proposed optimizations, a series of real-world experiments are conducted on a prototype hydraulic system. The research aim to contribute to the advancement of hydraulic system technology, providing industries with practical insights to improve energy efficiency, reduce operational costs, and enhance overall system performance to influence the design and operation of hydraulic systems across various sectors leading to more sustainable and optimized industrial processes.

J.K.K. MUNIRAJAH COLLEGE OF
TECHNOLOGY, T.N.PALAYAM
ONE DAY Workshop
On
OPTIMIZING HYDRAULIC SYSTEM EFFICIENCY THROUGH ADVANCED FLUID DYNAMICS ANALYSIS
21-09-2022

Organized by

Department Of Civil Engineering
J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY,
T.N.PALAYAM
Tel No: 04285-260754-55, Fax: 04285-260755.
E-mail: civilnocrnt@gmail.com,
Website: www.jkkmct.org

ORGANIZING COMMITTEE

Convener: V.Mohanapriya,
HOD,
Civil Engineering,
JKKMCT, Gobi

Coordinator: Sathyapriya.V,
Assistant Professor,
Civil Engineering,
JKKMCT, Gobi

ONE DAY

WORKSHOP On
OPTIMIZING HYDRAULIC SYSTEM EFFICIENCY THROUGH ADVANCED FLUID DYNAMICS ANALYSIS
Department Of Civil Engineering
J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY,
T.N.PALAYAM

Mobile :8675834476
Email: hodcivil@jkkmct.edu.in

SESSION DETAILS

- Computational Fluid Dynamics Modeling.
- Optimization Strategies.
- Industrial approach to projects.
- Design and operation of hydraulic systems across various sectors.

RESOURCE PERSON

Dr. L. Vignesh Rajkumar,PH.D

Assistant Professor,
VIT University, Vellore

IMPORTANT DATES

Last Date for Receipt of Registration form :
15.09.2022

J.K.K. MUNIRAJAH COLLEGE OF
TECHNOLOGY, T.N.PALAYAM
ONE DAY Workshop
On
OPTIMIZING HYDRAULIC SYSTEM EFFICIENCY THROUGH ADVANCED FLUID DYNAMICS ANALYSIS
21-09-2022

REGISTRATION FORM

Name: .....
Gender: MALE/FEMALE
Qualification: .....
Address for Communication:
.....
.....
.....
PIN: .....
Email: .....
Mobile No. .....

Date:
Place:

Signature of the applicant

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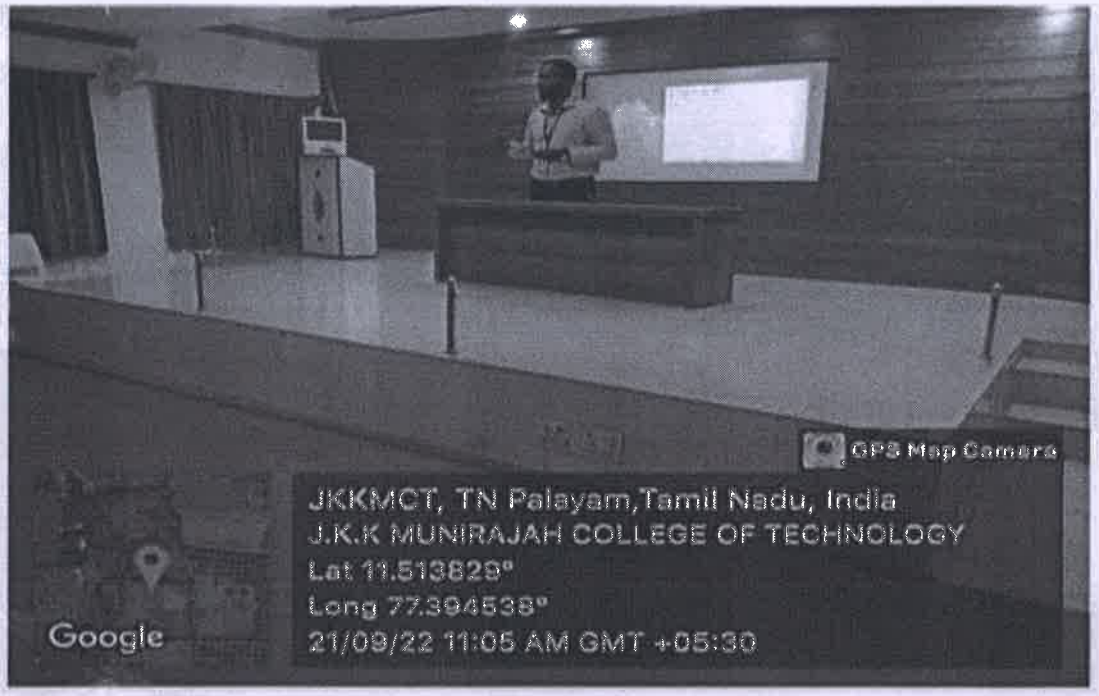
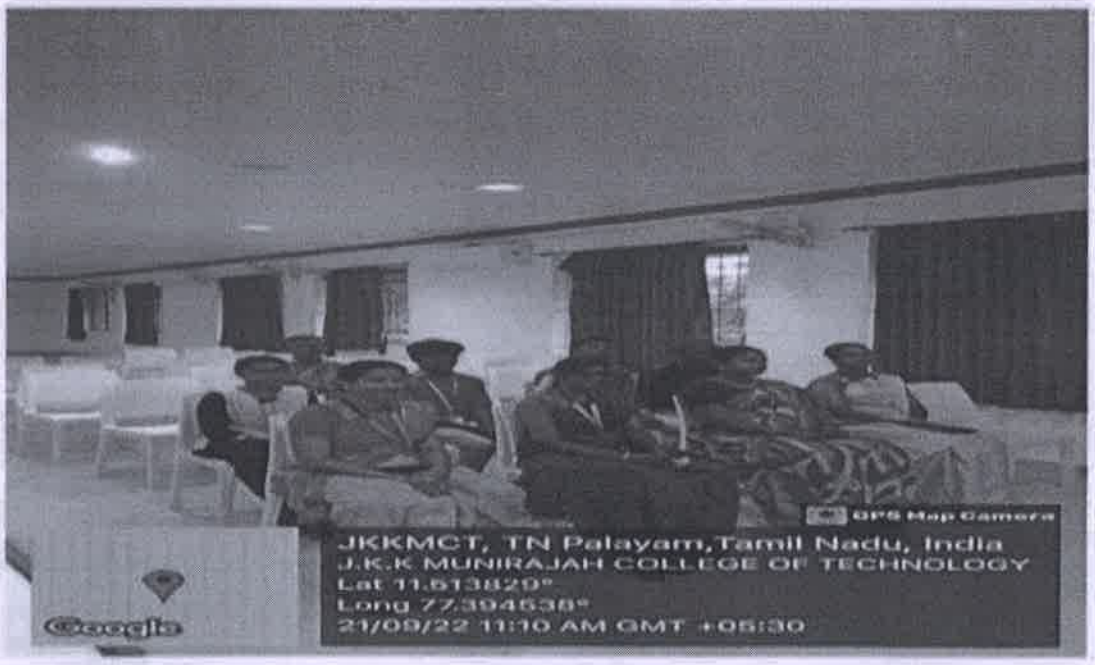
OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).





Optimizing hydraulic system efficiency through advanced fluid dynamics analysis - 21.09.2022

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Event Organized By	ECE Department of JKKMCT
Name of the Event	A National level Workshop on "**Interfacing various sensors with kit Aruduino UNO (IOT)**
Date of the Event	29.09.2022
Venue	JKKMCT Seminar Hall
Name of the Resource Person	Mr.N.Prabhu Centre Manager, ETS Academy, Mettur Road, Erode.

- Electronics and Communication Engineering Students Association and a national level workshop on "**Interfacing various sensors with kit Aruduino UNO (IOT)**" was conducted on 29.09.2022. The resource persons were Mr.N.PRABHU Centre Manager from ETS Academy, Erode.

PHOTO OF THE EVENT

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3.1 FINAL YEAR PROJECT

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2.3.1 **Problem Solving techniques**

Branch & Semester :Civil Engineering & VIII semester
PROJECT WORK Batch:2022-2023

S.NO	Title of the Project	Project Members	Reg.No	Guide's Name	Dept	Relevance				
						Research	Environment	CaseStudy	Ethics	Others
1.	EXPERIMENTAL INVESTIGATION ON PARTIAL REPLACEMENT OF CEMENT WITH WASTE PAPER ASH	ANILKUMAR BALDABOI DEBACHAND MUDULI	731219103002 731219103003	Mrs.V.MOHANAPRIYA	CSE	✓	✓			

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Accredited by NAAC with "A" grade
T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506.

BONAFIDE CERTIFICATE

Certified that this project report is the titled **"EXPRIMENTAL INVESTIGATION ON PARTIAL REPLACEMENT OF CEMENT WITH WASTE PAPER ASH"** is approved record of work done by **ANIL KUMAR BALDABOI (731219103002) & DEBACHAND MUDULI (731219103003)** impartial fulfillment for the award of **Bachelor of Civil Engineering** of Anna University, Chennai Technology during the year 2022 -2023.

18/5/23

SIGNATURE

Mrs.V. MOHANAPRIYA., M.E.,

SUPERVISOR

Department of Civil Engineering,

J K K Munirajah College of Technology

T.N. Palayam – 638506

18/5/23

SIGNATURE

Mrs.V. MOHANAPRIYA., M.E.,

HEAD OF THE DEPARTMENT

Department of Civil Engineering,

J K K Munirajah College of Technology

T.N. Palayam – 638506

Submitted for the project viva-voice examination held on 18/05/2023.....

18/5/23

INTERNAL EXAMINER

18/5/23

EXTERNAL EXAMINER

PRINCIPAL
JKK MUNIRAJAH COLLEGE
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GOBI (Tk), ERODE (Dt).

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T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506.

2.3.1 Problem solving Techniques

Branch & Semester :Electronics & Communication Engineering & VIII semester
PROJECT WORK Batch :2022-2023

S.No	Title of the Project	Project Members	Reg.No.	Guide's Name	Dept	Relevance				
						Research	Environment	Caste Study	Ethics	Others
1	DESIGN AND IMPLEMENTATION OF ANTI-THEFT IN ATM CENTRE USING HYBRID INTERNET OF THINGS	MATHAN KUMAR.M MOHAN.K NARMATHA.M	731219106008 731219106009 731219106012	Mrs.U. SASIKALA	ECE	✓	✓	✓	✓	
2	FIRE DETECTING AND EXTINGUISHER USING ARDOINO	MUTHUPANDI.M NANDHINI.P NANDHINI.P KURALARASAN.D	731219106010 731219106011 731219106301	Mr.N.NAVINDRAN	ECE	✓	✓	✓	✓	
3	INCREASING EFFICIENCY LIFETIME OF E-VEHICLE BATTERY SYSTEM	JAGADESH KUMAR.G ROHINI.M SATHIYA	731219106004 731219106015 731219106018	Mrs.N. GOMA	ECE		✓	✓	✓	

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GOBI (Tk), ERODE (Dt).

		PRIYA.K		THI						
4	AUTOMATIC MEDIAL DISPATCHER WITH OLYAMIC TELEMONITORING SYSTEM USING IOT IN RURAL ZONE	KEMPARAJ.K SABARI GAYATHRI.A SURENDHAR.P	731219106006 731219106016 731219106019	Mrs.R.KOKILA	ECE		✓	✓	✓	
5	AUTOMATIC INSULIN INJECTION	BHARATHI.M RAMESH PRABHU.P UDHAYA KUMAR.M	731219106001 731219106013 731219106021	Mrs.U.SASIKALA	ECE		✓	✓	✓	

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3.2 MINI PROJECT

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Accredited by NAAC with "A" grade
T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506.

2.3.1 Problem Solving techniques

Branch & Semester :Computer science and engineering & VI semester

PROJECT WORK Batch:2022-2023

S.NO	Title of the Project	Project Members	Reg.No	Guide's Name	Dept	Relevance				
						Research	Environment	CaseStudy	Ethics	Others
1.	FINGERPRINT BASED VOTING SYSTEM	ABINAYA G DEEPIKA.S DHARANISELVI. M	731220104001 731220104006 731220104007	Mrs.P.SASIREKA	CSE	✓	✓	✓		
2.	VR SHOPPING EXPERIENCE	BALU R KAVIN.M VINOTHKUMAR.R	731220104003 731220104012 731220104031	Mr.E.ANANTH	CSE	✓	✓	✓		
3.	PREDICTION OF HANDWRITTEN DIGIT USING CNN	CHARLES WILLIAM.L LOGANATHAN.T NIRMALRAJ.S	731220104004 731220104014 731220104019	Dr.S.B.MANOOJKUMAAR	CSE	✓		✓		
4.	WEB-BASED CLOUD STORAGE FOR SECURE DATA SHARING ACROSS PLATFORMS	DEEPAK.S JAGATHESWARN.P ROHITH.R	731220104005 731220104009 731220104022	Dr.N.SATHYABALAJI	CSE	✓	✓	✓		
55.	FACEMASK DETECTION WITH ACCURACY	KARUNYAA.M RAMYA.S ROSHMA I	731220104010 731220104021 731220104023	MrS.D.NIVETHINI	CSE		✓		✓	
6.	FACE DETECTION ATTENDANCE SYSTEM	KATHIRESAN.K SIVALINGAM.K SUNDARAGANESAN.K	731220104011 731220104024 731220104025	Mr.E.ANANTH	CSE		✓	✓	✓	

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7.	MEDICAL HANDWRITTEN PRESCRIPTION RECOGNITION	VINISHA.T VINITHA.A	731220104029 731220104030	Mrs.M.C.SAVITHRI	CSE	✓	✓		✓	
8.	FAKENEWS DETECTION ON SOCIAL MEDIA	BOOPALAN.M DHAMODARAN.G	731220104301 731220104302	Dr.N.SATHYABALAJI	CSE		✓	✓	✓	

BONAFIDE CERTIFICATE

Certified that this project report on "FINGERPRINT BASED ONLINE VOTING SYSTEM" is the Bonafide work of "ABINAYA G (731220104001), DEEPIKA S (731220104006) and DHARANISELVI M (731220104007)" who carried out the project work under my supervision.

SIGNATURE
Dr. N. SATHYABALAJI M.E., Ph.D., M.I.S.T.E.,
ASSOCIATE PROFESSOR
HEAD OF THE DEPARTMENT
Dept. of Computer Science and Engineering
J.K.K. Munirajah College of Technology
T.N. Palayam

SIGNATURE
Mrs. P. SASIREKA, M.E.,
ASSISTANT PROFESSOR
SUPERVISOR
Dept. Of Computer Science and Engineering
J.K.K. Munirajah College of Technology
T.N. Palayam

Submitted for the Viva-Voce examination held on 30.05.2023

INTERNAL EXAMINER

EXTERNAL EXAMINER

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OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).

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Accredited by NAAC with "A" grade
T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506.

ANNA UNIVERSITY::CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report on " A REALISTIC SHOPPING EXPERIENCE FOR CUSTOMERS THROUGH VR " is the bonafide work of "BALU R (731220104003), KAVIN M (731220104012), VINOTHKUMAR R (731220104031)" who carried out the project work under my supervision.

SIGNATURE	SIGNATURE
Dr.N.SATHYABALAJI,M.E,Ph.D.,M.I.S.T.E	Mr.E.ANANTH.,M.E.,
ASSOCIATE PROFESSOR	ASSISTANT PROFESSOR
HEAD OF THE DEPARTMENT	SUPERVISOR
Dept.of Computer Science and Engineering	Dept.of Computer Science and Engineering
J.K.K.Munirajah College of Technology	J.K.K.Munirajah College of Technology
T.N.Palayam	T.N.Palayam

Submitted for the Viva-Voce examination held on 30.05.2023 FN

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T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).

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T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506.

ANNA UNIVERSITY:: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report on "PREDICTION OF HANDWRITTEN DIGIT USING CONVOLUTIONAL NEURAL NETWORKS" is the Bonafide work of "L.CHARLES WILLIAM (731220104004), T.LOGANATHAN (731220104014), S.NIRMALRAJ (731220104019), M.VIGNESH (731220104028) " who carried out the project work under my supervision.

SIGNATURE

Dr.N.SATHYABALAJI M.E.Ph.D.,M.I.S.T.E
ASSOCIATE PROFESSOR
HEAD OF THE DEPARTMENT
Dept.of Computer Science and Engineering
J.K.K.Munirajah College of Technology
T.N.Palayam

SIGNATURE

Dr.S.B. MANOOJ KUMAR.M.E.,Ph.D
ASSOCIATE PROFESSOR
SUPERVISOR
Dept of Computer Science and Engineering
J.K.K.Munirajah college of technology
T.N.Palayam

Submitted for the Viva-Voce examination held on 30.03.2023 - FN

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PRINCIPAL
JKK MUNIRAJAH COLLEGE
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T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).

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T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506.

ANNA UNIVERSITY:: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report on "ELDERWARE:AN EDGE COMPUTING ENABLED SMART CARE WEARABLES FOR ELDER" is the Bonafide work of "A.DEEPAK(731220205004),R.RAMKUMAR(731220205019),K.G.SHIJINKUMR (731220205021)" who carried out the project work under my supervision.

SIGNATURE	SIGNATURE
Dr.N.SATHYABALAJI.,M.E.Ph.D.,M.I.S.T.E	Mr.N.VIJAYANANTH.,M.E.,
ASSOCIATE PROFESSOR	ASSISTANT PROFESSOR
HEAD OF THE DEPARTMENT	SUPERVISOR
Dept.of Information Technology	Dept.of Information Technology
J.K.K.Munirajah College of Technology	J.K.K.Munirajah College of Technology
T.N.Palayam	T.N.Palayam

Submitted for the Viva-Voce examination held on 30-05-2023

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ANNA UNIVERSITY:: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report on "FACE MASK PREDICTION" is the bonafide work of M. KARUNYAA (731220104010) , S.RAMYA (731220104021) and I.ROSHMA (731220104023)", who carried out the projectwork under my supervision.

SIGNATURE
Dr.N. SATHYABALAJI M.E.Ph.D., M.I.S.T. E.,
ASSOCIATE PROFESSOR
HEAD OF THE DEPARTMENT
Dept. Of Computer Science and Engineering
J.K.K. Munirajah College of Technology
T.N.Palayam.

SIGNATURE
Mrs.D.NIVETHINI.,M.TECH.,
ASSISTANT PROFESSOR
SUPERVISOR
Dept. of Information Technology
J.K.K.Munirajah College of Technology
T.N.palayam.

Submitted for the Viva-Voce examination held on 30-5-2023 (FN)

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OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).

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Accredited by NAAC with "A" grade
T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506.

BONAFIDE CERTIFICATE

Certified that this project report on " FACE RECOGNITION BASED ATTENDANCE SYSTEM" is the bonafide work of "KATHIRESAN K (731220104011), SIVALINGAM K (731220104024) , SUNDARAGANESAN K (731220104025)" who carried out the project work under my supervision.

SIGNATURE	SIGNATURE
Dr.N.SATHYABALAJI,M.E,Ph.D.,M.I.S.T.E	Mr.E.ANANTH.,M.E.,
ASSOCIATE PROFESSOR	ASSISTANT PROFESSOR
HEAD OF THE DEPARTMENT	SUPERVISOR
Dept.of Computer Science and Engineering	Dept.of Computer Science and Engineering
J.K.K.Munirajah College of Technology	J.K.K.Munirajah College of Technology
T.N.Palayam	T.N.Palayam

Submitted for the Viva-Voice examination held on 30/05/2023 FN

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OF TECHNOLOGY
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GOBI (Tk). ERODE (Dt).

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ANNA UNIVERSITY::CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report on " MEDICAL PRESCRIPTION HANDWRITTEN RECOGNITION USING CNN " is the bonafide work of "T.VINISHA(731220104029) , A.VINITHA (731220104030) " who carried out the project work under my supervision.

SIGNATURE	SIGNATURE
Dr.N. SATHYABALAJI M.E., Ph.D., M.I.S.T.E	Mrs. M. C. SAVITHRI M.E.,
ASSOCIATE PROFESSOR	ASSISTANT PROFESSOR
HEAD OF THE DEPARTMENT	SUPERVISOR
Dept.of Computer Science and Engineering	Dept.of Computer Science and Engineering
J.K.K.Munirajah College of Technology	J.K.K.Munirajah College of Technology
T.N.Palayam	T.N.Palayam

Submitted for the Viva-Voce examination held on 30-05-2023

INTERNAL EXAMINER

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T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506.

ANNA UNIVERSITY:: CHENNAI 600025
BONAFIDE CERTIFICATE

Certified that this project report on "FAKE NEWS DETECTION ON SOCIAL MEDIA" is the Bonafide work of "G.DHAMODARAN(731220104302),M.BOOPALAN (731220104301)"who carried out the project work undermy supervision.

SIGNATURE

Dr.N.SATHYABALAJI M.E.Ph.D.,M.I.S.T.E
ASSOCIATE PROFESSOR
HEAD OF THE DEPARTMENT
Dept.of Computer Science and Engineering
J.K.K .Munirajah College of Technology
T.N.Palayam

SIGNATURE

Dr.N.SATHYABALAJI M.E.Ph.D.,M.I.S.T.
ASSOCIATE PROFESSOR
SUPERVISOR
Dept.of Computer Science and Engineering
J.K.K.Munirajah College of Technology
T.N.palayam

Submitted for the Viva-Voce examination held on 30.05.2023/FN

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OF TECHNOLOGY
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GOBI (Tk), ERODE (Dt).

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Accredited by NAAC with "A" grade
T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506.

2.3.1 Problem Solving Techniques

Branch & Semester: INFORMATION TECHNOLOGY & VII semester

MINI PROJECT Batch:2022-2023

S.NO	Title of the Project	Project Members	Reg.No	Guide's Name	Dept	Relevance				
						Research	Environment	CasteStudy	Ethics	Others
1.	MRI BRAIN TUMOUR DETECTION	AJAYSRI. A PARVATHY.A SHILPA.C	731220205001 731220205017 731220205303	Mrs.M.RENUKADEVI	IT	✓	✓	✓	✓	
2.	IOT BASED HOUSEHOLD HEALTH SAFETY SYSTEM	DEEPAK.A RAMKUMAR.R SHIJIN KUMAR.K.G	731220205004 731220205019 731220205021	Mr.E.VIJAYANANTH	IT		✓		✓	
3.	FLOOD MONITORING AND ALERTING SYSTEM	DHINESHKUMAR .M DINESH.S MUTHUKUMAR.G	731220205007 731220205008 731220205015	Mr.E.VIJAYANANTH	IT	✓	✓	✓		
4.	VIRTUAL REALITY TOURISM	GOKUL.S LENA TAMILVANAN.G RAVI SANKARAN.N	731220104005 731220104009 731220104022	Dr.N.SATHYABALAJI	IT		✓	✓	✓	
5.	HEALTH MONITORING SYSTEM ANALYSIS AND MEDICINES	KALAISELVI.K PRIYANKA.S THANGESHWARI.G	731220205011 731220205018 731220205024	Mrs.P.SANGEETHA	IT	✓	✓			
6.	BUS TRACKING APPLICATION	KAVIN.P PANDIYARAJ.C POORANESHWARAN .N	731220205012 731220205016 731220205301	Dr.N.SATHYABALAJI	IT		✓		✓	

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GOBI (Tk), ERODE (Dt).

7.	IOT BASED SMART ENERGY METER	MAYILRAJ.V SRIRAM.V RAVINDHIRAN.R	731220205014 731220205023 731220205302	Dr.N.SATHYABALAJI	IT		✓		✓	

ANNA UNIVERSITY::CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report on "MRI BRAIN TUMOR DETECTION USING DEEP LEARNING" is the bonafide work of "A.AJAYSRI (731219205001), A.PARVATHY (731219205017) and C.SHILPA (731220205303) who carried out the project work Under my supervision.

SIGNATURE
Dr.N.SATHYABALAJI.M.E.,Ph.D,M.I.S.T.E,
ASSOCIATE PROFESSOR
HEAD OF THE DEPARTMENT
Dept.of Information Technology
J.K.K.Munirajah College of Technology
T.N.Palayam

SIGNATURE
Mrs.M.RENUKADEVI.M.E,
ASSISTANT PROFESSOR
SUPERVISOR
Dept.of Information Technology
J.K.K.Munirajah College Technology
T.N.palayam

Submitted for the Viva-Voce examination held on 30.05.2023

INTERNAL EXAMINER

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OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).

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ANNA UNIVERSITY:: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report on "ELDERWARE:AN EDGE COMPUTING ENABLED SMART CARE WEARABLES FOR ELDER" is the Bonafide work of "A.DEEPAK(731220205004),R.RAMKUMAR(731220205019),K.G.SHIJINKUMR (731220205021)" who carried out the project work under my supervision.

SIGNATURE	SIGNATURE
Dr.N.SATHYABALAJI.,M.E.Ph.D.,M.I.S.T.E	Mr.N.VIJAYANANTH.,M.E.,
ASSOCIATE PROFESSOR	ASSISTANT PROFESSOR
HEAD OF THE DEPARTMENT	SUPERVISOR
Dept.of Information Technology	Dept.of Information Technology
J.K.K.Munirajah College of Technology	J.K.K.Munirajah College of Technology
T.N.Palayam	T.N.Palayam

Submitted for the Viva-Voce examination held on 30-05-2023

INTERNAL EXAMINER

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ii

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ANNA UNIVERSITY::CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report on "FLOOD MONITORING AND ALERTING SYSTEM" is the bonafide work of "M.DHINESHKUMAR (731220205007), S.DINESH (731220205008) and G.MUTHUKUMAR (731220205015)" who carried out the project work Under my supervision.

SIGNATURE

Dr.N.SATHYABALAJI M.E.Ph.D.,M.I.S.T.E
ASSOCIATE PROFESSOR
HEAD OF THE DEPARTMENT
Dept.of Information Technology
J.K.K.Munirajah College of Technology
T.N.Palayam.

SIGNATURE

Mr.E.VIJAYANANTH M.E.,
ASSISTANT PROFESSOR
SUPERVISOR
Dept.of Information Technology
J.K.K.Munirajah College of Technology
T.N.Palayam.

Submitted for the Viva-Voce examination held on 30-5-23 AN

INTERNAL EXAMINER

EXTERNAL EXAMINER

ii

PRINCIPAL
JKK MUNIRAJAH COLLEGE
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T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506.

ANNA UNIVERSITY: CHENNAI 600 025

BONAFIDE CERTIFICATE

Certified that this project report on "VIRTUAL REALITY TOURISM" is the Bonafide work of "S. GOKUL (731220205009) and G. LENATAMILVANAN (731220205013) and N. RAVISANKARAN (731220205020)," who carried out the project work under My supervision.

SIGNATURE	SIGNATURE
Dr.N. SATHYABALAJIM.E.Ph.D.,M.I.S.T.E	Dr.N. SATHYABALAJIM.E.Ph.D.,M.I.S.T.E
ASSOCIATE PROFESSOR	ASSOCIATE PROFESSOR
HEAD OF THE DEPARTMENT	SUPERVISOR
Dept. of Information Technology	Dept of Information Technology
J.K.K. Munirajah College of Technology	J.K.K. Munirajah College of Technology
T.N. Palayam	T.N. Palayam

Submitted for the Viva-Voce examination held on 30.05.2023

INTERNAL EXAMINER

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OF TECHNOLOGY
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GOBI (Tk), ERODE (Dt).

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Accredited by NAAC with "A" grade
T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506.

BONAFIDECERTIFICATE

Certified that this project report on **"IOT BASED HEALTH MONITORING SYSTEM DEVELOPMENT AND ANALYSIS"** is the bonafide work of **"K.KALAISELVI (731220205011) , S.PRIYANKA (731220205018) , G.THANGESHWARI (731220205024)"** who carried out the project work under my supervision

SIGNATURE	SIGNATURE
Dr.N.SATHYABALAJI,M.E,Ph.D.,M.I.S.T.E	Mrs.P.SANGEETHA.,M.E.,
ASSOCIATE PROFESSOR	ASSISTANT PROFESSOR
HEAD OF THEDEPARTMENT	SUPERVISOR
Dept.of Information Technology	Dept.of Information Technology
J.K.K.Munirajah College of Technology	J.K.K.Munirajah College of Technology
T.N.Palayam	T.N.palayam

Submitted for the Viva-Voce examination held on 30-05-2023 FN

INTERNALEXAMINER

EXTERNALEXAMINER

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JKK MUNIRAJAH COLLEGE OF TECHNOLOGY
T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).

J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY

Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai.
Accredited by NAAC with "A" grade
T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506.

BONAFIDE CERTIFICATE

Certified that this project report on "COLLEGE BUS TRACKING APPLICATION" is the bonafide work of "P.KAVIN (731220205012) , C.PANDIYARAJ (731220205016) , N.POORANESHWARAN (731220205301)" who carried out the project work under my supervision

SIGNATURE	SIGNATURE
Dr.N.SATHYABALAJI,M.E,Ph.D.,	Dr.N.SATHYABALAJI,M.E,Ph.D.,
M.I.S.T.E.,	M.I.S.T.E.,
ASSOCIATE PROFESSOR	ASSISTANT PROFESSOR
HEAD OF THEDEPARTMENT	SUPERVISOR
Dept.of Information Technology	Dept.of Information Technology
J.K.K.Munirajah College of Technology	J.K.K.Munirajah College of Technology
T.N.Palayam	T.N.palayam

Submitted for the Viva-Voce examination held on 30/05/23 - AN

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EXTERNALEXAMINER

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OF TECHNOLOGY
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GOBI (Tk). ERODE (Dt).

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T.N. Palayam (Po), Gobi (Tk), Erode (Dt) – 638 506.

ANNA UNIVERSITY:: CHENNAI600 025

BONAFIDE CERTIFICATE

Certified that this project report on "PROGRAMMABLE ENERGY METER READER" is the Bona fide work of "V.MAYILRAJ(731220205014), V.SRIRAM(731220205023),R.RAVINDHIRAN(731220205302)"Who carried out the project work under my supervision.

SIGNATURE	SIGNATURE
Dr.N.SATHYABALAJIM.E.Ph.D.,M.I.S.T.E	Dr.N.SATHYABALAJIM.E.Ph.D.,M.I.S.T.E
ASSOCIATE PROFESSOR	ASSOCIATE PROFESSOR
HEAD OF THE DEPARTMENT	SUPERVISOR
Dept. of Information Technoloy	Dept. of Information Technoloy
J.K.K. Munirajah College of Technology	J.K.K. Munirajah College of Technology
T.N.palayam	T.N.palayam

Submitted for the Viva-Voce examination held on 30/05/2023/AN

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3.3 CASE STUDIES

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T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).

3.3 CASE STUDIES

DEPARTMENT OF M.E-COMPUTER SCIENCE AND ENGINEERING

S.NO	NAME OF THE CASE STUDY	OUTCOME REPORT	TOTAL STRENGTH OF STUDENTS
1.	E-commerce Cloud Migration with Security	Seamless cloud migration, improved scalability, cost-efficiency, and agility with robust security measures.	12

E-COMMERCE CLOUD MIGRATION WITH SECURITY CASE STUDY

CASE STUDY: E-COMMERCE CLOUD MIGRATION WITH SECURITY FOCUS

BACKGROUND:

An established global e-commerce company, XYZ Retail, decided to migrate its operations to the cloud to enhance scalability, reduce operational costs, and improve overall agility. However, given the sensitive nature of customer data and the ever-evolving threat landscape, the organization placed a strong emphasis on integrating robust security measures throughout the migration process.

CHALLENGES:

- **Data Protection:**
  - Ensuring the protection of sensitive customer information during and after the migration process.
- **Compliance:**
  - Adhering to industry-specific regulatory requirements and data protection standards.
- **Continuous Monitoring:**
  - Establishing mechanisms for continuous monitoring and threat detection

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in the cloud environment.

SOLUTIONS:

- **Multi-Layered Encryption:**
  - Implemented end-to-end encryption for data in transit and at rest.
  - Leveraged encryption key management systems to ensure secure key storage and access.
- **Identity and Access Management (IAM):**
  - Established strict IAM policies to control access to cloud resources.
  - Implemented role-based access controls (RBAC) to ensure the principle of least privilege.
- **Regular Security Audits:**
  - Conducted thorough security audits and vulnerability assessments before, during, and after the migration.
  - Engaged third-party security experts to perform penetration testing to identify and address potential weaknesses.
- **Comprehensive Compliance Framework:**
  - Developed a compliance framework aligned with industry standards and regulations.
  - Regularly updated policies and procedures to ensure ongoing compliance.
- **Incident Response and Recovery Plan:**
  - Formulated a detailed incident response and recovery plan to address any security incidents promptly.
  - Conducted regular tabletop exercises to test and refine the incident response procedures.

OUTCOME:

- **Successful Cloud Migration:**

  The organization seamlessly migrated its operations to the cloud, experiencing improved scalability and agility.
- **Enhanced Data Security:**

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Customer data remained secure throughout the migration process, mitigating the risk of data breaches.

- **Cost-Efficiency:**

  Achieved cost savings through the cloud's pay-as-you-go model while maintaining security measures.

- **Adherence to Compliance Standards:**

  XYZ Retail consistently met and exceeded industry-specific regulatory requirements, fostering trust among customers and partners.

- **Proactive Threat Detection:**

  Continuous monitoring and proactive threat detection mechanisms helped identify and address potential security issues before they could escalate.

This case study highlights how a meticulous approach to security, encompassing encryption, IAM, compliance, and incident response planning, can facilitate a secure and successful migration to the cloud for e-commerce organizations.

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T.N. PALAYAM (Po)-638 506.
GOBI (Tk), ERODE (Dt).