

**ACADEMIC YEAR (2023-2024)****J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY  
T.N.Palayam(po),Gobi(tk)-638506, Erode(dt).****Metric  
No 1.3.2**

S.No	Name of the course	course code	programme offering	Experiential learning			Number of students
				project work	field work	inplant training	
<b>(2023-2024) Regulation-2017</b>							
1	Project Work	CS8811	COMPUTER SCIENCE AND ENGINEERING	✓			23
2	Software Engineering	CS8494	COMPUTER SCIENCE AND ENGINEERING	✓			23
3	Computer Networks	CS8591	COMPUTER SCIENCE AND ENGINEERING	✓			5
4	Object Oriented Analysis and Design	CS8592	COMPUTER SCIENCE AND ENGINEERING	✓			23
5	Artificial Intelligence	CS8691	COMPUTER SCIENCE AND ENGINEERING	✓			6
6	Mobile Computing	CS8601	COMPUTER SCIENCE AND ENGINEERING	✓			5
7	Cryptography and Network Security	CS8792	COMPUTER SCIENCE AND ENGINEERING	✓			3
8	Cloud Computing	CS8791	COMPUTER SCIENCE AND ENGINEERING	✓			6

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S.No	Name of the course	course code	programme offering	Experiential learning			Number of students
				project work	field work	inplant training	
(2023-2024) Regulation-2021							
1	Problem Solving and Python Programming	GE3151	COMPUTER SCIENCE AND ENGINEERING			✓	32
2	Foundations of Data Science	CS3352	COMPUTER SCIENCE AND ENGINEERING			✓	27
3	Artificial Intelligence and Machine Learning	CS3491	COMPUTER SCIENCE AND ENGINEERING			✓	20
4	Big Data Analytics	CCS334	COMPUTER SCIENCE AND ENGINEERING			✓	28

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**COMPUTER SCIENCE AND ENGINEERING**

**2023-2024**

S.N O	REG.NO	STUDENT NAME	PROJECT	INTERNSHIP	FIELD VISIT
1	731220104001	ABINAYA G	✓		✓
2	731220104003	BALU R	✓	✓	✓
3	731220104004	CHARLES WILLIAM.L	✓		
4	731220104005	DEEPAK.S	✓	✓	
5	731220104006	DEEPIKA.S	✓	✓	✓
6	731220104007	DHARANISELVI. M	✓		✓
7	731220104009	JAGATHESWARAN.P	✓		✓
8	731220104010	KARUNYAA.M	✓		✓
9	731220104011	KATHIRESAN.K	✓		✓
10	731220104012	KAVIN.M	✓	✓	
11	731220104014	LOGANATHAN.T	✓		
12	731220104019	NIRMALRAJ.S	✓		
13	731220104021	RAMYA.S	✓		✓
14	731220104022	ROHITH.R	✓		
15	731220104023	ROSHMA I	✓		
16	731220104024	SIVALINGAM.K	✓		
17	731220104025	SUNDARAGANESAN.K	✓		✓

  
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18	731220104028	VIGNESH.M	✓		
19	731220104029	VINISHA.T	✓	✓	✓
20	731220104030	VINITHA.A	✓	✓	✓
21	731220104031	VINOTHKUMAR.R	✓		✓
22	731220104301	BOOPALAN.M	✓	✓	✓
23	731220104302	DHAMODARAN.G	✓		✓
24	731221104001	AADHI SURYA K		✓	✓
25	731221104004	ARULMURUGAN S		✓	✓
26	731221104005	BABUSHANKAR S		✓	✓
27	731221104007	BAMBAVASAN V		✓	✓
28	731221104008	CHANDRA PRAKASH K		✓	✓
29	731221104009	DHAKSHINA MOORTHY E		✓	✓
30	731221104012	DURGA K		✓	✓
31	731221104013	GUNASEKARAN P		✓	✓
32	731221104014	GUNASEKARAN S		✓	✓
33	731221104015	HARIPRABHA V		✓	✓
34	731221104017	KAMALESH K		✓	✓
35	731221104021	LALITHA T		✓	✓
36	731221104022	MADHAN G		✓	✓
37	731221104025	MOUSIKA S		✓	✓

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38	731221104026	NANDHINI P		✓	✓
39	731221104027	PANDIYARAJ P		✓	✓
40	731221104028	PRIYA DHARSHINI S			✓
41	731221104029	RAVI KUMAR P		✓	✓
42	731221104031	RUBIKA G		✓	✓
43	731221104033	SHYAMKUMAR S		✓	✓
44	731221104034	SENTHILVEL S		✓	
45	731221104035	SUGANYA K		✓	✓
46	731221104036	SURYA S		✓	✓
47	731221104037	SUSHMINA M		✓	✓
48	731221104038	VASANTHKUMAR S		✓	✓
49	731221104039	VIGNESH M		✓	✓
50	731221104040	YAMUNA K		✓	✓
51	731221104301	AMUTHAMALAR R		✓	✓
52	731221104302	BHARANI DHARAN.M		✓	✓
53	731221104303	GAYATHRI R		✓	
54	731221104305	NANDINI M		✓	
55	731221104306	SNEHA L		✓	
56	731221104307	SRINIVAS V		✓	✓
57	731221104308	SUBASHINI P		✓	

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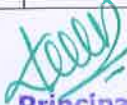
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58	731222104701	NIKETHA S		✓	
59	731222104001	ABINAYA P		✓	
60	731222104002	BHARATH KRISHNAN V		✓	
61	731222104003	CHANDRAKALA N		✓	
62	731222104004	CHANDRU K		✓	
63	731222104005	DEEPA T		✓	
64	731222104006	DEVADHARSHINI M		✓	
65	731222104008	ELAKKIYA K		✓	
66	731222104009	GIBSON SHANTHAKUMAR R		✓	
67	731222104010	GOKILA S		✓	
68	731222104012	HAFILA A		✓	
69	731222104013	INIKA C		✓	
70	731222104014	JAYASHREE K		✓	
71	731222104015	JAYASREE D		✓	
72	731222104016	JAYASURYA B		✓	
73	731222104018	JOTHI N		✓	
74	731222104019	JOTHI S		✓	
75	731222104020	KARTHI K		✓	
76	731222104021	KARUNYA K		✓	
77	731222104022	KEERTHIGA V		✓	

  
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78	731222104023	LAKSHMI B		✓	
79	731222104024	LINGARAJU K		✓	
80	731222104025	NEETHU S		✓	
81	731222104026	NIVETHA P		✓	
82	731222104027	POOMATHI S		✓	
83	731222104029	PUSHPASRI M		✓	
84	731222104030	RAKSHITHA V		✓	
85	731222104031	SAHEER H		✓	
86	731222104032	SANJAIKUMAR S		✓	
87	731222104033	SANJAY V		✓	
88	731222104034	SANJAY KUMAR S		✓	
89	731222104035	SATHIYALAKSHMI M		✓	
90	731222104036	SHAKTHI S		✓	
91	731222104038	SIDHARAJ S		✓	
92	731222104039	SOWDESWARI A		✓	
93	731222104040	SOWNDHAR D		✓	
94	731222104041	SUMITHRA S		✓	
95	731222104302	GOWTHAM A		✓	

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**COMPUTER SCIENCE AND ENGINEERING**

S.No	Name of the Course that include experiential learning through Project Work/Internship/Field Visit
1	Software Engineering
2	Computer Networks
3	Object Oriented Analysis and Design
4	Artificial Intelligence
5	Mobile Computing
6	Cryptography and Network Security
7	Cloud Computing
8	Problem Solving and Python Programming
9	Foundations of Data Science
10	Artificial Intelligence and Machine Learning
11	Big Data Analytics

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# PROJECT

CS8494

**SOFTWARE ENGINEERING**

L T P C  
3 0 0 3

**OBJECTIVES:**

- To understand the phases in a software project
- To understand fundamental concepts of requirements engineering and Analysis Modeling.
- To understand the various software design methodologies
- To learn various testing and maintenance measures

**UNIT I SOFTWARE PROCESS AND AGILE DEVELOPMENT 9**

Introduction to Software Engineering, Software Process, Perspective and Specialized Process Models—Introduction to Agility—Agile process—Extreme programming—XP Process.

**UNIT II REQUIREMENTS ANALYSIS AND SPECIFICATION 9**

Software Requirements: Functional and Non-Functional, User requirements, System requirements, Software Requirements Document Requirement Engineering Process: Feasibility Studies, Requirements elicitation and analysis, requirements validation, requirements management—Classical analysis: Structured system Analysis, Petri Nets—Data Dictionary.

**UNIT III SOFTWARE DESIGN 9**

Design process — Design Concepts—Design Model— Design Heuristic — Architectural Design —Architectural styles, Architectural Design, Architectural Mapping using Data Flow— User Interface Design: Interface analysis, Interface Design —Component level Design: Designing Class based components, traditional Components.

**UNIT IV TESTING AND MAINTENANCE 9**


Software testing fundamentals—Internal and external views of Testing—white box testing - basis path testing—control structure testing—black box testing— Regression Testing — Unit Testing — Integration Testing— Validation Testing— System Testing And Debugging—Software Implementation Techniques: Coding practices—Refactoring—Maintenance and Reengineering—BPR model—Reengineering process model—Reverse and Forward Engineering.

**UNIT V PROJECT MANAGEMENT 9**

Software Project Management: Estimation – LOC, FP Based Estimation, Make/Buy Decision COCOMO I & II Model – Project Scheduling – Scheduling, Earned Value Analysis Planning —Project Plan, Planning Process, RFP Risk Management – Identification, Projection - Risk Management—Risk Identification—RMMM Plan—CASE TOOLS

**TOTAL: 45 PERIODS**

**OUTCOMES:**

  
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**On Completion of the course, the students should be able to:**

- Identify the key activities in managing a software project.
- Compare different process models.
- Concepts of requirements engineering and Analysis Modeling.
- Apply systematic procedure for software design and deployment.
- Compare and contrast the various testing and maintenance.
- Manage project schedule, estimate project cost and effort required.

**TEXTBOOKS:**

1. Roger S. Pressman, —Software Engineering— A Practitioner's Approach, Seventh Edition, McGraw-Hill International Edition, 2010.
2. Ian Sommerville, —Software Engineering, 9th Edition, Pearson Education Asia, 2011.

**REFERENCES:**

1. Rajib Mall, —Fundamentals of Software Engineering, Third Edition, PHI Learning Private Limited, 2009.
2. Pankaj Jalote, —Software Engineering, A Precise Approach, Wiley India, 2010.
3. Kelkar S. A., —Software Engineering, Prentice Hall of India Pvt Ltd, 2007.
4. Stephen R. Schach, —Software Engineering, Tata McGraw-Hill Publishing Company Limited, 2007.
5. <http://nptel.ac.in/>.



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CS8691

**ARTIFICIAL INTELLIGENCE**

L T P C  
3 0 0 3

**OBJECTIVES:**

- To understand the various characteristics of Intelligent agents
- To learn the different search strategies in AI
- To learn to represent knowledge in solving AI problems
- To understand the different ways of designing software agents
- To know about the various applications of AI.

**UNIT I INTRODUCTION**

9

Introduction—Definition-Future of Artificial Intelligence—Characteristics of Intelligent Agents—Typical Intelligent Agents—Problem Solving Approach to Typical AI problems.

**UNIT II PROBLEM SOLVING METHODS**

9

Problem solving Methods - Search Strategies- Uninformed - Informed - Heuristics - Local Search Algorithms and Optimization Problems- Searching with Partial Observations- Constraint Satisfaction Problems—Constraint Propagation-Backtracking Search-Game Playing- Optimal Decisions in Games—Alpha-Beta Pruning-Stochastic Games

**UNIT III KNOWLEDGE REPRESENTATION**

9

First Order Predicate Logic – Prolog Programming – Unification – Forward Chaining- Backward Chaining – Resolution – Knowledge Representation - Ontological Engineering- Categories and Objects – Events - Mental Events and Mental Objects - Reasoning Systems for Categories - Reasoning with Default Information

**UNIT IV SOFTWARE AGENTS**

9

Architecture for Intelligent Agents—Agent communication—Negotiation and Bargaining— Argumentation among Agents—Trust and Reputation in Multi-agents systems.

**UNIT V APPLICATIONS**

9

AI applications – Language Models – Information Retrieval- Information Extraction – Natural Language Processing - Machine Translation – Speech Recognition – Robot – Hardware – Perception—Planning—Moving

**TOTAL: 45 PERIODS**

**OUTCOMES:**

Up on completion of the course, the students will be able to:

  
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- Use appropriate search algorithms for any AI problem
- Represent a problem using first order and predicate logic
- Provide the apt agent strategy to solve a given problem
- Design software agents to solve a problem
- Design applications for NLP that use Artificial Intelligence.

#### TEXTBOOKS:

1. S.Russell and P.Norvig, "Artificial Intelligence: A Modern Approach", Prentice Hall, Third Edition, 2009.
2. I.Bratko, —Prolog: Programming for Artificial Intelligence, Fourth edition, Addison-Wesley Educational Publishers Inc., 2011.

#### REFERENCES:

1. M.Tim Jones, —Artificial Intelligence: A Systems Approach (Computer Science), Jones and Bartlett Publishers, Inc.; First Edition, 2008
2. Nils J.Nilsson, —The Quest for Artificial Intelligence, Cambridge University Press, 2009.
3. William F.Clocksin and Christopher S.Mellish, |Programming in Prolog: Using the ISO Standard|, Fifth Edition, Springer, 2003.
4. Gerhard Weiss, —Multi Agent Systems, Second Edition, MIT Press, 2013.
5. David L.Poole and Alan K.Mackworth, —Artificial Intelligence: Foundations of Computational Agents, Cambridge University Press, 2010.



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**OBJECTIVES:**

- To understand the concept of cloud computing.
- To appreciate the evolution of cloud from the existing technologies.
- To have knowledge on the various issues in cloud computing.
- To be familiar with the lead players in cloud.
- To appreciate the emergence of cloud as the next generation computing paradigm.

**UNIT I INTRODUCTION**

9

Introduction to Cloud Computing — Definition of Cloud — Evolution of Cloud Computing — Underlying Principles of Parallel and Distributed Computing — Cloud Characteristics — Elasticity in Cloud — On-demand Provisioning.

**UNIT II CLOUD ENABLING TECHNOLOGIES**

10

Service Oriented Architecture — REST and Systems of Systems — Web Services — Publish-Subscribe Model — Basics of Virtualization — Types of Virtualization — Implementation Levels of Virtualization — Virtualization Structures — Tools and Mechanisms — Virtualization of CPU — Memory — I/O Devices — Virtualization Support and Disaster Recovery.

**UNIT III CLOUD ARCHITECTURE, SERVICES AND STORAGE**

8

Layered Cloud Architecture Design — NIST Cloud Computing Reference Architecture — Public, Private and Hybrid Clouds — IaaS — PaaS — SaaS — Architectural Design Challenges — Cloud Storage — Storage-as-a-Service — Advantages of Cloud Storage — Cloud Storage Providers — S3.

**UNIT IV RESOURCE MANAGEMENT AND SECURITY IN CLOUD**

10


Inter Cloud Resource Management — Resource Provisioning and Resource Provisioning Methods — Global Exchange of Cloud Resources — Security Overview — Cloud Security Challenges — Software-as-a-Service Security — Security Governance — Virtual Machine Security — IAM — Security Standards.

**UNIT V CLOUD TECHNOLOGIES AND ADVANCEMENTS**

8

Hadoop — MapReduce — Virtual Box -- Google App Engine — Programming Environment for Google App Engine — Open Stack — Federation in the Cloud — Four Levels of Federation — Federated Services and Applications — Future of Federation.

TOTAL: 45 PERIODS

  
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## **OUTCOMES:**

### **On Completion of the course, the students should be able to:**

- Articulate the main concepts, key technologies, strengths and limitations of cloud computing.
- Learn the key and enabling technologies that help in the development of cloud.
- Develop the ability to understand and use the architecture of compute and storage cloud, service and delivery models.
- Explain the core issues of cloud computing such as resource management and security.
- Be able to install and use current cloud technologies.
- Evaluate and choose the appropriate technologies, algorithms and approaches for implementation and use of cloud.

## **TEXTBOOKS:**

1. Kai Hwang, Geoffrey C. Fox, Jack G. Dongarra, "Distributed and Cloud Computing, From Parallel Processing to the Internet of Things", Morgan Kaufmann Publishers, 2012.
2. Rittinghouse, John W., and James F. Ransome, —Cloud Computing: Implementation, Management and Security, CRC Press, 2017.

## **REFERENCES:**

1. Rajkumar Buyya, Christian Vecchiola, S. Thamarai Selvi, —Mastering Cloud Computing, Tata Mcgraw Hill, 2013.
2. Toby Velte, Anthony Velte, Robert Elsenpeter, "Cloud Computing - A Practical Approach", Tata Mcgraw Hill, 2009.
3. George Reese, "Cloud Application Architectures: Building Applications and Infrastructure in the Cloud : Transactional Systems for EC2 and Beyond (Theory in Practice)", O'Reilly, 2009.



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CS8792

**CRYPTOGRAPHY AND NETWORK SECURITY**

L T P C  
3 0 0 3

**OBJECTIVES:**

- To understand Cryptography Theories, Algorithms and Systems.
- To understand necessary Approaches and Techniques to build protection mechanisms in order to secure computer networks.

**UNIT I INTRODUCTION**

9

Security trends - Legal, Ethical and Professional Aspects of Security, Need for Security at Multiple levels, Security Policies - Model of network security - Security attacks, services and mechanisms - OSI security architecture - Classical encryption techniques: substitution techniques, transposition techniques, steganography - Foundations of modern cryptography: perfect security - information theory - product cryptosystem - cryptanalysis.

**UNIT II SYMMETRIC KEY CRYPTOGRAPHY**

9

MATHEMATICS OF SYMMETRIC KEY CRYPTOGRAPHY: Algebraic structures - Modular arithmetic - Euclid's algorithm - Congruence and matrices - Groups, Rings, Fields - Finite fields - SYMMETRIC KEY CIPHERS: SDES - Block cipher Principle of DES - Strength of DES - Differential and linear cryptanalysis - Block cipher design principles - Block cipher mode of operation - Evaluation criteria for AES - Advanced Encryption Standard - RC4 - Key distribution.

**UNIT III PUBLIC KEY CRYPTOGRAPHY**

9

MATHEMATICS OF ASYMMETRIC KEY CRYPTOGRAPHY: Primes - Primality Testing - Factorization - Euler's totient function, Fermat's and Euler's Theorem - Chinese Remainder Theorem - Exponentiation and Algorithm - ASYMMETRIC KEY CIPHERS: RSA cryptosystem - Key distribution - Key management - Diffie Hellman key exchange - ElGamal cryptosystem - Elliptic curve arithmetic - Elliptic curve cryptography.

**UNIT IV MESSAGE AUTHENTICATION AND INTEGRITY**

9

Authentication requirement - Authentication function - MAC - Hash function - Security of hash function and MAC - SHA - Digital signature and authentication protocols - DSS - Entity Authentication: Biometrics, Passwords, Challenge Response protocols - Authentication applications - Kerberos, X.509

**UNIT V SECURITY PRACTICE AND SYSTEM SECURITY**

9

Electronic Mail security - PGP, S/MIME - IP security - Web Security -



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SYSTEM SECURITY: Intruders—Malicious software—viruses—Firewalls.

**TOTAL 45 PERIODS**

**OUTCOMES:**

**At the end of the course, the student should be able to:**

- Understand the fundamental of network security, security architecture, threats and vulnerabilities
- Apply the different cryptographic operations of symmetric cryptographic algorithms
- Apply the different cryptographic operations of public key cryptography
- Apply the various Authentication schemes to simulated different applications.
- Understand various Security practices and System security standards

**TEXTBOOK:**

1. William Stallings, Cryptography and Network Security: Principles and Practice, PHI 3rd Edition, 2006.

**REFERENCES:**

1. C K Shyamala, N Harini and Dr. T R Padmanabhan: Cryptography and Network Security, Wiley India Pvt. Ltd
2. Behrouz A. Foruzan, Cryptography and Network Security, Tata McGraw Hill 2007.
3. Charlie Kaufman, Radia Perlman, and Mike Speciner, Network Security: PRIVATE Communication in a PUBLIC World, Prentice Hall, ISBN 0-13-046019-2



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CS8601

**MOBILE COMPUTING**

L T P C


3 0 0 3

**OBJECTIVES:**

- To understand the basic concepts of mobile computing.
- To learn the basics of mobile telecommunications system.
- To be familiar with the network layer protocols and Ad-Hoc networks.
- To know the basis of transport and application layer protocols.
- To gain knowledge about different mobile platforms and application development.

<b>UNIT I</b>	<b>INTRODUCTION</b>	<b>9</b>
Introduction to Mobile Computing – Applications of Mobile Computing- Generations of Mobile Communication Technologies- Multiplexing – Spread spectrum -MAC Protocols –SDMA-TDMA-FDMA-CDMA		
<b>UNIT II</b>	<b>MOBILE TELECOMMUNICATIONS SYSTEM</b>	<b>9</b>
Introduction to Cellular Systems-GSM–Services & Architecture–Protocols– Connection Establishment–Frequency Allocation–Routing–Mobility Management– Security–GPRS-UMTS–Architecture–Handover-Security		
<b>UNIT III</b>	<b>MOBILE NETWORK LAYER</b>	<b>9</b>
Mobile IP–DHCP–AdHoc–Proactive protocol-DSDV, Reactive Routing Protocols– DSR, AODV, Hybrid routing–ZRP, Multicast Routing- ODMRP, Vehicular AdHoc networks(VANET)–MANETVs VANET–Security.		
<b>UNIT IV</b>	<b>MOBILE TRANSPORT AND APPLICATION LAYER</b>	<b>9</b>
Mobile TCP–WAP–Architecture–WDP–WTLS–WTP–WSP–WAE–WTA Architecture –WML		
<b>UNIT V</b>	<b>MOBILE PLATFORMS AND APPLICATIONS</b>	<b>9</b>
Mobile Device Operating Systems – Special Constraints & Requirements – Commercial Mobile Operating Systems – Software Development Kit: iOS, Android, BlackBerry, Windows Phone–MCommerce–Structure–Pros & Cons- Mobile Payment System–Security Issues		

**TOTAL 45 PERIODS**

  
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(Autonomous)  
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Erode (Dt) - 638 506.

## OUTCOMES:

At the end of the course, the students should be able to:


- Explain the basics of mobile telecommunication systems
- Illustrate the generation of telecommunication systems in wireless networks
- Determine the functionality of MAC, network layer and identify routing protocol for given Ad hoc network
- Explain the functionality of Transport and Application layers
- Develop a mobile application using android/blackberry/ios/Windows SDK

## TEXTBOOKS:

1. Jochen Schiller, — Mobile Communications I, PHI, Second Edition, 2003.
2. Prasant Kumar Pattnaik, Rajib Mall, — Fundamentals of Mobile Computing I, PHI Learning Pvt. Ltd, New Delhi—2012

## REFERENCES

1. Dharma Prakash Agarwal, Qing and An Zeng, "Introduction to Wireless and Mobile systems", Thomson Asia Pvt Ltd, 2005.
2. Uwe Hansmann, Lothar Merk, Martin S. Nicklons and Thomas Stober, — Principles of Mobile Computing I, Springer, 2003.
3. William. C. Y. Lee, — Mobile Cellular Telecommunications - Analog and Digital Systems I, Second Edition, Tata McGraw Hill Edition, 2006.
4. C.K. Toh, — Ad Hoc Mobile Wireless Networks I, First Edition, Pearson Education, 2002.
5. Android Developers: <http://developer.android.com/index.html>
6. Apple Developer: <https://developer.apple.com/>
7. Windows Phone DevCenter: <http://developer.windowsphone.com>
8. Black Berry Developer: <http://developer.blackberry.com>

  
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**OBJECTIVES:**

- To understand the protocol layering and physical level communication.
- To analyze the performance of a network.
- To understand the various components required to build different networks.
- To learn the functions of network layer and the various routing protocols.
- To familiarize the functions and protocols of the Transport layer.

**UNIT I INTRODUCTION AND PHYSICAL LAYER 9**

Networks – Network Types – Protocol Layering – TCP/IP Protocol suite – OSI Model – Physical Layer: Performance – Transmission media – Switching – Circuit-switched Networks – Packet Switching.

**UNIT II DATA-LINK LAYER & MEDIA ACCESS 9**

Introduction – Link-Layer Addressing – DLC Services – Data-Link Layer Protocols – HDLC – PPP – Media Access Control – Wired LANs: Ethernet – Wireless LANs – Introduction – IEEE 802.11, Bluetooth – Connecting Devices.

**UNIT III NETWORK LAYER 9**

Network Layer Services – Packet switching – Performance – IPv4 Addresses – Forwarding of IP Packets – Network Layer Protocols: IP, ICMP v4 – Unicast Routing Algorithms – Protocols – Multicasting Basics – IPv6 Addressing – IPv6 Protocol.

**UNIT IV TRANSPORT LAYER 9**

Introduction – Transport Layer Protocols – Services – Port Numbers – User Datagram Protocol – Transmission Control Protocol – SCTP.

**UNIT V APPLICATION LAYER 9**

WWW and HTTP – FTP – Email – Telnet – SSH – DNS – SNMP.

**TOTAL: 45 PERIODS**

**OUTCOMES:**

**On Completion of the course, the students should be able to:**

- Understand the basic layers and its functions in computer networks.
- Evaluate the performance of a network.
- Understand the basics of how data flows from one node to another.
- Analyze and design routing algorithms.
- Design protocols for various functions in the network.
- Understand the working of various application layer protocols.



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Erode (Dt) - 638 506.

**TEXTBOOK:**

1. Behrouz A. Forouzan, Data Communications and Networking, Fifth Edition  
TMH,2013.

**REFERENCES**

1. Larry L. Peterson, Bruce S. Davie, Computer Networks: A Systems Approach, Fifth Edition, Morgan Kaufmann Publishers Inc.,2012.
2. William Stallings, Data and Computer Communications, Tenth Edition, PearsonEducation,2013.
3. NaderF.Mir,ComputerandCommunicationNetworks,SecondEdition,Prentice Hall,2014.
4. Ying-Dar Lin, Ren-Hung Hwang and Fred Baker, Computer Networks: An OpenSourceApproach,McGrawHillPublisher,2011.
5. James F. Kurose, Keith W. Ross, Computer Networking, A Top-Down ApproachFeaturingthe Internet, SixthEdition,PearsonEducation,2013.



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J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

**OBJECTIVES:**

- To understand the fundamentals of object modeling
- To understand and differentiate Unified Process from other approaches.
- To design with static UML diagrams.
- To design with the UML dynamic and implementation diagrams.
- To improve the software design with design patterns.
- To test the software against its requirements specification

<b>UNIT I</b>	<b>UNIFIED PROCESS AND USE CASE DIAGRAMS</b>	<b>9</b>
Introduction to OOAD with OO Basics - Unified Process - UML diagrams - Use Case - Case study - the Next Gen POS system, Inception - Use case Modelling - Relating Use cases - include, extend and generalization - When to use Use-cases		
<b>UNIT II</b>	<b>STATIC UML DIAGRAMS</b>	<b>9</b>
Class Diagram - Elaboration - Domain Model - Finding conceptual classes and description classes - Associations - Attributes - Domain model refinement - Finding conceptual class Hierarchies - Aggregation and Composition - Relationship between sequenced diagrams and use cases - When to use Class Diagrams		
<b>UNIT III</b>	<b>DYNAMIC AND IMPLEMENTATION UML DIAGRAMS</b>	<b>9</b>
<b>Dynamic Diagrams</b> - UML interaction diagrams - System sequence diagram - Collaboration diagram - When to use Communication Diagrams - State machine diagram and Modelling - When to use State Diagrams - Activity diagram - When to use activity diagrams		
<b>Implementation Diagrams</b> - UML package diagram - When to use package diagrams - Component and Deployment Diagrams - When to use Component and Deployment diagrams		
<b>UNIT IV</b>	<b>DESIGN PATTERNS</b>	<b>9</b>
<b>GRASP:</b> Designing objects with responsibilities - Creator - Information expert - Low Coupling - High Cohesion - Controller <b>Design Patterns</b> - <b>creational</b> - factory method - <b>structural</b> - Bridge - Adapter - <b>behavioural</b> - Strategy - observer - Applying GoF design patterns - Mapping design to code		
<b>UNIT V</b>	<b>TESTING</b>	<b>9</b>
Object Oriented Methodologies - Software Quality Assurance - Impact of object orientation		

on Testing—Develop Test Cases and Test Plans

**TOTAL:45PERIODS**

**OUTCOMES:**

**At the end of the course, the students will be able to:**

- Express software design with UML diagrams
- Design software applications using OO concepts.
- Identify various scenarios based on software requirements
- Transform UML based software design into pattern based design using design patterns
- Understand the various testing methodologies for OO software

**TEXTBOOKS:**

1. Craig Larman, —Applying UML and Patterns: An Introduction to Object-Oriented Analysis and Design and Iterative Development II, Third Edition, Pearson Education, 2005.
2. Ali Bahrami-Object Oriented Systems Development -McGrawHill International Edition-1999

**REFERENCES:**

1. Erich Gamma, and Richard Helm, Ralph Johnson, John Vlissides, —Design patterns: Elements of Reusable Object-Oriented Software, Addison-Wesley, 1995.
2. Martin Fowler, —UML Distilled: A Brief Guide to the Standard Object Modeling Language, Third Edition, Addison Wesley, 2003.

  
**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



**CREDIT CARD TRANSACTION  
USING FACE RECOGNITION**



**A PROJECT REPORT**

*Submitted by*

<b>ABINAYA G</b>	<b>(731220104001)</b>
<b>DHARANISELVI M</b>	<b>(731220104007)</b>
<b>ROSHMA I</b>	<b>(731220104023)</b>

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*in*

**COMPUTER SCIENCE AND ENGINEERING**

**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY**

**T.N. PALAYAM, GOBI – 638506**

**ANNA UNIVERSITY: CHENNAI-600025**

**MAY 2024**

**Principal**

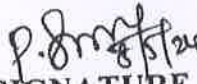
**J.K.K.Munirajah College of Technolo  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.**

ANNA UNIVERSITY: CHENNAI-600 025

**BONAFIDE CERTIFICATE**

Certified that this project report on "**CREDIT CARD TRANSACTION USING FACE RECOGNITION**" is the Bonafide work of "**ABINAYA G (731220104001)** and **DHARANISEVI M (731220104007)** and **ROSHMA I (731220104023)**" who carried out the project work under my supervision.

  
SIGNATURE

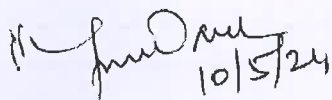
  
SIGNATURE

**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.

**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 10.05.2024 (FN)

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

  
Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

## ABSTRACT

The payment modes at Point of Sales (POS) have different modes such as cash on delivery, online transaction, credit card transaction and monthly instalments etc. This project proposes a method for credit card system used in transaction system which will integrate with the face detection. At the time of payment made by the user on portal will be compared to the features from the dataset of the respective user. A method for credit card transaction system which will make use of face recognition and face detection technology, using Neural network. The integration of facial recognition technology in credit card transactions presents a promising avenue for enhancing security and convenience in financial transactions. This paper explores the implementation of facial recognition systems as a means to authenticate credit card transactions. The proposed system leverages advanced facial recognition algorithms to verify the identity of cardholders during payment processes, mitigating the risks associated with traditional authentication methods such as PINs or signatures. Additionally, the system aims to streamline the checkout process, offering a frictionless and user-friendly experience for consumers. Through a comprehensive analysis of the technical feasibility, security considerations, and user acceptance, this paper evaluates the potential benefits and challenges of adopting facial recognition technology in credit card transactions. Moreover, it discusses the implications of regulatory frameworks and privacy concerns, highlighting the importance of robust data protection measures and transparent policies to ensure the ethical and responsible deployment of such systems. Overall, this research contributes to the ongoing discourse on leveraging biometric authentication methods to enhance the security and efficiency of financial transactions in the digital age.



Principal

## 9. CONCLUSION AND FUTURE ENHANCEMENT

### 9.1 CONCLUSION

The process of recording details about online shopping is simpler and easier. The system reduces the possibility of errors to a great extent and maintains the data in an efficient manner. User friendliness is the unique feature of this system. The system generates the reports as and when required. The system is highly interactive and flexible for further enhancement. The coding is done in a simplified and easy to understandable manner so that other team trying to enhance the project can do so without facing much difficulty. The documentation will also assist in the process as it has also been carried out in a simplified and concise way.

### 9.2 FUTURE WORK

This system is developed such a way that additional enhancement can be done without much difficulty. The renovation of the project would increase the flexibility of the system. Also the features are provided in such a way that the system can also be made better and efficient functionality

- In the future extend the project using android application with the admin part of online products shopping.
- Add more products in this application.



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J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



# FARMERS AGRICULTURE ASSISTANCE CHATBOT



## A PROJECT REPORT

*Submitted by*

BALU R

(731220104003)

DEEPAK S

(731220104005)

KAVIN M

(731220104012)

BOOPALAN M

(731220104301)

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*in*

**COMPUTER SCIENCE AND ENGINEERING**

**J.K.K. MUNIRAJAH COLLEGE OF  
TECHNOLOGY**

**T.N. PALAYAM, GOBI-638506**

**ANNA UNIVERSITY: CHENNAI-600 025**

**MAY 2024**

**Principal**

**J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (TK),  
Erode (Dt) - 638 506.**

ANNA UNIVERSITY :: CHENNAI 600 025

**BONAFIDE CERTIFICATE**

Certified that this project report on "FARMERS AGRICULTURE ASSISTANCE CHATBOT" is the Bonafide work of "R. BALU (731220104003), S. DEEPAK (731220104005), M. KAVIN (731220104012), M. BOOPALAN (731220104301)" 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.N. SATHYABALAJI M.E.Ph.D.,M.I.S.T.E

ASSOCIATE PROFESSOR

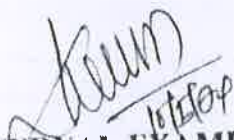
SUPERVISOR

Dept of Computer Science and Engineering

J.K.K. Munirajah College of Technology

T.N. Palayam.

Submitted for the Viva-Voce examination held on 10.05.2024 FN



INTERNAL EXAMINER



EXTERNAL EXAMINER



Principal

J.K.K.Munirajah College of Technology  
(Autonomous)

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

## **ABSTRACT**

India is known for the apprehension of global powerhouse of agriculture in the world and has been mainly an agriculture-based economy, in spite of the fact that a lot of farmers and respective individuals face a lot of problems in agriculture due to inadequate knowledge of agriculture production such as poor farming techniques, inadequate materials for the crop, proper crop planning, maintaining of fertilizer balance. This project represents a prototype of a chatbot structure which helps assist individuals or farmers in crop management and predicts the need of the crop.

Prediction such as the fertilizer dosage, nutrients in the crop and assists in providing sufficient knowledge to the individual to work on the basic needs. This structure uses Natural Language Processing and takes feed from the predetermined data to give responses on based queries.

For the Structure to be accurate the chatbot analyzes factors such as past feed and the sources of the data from "The Indian Council of Agricultural Research".



**Principal**

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(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.**

## CHAPTER 15

### CONCLUSION & FUTURE ENHANCEMENTS

In conclusion, the implementation of a farmers assistant agribot represents a significant opportunity for improving service delivery, enhancing user experiences, and fostering greater accessibility to scheme-related information and services for citizens. Through meticulous planning, stakeholder engagement, and iterative development, government agencies can develop a chatbot solution that meets the diverse needs of users effectively. By leveraging advanced technologies such as natural language processing, machine learning, and integration with other government systems, the chatbot can offer personalized assistance, streamline processes, and optimize service delivery. Moreover, by prioritizing user-centric design, scalability, and continuous improvement, government agencies can ensure that the chatbot remains relevant, reliable, and impactful in the long term.

Through this project, we've seamlessly integrated diverse datasets, prioritized user-centric experiences, and made strides towards bolstering financial inclusivity and government efficacy. The fruition of Scheme represents more than a mere technological innovation; it signifies a gateway to empowerment and opportunity for individuals across diverse strata of society. By fostering accessibility and transparency, this initiative aims to bridge the gap between citizens and government sponsored financial assistance, ultimately nurturing economic growth and societal well-being it's a continuum of dedication towards refinement, security, and adaptability. We remain steadfast in our commitment to enhancing the Mega Bot, ensuring its enduring impact as a catalyst for empowerment.



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(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

## 15.1 FUTURE ENHANCEMENTS

Future enhancements and scalability play a pivotal role in ensuring the farmers assistant agribot remains relevant, adaptable, and capable of meeting the evolving needs of users and stakeholders. Firstly, future enhancements may involve expanding the chatbot's functionality to offer additional services, such as personalized recommendations, transactional capabilities, or integration with emerging technologies like voice recognition or augmented reality. These enhancements should be guided by user feedback, market research, and strategic priorities to ensure they address genuine user needs and deliver tangible benefits. Secondly, scalability is essential for accommodating growth in user demand and expanding the chatbot's reach to serve a larger audience effectively. This may involve optimizing the chatbot's infrastructure, implementing load balancing mechanisms, and leveraging cloud-based technologies to handle increased traffic and concurrent user interactions. Scalability considerations should encompass both technical scalability, such as server capacity and performance optimization, as well as operational scalability, such as workforce capacity and support resources. Additionally, future enhancements may focus on improving the chatbot's intelligence and capabilities through advancements in artificial intelligence (AI) and machine learning (ML) technologies. This could include refining natural language processing (NLP) algorithms to better understand user intents and context, enhancing personalization features to deliver more tailored responses, and integrating predictive analytics to anticipate user needs and preferences. Furthermore, ensuring interoperability and integration with other government systems and platforms is essential for maximizing the chatbot's utility and impact.



**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

# J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

(AUTONOMOUS)

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



## INTERNSHIP DETAILS 2023-24

SI. NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731220104003	BALU R	ICORE SOFTWARE TECHNOLOGIES	COIMBATORE	11.03.2024 TO 16.03.2024
2	731220104012	KAVIN.M			
3	731220104005	DEEPAK.S			
4	731220104301	BOOPALAN.M			

Principal

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(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



**Internship**  
1 message

MON 04 Feb 2024 at 2.00pm

From: HODCSE <hodcse@jkkmct.edu.in>

Date: MON 04 Feb 2024 at 2.00pm

Subject: Internship-reg

To: ICORE SOFTWARE TECHNOLOGIES <info@icore.net.in>

Dear Sir,

I am requesting to be joining your **ICORE SOFTWARE TECHNOLOGIES**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following students: **BALU R, KAVIN.M, DEEPAK.S, BOOPALAN.M**

Sincerely,

First Year CSE Student,

J K K Munirajah College of Technology,

T.N. Palayam, Erode-638506, Tamilnadu.

**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



**Internship**

1 message

THUR 07 Mar 2024 at 3.30pm

From: ICORE SOFTWARE TECHNOLOGIES <info@icore.net.in >

Date: THUR 07 Mar 2024 at 3.30pm

Subject: Internship-reg

To: HODCSE<hodcse@jkkmct.edu.in>

Dear SIR,

I am writing to confirm my acceptance of your internship offer of 11.03.2024 TO 16.03.2024 and to tell you how to be joining my **ICORE SOFTWARE TECHNOLOGIES**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on Mar 11, 2024 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following students: **BALU R, KAVIN.M, DEEPAK.S, BOOPALAN.M**

Sincerely,

HR Manager,

ICORE SOFTWARE TECHNOLOGIES,

Coimbatore.

**Principal**

**J.K.K.Munirajah College of Technology**  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



# ICORE SOFTWARE TECHNOLOGIES

DATE :16-03-2024

This is to certify that **Mr./Ms.BALU R (731220104003)** Final year B.E Computer Science and Engineering of **JKK MUNIRAJAH COLLEGE OF TECHNOLOGY**, Erode has attended **internship** training in our organization from **11-3-2024 to 16-3-2024**. During this internship training, he/she has learned the overview concepts of **FARMERS AGRICULTURE ASSISTANCE CHATBOT**.

**AUTHORIZED  
SIGNATURE**

**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



# ICORE SOFTWARE TECHNOLOGIES

DATE :16-03-2024

This is to certify that **Mr./Ms.KAVIN.M (731220104012)** Final year B.E Computer Science and Engineering of **JKK MUNIRAJAH COLLEGE OF TECHNOLOGY**, Erode has attended **internship** training in our organization from **11-3-2024 to 16-3-2024**. During this internship training, he/she has learned the overview concepts of **FARMERS AGRICULTURE ASSISTANCE CHATBOT**.

AUTHORIZED  
SIGNATURE

Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



## ICORE SOFTWARE TECHNOLOGIES

DATE :16-03-2024

This is to certify that **Mr./Ms.DEEPAK.S ( 731220104005)** Final year B.E Computer Science and Engineering of **JKK MUNIRAJAH COLLEGE OF TECHNOLOGY**, Erode has attended **internship** training in our organization from **11-3-2024 to 16-3-2024**.During this internship training, he/she has learned the overview concepts of **FARMERS AGRICULTURE ASSISTANCE CHATBOT**.

**AUTHORIZED  
SIGNATURE**

**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



## ICORE SOFTWARE TECHNOLOGIES

DATE :16-03-2024

This is to certify that **Mr./Ms.BOOPALAN.M (731220104301)** Final year B.E Computer Science and Engineering of **JKK MUNIRAJAH COLLEGE OF TECHNOLOGY**, Erode has attended **internship** training in our organization from **11-3-2024 to 16-3-2024**. During this internship training, he/she has learned the overview concepts of **FARMERS AGRICULTURE ASSISTANCE CHATBOT**.

**AUTHORIZED  
SIGNATURE**

**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



**A NOVEL HUNGER MANAGEMENT SYSTEM  
TO AVOID FOOD WASTAGE**



**A PROJECT REPORT**

*Submitted by*

<b>CHARLES WILLIAM L</b>	<b>(731220104004)</b>
<b>SUNDARA GANESAN K</b>	<b>(731220104025)</b>
<b>VINOTHKUMAR R</b>	<b>(731220104031)</b>

*In partial fulfilment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

**IN**

**COMPUTER SCIENCE AND ENGINEERING**

**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY**

**T.N. PALAYAM, GOBI – 638506**

**ANNA UNIVERSITY: CHENNAI-600025**

**MAY-2024**

**Principal**

**J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.**

ANNA UNIVERSITY: CHENNAI-600025

**BONAFIDE CERTIFICATE**

Certified that this project report on "A NOVEL HUNGER MANAGEMENT SYSTEM TO AVOID FOOD WASTAGE" is the Bonafide work of "CHARLES WILLIAM L (731220104004) and SUNDARA GANESAN K (731220104025) and VINOTHKUMAR R (731220104031)" who carried out the project work under My supervision.

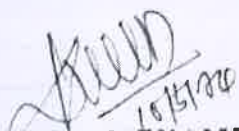
  
SIGNATURE

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.N. SATHYABALAJI M.E., Ph.D., M.I.S.T.E.,  
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 10.05.2024 FN

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

  
Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

## ABSTRACT

In recent years, the issue of food waste has garnered significant attention due to its environmental, economic, and social implications. Food waste not only contributes to greenhouse gas emissions and environmental degradation but also represents a loss of resources and exacerbates issues of food insecurity and hunger. Addressing this challenge requires innovative solutions that leverage technology to streamline processes and promote sustainable consumption habits. It is a web application designed to facilitate efficient food waste management within households, restaurants, and communities. The application offers a user-friendly interface accessible via web browsers and mobile devices, allowing users to easily track, manage, and minimize their food waste footprint. Inventory Management: Users can create and maintain digital inventories of their food items, including perishables, pantry staples, and leftovers. The application manual input methods to add items, track expiration dates, and receive notifications for approaching expiry. It enables users to plan meals based on available ingredients, reducing the likelihood of purchasing unnecessary items and ensuring optimal utilization of existing resources. The meal planning feature suggests recipes tailored to the user's inventory and dietary preferences, promoting creativity and diversity in meal preparation. By leveraging technology and promoting behavioral change, It aims to empower individuals and communities to adopt more responsible and sustainable food consumption practices. Through effective food waste management, the application contributes to the preservation of resources, reduction of greenhouse gas emissions, and promotion of food security and social equity.

## CHAPTER 13

### CONCLUSION AND REFLECTION

#### 13.1 CONCLUSION

In conclusion, this application represents a holistic solution to the pressing challenges of food waste management, sustainability, and healthy eating habits. By harnessing the power of technology, accessibility, and community engagement, this application empowers users to make informed decisions, reduce food waste, and adopt sustainable consumption practices.

Through its intuitive user interface, personalized recommendations, and AI-driven features, This web application addresses the diverse needs and preferences of users, whether they are individuals, businesses, or community organizations. By expanding This web application's reach to other industries, regions, and stakeholders, we can amplify its impact and create a more resilient, equitable, and sustainable food system for the future.

As we continue to innovate and iterate, This web application remains committed to its mission of promoting food waste reduction, fostering environmental stewardship, and improving access to nutritious food for all. Together, we can build a brighter future where every meal matters, every ingredient counts, and every person has the opportunity to thrive.

Join us on this journey towards a more sustainable and delicious future with This web application. Together, we can make a difference, one plate at a time. Thank you for your support and commitment to sustainability.

#### 13.2 RECAP OF KEY FINDINGS

Throughout the development of This web application, several key findings emerged, highlighting the importance of addressing food waste management through technology and community engagement:

**Food Waste is a Significant Issue:** Research and literature review revealed the alarming scale of food waste globally, with significant environmental, social, and economic implications.

**Need for Efficient Supply Chain Management:** Efficient supply chain management is crucial for minimizing food waste at various stages, from production and distribution to consumption and disposal.

**Role of Technology in Food Waste Reduction:** Technology, including web applications like This web application, can play a vital role in addressing food waste by facilitating inventory management, meal planning, donation coordination, and sustainability tracking.

**Importance of User Engagement and Accessibility:** User engagement and accessibility are key considerations in the design and development of food waste management solutions.

**Opportunities for Expansion and Collaboration:** This web application presents opportunities for expansion into other industries, regions, and stakeholder collaborations to amplify its impact and promote sustainability across the food ecosystem.

### 13.3 IMPLICATIONS FOR AGRI-FOOD WASTE MANAGEMENT

The implications of This web application for agri-food waste management are significant and multifaceted:

**Improved Efficiency:** This web application streamlines food inventory management, meal planning, and donation coordination processes, leading to reduced inefficiencies and waste at various stages of the agri-food supply chain.

**Data-Driven Insights:** This web application generates valuable data insights into user behavior, consumption patterns, and food waste metrics, enabling stakeholders in the agri-food industry to make informed decisions and optimize resource allocation.

**Community Engagement:** This web application fosters community engagement and collaboration among users, businesses, and organizations involved in agri-food waste management, creating opportunities for knowledge sharing, innovation, and collective action.

**Policy Support and Advocacy:** This web application can serve as a tool for advocacy and policy support by raising awareness about the importance of food waste reduction and sustainability and advocating for policy changes at the local, regional, and national levels.

**Capacity Building and Education:** By providing educational resources, training materials, and capacity-building initiatives, This web application equips users and stakeholders with the knowledge and skills needed to address agri-food waste effectively and implement sustainable practices.



Principal

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



**FERTILIZER RECOMMENDATION  
SYSTEM FOR DISEASE PREDICTION**



**A PROJECT REPORT**

**Submitted by**

**S.DEEPIKA (731220104006)**  
**T.VINISHA (731220104029)**  
**A.VINITHA (731220104030)**

*in partial fulfillment for the award of the degree  
of*

**BACHELOR OF ENGINEERING**

*in*

**COMPUTER SCIENCE AND ENGINEERING**

**J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY  
T.N.PALAYAM, GOBI-638 506**

**ANNA UNIVERSITY :: CHENNAI 600 025**

**MAY 2024**

**Principal**  
**J.K.K.Munirajah College of Technology**  
**(Autonomous)**  
**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506.**

ANNA UNIVERSITY :: CHENNAI 600 025

**BONAFIDE CERTIFICATE**

Certified that this project report on **"FERTILIZER RECOMENDATION SYSTEM FOR DISEASE PREDICTION"** is the bonafide work of **"S. DEEPIKA (731220104006) , T. VINISHA (731220104029) and 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

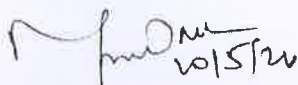
J.K.K.Munirajah College of Technology

T.N.Palayam.

T.N.Palayam.

Submitted for the Viva-Voce examination held on 10.05.2024 (FN)

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

ii

  
Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

## ABSTRACT

Crop Recommendation System for agriculture is based on various input parameters. This proposes a hybrid model for recommending crops to south Indian states by considering various attributes such as soil type, Rainfall, Groundwater level, Temperature, Fertilizers, Pesticides and season. The recommender model is built as a hybrid model using the classifier machine learning algorithm. Based on the appropriate parameters, the system will recommend the crop. Technology based crop recommendation system for agriculture helps the farmers to increase the crop yield by recommending a suitable crop for their land with the help of geographic and the climatic parameters. The concept of this project is to implement the crop selection method so that this method helps in solving many agriculture and farmers problems. This improves our Indian economy by maximizing the yield rate of crop production, different types of land condition. So the quality of the crops are identified using ranking process. By this process the rate of the low quality and high quality crop is also notified. The usage of ensemble of classifiers paves a path way to make a better decision on predictions due to the usage of multiple classifiers.

## CHAPTER 11

### CONCLUSION

This open attitude determines the degree and scope of information sharing. Big data analysis technology can effectively improve the crop yield production is updation. This project proposes a novel intelligent system for agricultural crop price prediction. The key idea is to use ensemble of classifiers for prediction. The usage of ensemble of classifiers paves a path way to make a better decision on predictions due to the usage of multiple classifiers. Further, a ranking process is applied for decision making in order to select the classifiers results. This system is used to predict the cost of the crop rate for further. The solution will benefit farmers to maximize productivity in agriculture, reduce soil degradation in cultivated fields, and reduce fertilizer use in crop production by recommending the right crop by considering various attributes. This would provide a comprehensive prediction on the basis of geographical, environmental and economic aspects.

#### 11.1 FUTURE SCOPE

- This technology will assist farmers by providing required advice on crops, their growth, and other basic information.
- This application can also help farmers calculate crop MSP (Minimum Support Price).
- They could directly upload image on the app and it would tell the disease and the cure then and there. This would reduce the time and efforts.

**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY**  
**(AUTONOMOUS)**



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

**INTERNSHIP DETAILS 2023-24**

SI. NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731220104006	DEEPIKA.S	ICORE SOFTWARE TECHNOLOGIES	COIMBATORE	11.03.2024 TO 16.03.2024
2	731220104029	VINISHA.T			
3	731220104030	VINITHA.A			

  
Principal

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



**Internship**  
1 message

MON 04 Feb 2024 at 2.00pm

From: HODCSE <hodcse@jkkmct.edu.in>

Date: MON 04 Feb 2024 at 2.00pm

Subject: Internship-reg

To: ICORE SOFTWARE TECHNOLOGIES <info@icore.net.in>

Dear Sir,

I am requesting to be joining your **ICORE SOFTWARE TECHNOLOGIES**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following students: **DEEPIKA.S, VINISHA.T, VINITHA.A**

Sincerely,

First Year CSE Student,

J K K Munirajah College of Technology,

T.N. Palayam, Erode-638506, Tamilnadu.

Principal

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



**Internship**  
1 message

THUR 07 Mar 2024 at 3.30pm

From: ICORE SOFTWARE TECHNOLOGIES <info@icore.net.in >  
Date: THUR 07 Mar 2024 at 3.30pm  
Subject: Internship-reg  
To: HODCSE<hodcse@jkkmct.edu.in>

Dear SIR,

I am writing to confirm my acceptance of your internship offer of 11.03.2024 TO 16.03.2024 and to tell you how to be joining my **ICORE SOFTWARE TECHNOLOGIES**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on Mar 11, 2024 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following students: **DEEPIKA.S, VINISHA.T, VINITHA.A**

Sincerely,

HR Manager,  
ICORE SOFTWARE TECHNOLOGIES,  
Coimbatore.

**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



# ICORE SOFTWARE TECHNOLOGIES

DATE :16-03-2024

This is to certify that **Mr./Ms.DEEPIKA.S (731220104006)** Final year B.E Computer Science and Engineering of **JKK MUNIRAJAH COLLEGE OF TECHNOLOGY**, Erode has attended **internship** training in our organization from **11-3-2024 to 16-3-2024**. During this **internship** training, he/she has learned the overview concepts **of FERTILIZER RECOMMENDATION SYSTEM FOR DISEASE PREDICTION**.

**AUTHORIZED  
SIGNATURE**

**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 505.



# ICORE SOFTWARE TECHNOLOGIES

DATE :16-03-2024

This is to certify that **Mr./Ms.VINISHA.T (731220104029)** Final year B.E Computer Science and Engineering of **JKK MUNIRAJAH COLLEGE OF TECHNOLOGY**, Erode has attended **internship** training in our organization from **11-3-2024 to 16-3-2024**. During this **internship** training, he/she has learned the overview concepts of **FERTILIZER RECOMMENDATION SYSTEM FOR DISEASE PREDICTION**.

AUTHORIZED  
SIGNATURE

Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



# ICORE SOFTWARE TECHNOLOGIES

DATE :16-03-2024

This is to certify that **Mr./Ms.VINITHA.A (731220104030)** Final year B.E Computer Science and Engineering of **JKK MUNIRAJAH COLLEGE OF TECHNOLOGY**, Erode has attended internship training in our organization from **11-3-2024 to 16-3-2024**. During this **internship training**, he/she has learned the overview concepts of **FERTILIZER RECOMMENDATION SYSTEM FOR DISEASE PREDICTION**.

AUTHORIZED  
SIGNATURE

Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



**AI RESUME ANALYZER USING MACHINE  
LEARNING AND DEEP LEARNING**



**A PROJECT REPORT**

*Submitted by*

**LOGANATHAN T**

**(731220104014)**

**NIRMALRAJ S**

**(731220104019)**

**VIGNESH M**

**(731220104028)**

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*in*

**COMPUTER SCIENCE AND ENGINEERING**

**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY**

**T.N.PALAYAM, GOBI - 638 506**

**ANNA UNIVERSITY :: CHENNAI 600 025**

**MAY 2024**

**Principal**

**J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.**

ANNA UNIVERSITY :: CHENNAI 600 025

**BONAFIDE CERTIFICATE**

Certified that this project report on "**AI RESUME ANALYZER USING MACHINE LEARNING AND DEEP LEARNING**" is the Bonafide work of "**T. LOGANATHAN (731220104014), S. NIRMALRAJ (731220104019), M. VIGNESH (731220104028)**" who carried out the project work under my supervision.



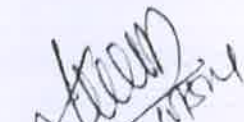
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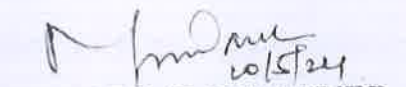
SIGNATURE

<b>Dr.N.SATHYABALAJI M.E.Ph.D.,M.I.S.T.E</b>	<b>Dr.N.SATHYABALAJI M.E.Ph.D.,M.I.S.T.E</b>
<b>ASSOCIATE PROFESSOR</b>	<b>ASSOCIATE PROFESSOR</b>
<b>HEAD OF THE DEPARTMENT</b>	<b>SUPERVISOR</b>
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 10.05.2024 (FEN)




INTERNAL EXAMINER



EXTERNAL EXAMINER

ii



Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

## ABSTRACT

The Intelligent Resume Analyzer is an AI-powered system that analyses candidate resumes and makes recommendations to enhance them. The system takes a candidate's resume as input and processes it using machine learning algorithms to discover areas for improvement. The system's main goal is to assist job searchers in creating resumes that can pass the screening process of job interviews.

To extract useful insights from the candidate's resume, the system employs a variety of approaches such as natural language processing, text mining, and sentiment analysis. It examines the candidate's experience, skills, education, and achievements to provide feedback on how to improve the resume. The algorithm also evaluates the resume's layout, language, and spelling to verify it follows industry standards.

Both job searchers and recruiters can benefit from the Intelligent Resume Analyzer. Recruiters can use the system to swiftly find the top candidates for a certain job, while job seekers can use it to build resumes that are more likely to pass the screening process of job interviews. Job seekers can improve their chances of getting hired for the positions they want by utilizing the Intelligent Resume Analyzer..



Principal

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

## CHAPTER 9

### CONCLUSION AND FUTURE WORK

#### 9.1 CONCLUSION:

All In conclusion, the Intelligent Resume Analyzer system is a powerful tool that analyses resumes and makes suggestions for improvement using artificial intelligence and machine learning algorithms. The system gives individualized feedback to assist job searchers improve their resumes and raise their chances of success by utilizing the power of AI and natural language processing techniques.

The Intelligent Resume Analyzer system's methodology section discussed the study design, data gathering, and analytic techniques utilized in the system's creation. The system was created using a supervised learning method, with annotated resumes used to teach the system to recognize specific patterns. The system was assessed based on its ability to forecast the suitability of a resume for a certain job vacancy.

Overall, the Intelligent Resume Analyzer technology has the potential to transform how job searchers produce resumes and apply for positions. The technology can help job searchers generate resumes that appropriately represent their qualifications and boost their chances of being hired by delivering individualized feedback. As the job market grows more competitive, the Intelligent Resume Analyzer technology can give jobseekers with a significant competitive advantage.

## 9.2 FUTURE ENHANCEMENTS:

This system empowers job seekers with a personalized, data-driven approach to career placement while simultaneously assisting employers in identifying the most suitable candidates. The core philosophy of the &quot;AI Resume Analyzer&quot; revolves around the seamless integration of technology into the career placement journey.



Principal

J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



# **BUS TIME TABLE MANAGEMENT ASSISTANT**



## **A PROJECT REPORT**

*Submitted by*

**JAGATHESWARAN P**

**(731220104009)**

**ROHITH R**

**(731220104022)**

**SIVALINGAM K**

**(731220104024)**

*in partial fulfilment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

*in*

**COMPUTER SCIENCE & ENGINEERING**

**J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY**

**T.N.PALAYAM, GOBI-638 506**

**ANNA UNIVERSITY:: CHENNAI 600025**

**MAY 2024**

**Principal**

**J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.**

ANNA UNIVERSITY:: CHENNAI 600 025

**BONAFIDE CERTIFICATE**

Certified that this project report on “**Bus Time Table Management Assistant**” is the bonafide work of “**P.JAGATHESWARAN (731220104009),R.ROHITH (731220104022), K. SIVALINGAM (731220104024)**” who carried out the project work under my supervision.

  
SIGNATURE

Dr. N. SATHYABALAJI M.E., Ph.D., M.I.S.T.,

ASSOCIATE PROFESSOR

HEAD OF THE DEPARTMENT

Dept. of Computer Science & Engineering

JKK Munirajah college of technology,

T.N. Palayam.

  
SIGNATURE

Mr.G.TAMILSELVAN M.E.,

ASSISTANT PROFESSOR


SUPERVISOR

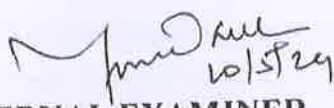
Dept. of Computer Science & Engineering

JKK Munirajah college of technology,

T.N. Palayam.

Submitted for the Viva-Voce examination held on 10.05.2024 / FN

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

  
Principal

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

## ABSTRACT

In Tamil Nadu, like many other regions, government agencies have long grappled with the challenge of enhancing the accessibility and efficiency of public transportation services. Despite significant investments and efforts, the need for innovative solutions to streamline government bus services persists. To address this challenge, we introduce this assistant, an AI-powered conversational assistant designed to revolutionize the way commuters interact with and utilize government bus services.

It serves as a user-friendly interface that simplifies the process of accessing information and booking bus tickets for commuters across Tamil Nadu. Leveraging advanced natural language processing capabilities, this assistant efficiently handles queries related to bus schedules, departure and arrival timings, route information, ticket booking, and more, all within a conversational interface. By offering a convenient and intuitive platform for commuters to interact with government bus services, it aims to enhance the overall commuting experience, improve resource utilization, and contribute to the modernization of public transportation infrastructure in Tamil Nadu. Through this assistant, we envision a future where accessing government bus services is effortless, efficient, and tailored to the needs of every commuter, thereby promoting sustainable mobility and facilitating economic growth across the region.

## CHAPTER 9

# CONCLUSION AND FUTURE ENHANCEMENT

### 9.1. Conclusion

With public transport being used by more than 90% of the people within Tamil Nadu, it comes down to a single question as to how it can be well built with a solid organized structure to make it feasible to the users and the operators as well. The traditional travel agent and travel website fail to provide detailed information about these things to the user who is traveling. To overcome this flaw, we present a solution by using an AI-based Assistant for Public Transportation Service Tamil Nadu. Our proposed system aims on replicating a human travel agent as a Chabot which provides adequate and accurate Bus information to the user which sometimes the online websites or travel agents are unable to provide. With the help of Assistant one can get information any time as they need. LSTM algorithm is used to train the model. The algorithm achieving the highest accuracy will be used to create the Assistant. With this Assistant a more accurate and personalized predictions can be created for user while communicating in natural language.

### 9.2. Future Enhancement

In future connection to the IoT (internet of things) is also easy to include. Commuters can receive precise arrival information based on real-time GPS sensors for trains, buses or ferries and they won't have to rely on estimates or fixed schedules.



**VOICE BASED EMAIL SYSTEM FOR  
VISUALLY IMPAIRED**



**A PROJECT REPORT**

*Submitted by*

M.KARUNYAA (731220104010)

S.RAMYA (731220104021)

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

**in**

**COMPUTER SCIENCE AND ENGINEERING**

**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY**

**T.N. PALAYAM, GOBI-638 506**

**ANNA UNIVERSITY :: CHENNAI 600 025**

**MAY 2024**

**Principal**  
**J.K.K. Munirajah College of Technology**  
**(Autonomous)**  
**T.N. Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506.**

ANNA UNIVERSITY : CHENNAI 600 025

**BONAFIDE CERTIFICATE**

Certified that this project report on **"VOICE BASED EMAIL SYSTEM FOR VISUALLY IMPAIRED"** is the bonafide work of **"M.KARUNYAA (731220104010) and S.RAMYA (731220104021)"**, 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. 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 10.05.2024 (FN)

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

  
**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

## ABSTRACT

Internet is one of the basic luxury for daily living. Every person is using the facts and information on internet. On the other hand, blind people face difficulty in accessing the text resources. The advancement in computer based accessible systems has opened up many avenues for the visually impaired across a wide majority of the globe. Audio feedback based virtual environment like, the screen readers have helped blind people to access internet applications immensely. However the visually challenged people find it very difficult to utilize this technology because of the fact that using them requires visual perception. Even though many new advancements have been implemented to help them use the computers efficiently no naïve user who is visually challenged can use this technology as efficiently as a normal naïve user can do that is unlike normal users they require some practice for using the available technologies. In this project, the voicemail system architecture that can be used by a blind person to access e-mails easily and efficiently. The contribution made by project has enabled the blind people to send and receive voice-based e-mail message. The proposed system GUI has been evaluated against the GUI of a traditional mail server and found that the proposed architecture performs much better than that of the existing GUIs. In this project, the use of voice to text and text to voice technique access for blind people. Also this system can be used by any normal person also for example the one who is not able to read. The system is completely based on interactive voice response which will make it efficient.

## CHAPTER 8

### CONCLUSION

This e-mail system can be used by any user of any age group with ease of access. It has highlight of speech to content just as content to speech with discourse reader which makes planned framework to be taken care of by outwardly hindered individual too. Now the visually impaired people can send and receive mails with a lot of ease only through voice commands without making any use of a keyboard or any mouse. It has helped eradicate the difficulties that the blind people face and made them more the normal individuals.

It has wiped out the idea of utilizing console easy routes alongside screen readers which will help decreasing the intellectual heap of recollecting console alternate ways. Also any non-sophisticated user who does not know the position of keys on the keyboard need not bother as keyboard usage is eliminated. Instructions given by the IVR accordingly to get the respective services offered.

#### 8.1 FUTURE SCOPE

It is a observation that about 70% of total blind population across the world is present in INDIA. This depict the voice message engineering utilized by daze individuals to get to E-mail and multimedia elements of working framework effectively and efficiently. Separated from this the uneducated, crippled and daze individuals will too be able to send sends in their local dialects. This design will likewise decrease intellectual burden taken by blinds to recall and type characters utilizing console. Advances in technology will allow consumers and business to implement speech recognition systems at a relatively low cost and efficiently. Apart from this the system can be enhanced to help the illiterate people by making speech recognition possible in their native languages.

## 8.2 ADVANTAGES

- The disabilities of visually impaired folks are thrashed.
- This method makes the disabled folks desire a standard user.
- Completely voice based, wiped out the use of keyboard and mouse.
- Efficient and robust
- This design also scales back psychological feature load taken by blind to recollect and kind characters mistreatment keyboard.
- User friendly



Principal

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



**REAL TIME DRIVER'S DROWSINESS  
DETECTION**



**A PROJECT REPORT**

*Submitted by*

**KATHIRESAN K (731220104011)**

**DHAMODARAN G (731220104302)**

*in partial fulfillment for the award of the degree*

*of*

**BACHELOR OF ENGINEERING**

**IN**


**COMPUTER SCIENCE AND ENGINEERING**

**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY**

**T.N. PALAYAM, GOBI-638 506**

**ANNA UNIVERSITY:: CHENNAI 600 025**

**MAY 2024**

  
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ANNA UNIVERSITY :: CHENNAI 600 025

**BONAFIDE CERTIFICATE**

Certified that this project report on **"REAL TIME DRIVER'S DROWSINESS DETECTION"** is the bonafide work of **KATHIRESAN.K (731220104011)** and **DHAMODARAN.G (731220104302)** ", who carried out the project work under my supervision.

  
SIGNATURE

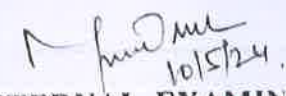
**Dr. N. SATHYABALAJI M.E. Ph.D , M.I.S.T. E.,**  
**ASSOCIATE PROFESSOR**  
**HEAD OF THE DEPARTMENT**  
Dept Of Computer Science and Engineering  
J.K.K Munirajah College of Technology  
T.N. Palayam


  
SIGNATURE

**Mr. E. ANANTH., ME.,**  
**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 10.05.2024 / FN

  
INTERNAL EXAMINER

  
EXTERNAL EXAMINER

  
Principal  
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(Autonomous)  
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## **ABSTRACT**

Nowadays, accidents occur during drowsy road trips and increase day by day. It is a known fact that many accidents occur due to driver fatigue and sometimes inattention. This research is primarily devoted to maximizing efforts to identify drowsiness. State of the driver under real driving conditions. The aim of driver drowsiness detection systems is to try to reduce these traffic accidents. The secondary data collected focuses on previous research on systems for detecting drowsiness and several methods have been used to detect drowsiness or inattentive driving. Our goal is to provide an interface where the program can automatically detect the driver's drowsiness and detect it in the event of an accident by using the image of a person captured by the webcam and examining how this information can be used to improve driving safety can be used. A vehicle safety project that helps prevent accidents caused by the driver's sleep. Basically, you're collecting a human image from the webcam and exploring how that information could be used to improve driving safety. Collect images from the live webcam stream and apply machine learning algorithm to the image and recognize the drowsy driver or not. When the driver is sleepy, it plays the buzzer alarm and increases the buzzer sound. If the driver doesn't wake up, they'll send a text message and email to their family members about their situation.



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## CHAPTER 6

### SUMMARY AND CONCLUSIONS

#### 6.1 SUMMARY

To get the result an enormous no. of pictures were taken and their precision in choosing eye gleams and tiredness was attempted. For this endeavor we used a 5-megapixel webcam related with the PC. The webcam had inbuilt white LEDs associated with it to show it is working. Progressively situation, infrared LEDs should be used as opposed to white LEDs with the objective that the structure is non-intruding. Inbuilt speakers are used to convey sound yield in order to stir the driver when laziness is distinguished.

The system was gone after for different people in different environmental factors lighting conditions (daytime and evening time). Exactly when the webcam scenery light was turned ON and the face is kept at an ideal distance, at a point the system can distinguish squints and laziness with more than 95% precision. This is a nice result and can be executed by continuous frameworks also. Test yields for different conditions impressively are given underneath.

Three pictures were taken; one in which simply the eyes were distinguished and the other in which they were not and another where sluggishness is recognized.

#### 6.2 CONCLUSION

The driver irregularity observing framework created is fit for identifying sluggishness, intoxicated and foolish conduct of drivers in a brief timeframe. The Drowsiness Detection framework created dependent on eye conclusion of the driver can separate ordinary eye squint and laziness and identify the sleepiness while driving. The proposed framework can forestall mishaps because of the

drowsiness while driving.

The framework functions admirably even in the event of drivers wearing scenes and surprisingly under low light conditions if the camera conveys better yield. Data about the head and eyes position is gotten through different self-created picture handling calculations. During the observing, the framework can choose if the eyes are opened or shut.

At the point when the eyes have been shut for a really long time, an admonition signal is given. Handling passes judgment on the driver's readiness level on the nuts and bolts of constant eye terminations. Consequently, we would have effectively planned and created fractional execution of the driver tiredness recognition utilizing python and Open cv alongside a camera to distinguish the face.

The framework to be created is to be tried and constraints are distinguished. The remainder of the work will be finished by what is arranged as of now.

### 6.3 ADVANTAGES

- Region time following applications.
- Classifications of little particles.

### 6.4 FUTURE SCOPE

This structure can be loosened up further to have plentiful security features, for instance, simply a specific number of people can have experts get to or work the vehicle.

If there ought to be an event of an undertaking to burglary, the vehicle engine doesn't start or an alert sound. An image of the robber is taken in an endeavored burglary and shipped off the proprietor of the vehicle who can enlist an argument against the cheat of the vehicle.

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Accredited by NAAC with "A" Grade

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



**INTERNSHIP DETAILS 2023-24**

SI. NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731220104011	KATHIRESAN.K	ANJANA INFOTECH	RAJAPALAYAM	22.01.2024 TO 26.01.2024
2	731220104014	LOGANATHAN.T			
3	731220104028	VIGNESH.M			

  
Principal  
J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



Internship

1 message

MON 08 Jan 2024 at 2.30pm

From: HODCSE<hodcse@jkkmct.edu.in>

Date: MON 08 Jan 2024 at 2.30pm

Subject: Internship-reg

To: ANJANA INFOTECH<info@anjanainfotech.in >

Dear Sir,

I am requesting to be joining your ANJANA INFOTECH. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following students: KATHIRESAN.K, LOGANATHAN.T, VIGNESH.M

Sincerely,

Final Year CSE Student,

J K K Munirajah College of Technology,

T.N.Palayam, Erode-638506, Tamilnadu.

Principal

J.K.K.Munirajah College of Technology,  
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T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



**Internship**  
1 message

FRI 12 JAN 2024 at 3.30pm

From: ANJANA INFOTECH <info@anjanainfotech.in >

Date: FRI 12 JAN 2024 at 3.30pm

Subject: Internship-reg

To: HODCSE <hodcse@jkkmct.edu.in>

Dear SIR,

I am writing to confirm my acceptance of your internship offer of 22.01.2024 TO 26.01.2024 and to tell you how to be joining my ANJANA INFOTECH. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on JAN 22, 2024 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following students: KATHIRESAN.K, LOGANATHAN.T, VIGNESH.M

Sincerely,

HR Manager,  
ANJANA INFOTECH,  
RAJAPALAYAM..

**Principal**  
J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



**Anjana Infotech**  
Your Dream We Display

Date: 26.01.2024

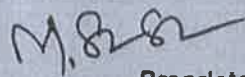
**INTERNSHIP TRAINING COMPLETION CERTIFICATE**

This is to certify that the internship training entitled Web development submitted by **Mr. K. Kathirasan (731220104011)** 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 **22.01.2024 to 26.01.2024**. He has successfully Completed his **Internship** under my Guidance and is worthy of consideration for the same.

Thanking you.



For  **Anjana Infotech**



Proprietor



info@anjanainfotech.in



anjanainfotech.in



+91 97879 70633

+91 97872 48063



Principal

J.K.K.Munirajah College of Technology  
(Autonomous)

T.N.Palayam, Gobi (TK),  
Erode (DT) - 638 506.



**Anjana Infotech**  
*Your Dream We Display*

Date: 26.01.2024

**INTERNSHIP TRAINING COMPLETION CERTIFICATE**

This is to certify that the internship training entitled Web 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 **22.01.2024 to 26.01.2024**. He has successfully Completed his **Internship** under my Guidance and is worthy of consideration for the same.

Thanking you.



For Anjana Infotech,

*M. S. S.*  
Proprietor

*[Signature]*  
Principal

J.K.K. Munirajah College of Technology  
(Autonomous)

T.N. Palayam, Gobi (Tk),  
) - 638 506.



info@anjanainfotech.in



anjanainfotech.in



+91 97879 70633

+91 97872 48063





**Anjana Infotech**  
*Your Dream We Display*


Date: 26.01.2024

**INTERNSHIP TRAINING COMPLETION CERTIFICATE**

This is to certify that the internship training entitled Web 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 **22.01.2024 to 26.01.2024**. He has successfully Completed his Internship under my Guidance and is worthy of consideration for the same.

Thanking you.



For  Anjana Infotech

*M.S.R.*  
Proprietor

*[Signature]*  
Principal

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



info@anjanainfotech.in



anjanainfotech.in



+91 97879 70633

+91 97872 48063



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(AUTONOMOUS)**



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



**INTERNSHIP DETAILS 2023-24**

SI. NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731220104003	BALU R	ENSEMBLE NEXGEN	ERODE	25.01.2024 TO 29.01.2024
2	731220104004	CHARLES WILLIAM.L			
3	731220104005	DEEPAK.S			
4	731220104006	DEEPIKA.S			
5	731220104009	JAGATHESWARAN.P			
6	731220104012	KAVIN.M			
7	731220104019	NIRMALRAJ.S			
8	731220104022	ROHITH.R			
9	731220104029	VINISHA.T			
10	731220104030	VINITHA.A			

**Principal**

**J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.**



Internship

1 message

FRI 19 Jan 2024 at 2.00pm

From: HODCSE <hodcse@jkkmct.edu.in>

Date: FRI 19 Jan 2024 at 2.00pm

Subject: Internship-reg

To: ENSEMBLE NEXGEN <info@ensemblenexgen.com >

Dear Sir,

I am requesting to be joining your **ENSEMBLE NEXGEN**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following students: **BALU R, CHARLESWILLIAM L, DEEPAK S, DEEPIKA S, JAGATHESWARAN P, KAVIN M, NIRMALRAJ S, ROHITH R, VINISHA T, VINITHA A,**

Sincerely,

Final Year CSE Student,

J K K Munirajah College of Technology,

T.N.Palayam, Erode-638506, Tamilnadu.

Principal

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



**Internship**

1 message

MON 22 JAN 2024 at 3.30pm

From: ENSEMBLE NEXGEN <info@ensemblenexgen.com >

Date: MON 22 JAN 2024 at 3.30pm

Subject: Internship-reg

To: HODCSE <hodcse@jkkmct.edu.in>

Dear SIR,


I am writing to confirm my acceptance of your internship offer of 25.01.2024 TO 29.01.2024 and to tell you how to be joining my ENSEMBLE NEXGEN. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on JAN 25, 2024 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following students: BALU R, CHARLESWILLIAM L, DEEPAK S, DEEPIKA S, JAGATHESWARAN P, KAVIN M, NIRMALRAJ S, ROHITH R, VINISHA T, VINITHA A.

Sincerely,

HR Manager,  
ENSEMBLE NEXGEN,  
ERODE.

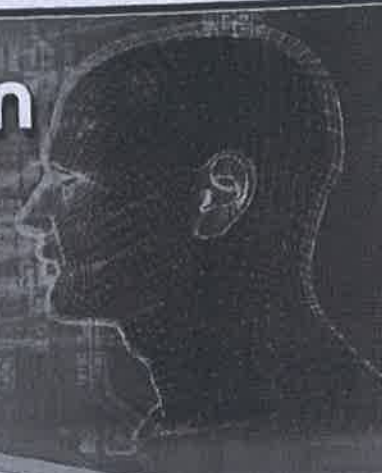
  
Principal  
J.K.K.Munirajah College of Technology  
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T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



Engineering Technology Provider

# Ensemble nexgen

H.O : 116, Penna towers, 2nd Floor,  
Sakthi Road, Erode - 638 003.  
Ph: 99522 21666



## CERTIFICATE

This is to certify that Mr / Ms ...**RAJU.R.(BE.CSE)**.....of  
.....**J.K.K.Munirajah...College...of...Technology**.....has completed our  
**Internship training in** ....**MERN...STACK DEVELOPMENT**.....  
from **25/1/24**..... to **29/1/24**.....conducted by **Ensemble nexgen Erode.**

**ENSEMBLE NEXGEN**  
H.O: 116, Penna Towers, 2nd Floor,  
Veerabhadra Chattiyar Road,  
Near Hotel Oxford,  
ERODE - 638 003.

Managing Director  
**Ensemble nexgen**

**Principal**  
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Sakthi Road, Erode - 638 003.  
Ph: 99522 21666



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Jkk...Munirajah...College of Technology.....has completed our  
**Internship training** in MERN...STACK...DEVELOPMENT.....  
from 25/1/24..... to 29/1/24.....conducted by **Ensemble nexgen** Erode.

ENSEMBLE NEXGEN  
H.O 116 Penna Towers, 2nd Floor,  
Veerahhadra Chettyar Road,  
Near Hotel Oxford,  
ERODE - 638 003.

Managing Director  
Ensemble nexgen

Principal

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T.N.Palayam, Gobi (Tk),  
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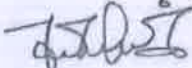
# Ensemble nexgen

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Sakthi Road, Erode - 638 003  
Ph: 99522 21666




## CERTIFICATE

This is to certify that Mr / Ms DEEPIKA.S (BE.CSE) of  
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H.O. Faculty Tower, 2nd Floor,  
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Near Hotel Oxford,  
ERODE - 638 003.

  
Managing Director  
Ensemble nexgen

  
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Erode (Dt) - 638 506.




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Ph: 99522 21666



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This is to certify that Mr / Ms DEEPAK S.(B.E..CSE).....of  
Jkk..Munirajah..College..of..Technology.....has completed our  
**Internship** training in MERN..STACK..DEVELOPMENT.....  
from 25/1/24..... to 29/1/24.....conducted by **Ensemble nexgen** Erode.

  
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Faculty  
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Veerabhadra Chattriyar Road,  
Near Hotel Oxford  
ERODE - 638 003

  
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Ph: 99522 21666



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This is to certify that Mr / Ms JAGATHESWARAN.P.(BE-CSE) of  
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**Internship training** in MERN STACK DEVELOPMENT  
from 25/1/24 to 29/1/24 conducted by **Ensemble nexgen Erode.**

Managing Director  
**Ensemble nexgen**

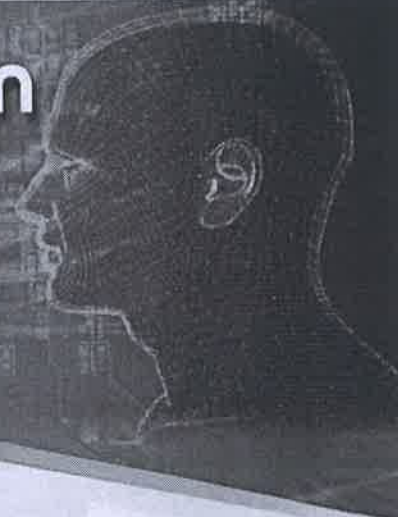
**ENSEMBLE NEXGEN**  
H.O:116, Penna Towers, 2nd Floor,  
Veerabhadra Chettyar Road,  
Near Hotel Oxford,  
ERODE - 638 003

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Sakthi Road, Erode - 638 003.  
Ph: 99522 21666



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This is to certify that Mr / Ms .....*KAYIN.M.(B.E..CSE.)*.....of  
.....*J.K.K.Munirajah College of Technology*.....has completed our  
**Internship** training in *MERN STACK DEVELOPMENT*  
from *25/1/24* to *29/1/24*.....conducted by **Ensemble nexgen** Erode.

**ENSEMBLE NEXGEN**  
H O: 116, Penna Towers, 2nd Floor,  
Veerabhadra Chettyar Road,  
Near Hotel Oxford,  
ERODE - 638 003.

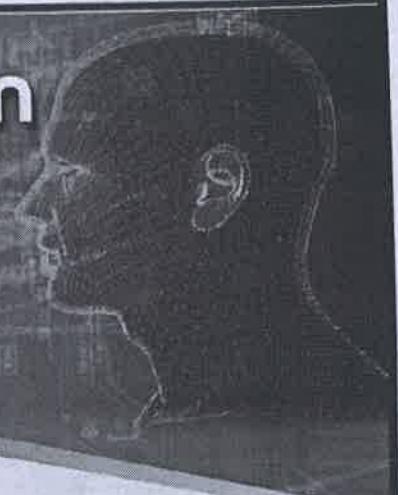
Managing Director  
**Ensemble nexgen**

**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



# Ensemble nexgen

H.O.: 116, Penna towers, 2nd floor,  
Sakthi Road, Erode - 638 003.  
Ph: 99522 21666



## CERTIFICATE

This is to certify that Mr / Ms *NIRMALRATS (B.E.-CSE)* of  
*J.K.K. Munirajah College of Technology* has completed our  
**Internship training** in *MERN STACK DEVELOPMENT*  
from *25/1/24* to *29/1/24* conducted by **Ensemble nexgen** Erode.

*JKR*  
Faculty  
D. 116, Penna Towers, 2nd floor,  
Sakthi Road, Erode - 638 003.  
Near Hotel

*Rakti*  
Managing Director  
**Ensemble nexgen**

*[Signature]*  
Principal

J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



# Ensemble nexgen

H.O : 116, Penna towers, 2nd Floor  
Sakthi Road, Erode - 638 003  
Ph: 99522 21666



## CERTIFICATE

This is to certify that Mr / Ms ROHITH (BE-CSE).....of  
J.K.K. Munirajah College of Technology.....has completed our  
**Internship** training in MERN STACK DEVELOPMENT.....  
from 25/1/24..... to 29/1/24.....conducted by **Ensemble nexgen** Erode.

ENSEMBLE NEXGEN  
Faculty  
H.O. 116, Penna  
Veerabhadra Ch  
Erode

Managing Director  
**Ensemble nexgen**

Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



Engineering Technology Provider

# Ensemble nexgen

H.O : 116, Penna towers, 2nd Floor

Sakthi Road, Erode - 638 003.

Ph: 99522 21666



## CERTIFICATE

This is to certify that Mr / Ms VINITHA.A.(BE:CSE).....of  
 .....J.K.K. Munirajah College of Technology.....has completed our  
**Internship training** in MERN STACK DEVELOPMENT.....  
 from 25/1/24..... to 29/1/24.....conducted by **Ensemble nexgen** Erode.

ENSEMBLE NEXGEN  
 H.O: Faculty Towers  
 Veerabhadra Chettyar Road,  
 Near Hotel Oxford,  
 Erode - 638 003

Managing Director  
**Ensemble nexgen**

Principal

J.K.K.Munirajah College of Technology  
 (Autonomous)  
 T.N.Palayam, Gobi (TK),  
 Erode (Dt) - 638 506.



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H.O : 116, Penna towers, 2nd Floor,  
Sakthi Road, Erode - 638 003  
Ph: 99522 21666



## CERTIFICATE

This is to certify that Mr / Ms VINISHA T. (BE: CSE).....of  
Jkk. Munirajah College of Technology.....has completed our  
**Internship training** in MERN STACK DEVELOPMENT.....  
from 25/1/24..... to 29/1/24.....conducted by **Ensemble nexgen** Erode.

**ENSEMBLE NEXGEN**  
Faculty  
H.O: 116, Penna Towers, 2nd Floor,  
Veerabhadra Chettiyar Road,  
Near Hotel Oxford,  
ERODE - 638 003

**Ensemble nexgen**  
Managing Director

**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (TK),  
Erode (Dt) - 638 506.

GE3151

**PROBLEM SOLVING AND PYTHON PROGRAMMING**

L T P C

3 0 0 3

**COURSE OBJECTIVES:**

- To understand the basics of algorithmic problem solving.
- To learn to solve problems using Python conditionals and loops.
- To define Python functions and use function calls to solve problems.
- To use Python data structures - lists, tuples, dictionaries to represent complex data.
- To do input/output with files in Python.

**UNIT I COMPUTATIONAL THINKING AND PROBLEM SOLVING**

9

Fundamentals of Computing – Identification of Computational Problems -Algorithms, building blocks of algorithms (statements, state, control flow, functions), notation (pseudo code, flow chart, programming language), algorithmic problem solving, simple strategies for developing algorithms (iteration, recursion). Illustrative problems: find minimum in a list, insert a card in a list of sorted cards, guess an integer number in a range, Towers of Hanoi.

**UNIT II DATA TYPES, EXPRESSIONS, STATEMENTS**

9

Python interpreter and interactive mode,debugging; values and types: int, float, boolean, string , and list; variables, expressions, statements, tuple assignment, precedence of operators, comments; Illustrative programs: exchange the values of two variables, circulate the values of n variables, distance between two points.

**UNIT III CONTROL FLOW, FUNCTIONS, STRINGS**

9

Conditionals:Boolean values and operators, conditional (if), alternative (if-else),chained conditional (if-elif-else);Iteration: state, while, for, break, continue, pass; Fruitful functions: return values,parameters, local and global scope, function composition, recursion; Strings: string slices,immutability, string functions and methods, string module; Lists as arrays. Illustrative programs: square root, gcd, exponentiation, sum an array of numbers, linear search, binary search.

**UNIT IV LISTS, TUPLES, DICTIONARIES**

9

Lists: list operations, list slices, list methods, list loop, mutability, aliasing, cloning lists, list parameters; Tuples: tuple assignment, tuple as return value; Dictionaries: operations and methods; advanced list processing - list comprehension; Illustrative programs: simple sorting, histogram, Students marks statement, Retail bill preparation.

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## UNIT V FILES, MODULES, PACKAGES

9

Files and exceptions: text files, reading and writing files, format operator; command line arguments, errors and exceptions, handling exceptions, modules, packages; Illustrative programs: word count, copy file, Voter's age validation, Marks range validation (0-100).

**TOTAL: 45 PERIODS**

### COURSE OUTCOMES:

Upon completion of the course, students will be able to

CO1: Develop algorithmic solutions to simple computational problems.

CO2: Develop and execute simple Python programs.

CO3: Write simple Python programs using conditionals and loops for solving problems.

CO4: Decompose a Python program into functions.

CO5: Represent compound data using Python lists, tuples, dictionaries etc.


CO6: Read and write data from/to files in Python programs.

### TEXT BOOKS:

1. Allen B. Downey, "Think Python: How to Think like a Computer Scientist", 2nd Edition, O'Reilly Publishers, 2016.
2. Karl Beecher, "Computational Thinking: A Beginner's Guide to Problem Solving and Programming", 1st Edition, BCS Learning & Development Limited, 2017.

### REFERENCES:

1. Paul Deitel and Harvey Deitel, "Python for Programmers", Pearson Education, 1st Edition, 2021.
2. G Venkatesh and Madhavan Mukund, "Computational Thinking: A Primer for Programmers and Data Scientists", 1st Edition, Notion Press, 2021.
3. John V Guttag, "Introduction to Computation and Programming Using Python: With Applications to Computational Modeling and Understanding Data", Third Edition, MIT Press, 2021
4. Eric Matthes, "Python Crash Course, A Hands - on Project Based Introduction to Programming", 2nd Edition, No Starch Press, 2019.
5. <https://www.python.org/>
6. Martin C. Brown, "Python: The Complete Reference", 4th Edition, Mc-Graw Hill, 2018.

  
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**COURSE OBJECTIVES:**

- To understand the data science fundamentals and process.
- To learn to describe the data for the data science process.
- To learn to describe the relationship between data. 24
- To utilize the Python libraries for Data Wrangling.
- To present and interpret data using visualization libraries in Python

**UNIT-I-INTRODUCTION**

9

Data Science: Benefits and uses – facets of data - Data Science Process: Overview – Defining research goals – Retrieving data – Data preparation - Exploratory Data analysis – build the model– presenting findings and building applications - Data Mining - Data Warehousing – Basic Statistical descriptions of Data

**UNIT-II-DESCRIBING DATA**

9

Types of Data - Types of Variables -Describing Data with Tables and Graphs –Describing Data with Averages - Describing Variability - Normal Distributions and Standard (z) Scores

**UNIT-III-DESCRIBING RELATIONSHIPS**

9

Correlation –Scatter plots –correlation coefficient for quantitative data –computational formula for correlation coefficient – Regression –regression line –least squares regression line – Standard error of estimate – interpretation of  $r^2$  –multiple regression equations – regression towards the mean

**UNIT-IV- PYTHON LIBRARIES FOR DATA WRANGLING**

9

Basics of Numpy arrays –aggregations –computations on arrays –comparisons, masks, boolean logic – fancy indexing – structured arrays – Data manipulation with Pandas – data indexing and selection – operating on data – missing data – Hierarchical indexing – combining datasets – aggregation and grouping – pivot tables

**UNIT-V-DATAVISUALIZATION**

9

Importing Matplotlib – Line plots – Scatter plots – visualizing errors – density and contour plots – Histograms – legends – colors – subplots – text and annotation – customization – three dimensional plotting - Geographic Data with Basemap - Visualization with Seaborn.

**COURSE OUTCOMES:**

At the end of this course, the students will be able to:

CO1: Define the data science process

CO2: Understand different types of data description for data science process

CO3: Gain knowledge on relationships between data

CO4: Use the Python Libraries for Data Wrangling


CO5: Apply visualization Libraries in Python to interpret and explore data

**TOTAL:45 PERIODS**

**TEXT BOOKS**

1. David Cielen, Arno D. B. Meysman, and Mohamed Ali, "Introducing Data Science", Manning Publications, 2016. (Unit I)
2. Robert S. Witte and John S. Witte, "Statistics", Eleventh Edition, Wiley Publications, 2017. (Units II and III)
3. Jake VanderPlas, "Python Data Science Handbook", O'Reilly, 2016. (Units IV and V)

REFERENCES: 1. Allen B. Downey, "Think Stats: Exploratory Data Analysis in Python", Green Tea Press, 2014

  
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**COURSE OBJECTIVES:**

The main objectives of this course are to:

- Study about uninformed and Heuristic search techniques.
- Learn techniques for reasoning under uncertainty
- Introduce Machine Learning and supervised learning algorithms
- Study about ensembling and unsupervised learning algorithms
- Learn the basics of deep learning using neural networks 32

**UNIT I PROBLEM SOLVING 9**

Introduction to AI - AI Applications - Problem solving agents – search algorithms – uninformed search strategies – Heuristic search strategies – Local search and optimization problems – adversarial search – constraint satisfaction problems (CSP)

**UNIT II PROBABILISTIC REASONING 9**

Acting under uncertainty – Bayesian inference – naïve bayes models. Probabilistic reasoning – Bayesian networks – exact inference in BN – approximate inference in BN – causal networks.

**UNIT III SUPERVISED LEARNING 9**

Introduction to machine learning – Linear Regression Models: Least squares, single & multiple variables, Bayesian linear regression, gradient descent, Linear Classification Models: Discriminant function – Probabilistic discriminative model - Logistic regression, Probabilistic generative model – Naive Bayes, Maximum margin classifier – Support vector machine, Decision Tree, Random forests

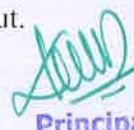
**UNIT IV ENSEMBLE TECHNIQUES AND UNSUPERVISED LEARNING 9**

Combining multiple learners: Model combination schemes, Voting, Ensemble Learning - bagging, boosting, stacking, Unsupervised learning: K-means, Instance Based Learning: KNN, Gaussian mixture models and Expectation maximization

**UNIT V NEURAL NETWORKS 9**

Perceptron - Multilayer perceptron, activation functions, network training – gradient descent optimization – stochastic gradient descent, error back propagation, from shallow networks to deep networks – Unit saturation (aka the vanishing gradient problem) – ReLU, hyper parameter tuning, batch normalization, regularization, dropout.

45 PERIODS



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### **PRACTICAL EXERCISES: 30 PERIODS**

1. Implementation of Uninformed search algorithms (BFS, DFS)
2. Implementation of Informed search algorithms (A\*, memory-bounded A\*)
3. Implement naïve Bayes models
4. Implement Bayesian Networks
5. Build Regression models
6. Build decision trees and random forests
7. Build SVM models
8. Implement ensembling techniques
9. Implement clustering algorithms
10. Implement EM for Bayesian networks
11. Build simple NN models
12. Build deep learning NN models

### **COURSE OUTCOMES:**

At the end of this course, the students will be able to:

CO1: Use appropriate search algorithms for problem solving

CO2: Apply reasoning under uncertainty

CO3: Build supervised learning models 33

CO4: Build ensembling and unsupervised models

CO5: Build deep learning neural network models


**TOTAL:75 PERIODS**

### **TEXT BOOKS:**

1. Stuart Russell and Peter Norvig, "Artificial Intelligence – A Modern Approach", Fourth Edition, Pearson Education, 2021.
2. Ethem Alpaydin, "Introduction to Machine Learning", MIT Press, Fourth Edition, 2020.

### **REFERENCES:**

1. Dan W. Patterson, "Introduction to Artificial Intelligence and Expert Systems", Pearson Education, 2007
2. Kevin Night, Elaine Rich, and Nair B., "Artificial Intelligence", McGraw Hill, 2008
3. Patrick H. Winston, "Artificial Intelligence", Third Edition, Pearson Education, 2006
4. Deepak Khemani, "Artificial Intelligence", Tata McGraw Hill Education, 2013  
(<http://nptel.ac.in/>)
5. Christopher M. Bishop, "Pattern Recognition and Machine Learning", Springer, 2006.
6. Tom Mitchell, "Machine Learning", McGraw Hill, 3rd Edition, 1997.

  
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7. Charu C. Aggarwal, "Data Classification Algorithms and Applications", CRC Press, 2014
8. Mehryar Mohri, Afshin Rostamizadeh, Ameet Talwalkar, "Foundations of Machine Learning", MIT Press, 2012.
9. Ian Goodfellow, Yoshua Bengio, Aaron Courville, "Deep Learning", MIT Press, 201



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**COURSE OBJECTIVES:**

- To understand big data.
- To learn and use NoSQL big data management.
- To learn mapreduce analytics using Hadoop and related tools.
- To work with map reduce applications
- To understand the usage of Hadoop related tools for Big Data Analytics

**UNIT I UNDERSTANDING BIG DATA 5**

Introduction to big data – convergence of key trends – unstructured data – industry examples of big data – web analytics – big data applications – big data technologies – introduction to Hadoop – open Padeepz App Padeepz App 119 source technologies – cloud and big data – mobile business intelligence – Crowd sourcing analytics – inter and trans firewall analytics.

**UNIT II NOSQL DATA MANAGEMENT 7**

Introduction to NoSQL – aggregate data models – key-value and document data models – relationships – graph databases – schemaless databases – materialized views – distribution models – master-slave replication – consistency - Cassandra – Cassandra data model – Cassandra examples – Cassandra clients

**UNIT III MAP REDUCE APPLICATIONS 6**

MapReduce workflows – unit tests with MRUnit – test data and local tests – anatomy of MapReduce job run – classic Map-reduce – YARN – failures in classic Map-reduce and YARN – job scheduling – shuffle and sort – task execution – MapReduce types – input formats – output formats.

**UNIT IV BASICS OF HADOOP 6**

Data format – analyzing data with Hadoop – scaling out – Hadoop streaming – Hadoop pipes – design of Hadoop distributed file system (HDFS) – HDFS concepts – Java interface – data flow – Hadoop I/O – data integrity – compression – serialization – Avro – file-based data structures - Cassandra – Hadoop integration.

**UNIT V HADOOP RELATED TOOLS 6**

Hbase – data model and implementations – Hbase clients – Hbase examples – praxis. Pig – Grunt – pig data model – Pig Latin – developing and testing Pig Latin scripts. Hive – data types and file formats – HiveQL data definition – HiveQL data manipulation – HiveQL queries.

**30 PERIODS**

**COURSE OUTCOMES:**

After the completion of this course, students will be able to:

CO1:Describe big data and use cases from selected business domains.

CO2:Explain NoSQL big data management.

CO3:Install, configure, and run Hadoop and HDFS.

CO4:Perform map-reduce analytics using Hadoop.

CO5:Use Hadoop-related tools such as HBase, Cassandra, Pig, and Hive for big data analytics.

**LIST OF EXPERIMENTS:**

1. Downloading and installing Hadoop; Understanding different Hadoop modes. Startup scripts, Configuration files.
2. Hadoop Implementation of file management tasks, such as Adding files and directories, retrieving files and Deleting files
3. Implement of Matrix Multiplication with Hadoop Map Reduce
4. Run a basic Word Count Map Reduce program to understand Map Reduce Paradigm.
5. Installation of Hive along with practice examples.
7. Installation of HBase, Installing thrift along with Practice examples
8. Practice importing and exporting data from various databases.

**Software Requirements:** Cassandra, Hadoop, Java, Pig, Hive and HBase.

**30 PERIODS**

**TOTAL:60 PERIODS**



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### **TEXT BOOKS:**

1. Michael Minelli, Michelle Chambers, and AmbigaDhiraj, "Big Data, Big Analytics: Emerging Business Intelligence and Analytic Trends for Today's Businesses", Wiley, 2013.
2. Eric Sammer, "Hadoop Operations", O'Reilley, 2012.
3. Sadalage, Pramod J. "NoSQL distilled", 2013

### **REFERENCES:**

1. E. Capriolo, D. Wampler, and J. Rutherglen, "Programming Hive", O'Reilley, 2012.
2. Lars George, "HBase: The Definitive Guide", O'Reilley, 2011.
3. Eben Hewitt, "Cassandra: The Definitive Guide", O'Reilley, 2010.
4. Alan Gates, "Programming Pig", O'Reilley, 2011.



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CCS356

**OBJECT ORIENTED SOFTWARE ENGINEERING**

L T P C

3 0 2 4

**COURSE OBJECTIVES:**

- To understand Software Engineering Lifecycle Models
- To Perform software requirements analysis
- To gain knowledge of the System Analysis and Design concepts using UML.
- To understand software testing and maintenance approaches
- To work on project management scheduling using DevOps

**UNIT I SOFTWARE PROCESS AND AGILE DEVELOPMENT 9**

Introduction to Software Engineering, Software Process, Perspective and Specialized Process Models –Introduction to Agility-Agile Process-Extreme programming-XP Process-Case Study.

**UNIT II REQUIREMENTS ANALYSIS AND SPECIFICATION 9**

Requirement analysis and specification – Requirements gathering and analysis – Software Requirement Specification – Formal system specification – Finite State Machines – Petrinets – Object modelling using UML – Use case Model – Class diagrams – Interaction diagrams – Activity diagrams – State chart diagrams – Functional modelling – Data Flow Diagram- CASE TOOLS.

**UNIT III SOFTWARE DESIGN 9**

Software design – Design process – Design concepts – Coupling – Cohesion – Functional independence – Design patterns – Model-view-controller – Publish-subscribe – Adapter – Command – Strategy – Observer – Proxy – Facade – Architectural styles – Layered - Client Server - Tiered - Pipe and filter- User interface design-Case Study.

**UNIT IV SOFTWARE TESTING AND MAINTENANCE 9**

Testing – Unit testing – Black box testing– White box testing – Integration and System testing– Regression testing – Debugging - Program analysis – Symbolic execution – Model Checking Case Study

**UNIT V PROJECT MANAGEMENT 9**

Software Project Management- Software Configuration Management - Project Scheduling- DevOps: Motivation-Cloud as a platform-Operations- Deployment Pipeline:Overall Architecture Building and Testing-Deployment- Tools- Case Study



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### **COURSE OUTCOMES:**

CO1: Compare various Software Development Lifecycle Models

CO2: Evaluate project management approaches as well as cost and schedule estimation strategies.

CO3: Perform formal analysis on specifications.

CO4: Use UML diagrams for analysis and design.

CO5: Architect and design using architectural styles and design patterns, and test the system

**45 PERIODS**

### **PRACTICAL EXERCISES:**

**30 PERIODS**

### **LIST OF EXPERIMENTS:**

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 using UML 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.

### **SUGGESTED DOMAINS FOR MINI-PROJECT:**

1. Passport automation system.
2. Book bank
3. Exam registration
4. Stock maintenance system.
5. Online course reservation system
6. Airline/Railway reservation system



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7. Software personnel management system
8. Credit card processing
9. e-book management system
10. Recruitment system
11. Foreign trading system
12. Conference management system
13. BPO management system
14. Library management system
15. Student information system


**TOTAL:75 PERIODS**

#### **TEXT BOOKS**

1. Bernd Bruegge and Allen H. Dutoit, "Object-Oriented Software Engineering: Using UML, Patterns and Java", Third Edition, Pearson Education, 2009.
2. Roger S. Pressman, Object-Oriented Software Engineering: An Agile Unified Methodology, First Edition, Mc Graw-Hill International Edition, 2014.

#### **REFERENCES**

1. Carlo Ghezzi, Mehdi Jazayeri, Dino Mandrioli, Fundamentals of Software Engineering, 2nd edition, PHI Learning Pvt. Ltd., 2010.
2. Craig Larman, Applying UML and Patterns, 3rd ed, Pearson Education, 2005.
3. Len Bass, Ingo Weber and Liming Zhu, —DevOps: A Software Architect's Perspective, Pearson Education, 2016
4. Rajib Mall, Fundamentals of Software Engineering, 3rd edition, PHI Learning Pvt. Ltd., 2009.
5. Stephen Schach, Object-Oriented and Classical Software Engineering, 8th ed, McGraw Hill, 2010.

  
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Accredited by NAAC with "A" Grade

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**INTERNSHIP DETAILS 2023-24**

SI. NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731221104007	BAMBAVASAN V	TECHNOFLY SOLUTIONS	BANGALORE	30.07.2024 TO 16.08.2024
2	731221104038	VASANTHKUMAR S			
3	731221104307	SRINIVAS V			

Principal

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Internship  
1 message

MON 22 Jul 2024 at 2.00pm

From: HODCSE<hodcse@jkkmct.edu.in>  
Date: MON 22 Jul 2024 at 2.00pm  
Subject: Internship-reg  
To: TECHNOFLY SOLUTIONS <info@technofly.in>

Dear Sir,


I am requesting to be joining your **TECHNOFLY SOLUTIONS**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following students: **BAMBAVASAN V, VASANTHKUMAR S, SRINIVAS V**

Sincerely,

Third Year CSE Student,  
J K K Munirajah College of Technology,  
T.N.Palayam, Erode-638506, Tamilnadu.

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



**Internship**  
I message

THUR 25 Jul 2024 at 3.30pm

From: TECHNOFLY SOLUTIONS <info@technofly.in>  
Date: THUR 25 Jul 2024 at 3.30pm  
Subject: Internship-reg  
To: HODCSE<hodcse@jkkmct.edu.in>

Dear SIR,

I am writing to confirm my acceptance of your internship offer of 30.07.2024 TO 16.08.2024 and to tell you how to be joining my **TECHNOFLY SOLUTIONS**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on Jul 30, 2024 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following students: **BAMBAVASAN V, VASANTHKUMAR S, SRINIVAS V**

Sincerely,

HR Manager,  
TECHNOFLY SOLUTIONS,  
Bangalore.

  
Principal  
J.K.K.Munirajah College of Technology  
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# TechnoFly Solutions

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## Internship Certificate

This is to certify that **V. BAMBAVASAN** a student of **J K K MUNIRAJAH COLLEGE OF TECHNOLOGY** has completed **3** months/weeks of **Internship** From **30.07.24** To **16.08.24** in **ARTIFICIAL INTELLIGENCE** Domain.

We wish you all the best in your future endeavors.

Date : **16.08.24**

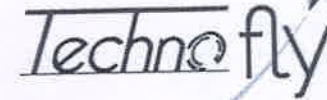
  
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For TechnoFly Solutions



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Mob.: 9663476586, 9741150102 | [www.technofly.in](http://www.technofly.in)

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## Internship Certificate

This is to certify that **S. VASANTH KUMAR** a student of **JKK**  
**MUNIRAJAH COLLEGE OF TECHNOLOGY** has completed **3** months/weeks of **Internship**  
From **30.07.24** To **16.08.24** in **ARTIFICIAL INTELLIGENCE** Domain.

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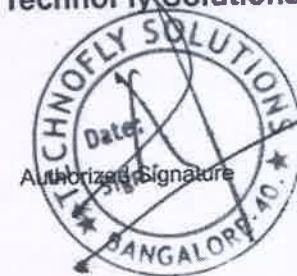
Date : **16.08.24**



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Erode (Dt) - 638 506.

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Mob.: 9663476586, 9741150102 | [www.technofly.in](http://www.technofly.in)

# TechnoFly Solutions



## Internship Certificate

This is to certify that V. SRINIVAS a student of JKK  
MUNIRAJAH COLLEGE OF TECHNOLOGY has completed 3 months/weeks of Internship  
From 30.07.24 To 16.08.24 in ARTIFICIAL INTELLIGENCE Domain.

We wish you all the best in your future endeavors.

Date : 16.08.24

Principal  
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**INTERNSHIP DETAILS 2023-24**

SI. NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731221104001	AADHI SURYA K	FRIENDZION TECHNOLOGIES	HOSUR	08.07.2024 TO 15.07.2024
2	731221104004	ARULMURUGAN S			
3	731221104005	BABUSHANKAR S			
4	731221104009	DHAKSHINA MOORTHIE			

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**T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.**



Internship

1 message

MON 1 July 2024 at 2.00pm

From: HODCSE <hodcse@jkkmct.edu.in>

Date: MON 1 July 2024 at 2.00pm

Subject: Internship-reg

To: FRIENDZION TECHNOLOGIES <info@friendzion.com>

Dear Sir,

I am requesting to be joining your **FRIENDZION TECHNOLOGIES**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following students: **AADHI SURYA K, ARULMURUGAN S, BABUSHANKAR S, DHAKSHINA MOORTHIE**

Sincerely,

Third Year CSE Student,

J K K Munirajah College of Technology,

T.N.Palayam, Erode-638506, Tamilnadu.

Principal

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



**Internship**  
1 message

THUR 4 July 2024 at 3.30pm

From: FRIENDZION TECHNOLOGIES <info@friendzion.com >

Date: THUR 4 July 2024 at 3.30pm

Subject: Internship-reg

To: HODCSE <hodcse@jkkmct.edu.in>

Dear SIR,


I am writing to confirm my acceptance of your internship offer of 08.07.2024 to 15.07.2024 and to tell you how to be joining my **FRIENDZION TECHNOLOGIES**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

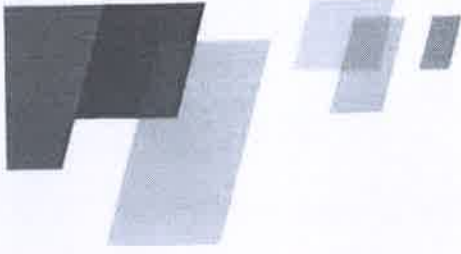
As we discussed, I will report at 8:00 a.m. on July 22, 2024 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following students: **AADHI SURYA K, ARULMURUGAN S, BABUSHANKAR S, DHAKSHINA MOORTHIE**

Sincerely,

HR Manager,  
FRIENDZION TECHNOLOGIES,  
Basthi Road, Hosur.

  
**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



www.friendzion.com

To

**Mr AADHISURYA K**

Register No: 731221104001

Year :4

Department: B.E.,Computer Science Engineering

College : J K K Munirajah college of Technology

Course: Digital Marketing

Intern days: 08/07/2024 to 15/07/2024

**CERTIFICATE FOR INTERNSHIP**

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Mr AADHISURYA K** has completed his internship on Digital Marketing with **Friendzion Technologies – Hosur, TN**. During his period of internship, he was sincere and dedicated to the task assigned to him. He was under the guidance of **Mr. Prasanth R (Project Manager)**. The internship period was 08/07/2024 to 15/07/2024.

His code of conduct is good. We wish him all the best for future endeavors.


With regards,



**Basthi Road, Avalapalli, Hosur, Tamil Nadu 635109**

**Email: info@friendzion.com**

**Phone: 093803 12340**

  
**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

To

**Mr ARULMURUGAN S**

Register No: 731221104004

Year :4

Department: B.E.,Computer Science Engineering

College : J K K Munirajah college of Technology

Course: Digital Marketing

Intern days: 08/07/2024 to 15/07/2024

**CERTIFICATE FOR INTERNSHIP****TO WHOMSOEVER IT MAY CONCERN**


This is to certify that **Mr ARULMURUGAN S** has completed his internship on Digital Marketing with **Friendzion Technologies – Hosur, TN**. During his period of internship, he was sincere and dedicated to the task assigned to him. He was under the guidance of **Mr. Prasanth R (Project Manager)**. The internship period was 08/07/2024 to 15/07/2024.

His code of conduct is good. We wish him all the best for future endeavors.

With regards,



**Basthi Road, Avalapalli, Hosur, Tamil Nadu 635109**  
**Email: info@friendzion.com**  
**Phone: 093803 12340**

  
**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

To

**Mr BABUSHANKAR S**

Register No: 731221104005

Year :4

Department: B.E., Computer Science Engineering

College : J K K Munirajah college of Technology

Course: Digital Marketing

Intern days: 08/07/2024 to 15/07/2024

**CERTIFICATE FOR INTERNSHIP**

**TO WHOMSOEVER IT MAY CONCERN**


This is to certify that **Mr BABUSHANKAR S** has completed his internship on Digital Marketing with **Friendzion Technologies – Hosur, TN**. During his period of internship, he was sincere and dedicated to the task assigned to him. He was under the guidance of **Mr. Prasanth R (Project Manager)**. The internship period was 08/07/2024 to 15/07/2024.

His code of conduct is good. We wish him all the best for future endeavors.

With regards,



**Basthi Road, Avalapalli, Hosur, Tamil Nadu 635109**  
**Email: info@friendzion.com**  
**Phone: 093803 12340**

  
**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

To

**Mr DHAKSHINA MOORTHIE**

Register No: 731221104009

Year :4

Department: B.E.,Computer Science Engineering

College : J K K Munirajah college of Technology

Course: Digital Marketing

Intern days: 22/07/2024 to 29/07/2024

**CERTIFICATE FOR INTERNSHIP**

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Mr DHAKSHINA MOORTHIE** has completed his internship on Digital Marketing with **Friendzion Technologies – Hosur, TN**. During his period of internship, he was sincere and dedicated to the task assigned to him. He was under the guidance of **Mr. Prasanth R (Project Manager)**. The internship period was 22/07/2024 to 29/07/2024.

His code of conduct is good. We wish him all the best for future endeavors.



**Basthi Road, Avalapalli, Hosur, Tamil Nadu 635109**

**Email: info@friendzion.com**

**Phone: 093803 12340**



**Principal**

**J.K.K.Munirajah College of Technology  
(Autonomous)**

**T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.**

**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY  
(AUTONOMOUS)**

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



**INTERNSHIP DETAILS 2023-24**

SL. NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731221104013	GUNASEKARAN P	FRIENDZION TECHNOLOGIES	HOSUR	22.07.2024 TO 29.07.2024
2	731221104014	GUNASEKARAN S			
3	731221104022	MADHAN G			
4	731221104027	PANDIYARAJ P			
5	731221104036	SURYA S			
6	731221104039	VIGNESH M			

  
**Principal**  
J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



Internship

1 message

MON 15 July 2024 at 2.00pm

From: HODCSE<hodcse@jkkmct.edu.in>

Date: MON 15 July 2024 at 2.00pm

Subject: Internship-reg

To: FRIENDZION TECHNOLOGIES <info@friendzion.com>

Dear Sir,

I am requesting to be joining your **FRIENDZION TECHNOLOGIES**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following students: **GUNASEKARAN P, GUNASEKARAN S, MADHAN G, PANDIYARAJ P, SURYA S, VIGNESH M**

Sincerely,

Third Year CSE Student,

J K K Munirajah College of Technology,

T.N.Palayam, Erode-638506, Tamilnadu.

Principal

J.K.K.Munirajah College of Technology  
(Autonomous)

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



**Internship**

1 message

THUR 18 July 2024 at 3.30pm

From: FRIENDZION TECHNOLOGIES <info@friendzion.com >

Date: THUR 18 July 2024 at 3.30pm

Subject: Internship-reg

To: HODCSE <hodcse@jkkmct.edu.in>

Dear SIR,

I am writing to confirm my acceptance of your internship offer of 22.07.2024 to 29.07.2024 and to tell you how to be joining my **FRIENDZION TECHNOLOGIES**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on July 22, 2024 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following students: **GUNASEKARAN P, GUNASEKARAN S, MADHAN G, PANDIYARAJ P, SURYA S, VIGNESH M**

Sincerely,

HR Manager,  
FRIENDZION TECHNOLOGIES,  
Basthi Road, Hosur.

  
Principal  
J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

To

**Mr GUNASEKARAN P**

Register No: 731221104013

Year :4

Department: B.E., Computer Science Engineering

College : J K K Munirajah college of Technology

Course: Digital Marketing

Intern days: 22/07/2024 to 29/07/2024

**CERTIFICATE FOR INTERNSHIP****TO WHOMSOEVER IT MAY CONCERN**


This is to certify that **Mr GUNASEKARAN P** has completed his internship on Digital Marketing with **Friendzion Technologies – Hosur, TN**. During his period of internship, he was sincere and dedicated to the task assigned to him. He was under the guidance of **Mr. Prasanth R (Project Manager)**. The internship period was 22/07/2024 to 29/07/2024.

His code of conduct is good. We wish him all the best for future endeavors.

With regards,



Basthi Road, Avalapalli, Hosur, Tamil Nadu 635109  
Email: [info@friendzion.com](mailto:info@friendzion.com)  
Phone: 093803 12340

  
Principal  
J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

To

**Mr GUNASEKARAN S**

Register No: 731221104014

Year :4

Department: B.E., Computer Science Engineering

College : J K K Munirajah college of Technology

Course: Digital Marketing

Intern days: 22/07/2024 to 29/07/2024

**CERTIFICATE FOR INTERNSHIP**

**TO WHOMSOEVER IT MAY CONCERN**


This is to certify that **Mr GUNASEKARAN S** has completed his internship on Digital Marketing with **Friendzion Technologies – Hosur, TN**. During his period of internship, he was sincere and dedicated to the task assigned to him. He was under the guidance of **Mr. Prasanth R (Project Manager)**. The internship period was 22/07/2024 to 29/07/2024.

His code of conduct is good. We wish him all the best for future endeavors.

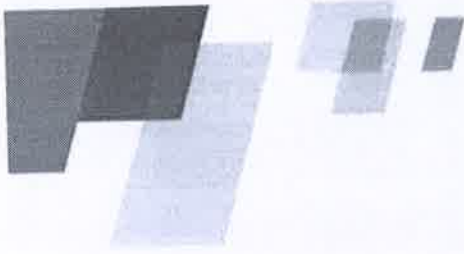
With regards,



**Basthi Road, Avalapalli, Hosur, Tamil Nadu 635109**  
**Email: info@friendzion.com**  
**Phone: 093803 12340**



**Principal**  
**J.K.K.Munirajah College of Technology**  
**(Autonomous)**  
**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506.**



To

**Mr MADHAN G**

Register No: 731221104022

Year :4

Department: B.E.,Computer Science Engineering

College : J K K Munirajah college of Technology

Course: Digital Marketing

Intern days: 22/07/2024 to 29/07/2024

**CERTIFICATE FOR INTERNSHIP**


**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Mr MADHAN G** has completed his internship on Digital Marketing with **Friendzion Technologies – Hosur, TN.** During his period of internship, he was sincere and dedicated to the task assigned to him. He was under the guidance of **Mr. Prasanth R (Project Manager).** The internship period was 22/07/2024 to 29/07/2024.

His code of conduct is good. We wish him all the best for future endeavors.



**Basthi Road, Avalapalli, Hosur, Tamil Nadu 635109**  
**Email: info@friendzion.com**  
**Phone: 093803 12340**

  
**Principal**  
**J.K.K.Munirajah College of Technology**  
**(Autonomous)**  
**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506.**

To

**Mr PANDIYARAJ P**

Register No: 731221104027

Year :4

Department: B.E., Computer Science Engineering

College : J K K Munirajah college of Technology

Course: Digital Marketing

Intern days: 22/07/2024 to 29/07/2024

**CERTIFICATE FOR INTERNSHIP**

**TO WHOMSOEVER IT MAY CONCERN**


This is to certify that **Mr PANDIYARAJ P** has completed his internship on Digital Marketing with **Friendzion Technologies – Hosur, TN**. During his period of internship, he was sincere and dedicated to the task assigned to him. He was under the guidance of **Mr. Prasanth R (Project Manager)**. The internship period was 22/07/2024 to 29/07/2024.

His code of conduct is good. We wish him all the best for future endeavors.

With regards,



**Basthi Road, Avalapalli, Hosur, Tamil Nadu 635109**  
**Email: info@friendzion.com**  
**Phone: 093803 12340**



**Principal**  
**J.K.K. Munirajah College of Technology**  
**(Autonomous)**  
**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506.**

To

**Mr SURYA S**

Register No: 731221104036

Year :4

Department: B.E., Computer Science Engineering

College : J K K Munirajah college of Technology

Course: Digital Marketing

Intern days: 22/07/2024 to 29/07/2024

**CERTIFICATE FOR INTERNSHIP**

**TO WHOMSOEVER IT MAY CONCERN**


This is to certify that **Mr SURYA S** has completed his internship on Digital Marketing with **Friendzion Technologies – Hosur, TN**. During his period of internship, he was sincere and dedicated to the task assigned to him. He was under the guidance of **Mr. Prasanth R** (Project Manager). The internship period was 22/07/2024 to 29/07/2024.

His code of conduct is good. We wish him all the best for future endeavors.

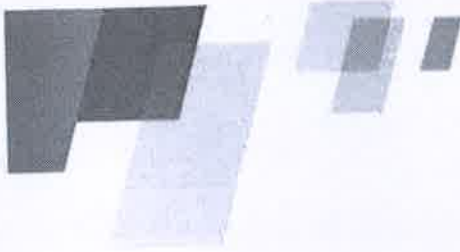
With regards,



**Basthi Road, Avalapalli, Hosur, Tamil Nadu 635109**  
**Email: [info@friendzion.com](mailto:info@friendzion.com)**  
**Phone: 093803 12340**



**Principal**  
**J.K.K.Munirajah College of Technology**  
**(Autonomous)**  
**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506.**



To

**Mr VIGNESH M**

Register No: 731221104039

Year :4

Department: B.E.,Computer Science Engineering

College : J K K Munirajah college of Technology

Course: Digital Marketing

Intern days: 22/07/2024 to 29/07/2024

**CERTIFICATE FOR INTERNSHIP**

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Mr VIGNESH M** has completed his internship on Digital Marketing with **Friendzion Technologies – Hosur, TN.** During his period of internship, he was sincere and dedicated to the task assigned to him. He was under the guidance of **Mr. Prasanth R (Project Manager).** The internship period was 22/07/2024 to 29/07/2024.

His code of conduct is good. We wish him all the best for future endeavors.


With regards,



**Basthi Road, Avalapalli, Hosur, Tamil Nadu 635109**

**Email: [info@friendzion.com](mailto:info@friendzion.com)**

**Phone: 093803 12340**

  
Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY  
(AUTONOMOUS)**

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



**INTERNSHIP DETAILS 2023-24**

SI. NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731221104701	NIKETHA S	JRM INFOTECH	HOSUR	18.07.2024 TO 03.08.2024

**Principal**

**J.K.K. Munirajah College of Technology  
(Autonomous)**

**T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.**



Internship

1 message

MON 8 July 2024 at 2.00pm

From: HODCSE<hodcse@jkkmct.edu.in>

Date: MON 8 July 2024 at 2.00pm

Subject: Internship-reg

To: JRM INFOTECH<hr@jrminfotech.com >

Dear Sir,


I am requesting to be joining your **JRM INFOTECH**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following student: **NIKETHA S**

Sincerely,

Third Year CSE Student,  
J K K Munirajah College of Technology,  
T.N.Palayam, Erode-638506, Tamilnadu.

  
Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



Internship

1 message

THUR 11 July 2024 at 3.30pm

From: JRM INFOTECH <hr@jrminfotech.com >

Date: THUR 11 July 2024 at 3.30pm

Subject: Internship-reg

To: HODCSE <hodcse@jkkmct.edu.in>

Dear SIR,

I am writing to confirm my acceptance of your internship offer of 18.07.2024 to 03.08.2024 and to tell you how to be joining my **JRM INFOTECH**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on July 18, 2024 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following student: **NIKETHA S**

Sincerely,

HR Manager,  
JRM INFOTECH,  
Hosur.

**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

jrm infotech

+91 9677769053 •

info@jrminfotech.com •

www.jrminfotech.com •

Apollo Pharmacy, Bagalur road  
GRT circle, Hosur-635109 •

Date:04/08/2024

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Niketha S (RegNo:731221104701), B.E (CSE)** student from **JKK Munirajah College of Technology, Erode** has completed her **"Internship on Python"** from **18-07-2024 to 03-08-2024** in our concern.

During the internship, She actively participated and we wish her a great future.

**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

For JRM INFOTECH,

Authorized Signatory

**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY  
(AUTONOMOUS)**

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



**INTERNSHIP DETAILS 2023-24**

SI. NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731221104012	CHANDRAPRAKASH K	GATEWAY SOFTWARE SOLUTION	COIMBATORE	01.08.2024 TO 08.08.2024
2	731221104015	RAVI KUMAR P			
3	731221104025	SHYAMKUMAR S			

Principal

J.K.K.Munirajah College of Technology  
(Autonomous)

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



Internship  
1 message

MON 22 Aug 2024 at 2.00pm

From: HODCSE<hodcse@jkkmct.edu.in>

Date: MON 22 Aug 2024 at 2.00pm

Subject: Internship-reg

To: GATEWAY SOFTWARE SOLUTION<info@gatewaysoftwaresolutions.com>

Dear Sir,

I am requesting to be joining your **GATEWAY SOFTWARE SOLUTION**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following students: **CHANDRAPRAKASH K**, **RAVI KUMAR P**,  
**SHYAMKUMAR S**

Sincerely,

Third Year CSE Student,  
J K K Munirajah College of Technology,  
T.N.Palayam, Erode-638506, Tamilnadu.

  
**Principal**  
**J.K.K.Munirajah College of Technology**  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



Internship

1 message

THUR 22 Aug 2024 at 3.30pm

From: GATEWAY SOFTWARE SOLUTION<info@gatewaysoftwaresolutions.com >

Date: THUR 25 Aug 2024 at 3.30pm

Subject: Internship-reg

To: HODCSE<hodcse@jkkmct.edu.in>

Dear SIR,

I am writing to confirm my acceptance of your internship offer of 01.08.2024 TO 08.08.2024 and to tell you how to be joining my **GATEWAY SOFTWARE SOLUTION**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on Aug 01, 2024 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following students: **CHANDRAPRAKASH K, RAVI KUMAR P, SHYAMKUMAR S**

Sincerely,

HR Manager,  
GATEWAY SOFTWARE SOLUTION,  
Coimbatore.

  
**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

# GATEWAY SOFTWARE SOLUTIONS

Software Development | Outsourcing



ISO 9001:2015 Certified company

Delivery Partner of

Hewlett Packard Enterprise

CERTIFICATE

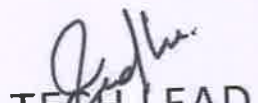
This is to Certify that Mr/Ms. **CHANDRAPRAXASH SK** ..... of **B.E. [CSE] FINAL YEAR** .....

..... **J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY** ..... have successfully completed his/her

Workshop/In Plant Training / Internship on " **BLOCKCHAIN TECHNOLOGY** ....."

from **01.08.2024** ..... to **08.08.2024** ..... in our company located at Coimbatore.

  
HRD

  
TECH LEAD

  
Principal  
J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Coimbatore  
Erode (Dist - Erode)

E-mail : [info@gatewaysoftwaresolutions.com](mailto:info@gatewaysoftwaresolutions.com) | Phone no : 0422 4950897 | [www.gatewaysoftwaresolutions.com](http://www.gatewaysoftwaresolutions.com)

# G GATEWAY SOFTWARE SOLUTIONS

Software Development | Outsourcing



ISO 9001:2015 Certified company

Delivery Partner of

Hewlett Packard  
Enterprise

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This is to Certify that Mr/Ms... **RAVIKUMAR P** ..... of **BE [CSE] FINAL YEAR** .....

..... **J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY** ..... have successfully completed his/her

Workshop/In Plant Training / Internship on " ..... **BLOCKCHAIN TECHNOLOGY** ....."

from **01.08.2024** ..... to **08.08.2024** ..... in our company located at Coimbatore.



*[Signature]*  
TECH LEAD

*[Signature]*  
Principal  
J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam  
Erode (TN) - 635 006

E-mail : [info@gatewaysoftwaresolutions.com](mailto:info@gatewaysoftwaresolutions.com) | Phone no : 0422 4950897 | [www.gatewaysoftwaresolutions.com](http://www.gatewaysoftwaresolutions.com)

# GATEWAY SOFTWARE SOLUTIONS

Software Development | Outsourcing



ISO 9001:2015 Certified company

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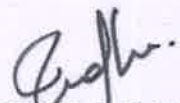
This is to Certify that Mr/Ms.....**SHYAM KUMAR S**.....of **B.E [CSE] FINAL YEAR**.....

.....**J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY**.....have successfully completed his/her

Workshop/In Plant Training / Internship on ".....**BLOCK CHAIN TECHNOLOGY**....."

from...**01/08/2024**.....to...**08/08/2024**.....in our company located at Coimbatore.

  
HRD

  
TECH LEAD

  
Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palavan, Coimbatore  
Erud (D) - 635 506

E-mail : [info@gatewaysoftwaresolutions.com](mailto:info@gatewaysoftwaresolutions.com) | Phone no : 0422 4950897 | [www.gatewaysoftwaresolutions.com](http://www.gatewaysoftwaresolutions.com)

**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY  
(AUTONOMOUS)**



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



**INTERNSHIP DETAILS 2023-24**

SI. NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731221104302	BHARANI DHARAN.M	GATEWAY SOFTWARE SOLUTION	COIMBATORE	22.07.2024 TO 29.07.2024

**Principal**

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



Internship

1 message

MON 15 Jul 2024 at 2.00pm

From: HODCSE<hodcse@jkkmct.edu.in>

Date: MON 15 Jul 2024 at 2.00pm

Subject: Internship-reg

To: GATEWAY SOFTWARE SOLUTION<info@gatewaysoftwaresolutions.com>

Dear Sir,

I am requesting to be joining your **GATEWAY SOFTWARE SOLUTION**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following student: **BHARANI DHARAN.M**

Sincerely,

Third Year CSE Student,

J K K Munirajah College of Technology,

T.N.Palayam, Erode-638506, Tamilnadu.

Principal

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



Internship  
1 message

THUR 18 Jul 2024 at 3.30pm

From: GATEWAY SOFTWARE SOLUTION<info@gatewaysoftwaresolutions.com >  
Date: THUR 18 Jul 2024 at 3.30pm  
Subject: Internship-reg  
To: HODCSE<hodcse@jkkmct.edu.in>

Dear SIR,

I am writing to confirm my acceptance of your internship offer of 22.07.2024 TO 29.07.2024 and to tell you how to be joining my GATEWAY SOFTWARE SOLUTION. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on Jul 22, 2024 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following student: BHARANI DHARAN.M

Sincerely,

HR Manager,  
GATEWAY SOFTWARE SOLUTION,  
Coimbatore.

  
Principal  
J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

# GATEWAY SOFTWARE SOLUTIONS

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This is to Certify that Mr/Ms.....**BHARANIDHARAN...M**.....of **B.E [CSE] FINAL YEAR**.....

.....**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY**.....have successfully completed his/her

Workshop/In Plant Training / Internship on “ **ARTIFICIAL INTELLIGENCE**.....

from...**22/07/2024**.....to **29/07/2024**.....in our company located at Coimbatore.



  
TECH LEAD

  
Principal  
J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (TK),  
Erode (Dt) - 638 506.

E-mail : [info@gatewaysoftwaresolutions.com](mailto:info@gatewaysoftwaresolutions.com) | Phone no : 0422 4950897 | [www.gatewaysoftwaresolutions.com](http://www.gatewaysoftwaresolutions.com)



**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY  
(AUTONOMOUS)**

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



**INTERNSHIP DETAILS 2023-24**

SL. NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731221104301	AMUTHAMALAR R	SOFTGRO TECHNOLOGIES	CHENNAI	24.07.2024 TO 08.08.2024

**Principal**

**J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.**



Internship

1 message

MON 15 July 2024 at 2.00pm

From: HODCSE <hodcse@jkkmct.edu.in>

Date: MON 15 July 2024 at 2.00pm

Subject: Internship-reg

To: SOFTGRO TECHNOLOGIES <hr@softgro.com >

Dear Sir,

I am requesting to be joining your **SOFTGRO TECHNOLOGIES**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following student: **AMUTHAMALAR.R**

Sincerely,

Third Year CSE Student,

J K K Munirajah College of Technology,

T.N.Palayam, Erode-638506, Tamilnadu.

Principal

J.K.K.Munirajah College of Technology

(Autonomous)

T.N.Palayam, Gobi (Tk),

Erode (Dt) - 638 506.



Internship

1 message

THUR 18 July 2024 at 3.30pm

From: SOFTGRO TECHNOLOGIES <hr@softgro.com >

Date: THUR 18 July 2024 at 3.30pm

Subject: Internship-reg

To: HODCSE<hodcse@jkkmct.edu.in>

Dear SIR,

I am writing to confirm my acceptance of your internship offer of 24.07.2024 to 08.08.2024 and to tell you how to be joining my SOFTGRO TECHNOLOGIES. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on July 24, 2024 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following student: AMUTHAMALAR.R

Sincerely,

HR Manager,  
SOFTGRO TECHNOLOGIES,  
Cinemas Maduravoyal, Chennai

Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

**Date:08-08-2024**

**INTERNSHIP COMPLETION CERTIFICATE**

This is to certify that Ms. **AMUTHAMALAR. R**, Reg No: **731221104301** student of **JKK MUNIRAJAH COLLEGE OF TECHNOLOGY** Department of **BE.CSE** has successfully completed his/her **MACHINE LEARNING WITH PYTHON INTERNSHIP** from **24-07-2024** to **08-08-2024** in our organization.

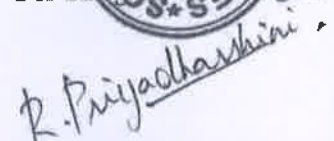
During the tenure of training, we found his/her sincere, attentive and good behaviour.



**Principal**  
**J.K.K.Munirajah College of Technology**  
**(Autonomous)**  
**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506.**



For SoftGro Technologies

  
Authorised signature

**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY  
(AUTONOMOUS)**

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



**INTERNSHIP DETAILS 2023-24**

SI. NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731221104012	DURGA K	ENCAPSULATE IT	COIMBATORE	15.07.2024 TO 25.07.2024
2	731221104015	HARIPRABHA V			
3	731221104025	MOUSIKA S			
4	731221104026	NANDHINI P			
5	731221104031	RUBIKA G			
6	731221104035	SUGANYA K			
7	731221104303	GAYATHRI R			

**Principal**

**J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.**



Internship

1 message

MON 8 July 2024 at 2.00pm

From: HODCSE<hodcse@jkkmct.edu.in>

Date: MON 8 July 2024 at 2.00pm

Subject: Internship-reg

To: ENCAPSULATE IT<admin@Encapsulateit.in>

Dear Sir,

I am requesting to be joining your **ENCAPSULATE IT**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following students: **DURGA K, HARIPRABHA V, MOUSIKA S, NANDHINI P, RUBIKA G, GAYATHRI R**

Sincerely,

Third Year CSE Student,

J K K Munirajah College of Technology,

T.N.Palayam, Erode-638506, Tamilnadu.

**Principal**

J.K.K.Munirajah College of Technology  
(Autonomous)

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



Internship

1 message

THUR 11 July 2024 at 3.30pm

From: ENCAPSULATE IT <admin@Encapsulateit.in>

Date: THUR 11 July 2024 at 3.30pm

Subject: Internship-reg

To: HODCSE <hodcse@jkkmct.edu.in>

Dear SIR,

I am writing to confirm my acceptance of your internship offer of 15.07.2024 to 25.07.2024 and to tell you how to be joining my ENCAPSULATE IT. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on July 15, 2024 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following students: DURGA K, HARIPRABHA V, MOUSIKA S, NANDHINI P, RUBIKA G, GAYATHRI R

Sincerely,

HR Manager,  
ENCAPSULATE IT,  
Saravanampatti, Coimbatore

Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

25 July, 2024

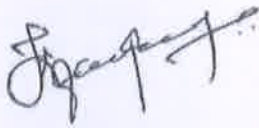
**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Ms. DURGA K** (Reg.No: 731221104012) student of BE-CSE, JKMM College of Technology has done her **internship in Data Analytics at Encapsulate IT** Coimbatore from 15 July 2024 to 25 July 2024.

During the internship, she demonstrated good design skills with a self-motivated attitude to learn new things and displaying her ability to work both independently and collaboratively in a team environment. Her performance exceeded expectations and was able to complete the project successfully on time.

We wish her all the best for her future endeavors.

for Encapsulate IT,



Authorized Signatory



**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

25 July, 2024

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Ms. HARIPRABHA V** (Reg.No: 731221104015) student of BE-CSE, JKKM College of Technology has done her internship in **Data Analytics at Encapsulate IT** Coimbatore from 15 July 2024 to 25 July 2024.

During the internship, she demonstrated good design skills with a self-motivated attitude to learn new things and displaying her ability to work both independently and collaboratively in a team environment. Her performance exceeded expectations and was able to complete the project successfully on time.

We wish her all the best for her future endeavors.

for Encapsulate IT,



Authorized Signatory



**Principal**

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

25 July, 2024

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Ms. NANDHINI P** (Reg.No: 731221104026) student of BE-CSE, JKKM College of Technology has done her **Internship in Data Analytics at Encapsulate IT** Coimbatore from 15 July 2024 to 25 July 2024.

During the internship, she demonstrated good design skills with a self-motivated attitude to learn new things and displaying her ability to work both independently and collaboratively in a team environment. Her performance exceeded expectations and was able to complete the project successfully on time.

We wish her all the best for her future endeavors.

for Encapsulate IT,



Authorized Signatory



Principal

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

25 July, 2024

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Ms. MOUSIKA S** (Reg.No: 731221104025) student of BE-CSE, JKKM College of Technology has done her internship in **Data Analytics at Encapsulate IT** Coimbatore from 15 July 2024 to 25 July 2024.

During the internship, she demonstrated good design skills with a self-motivated attitude to learn new things and displaying her ability to work both independently and collaboratively in a team environment. Her performance exceeded expectations and was able to complete the project successfully on time.


We wish her all the best for her future endeavors.

for Encapsulate IT,



Authorized Signatory



  
**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

25 July, 2024

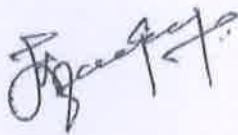
**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Ms. RUBIKA G** (Reg.No: 731221104031) student of BE-CSE, JKKM College of Technology has done her internship in **Data Analytics at Encapsulate IT** Coimbatore from 15 July 2024 to 25 July 2024.

During the internship, she demonstrated good design skills with a self-motivated attitude to learn new things and displaying her ability to work both independently and collaboratively in a team environment. Her performance exceeded expectations and was able to complete the project successfully on time.

We wish her all the best for her future endeavors.

for Encapsulate IT,



Authorized Signatory



**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

25 July, 2024


**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that **Ms. SUGANYA K** (Reg.No: 731221104035) student of BE-CSE, JKKM College of Technology has done her **internship in Data Analytics at Encapsulate IT** Coimbatore from 15 July 2024 to 25 July 2024.

During the internship, she demonstrated good design skills with a self-motivated attitude to learn new things and displaying her ability to work both independently and collaboratively in a team environment. Her performance exceeded expectations and was able to complete the project successfully on time.

We wish her all the best for her future endeavors.

for Encapsulate IT,



Authorized Signatory



**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

25 July, 2024


**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Ms. **GAYATHRI R** (Reg.No: 731221104303) student of BE-CSE, JKKM College of Technology has done her internship in **Data Analytics at Encapsulate IT** Coimbatore from 15 July 2024 to 25 July 2024.

During the internship, she demonstrated good design skills with a self-motivated attitude to learn new things and displaying her ability to work both independently and collaboratively in a team environment. Her performance exceeded expectations and was able to complete the project successfully on time.

We wish her all the best for her future endeavors.

for Encapsulate IT,



Authorized Signatory



Principal

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506

**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY  
(AUTONOMOUS)**

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



**INTERNSHIP DETAILS 2023-24**

SI. NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731221104021	LALITHA T	DREAM TECHNO PARK	GUDALUR	22.07.2024 TO 01.08.2024
2	731221104037	SUSHMINA M			
3	731221104040	YAMUNA K			
4	731221104305	NANDINI M			
5	731221104306	SNEHA L			
6	731221104308	SUBASHINI P			

  
Principal

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506



**Internship**

1 message

MON 22 July 2024 at 2.00pm

From: HODCSE <hodcse@jkkmct.edu.in>

Date: MON 22 July 2024 at 2.00pm

Subject: Internship-reg

To: DREAM TECHNO PARK <hr@dreamstechnologies.com >

Dear Sir,

I am requesting to be joining your **DREAM TECHNO PARK**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.


Refer the following students: **LALITHA T, SUSHMINA M, YAMUNA K, YAMUNA K, SNEHA L, SUBASHINI P**

Sincerely,

Third Year CSE Student,

J K K Munirajah College of Technology,

T.N.Palayam, Erode-638506, Tamilnadu.

  
Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506



**Internship**  
1 message

THUR 25 July 2024 at 3.30pm

From: DREAM TECHNO PARK <hr@dreamstechnologies.com >  
Date: THUR 25 July 2024 at 3.30pm  
Subject: Internship-reg  
To: HODCSE<hodcse@jkkmct.edu.in>

Dear SIR,

I am writing to confirm my acceptance of your internship offer of 22.07.2024 TO 01.08.2024 and to tell you how to be joining my DREAM TECHNO PARK. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on July 22, 2024 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following students: LALITHA T, SUSHMINA M, YAMUNA K,  
YAMUNA K, SNEHA L, SUBASHINI P

Sincerely,

HR Manager,  
DREAM TECHNO PARK,  
GUDALUR.

  
Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

"Reg by Govt."



# Independent Skill Development Mission

An ISO 9001 : 2015 Certified Organisation

Run by EIPS Education Society & Gurunanak Foundation Registered by Govt of India NCT New Delhi Registration Nos. 07168/07 & 1212/19 (NCT, New Delhi), Allied with Skill India, MSME, Niti Ayog, Labour & Employment

This is to Certify that

**DATA ANALYTICS WITH PYTHON (DTP24EN098)**

Awarded to

Mr/Miss/Mrs. **LALITHA T**

So/Do/Wo. Mr Thiagarajan

From Date 22-07-2024 to 31-07-2024 (10 Days)

his/her performance during the courses was very good  
He/She scored 97.2% mark & Secured the Grade "A<sup>++</sup>"

We wish him/her for bright future

Issue Date : 07-08-2024



Name of Authorised Study Centre	Centre Code
DTP GROUP OF INSTITUTION	ISDM/TNN/2023/282

CERTIFIED  
ISO 9001:2015  
CERTIFIED

*Kavitha. H*  
Signature

Exam Controller



*[Signature]*  
Principal

Gunirajah College of Technology  
(Autonomous)

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

*[Signature]*  
Signature

Authorised

CONTACT OFFICE: SNDP, 1<sup>ST</sup> Floor, Opp Chembala Factory, Gudalur, The Nilgiris

"Reg by Govt."

# Independent Skill Development Mission

An ISO 9001 : 2015 Certified Organisation

Run by EIPS Education Society & Gurunanak Foundation Registered by Govt of India NCT New Delhi Registration Nos. 07168/07 & 1212/19 (NCT, New Delhi), Allied with Skill India, MSME, Niti Ayog, Labour & Employment

This is to Certify that

**DATA ANALYTICS WITH PYTHON (DTP24EN098)**

Awarded to

Mr/Miss/Mrs. **SUSHMINA M**

So/Do/Wo. Mr Muthupandyan

From Date 22-07-2024 to 31-07-2024 (10 Days)

his/her performance during the courses was very good

He/She scored 94.8% mark & Secured the Grade "A<sup>++</sup>"

We wish him/her for bright future

Issue Date : 07-08-2024



Name of Authorised Study Centre	Centre Code
DTP GROUP OF INSTITUTION	ISDM/TNN/2023/282

*Kavitha. H*

Signature

Exam Controller



*J.K.*  
Principal  
Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

*Hanitha*

Signature

Authorised

CONTACT OFFICE: SNDP, 1<sup>ST</sup> Floor, Opp Chembala Factory, Gudalur, The Nilgiris



"Reg by Govt."

# Independent Skill Development Mission

An ISO 9001 : 2015 Certified Organisation

Run by EIPS Education Society & Gurunanak Foundation Registered by Govt of India NCT New Delhi Registration Nos. 07168/07 & 1212/19 (NCT, New Delhi), Allied with Skill India, MSME, Niti Ayog, Labour & Employment

This is to Certify that

**DATA ANALYTICS WITH PYTHON (DTP24EN098)**

Awarded to

Mr/Miss/Mrs. **YAMUNA K**

So/Do/Wo. Mr Karuppaiya

From Date 22-07-2024 to 31-07-2024 (10 Days)

his/her performance during the courses was very good

He/She scored 97.8% mark & Secured the Grade "A+"

We wish him/her for bright future

Issue Date : 07-08-2024



Name of Authorised Study Centre	Centre Code
DTP GROUP OF INSTITUTION	ISDM/TNN/2023/282

*Kavitha. H*  
Signature  
Exam Controller



*[Signature]*  
Principal  
Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506

*[Signature]*  
Signature  
Authorised

CONTACT OFFICE: SNDP, 1<sup>ST</sup> Floor, Opp Chembala Factory, Gudalur, The Nilgiris



"Reg by Govt."

# Independent Skill Development Mission

An ISO 9001 : 2015 Certified Organisation

Run by EIPS Education Society & Gurunanak Foundation Registered by Govt of India NCT New Delhi Registration Nos. 07168/07 & 1212/19 (NCT, New Delhi), Allied with Skill India, MSME, Niti Ayog, Labour & Employment

This is to Certify that

**DATA ANALYTICS WITH PYTHON (DTP24EN098)**

Awarded to

Mr/Miss/Mrs. **NANDINI M**

So/Do/Wo. Mr Manokaran

From Date 22-07-2024 to 31-07-2024 (10 Days)

his/her performance during the courses was very good  
He/She scored 95.3% mark & Secured the Grade "A<sup>++</sup>"

We wish him/her for bright future

Issue Date : 07-08-2024

Name of Authorised Study Centre	Centre Code
DTP GROUP OF INSTITUTION	ISDM/TNN/2023/282



*Kavitha. H*  
Signature  
Exam Controller



*[Signature]*  
Principal  
J. K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

*[Signature]*  
Signature  
Authorised

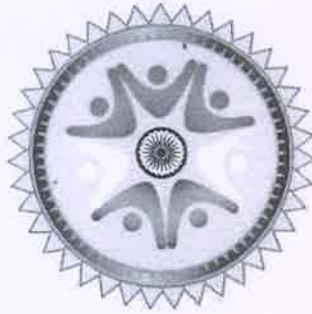
CONTACT OFFICE: SNDP, 1<sup>ST</sup> Floor, Opp Chembala Factory, Gudalur, The Nilgiris



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This is to Certify that

**DATA ANALYTICS WITH PYTHON (DTP24EN098)**

Awarded to

Mr/Miss/Mrs. **SNEHAL**

So/Do/Wo. Mr Loganathan

From Date **22-07-2024** to **31-07-2024** (10 Days)

his/her performance during the courses was very good  
He/She scored **97.8%** mark & Secured the Grade "A<sup>+</sup>"

We wish him/her for bright future

Issue Date : **07-08-2024**

Name of Authorised Study Centre	Centre Code
DTP GROUP OF INSTITUTION	ISDM/TNN/2023/282

*Kavitha. H*  
Signature  
Exam Controller



*[Signature]*  
Principal  
K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

*[Signature]*  
Signature  
Authorised



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# Independent Skill Development Mission

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This is to Certify that

**DATA ANALYTICS WITH PYTHON (DTP24EN098)**

Awarded to

Mr/Miss/Mrs. **SUBASHINI P**

So/Do/Wo. Mr Perumal

From Date **22-07-2024** to **31-07-2024** (10 Days)

his/her performance during the courses was very good  
He/She scored **95.8%** mark & Secured the Grade **"A<sup>++</sup>"**

We wish him/her for bright future

Issue Date : **07-08-2024**

Name of Authorised Study Centre	Centre Code
DTP GROUP OF INSTITUTION	ISDM/TNN/2023/282

*Kavitha. H*

Signature  
Exam Controller



*[Signature]*  
Principal  
Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

*[Signature]*  
Signature  
Authorised

CONTACT OFFICE: SNDP, 1<sup>ST</sup> Floor, Opp Chembala Factory, Gudalur, The Nilgiris



**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY  
(AUTONOMOUS)**

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



**INTERNSHIP DETAILS 2023-24**

SI. NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731221104017	KAMALESH K	TRAINING TRAINS ACADEMY	ERODE	05.08.2024 TO 09.08.2024

**Principal**

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



**Internship**  
1 message

MON 29 Jul 2024 at 2.00pm

From: HODCSE<hodcse@jkkmct.edu.in>

Date: MON 29 Jul 2024 at 2.00pm

Subject: Internship-reg

To: TRAINING TRAINS ACADEMY <ceo@trainingtrains.com>

Dear Sir,

I am requesting to be joining your **TRAINING TRAINS ACADEMY**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following student: **KAMALESH K**

Sincerely,

Third Year CSE Student,  
J K K Munirajah College of Technology,  
T.N.Palayam, Erode-638506, Tamilnadu.

Principal

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



**Internship**  
1 message

THUR 1 Aug 2024 at 3.30pm

From: TRAINING TRAINS ACADEMY <ceo@trainingtrains.com>  
Date: THUR 1 Aug 2024 at 3.30pm  
Subject: Internship-reg  
To: HODCSE<hodcse@jkkmct.edu.in>

Dear SIR,

I am writing to confirm my acceptance of your internship offer of 05.08.2024 TO 09.08.2024 and to tell you how to be joining my **TRAINING TRAINS ACADEMY**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on Aug 5, 2024 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following student: **KAMALESH K**

Sincerely,

HR Manager,  
TRAINING TRAINS ACADEMY,  
Erode.

  
Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



+91 96985 48633

ceo@trainingtrains.com

www.trainingtrains.com

332, Mullamparappu, Erode.

Certificate number : 20240800112

## INTERNSHIP CERTIFICATE

This is to certify that **KAMALESH K (731221104017)** currently pursuing **COMPUTER SCIENCE AND ENGINEERING AT JKK - MUNIRAJAH College Of Technology** has successfully completed an internship with TrainingTrains from **05/08/2024 to 09/08/2024**.

During this period, He has successfully completed an internship in **Artificial intelligence** and has displayed remarkable dedication, sincerity, and a strong desire to learn.

**Fof Training Trains**

G. SAKTHI  
Proprietor

  
Principal

J.K.K.Munirajah College of Technology  
(Autonomous)

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Erode (Dt) - 638 506.



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**INTERNSHIP DETAILS 2023-24**

SI. NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731222104003	CHANDRAKALA N	CODE BIND TECHNOLOGIES	COIMBATORE	27-02-2024 TO 02-03-2024
2	731222104008	ELAKKIYA K			
3	731222104014	JAYASHREE K			
4	731222104018	JOTHI N			
5	731222104030	RAKSHITHA V			

**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



**Internship**

1 message

WED 21 Feb 2024 at 2.00pm

From: HODCSE <hodcse@jkkmct.edu.in>

Date: WED 21 Feb 2024 at 2.00pm

Subject: Internship-reg

To: CODEBIND TECHNOLOGIES <info@codebindtechnologies.com >

Dear Sir,

I am requesting to be joining your **CODEBIND TECHNOLOGIES**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following students: **CHANDRAKALA N, ELAKKIYA K, JAYASHREE K ,  
JOTHI N , RAKSHITHA V**

Sincerely,

Second Year CSE Students,

J K K Munirajah College of Technology,

T.N.Palayam, Erode-638506, Tamilnadu.

  
Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



**Internship**  
1 message

FRI 23 Feb 2024 at 3.30pm

From: CODEBIND TECHNOLOGIES <info@codebindtechnologies.com >  
Date: FRI 23 Feb 2024 at 3.30pm  
Subject: Internship-reg  
To: HODCSE <hodcse@jkkmct.edu.in>


Dear SIR,

I am writing to confirm my acceptance of your internship offer of 27.02.2024 TO 02.03.2024 and to tell you how to be joining my **CODEBIND TECHNOLOGIES**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on Feb 27, 2024 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following students: **CHANDRAKALA N, ELAKKIYA K, JAYASHREE K, JOTHI N, RAKSHITHA V**

Sincerely,  
HR Manager,  
CODEBIND TECHNOLOGIES,  
COIMBATORE.

  
Principal  
J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

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Near Gandhipuram Bus Stand.  
+91 975 11 11 343, 975 11 11 346  
www.codebindtechnologies.com  
info@codebindtechnologies.com

### INPLANT TRAINING CERTIFICATE

CERTIFICATE NUMBER **CBTWC2911032402002**

This certificate is awarded to RAKSHITHA V,  
who has undergone Inplant Training in WEB DEVELOPMENT,  
from 27.02.2024 to 02.03.2024 at CodeBind Technologies,  
Coimbatore. During the course of training period, the conduct of  
the trainee was found to be GOOD.



*R. Haritha*  
Training Facilitator



*A. Haritha*  
Issuing Authority

Head Office: TNagar, Chennai.

Branch Office : Coimbatore. Trichy.

+91 9789 617 617

*A. Haritha*  
Principal

J.K.K.Munirajah College of Technology  
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Erode (Dt) - 638 506.

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🌐 www.codebindtechnologies.com  
✉ info@codebindtechnologies.com

### INPLANT TRAINING CERTIFICATE

CERTIFICATE NUMBER **CBTWC2911032402003**

This certificate is awarded to CHANDRAKALA N,  
who has undergone Inplant Training in WEB DEVELOPMENT,  
from 27.02.2024 to 02.03.2024 at CodeBind Technologies,  
Coimbatore. During the course of training period, the conduct of  
the trainee was found to be GOOD.



*R. Harith*  
Training Facilitator



*A. Harith*  
Issuing Authority

🏠 Head Office: T.Nagar, Chennai.

🏠 Branch Office : 📍 Coimbatore. 📍 Trichy.

☎ +91 9789 617 617

*J.K.K. Munirajah*  
Principal

J.K.K.Munirajah College of Technology  
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Erode (Dt) - 638 506.

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www.codebindtechnologies.com  
info@codebindtechnologies.com

### INPLANT TRAINING CERTIFICATE

CERTIFICATE NUMBER **CBTIPC2911032402005**

This certificate is awarded to JOTHIN,  
who has undergone Inplant Training in WEB DEVELOPMENT,  
from 27.02.2024 to 02.03.2024 at CodeBind Technologies,  
Coimbatore. During the course of training period, the conduct of  
the trainee was found to be GOOD.



*R. H. H.*  
Training Facilitator



*A. Suresh*  
Issuing Authority

Head Office: T.Nagar, Chennai. Branch Office : Coimbatore. Trichy. +91 9789 617 617

*[Signature]*  
Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

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📍 Near Gandhipuram Bus Stand  
📞 +91 975 111 343, 975 111 346  
🌐 www.codebindtechnologies.com  
✉ info@codebindtechnologies.com

### INPLANT TRAINING CERTIFICATE

CERTIFICATE NUMBER **CBTIPC2911032402004**

This certificate is awarded to JAYASHREE K,  
who has undergone Inplant Training in WEB DEVELOPMENT,  
from 27.02.2024 to 02.03.2024 at CodeBind Technologies,  
Coimbatore. During the course of training period, the conduct of  
the trainee was found to be GOOD.



*R. Hariharan*  
Training Facilitator





*V. Senthil*  
Issuing Authority

🏠 Head Office: T.Nagar, Chennai. 📞 Branch Office : 📍 Coimbatore. 📍 Trichy. 📞 +91 9789 617 617

*J.K.K. Munirajah*  
Principal  
J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

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Near Gandhipuram Bus Stand.  
+91 975 11 11 343, 975 11 11 346  
www.codebindtechnologies.com  
info@codebindtechnologies.com

### INPLANT TRAINING CERTIFICATE

CERTIFICATE NUMBER **CBTWC2911032402001**

This certificate is awarded to ELAKKIYA K,  
who has undergone Inplant Training in WEB DEVELOPMENT,  
from 27.02.2024 to 02.03.2024 at CodeBind Technologies,  
Coimbatore. During the course of training period, the conduct of  
the trainee was found to be GOOD.



*R. Thiagarajan*  
Training Facilitator



*A. Suresh*  
Issuing Authority

Head Office: T.Nagar, Chennai. Branch Office: Coimbatore. Trichy. +91 9789 617 617

*J.K.K. Munirajah*  
Principal  
J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY  
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Accredited by NAAC with "A" Grade

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



**INTERNSHIP DETAILS 2023-24**

SI. NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731222104035	SATHIYALAKSHMI M	CODE BIND TECHNOLOGIES	TRICHY	05-03-2024 TO 10-03-2024

**Principal**

**J.K.K.Munirajah College of Technology  
(Autonomous)**

**T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.**



Internship

1 message

WED 28 Feb 2024 at 2.00pm

From: HODCSE <hodcse@jkkmct.edu.in>

Date: WED 28 Feb 2024 at 2.00pm

Subject: Internship-reg

To: CODEBIND TECHNOLOGIES <info@codebindtechnologies.com >

Dear Sir,

I am requesting to be joining your **CODEBIND TECHNOLOGIES**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following students: **SATHIYALAKSHMI M**

Sincerely,

Second Year CSE Student,

J K K Munirajah College of Technology,

T.N.Palayam, Erode-638506, Tamilnadu.

Principal

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



**Internship**

1 message

FRI 1 MARCH 2024 at 3.30pm

From: CODEBIND TECHNOLOGIES <info@codebindtechnologies.com >

Date: FRI 1 MARCH 2024 at 3.30pm

Subject: Internship-reg

To: HODCSE <hodcse@jkkmct.edu.in>

Dear SIR,

I am writing to confirm my acceptance of your internship offer of 05.03.2024 TO 10.03.2024 and to tell you how to be joining my **CODEBIND TECHNOLOGIES**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on March 05, 2024 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following students: **SATHIYALAKSHMI M**

Sincerely,

HR Manager,

CODEBIND TECHNOLOGIES,

TRICHY.

**Principal**

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

✉ info@codebindtechnologies.com

☎ +91 99 4040 8010

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## CERTIFICATE OF INTERNSHIP

CERTIFICATE NUMBER    CBTTCG052005240301

This certificate is awarded to **Mr./Ms. SATHYALAKSHMI M**, for the successful completion of Internship in **Web Development** at **CodeBind Technologies, Trichy** from **05<sup>th</sup> March 2024** to **10<sup>th</sup> March 2024**.

During the course of the Internship **Mr./Ms. SATHYALAKSHMI M**, exhibited an enthusiastic attitude for learning. In addition to that he/she is 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.

*(Signature)*

Training Co-Ordinator



*(Signature)*

Issuing Authority



*(Signature)*

Principal

J.K.K.Munirajah College of Technology  
(Autonomous)

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



🏢 1C, Sandanam's Tower,

EVR Road, Puthur, Thillai Nagar, Trichy - 17.

📍 Landmark : Opposite to Puthur GH.

☎ 99 4040 8010

www.codebindtechnologies.com





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**INTERNSHIP DETAILS 2023-24**

SI. NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731222104001	ABINAYA P	DREAM TECHNO PARK	GUDALUR	01-03-2024 To 10-03-2024
2	731222104022	KEERTHIGA V			
3	731222104025	NEETHU S			
4	731222104031	SAHEER H			

Principal

J.K.K.Munirajah College of Technology  
(Autonomous)

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



Internship  
1 message

MON 26 Feb 2024 at 2.00pm

From: HODCSE<hodcse@jkkmct.edu.in>

Date: MON 26 Feb 2024 at 2.00pm

Subject: Internship-reg

To: DREAM TECHNO PARK <hr@dreamstechnologies.com >

Dear Sir,

I am requesting to be joining your **DREAM TECHNO PARK**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following students: **ABINAYA P, KEERTHIGA V, NEETHU S, SAHEER H**

Sincerely,

Second Year CSE Student,

J K K Munirajah College of Technology,

T.N.Palayam, Erode-638506, Tamilnadu.

Principal

J.K.K.Munirajah College of Technology  
(Autonomous)

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



**Internship**

1 message

THUR 29 Feb 2024 at 3.30pm

From: DREAM TECHNO PARK <hr@dreamstechnologies.com >

Date: THUR 29 Feb 2024 at 3.30pm

Subject: Internship-reg

To: HODCSE<hodcse@jkkmct.edu.in>

Dear SIR,


I am writing to confirm my acceptance of your internship offer of 01.03.2024 TO 10.03.2024 and to tell you how to be joining my DREAM TECHNO PARK. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on March 01, 2024 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following students: ABINAYA P, KEERTHIGA V, NEETHU S , SAHEER H

Sincerely,

HR Manager,  
DREAM TECHNO PARK,  
GUDALUR.

  
**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

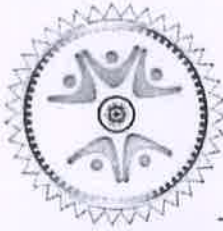
Reg. No. 07168/07

\*Reg by Govt.\*

# Independent Skill Development Mission

An ISO 9001 : 2015 Certified Organisation

Run by EIPS Education Society & Gurunank Foundation Registered by Govt of India NCT New Delhi Registration Nos. 07168/07 & 1212/19 (NCT, New Delhi), Allied with Skill India, MSME, Niti Ayog, Labour & Employment



This is to Certify that  
Basics in **Block Chain (DTP24EN012)**

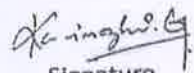
Awarded to

Mr/Miss/Mrs **SAHEER H**  
So/Do/Wo Mr. HAMSHA

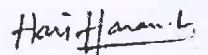
From Date 01-03-2024 to 10-03-2024 (10 Days)  
his/her performance during the course was Very Good  
He/She Scored 97% mark & Secured the Grade "A+"  
We wish him/her for bright future

Issue Date:11-03-2024

Name of Authorised Study Centre	Centre Code
DTP GROUP OF INSTITUTION	ISDM/TNN/2023/282

  
Signature  
Exam Controller

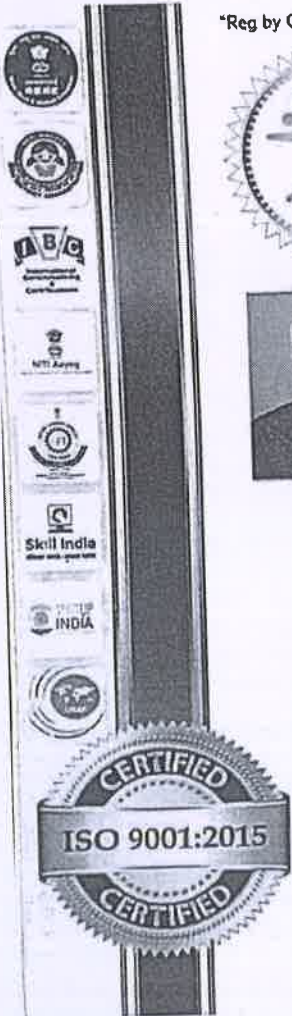


  
Signature  
Authorised

CONTACT OFFICE: SNDR, 1<sup>st</sup> Floor, Opp Chembala Factory, Gudalur, The Nilgiris

  
Principal

J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



\*Reg by Govt.\*

# Independent Skill Development Mission

An ISO 9001 : 2015 Certified Organisation

Run by EIPS Education Society & Gurunanak Foundation Registered by Govt of India NCT New Delhi Registration Nos 0716S/07 & 1212/19 (NCT, New Delhi), Allied with Skill India, MSME, Niti Ayog, Labour & Employment



This is to Certify that  
**Basics in Web Desiging (DTP24EN012)**  
 Awarded to

Mr/Miss/Mrs **NEETHU S**  
 So/Do/Wo Mr. SELVA KUMAR

From Date 01-03-2024 to 10-03-2024 (10 Days)

his/her performance during the course was Very Good  
 He/She Scored 96% mark & Secured the Grade "A+"

We wish him/her for bright future

Issue Date:11-03-2024

Name of Authorised Study Centre	Centre Code
DTP GROUP OF INSTITUTION	ISDM/TNN/2023/282

*[Signature]*  
 Signature  
 Exam Controller



*[Signature]*  
 Signature  
 Authorised

CONTACT OFFICE: SNDR,1<sup>st</sup> Floor,Opp Chembala Factory,Gudalur,The Nilgiris



*[Signature]*

Principal  
 J.K.K.Munirajah College of Technology  
 (Autonomous)  
 T.N.Palayam, Gobi (Tk),  
 Erode (Dt) - 638 506.

\*Reg by Govt.\*

# Independent Skill Development Mission

An ISO 9001 : 2015 Certified Organisation

Run by EIPS Education Society & Gurunanak Foundation Registered by Govt of India NCT New Delhi Registration Nos. 07168/07 & 1212/19 (NCT, New Delhi), Allanced with Skill India, MSME, NII Ayog, Labour & Employment



This is to Certify that  
**Basics in Digital Marketing (DTP24EN012)**  
 Awarded to

Mr/Miss/Mrs **KEERTHIGA V**  
 So/Do/Wo Mr. VIJAYA NATHAN

From Date 01-03-2024 to 10-03-2024 (10 Days)  
 his/her performance during the course was Very Good  
 He/She Scored 94.8% mark & Secured the Grade "A+"  
 We wish him/her for bright future

Issue Date: 11-03-2024

Name of Authorised Study Centre	Centre Code
DTP GROUP OF INSTITUTION	ISDM/TNN/2023/282

*K. Vinayak. G.*  
 Signature  
 Exam Controller



*Haris Haran. L.*  
 Signature  
 Authorised

CONTACT OFFICE: SNDE, 1<sup>st</sup> Floor, Opp Chembala Factory, Gudalur, The Nilgiris

*J.K.K. Munirajah*  
 Principal  
 J.K.K. Munirajah College of Technology  
 (Autonomous)  
 T.N. Palayam, Gobi (TK),  
 Erode (Dt) - 638 506.



"Reg by Govt."

# Independent Skill Development Mission

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This is to Certify that  
**Basics in Digital Marketing (DTP24EN012)**  
 Awarded to

Mr/Miss/Mrs **ABINAYA P**  
 So/Do/Wo Mr. PALANISAMY K

From Date 01-03-2024 to 10-03-2024 (10 Days)  
 his/her performance during the course was Very Good  
 He/She Scored 95.7% mark & Secured the Grade "A+"  
 We wish him/her for bright future

Issue Date: 11-03-2024

Name of Authorised Study Centre	Centre Code
DTP GROUP OF INSTITUTION	ISDM/TNN/2023/282

*K. Singh G.*  
 Signature  
 Exam Controller

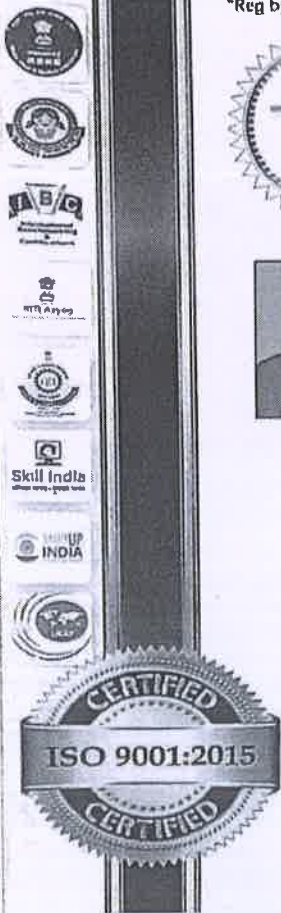


*Hari Haran L.*  
 Signature  
 Authorised

CONTACT OFFICE: SNDR, 1<sup>st</sup> Floor, Opp Chembala Factory, Gudalur, The Nilgiris

*J.K.K. Murirajah*  
 Principal

J.K.K. Murirajah College of Technology  
 (Autonomous)  
 T.N. Palayam, Gobi (Tk),  
 Erode (Dt) - 638 506.





**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY  
(AUTONOMOUS)**

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



**INTERNSHIP DETAILS 2023-24**

SI. NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731222104023	LAKSHMI B	DREAM TECHNO PARK	ERODE	04-03-2024
2	731222104024	LINGARAJU K			To
3	731222104028	PRAZWAL.B			07-03-2024

Principal

J.K.K.Munirajah College of Technology  
(Autonomous)

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



Internship  
1 message

TUE 27 Feb 2024 at 2.00pm

From: HODCSE<hodcse@jkkmct.edu.in>

Date: TUE 27 Feb 2024 at 2.00pm

Subject: Internship-reg

To: DREAM TECHNO PARK <dreamtechnopark@gmail.com>

Dear Sir,

I am requesting to be joining your **DREAM TECHNO PARK**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following students: **LAKSHMI B,LINGARAJU K,PRAZWAL.B**

Sincerely,

Second Year CSE Students,  
J K K Munirajah College of Technology,  
T.N.Palayam, Erode-638506, Tamilnadu.

  
Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



**Internship**  
1 message

FRI 01 MAR 2024 at 3.30pm

From: DREAM TECHNO PARK <dreamtechnopark@gmail.com>

Date: FRI 01 MAR 2024 at 3.30pm

Subject: Internship-reg

To: HODCSE <hodcse@jkkmct.edu.in>

Dear SIR,


I am writing to confirm my acceptance of your internship offer of 04.03.2024 TO 07.03.2024 and to tell you how to be joining my **DREAM TECHNO PARK**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on March 04, 2024 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following students: **LAKSHMI B, LINGARAJU K, PRAZWAL. B**

Sincerely,

HR Manager,  
DREAM TECHNO PARK,  
ERODE.

  
**Principal**  
J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



# DREAM TECHNO PARK

Educational Research Center

(ISO 9001 : 2015 CERTIFIED INSTITUTION)

551-A, 1st Floor, Lakshmi Nagar, Bhavani Main Road, Erode - 638 316.

PH : 90870 66555 - 99767 95849 - OFF : 0424 2970099

V.S.PARAMESWARI  
MANAGING DIRECTOR  
TIN: 33686422303/GSTIN: 33CJSPP3004

Date: 07.03.2024

REF: DTP/INT-20/24-25 DATED: 07.03.2024

TO WHOM SO EVER IT MAY CONCERN

This is certify that **LAKSHMI B** (Reg. No:731222104023) engineering in B.E – CSE Second year of J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY (AUTONOMOUS), has completed the Internship Training under the **ARTIFICIAL INTELLIGENCE-** in **DREAM TECHNO PARK** on 04<sup>th</sup> MAR 2024 to 07<sup>th</sup> MAR 2024.

During the Internship Training **LAKSHMI B** found to be highly sincere, committed, hardworking, progressive and professional towards her work and is capable of discharge her duties in a similar capacity and her conduct was found to be good during the period of **Internship Training**.

We wish **LAKSHMI B** success in her future endeavors in her career.



Principal

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

For Dream Techno Park

Proprietor



# DREAM TECHNO PARK

Educational Research Center

(ISO 9001 : 2015 CERTIFIED INSTITUTION)

551-A, 1st Floor, Lakshmi Nagar, Bhavani Main Road, Erode - 638 316.

PH : 90870 66555 - 99767 95849 - OFF : 0424 2970099

V.S.PARAMESWARI  
MANAGING DIRECTOR  
TIN: 33686422303/GSTIN: 33CJSPP3004

Date: 07.03.2024

REF: DTP/INT-23/24-25 DATED: 07.03.2024


TO WHOM SO EVER IT MAY CONCERN

This is certify that **LINGARAJU.K(Reg. No:731222104024)** engineering in B.E - CSE Second year of J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY (AUTONOMOUS), has completed the Internship Training under the **ARTIFICIAL INTELLIGENCE - in DREAM TECHNO PARK** on 04<sup>th</sup> MAR 2024 to 07<sup>th</sup> MAR 2024.

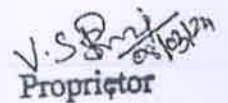
During the Internship Training **LINGARAJU.K** found to be highly sincere, committed, hardworking, progressive and professional towards his work and is capable of discharge his duties in a similar capacity and his conduct was found to be good during the period of Internship Training.

We wish **LINGARAJU.K** success in his future endeavors in his career.



  
Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

For Dream Techno Park

  
Proprietor



# DREAM TECHNO PARK

Educational Research Center

(ISO 9001 : 2015 CERTIFIED INSTITUTION)

551-A, 1st Floor, Lakshmi Nagar, Bhavani Main Road, Erode - 638 316.

PH : 90870 66555 - 99767 95849 - OFF : 0424 2970099

V.S.PARAMESWARI  
MANAGING DIRECTOR  
TIN: 33686422303/GSTIN: 33C1SPP3004

Date: 07.03.2024

REF: DTP/INT-22/24-25 DATED: 07.03.2024

TO WHOM SO EVER IT MAY CONCERN

This is certify that **PRAZWAL.B** (Reg. No:731222104028) engineering in B.E - CSE Second year of J.K.K.MUNIRAJAH COLLEGE OF TECHNOLOGY (AUTONOMOUS), has completed the Internship Training under the **ARTIFICIAL INTELLIGENCE - in DREAM TECHNO PARK** on 04<sup>th</sup> MAR 2024 to 07<sup>th</sup> MAR 2024.

During the Internship Training **PRAZWAL.B** found to be highly sincere, committed, hardworking, progressive and professional towards his work and is capable of discharge his duties in a similar capacity and his conduct was found to be good during the period of **Internship Training**.

We wish **PRAZWAL.B** success in his future endeavors in his career.



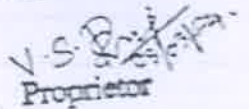


Principal

J.K.K.Munirajah College of Technology  
(Autonomous)

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

For Dream Techno Park

  
Proprietor



**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY  
(AUTONOMOUS)**

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



**INTERNSHIP DETAILS 2023-24**

SI. NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731222104005	DEEPA T	ETHER INFOTECH	COIMBATORE	01-03-2024 TO 08-03-2024
2	731222104006	DEVADHARSHINI M			
3	731222104010	GOKILA S			
4	731222104012	HAFILA A			
5	731222104013	INIKA C			
6	731222104016	JAYASURYA B			
7	731222104019	JOTHI S			
8	731222104026	NIVETHA P			
9	731222104027	POOMATHI S			
10	731222104029	PUSHPASRI M			
11	731222104302	GOWTHAM A			

Principal

J.K.K.Munirajah College of Technology  
(Autonomous)

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



**Internship**

1 message

MON 26 Feb 2024 at 2.00pm

From: HODCSE<hodcse@jkkmct.edu.in>

Date: MON 26 Feb 2024 at 2.00pm

Subject: Internship-reg

To: ETHER INFOTECH <info@etherinfotech.com >

Dear Sir,

I am requesting to be joining your **ETHER INFOTECH**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.


Refer the following students: **DEEPA T,DEVADHARSHINI M,GOKILA S,HAFILA A, INIKA C,JAYASURYA B,JOTHI S,NIVETHA P, POOMATHI S , PUSHPASRI M,SANJAY V, SHAKTHI S,GOWTHAM A**

Sincerely,

Second Year CSE Students,

J K K Munirajah College of Technology,

T.N.Palayam, Erode-638506, Tamilnadu.

  
Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



Internship  
1 message

THUR 29 Feb 2024 at 3.00pm

From: ETHER INFOTECH<info@etherinfotech.com>  
Date: THUR 29 Feb 2024 at 3.00pm  
Subject: Internship-reg  
To: HODCSE<hodcse@jkkmct.edu.in>

Dear SIR,

I am writing to confirm my acceptance of your internship offer of 01.03.2024 TO 08.03.2024 and to tell you how to be joining my ETHER INFOTECH. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on MARCH 01, 2024 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following students: DEEPA T,DEVADHARSHINI M,GOKILA S,HAFILA A, INIKA C,JAYASURYA B,JOTHI S,NIVETHA P, POOMATHI S , PUSHPASRI M,SANJAY V, SHAKTHI S,GOWTHAM A

Sincerely,

HR Manager,  
ETHERINFOTECH,  
COIMBATORE.

  
Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk)  
Erode (Dt) - 638 506.



Date: 08/03/2024

**INTERNSHIP CERTIFICATE**

This is to inform that **Ms. HAFILA A**, 02<sup>nd</sup> year **BE – COMPUTER SCIENCE AND ENGINEERING**, student of, **J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY**, T.N. PALAYAM, ERODE has attended Internship training in our organization from March 01<sup>st</sup> 2024 to March 08<sup>th</sup> 2024.

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

Thanking You.

For Ether Infotech

  
Authorized Signatory



**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk).  
Erode (Dt) - 638 506.



Date: 08/03/2024

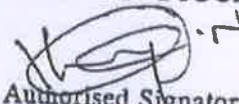
**INTERNSHIP CERTIFICATE**

This is to inform that Ms. **DEVA DHARSHINI M**, 02<sup>nd</sup> year BE – COMPUTER SCIENCE AND ENGINEERING, student of, **J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N. PALAYAM, ERODE** has attended Internship training in our organization from March 01<sup>st</sup> 2024 to March 08<sup>th</sup> 2024.

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

Thanking You.

For Ether Infotech



Authorised Signatory



**Principal**

**J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.**



Date: 08/03/2024


**INTERNSHIP CERTIFICATE**

This is to inform that **Ms. SHAKTHI S**, 02<sup>nd</sup> year **BE – COMPUTER SCIENCE AND ENGINEERING**, student of, **J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N. PALAYAM, ERODE** has attended Internship training in our organization from March 01<sup>st</sup> 2024 to March 08<sup>th</sup> 2024.

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

Thanking You.

For Ether Infotech



Authorised Signatory



**Principal**  
**J.K.K.Munirajah College of Technology**  
**(Autonomous)**  
**T.N.Palayam, Gobi (Tk),**  
**Erode (Dt) - 638 506.**



Date: 08/03/2024


**INTERNSHIP CERTIFICATE**

This is to inform that **Ms. PUSHPASRI M**, 02<sup>nd</sup> year BE – COMPUTER SCIENCE AND ENGINEERING, student of, **J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY**, T.N. PALAYAM, ERODE has attended Internship training in our organization from March 01<sup>st</sup> 2024 to March 08<sup>th</sup> 2024.

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

Thanking You.

For Ether Infotech

  
Authorised Signatory

  
Principal

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



Date: 08/03/2024

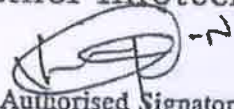
**INTERNSHIP CERTIFICATE**

This is to inform that **Ms. DEEPA T**, 02<sup>nd</sup> year BE – COMPUTER SCIENCE AND ENGINEERING, student of, **J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY**, T.N. PALAYAM, ERODE has attended Internship training in our organization from March 01<sup>st</sup> 2024 to March 08<sup>th</sup> 2024.

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

Thanking You.

For Ether Infotech



Authorised Signatory



**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



Date: 08/03/2024

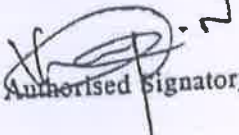
**INTERNSHIP CERTIFICATE**

This is to inform that **Ms. INIKA C**, 02<sup>nd</sup> year **BE – COMPUTER SCIENCE AND ENGINEERING**, student of, **J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N. PALAYAM, ERODE** has attended Internship training in our organization from March 01<sup>st</sup> 2024 to March 08<sup>th</sup> 2024.

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

Thanking You.

For Ether Infotech

  
Authorised Signatory

  
Principal

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



Date: 08/03/2024

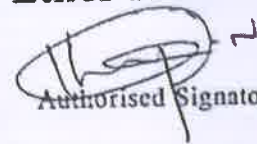
**INTERNSHIP CERTIFICATE**


This is to inform that **Ms. POOMATHI S**, 02<sup>nd</sup> year BE – COMPUTER SCIENCE AND ENGINEERING, student of, J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N. PALAYAM, ERODE has attended Internship training in our organization from March 01<sup>st</sup> 2024 to March 08<sup>th</sup> 2024.

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

Thanking You.

For Ether Infotech

  
Authorised Signatory

  
Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



Date: 08/03/2024


**INTERNSHIP CERTIFICATE**

This is to inform that **Ms. NIVETHA P**, 02<sup>nd</sup> year BE – COMPUTER SCIENCE AND ENGINEERING, student of, J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N. PALAYAM, ERODE has attended Internship training in our organization from March 01<sup>st</sup> 2024 to March 08<sup>th</sup> 2024.

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

Thanking You.

For Ether Infotech

  
Authorised Signatory



**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



Date: 08/03/2024

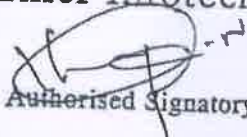
**INTERNSHIP CERTIFICATE**

This is to inform that Ms. **GOKILA S**, 02<sup>nd</sup> year BE – COMPUTER SCIENCE AND ENGINEERING, student of, J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N. PALAYAM, ERODE has attended Internship training in our organization from March 01<sup>st</sup> 2024 to March 08<sup>th</sup> 2024.

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

Thanking You.

For Ether Infotech



Authorized Signatory



Principal

J.K.K.Munirajah College of Technology  
(Autonomous)

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



Date: 08/03/2024

**INTERNSHIP CERTIFICATE**

This is to inform that **Mr. GOWTHAM A**, 02<sup>nd</sup> year BE – COMPUTER SCIENCE AND ENGINEERING, student of, **J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY**, T.N. PALAYAM, ERODE has attended Internship training in our organization from March 01<sup>st</sup> 2024 to March 08<sup>th</sup> 2024.

During this Internship training, he has learned the overview concepts of **PYTHON & CLOUD COMPUTING**.

Thanking You.

For Ether Infotech



Authorised Signatory



Principal

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



Date: 08/03/2024


**INTERNSHIP CERTIFICATE**

This is to inform that **Mr. JAYASURYA B, 02<sup>nd</sup> year BE – COMPUTER SCIENCE AND ENGINEERING**, student of, **J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N. PALAYAM, ERODE** has attended Internship training in our organization from March 01<sup>st</sup> 2024 to March 08<sup>th</sup> 2024.

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

Thanking You.

For Ether Infotech



Authorised Signatory



Principal

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



Date: 08/03/2024

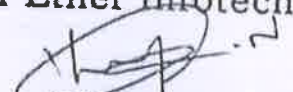
**INTERNSHIP CERTIFICATE**

This is to inform that **Mr. SANJAY V**, 02<sup>nd</sup> year BE – COMPUTER SCIENCE AND ENGINEERING, student of, J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N. PALAYAM, ERODE has attended Internship training in our organization from March 01<sup>st</sup> 2024 to March 08<sup>th</sup> 2024.

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

Thanking You.

For Ether Infotech

  
Authorised Signatory



Principal

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



Date: 08/03/2024

**INTERNSHIP CERTIFICATE**

This is to inform that **Mr. JOTHI S**, 02<sup>nd</sup> year BE – COMPUTER SCIENCE AND ENGINEERING, student of, **J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY**, T.N. PALAYAM, ERODE has attended Internship training in our organization from March 01<sup>st</sup> 2024 to March 08<sup>th</sup> 2024.

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

Thanking You.

For Ether Infotech



Authorised Signatory



**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY  
(AUTONOMOUS)**

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



**INTERNSHIP DETAILS 2023-24**

SI. NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731222104009	GIBSON SHANTHAKUMAR R	CODE BIND TECHNOLOGIES	CHENNAI	05-03-2024 TO 09-03-2024

  
**Principal**  
J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

GIBSON SHANTHAKUMAR R



**Internship**  
1 message

WED 28 Feb 2024 at 2.00pm

From: HODCSE<hodcse@jkkmct.edu.in>

Date: WED 28 Feb 2024 at 2.00pm

Subject: Internship-reg

To: CODEBIND TECHNOLOGIES <info@codebindtechnologies.com >

Dear Sir,

I am requesting to be joining your **CODEBIND TECHNOLOGIES**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following students: **GIBSON SHANTHAKUMAR R**

Sincerely,

Second Year CSE Student,

J K K Munirajah College of Technology,

T.N.Palayam, Erode-638506, Tamilnadu.

**Principal**

**J.K.K.Munirajah College of Technology**

**(Autonomous)**

**T.N.Palayam, Gobi (Tk),**

**Erode (Dt) - 638 506.**

✉ info@codebindtechnologies.com

☎ +91 9789 617 617

<codebind/><sup>TM</sup>  
{Technologies}

Solution Without Compromise!



## CERTIFICATE OF INTERNSHIP

CERTIFICATE NUMBER    CBTING0520052403001


This certificate is awarded to Mr/Ms. **R.GIBSON SANTHAKUMAR**, for the successful completion of Internship in Web Development at CodeBind Technologies, Chennai from 05<sup>th</sup> March 2024 to 09<sup>th</sup> March 2024.

During the course of the internship Mr/Ms. **R.GIBSON SANTHAKUMAR**, 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



  
Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (T.N.)  
Erode (Dt) - 638 506.

🏠 107, Usman Road, T.Nagar,  
Chennai-17.

🌐 www.codebindtechnologies.com

📍 Landmark : Opposite to The Chennai Silks ☎ 9789 617 617





**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY  
(AUTONOMOUS)**

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Accredited by NAAC with "A" Grade

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



**INTERNSHIP DETAILS 2023-24**

SI. NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731222104039	SOWDESWARI A	IPCS GLOBAL	ERODE	05-03-2024
2	731222104041	SUMITHRA S			To 11-03-2024

**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



**Internship**

1 message

TUE 27 Feb 2024 at 2.30pm

From: HODCSE<hodcse@jkkmct.edu.in>

Date: TUE 27 Feb 2024 at 2.30pm

Subject: Internship-reg

To: IPCS GLOBAL<info@ipcsglobal.com>

Dear Sir,

I am requesting to be joining your **IPCS GLOBAL**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following students: **SOWDESWARI A, SUMITHRA S**

Sincerely,

Second Year CSE Students,

J K K Munirajah College of Technology,

T.N.Palayam, Erode-638506, Tamilnadu.

**Principal**

J.K.K.Munirajah College of Technology  
(Autonomous)

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



**Internship**  
1 message

FRI 01 MAR 2024 at 3.30pm

From: IPCS GLOBAL<info@ipcsglobal.com>

Date: FRI 01 MAR 2024 at 3.30pm

Subject: Internship-reg

To: HODCSE<hodcse@jkkmct.edu.in>

Dear SIR,


I am writing to confirm my acceptance of your internship offer of 05.03.2024 TO 11.03.2024 and to tell you how to be joining my IPCS GLOBAL. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on March 05, 2024 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following students: SOWDESWARI A, SUMITHRA S

Sincerely,

HR Manager,  
IPCS GLOBAL,  
ERODE.

  
**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



## Certificate of Participation

This certificate of participation is hereby granted to

SUMITHRA S

for his/her excellent active participation in our INTERNSHIP session

on the topic PYTHON PROGRAMMING FROM 05.03.2024 - 11.03.2024

conducted at ERODE

we wish him/her all the very best for the future

  
PROGRAM CO-ORDINATOR



BRANCH HEAD

[www.ipcsglobal.com](http://www.ipcsglobal.com)



Principal

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (TK),  
Erode (Dt) - 638 506.



## Certificate of Participation

This certificate of participation is hereby granted to

SOWDESWARI A

for his/her excellent active participation in our INTERNSHIP session

on the topic PYTHON PROGRAMMING FROM 05.03.2024 - 11.03.2024

conducted at ERODE


we wish him/her all the very best for the future

  
PROGRAM CO-ORDINATOR



BRANCH HEAD

[www.ipcsglobal.com](http://www.ipcsglobal.com)

  
Principal  
J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY  
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Accredited by NAAC with "A" Grade

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



**INTERNSHIP DETAILS 2023-24**

SL. NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731222104011	GOKULRAJA G	NXTGEN INSTRUMENTS	ERODE	04-03-2024
2	731222104032	SANJAIKUMAR S			To 09-03-2024

  
Principal

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



**Internship**

1 message

THU 25 Feb 2024 at 2.30pm

From: HODCSE<hodcse@jkkmct.edu.in>

Date: THU 25 Feb 2024 at 2.30pm

Subject: Internship-reg

To: NXTGEN INSTRUMENTS <nxtgeninstrumentsind@gmail.com>

Dear Sir,

I am requesting to be joining your **NXTGEN Instruments**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following students: **GOKULRAJA G, SANJAIKUMAR S**

Sincerely,

Final Year IT Student,

J K K Munirajah College of Technology,

T.N.Palayam, Erode-638506, Tamilnadu.

Principal

J.K.K.Munirajah College of Technology

(Autonomous)

T.N.Palayam, Gobi (Tk),

Erode (Dt) - 638 506.



**Internship**  
1 message

SAT 27 FEB 2024 at 3.30pm

From: NXTGEN INSTRUMENTS <nxtgeninstrumentsind@gmail.com>

Date: SAT 27 FEB 2024 at 3.30pm

Subject: Internship-reg

To: HODCSE <hodcse@jkkmct.edu.in>

Dear SIR,

I am writing to confirm my acceptance of your internship offer of 04.03.2024 TO 09.03.2024 and to tell you how to be joining my **NXTGEN Instruments**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on MARCH 04, 2024 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following students: **GOKULRAJA G, SANJAIKUMAR S**

Sincerely,

HR Manager,  
NXTGEN Instruments,  
ERODE.

  
**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



Date : 09/03/2024

## TO WHOM IT MAY CONCERN

This is to certify that **S.SANJAI KUMAR**, [Reg.No:731222104032] B.E (CSE), second year student of J K K MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N.PALAYAM has successfully completed the INTERNSHIP under the **IOT (INTERNET OF THINGS)** in **NXTGEN INSTRUMENTS** from 4<sup>th</sup> March to 9<sup>th</sup> March , 2024. During the period of This **INTERNSHIP** program with us he was found punctual, hardworking and inquisitive.

We wish him every success in life.



Thanking you,

For, NxtGen Instruments.

Authorized Signature

Principal

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



Date : 09/03/2024


## TO WHOM IT MAY CONCERN

This is to certify that **G.GOKULRAJA**, [Reg.No:731222104011] B.E (CSE), second year student of J K K MUNIRAJAH COLLEGE OF TECHNOLOGY, T.N.PALAYAM has successfully completed the INTERNSHIP under the **IOT (INTERNET OF THINGS) in NXTGEN INSTRUMENTS** from 4<sup>th</sup> March to 9<sup>th</sup> March , 2024. During the period of This **INTERNSHIP** program with us he was found punctual, hardworking and inquisitive.

We wish him every success in life.



For, NxtGen Instruments.

  
Authorized Signature

Thanking you,

  
Principal

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY**  
**(AUTONOMOUS)**

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



**INTERNSHIP DETAILS 2023-24**

SL. NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731222104002	BHARATH KRISHNAN V	ICORE SOFTWARE TECHNOLOGIES	COIMBATORE	12.02.2024 TO 17.02.2024
2	731222104004	CHANDRU K			
3	731222104015	JAYASREE D			
4	731222104020	KARTHI K			
5	731222104021	KARUNYA K			
6	731222104033	SANJAY V			
7	731222104034	SANJAY KUMAR S			
8	731222104036	SHAKTHI S			
9	731222104038	SIDHARAJ S			
10	731222104040	SOWNDHAR D			

*[Signature]*  
Principal

J.K.K. Munirajah College of Technology  
(Autonomous)  
T.N. Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



**Internship**  
1 message

MON 05 Feb 2024 at 2.10pm

From: HODCSE <hodcse@jkkmct.edu.in>

Date: MON 05 Feb 2024 at 2.10pm

Subject: Internship-reg

To: ICORE SOFTWARE TECHNOLOGIES <info@icore.net.in>

Dear Sir,

I am requesting to be joining your **ICORE SOFTWARE TECHNOLOGIES**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from your staff.

Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe your outstanding staff.

Refer the following students: **BHARATH KRISHNAN V, CHANDRU K, JAYASREE D, KARTHI K, KARUNYA K, SANJAY V, SANJAY KUMAR S, SHAKTHI S, SIDHARAJ S, SOWNDHAR D**

Sincerely,

Second Year CSE Student,  
J K K Munirajah College of Technology,  
T.N. Palayam, Erode-638506, Tamilnadu.

  
**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



**Internship**  
1 message

THUR 08 Feb 2024 at 3.35pm

From: ICORE SOFTWARE TECHNOLOGIES <info@icore.net.in >  
Date: THUR 08 Feb 2024 at 3.35pm  
Subject: Internship-reg  
To: HODCSE<hodcse@jkkmct.edu.in>

Dear SIR,

I am writing to confirm my acceptance of your internship offer of 12.02.2024 TO 17.02.2024 and to tell you how to be joining my **ICORE SOFTWARE TECHNOLOGIES**. The requirements are exactly what I have prepared for and hoped to do. I feel confident that I can make a significant contribution to your organization while at the same time learning from my staff.

As we discussed, I will report at 8:00 a.m. on Mar 11, 2024 and will be ready to take on my first assignment as an intern from my company. Additionally, I shall complete all insurance forms for the new intern orientation. I look forward to working with you and your fine team. I appreciate your confidence in me and providing the chance to work with and observe my outstanding staff.

Refer the following students: **BHARATH KRISHNAN V, CHANDRU K, JAYASREE D, KARTHI K, KARUNYA K, SANJAY V, SANJAY KUMAR S, SHAKTHI S, SIDHARAJ S, SOWNDHAR D**

Sincerely,

HR Manager,  
ICORE SOFTWARE TECHNOLOGIES,  
Coimbatore.

  
**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.



# ICORE SOFTWARE TECHNOLOGIES

DATE :17.02.2024

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that **BHARATH KRISHNAN V (731222104002)**, B.E Computer Science and Engineering student from **JKK Munirajah College of Technology, Erode** has completed him" **ARTIFICIAL INTELLIGENCE (AI) Platforms** " from 12.02.2024 TO 17.02.2024 in our concern.

During the **internship**, he actively participated and we wish a great future.

**Principal**  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

**AUTHORIZED  
SIGNATURE**



# ICORE SOFTWARE TECHNOLOGIES

DATE :17.02.2024

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that **CHANDRU K (731222104004)**, B.E Computer Science and Engineering student from JKK Munirajah College of Technology, Erode has completed his **"ARTIFICIAL INTELLIGENCE (AI) Platforms"** from 12.02.2024 TO 17.02.2024 in our concern.

During the **internship**, he actively participated and we wish a great future.

Principal

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

AUTHORIZED  
SIGNATURE



# ICORE SOFTWARE TECHNOLOGIES

DATE :17.02.2024

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that **JAYASREE D (731222104015)**, B.E Computer Science and Engineering student from **JKK Munirajah College of Technology, Erode** has completed his "**ARTIFICIAL INTELLIGENCE (AI) Platforms**" from 12.02.2024 TO 17.02.2024 in our concern.

During the **internship**, he actively participated and we wish a great future.

Principal

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

**AUTHORIZED  
SIGNATURE**



# ICORE SOFTWARE TECHNOLOGIES

DATE :17.02.2024

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that **KARTHIK K (731222104020)**, B.E Computer Science and Engineering student from **JKK Munirajah College of Technology, Erode** has completed him" **ARTIFICIAL INTELLIGENCE (AI) Platforms** " from 12.02.2024 TO 17.02.2024 in our concern.

During the **internship**, he actively participated and we wish a great future.

Principal

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

**AUTHORIZED  
SIGNATURE**



# ICORE SOFTWARE TECHNOLOGIES

DATE :17.02.2024

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that **KARUNYA K (731222104021)**, B.E Computer Science and Engineering student from **JKK Munirajah College of Technology, Erode** has completed his "**ARTIFICIAL INTELLIGENCE (AI) Platforms**" from 12.02.2024 TO 17.02.2024 in our concern.

During the **internship**, he actively participated and we wish a great future.

Principal

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

**AUTHORIZED  
SIGNATURE**




# ICORE SOFTWARE TECHNOLOGIES

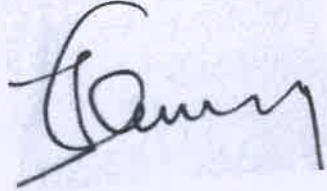
DATE :17.02.2024

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that **SANJAY V (731222104033)**, B.E Computer Science and Engineering student from **JKK Munirajah College of Technology, Erode** has completed his " **ARTIFICIAL INTELLIGENCE (AI) Platforms** " from 12.02.2024 TO 17.02.2024 in our concern.

During the **internship**, he actively participated and we wish a great future.

  
Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

  
**AUTHORIZED  
SIGNATURE**



# ICORE SOFTWARE TECHNOLOGIES

DATE :17.02.2024

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that **SANJAY KUMAR S (731222104034), B.E** Computer Science and Engineering student from **JKK Munirajah College of Technology, Erode** has completed his " **ARTIFICIAL INTELLIGENCE (AI) Platforms** " from 12.02.2024 TO 17.02.2024 in our concern.

During the internship, he actively participated and we wish a great future.

Principal

J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

**AUTHORIZED  
SIGNATURE**



# ICORE SOFTWARE TECHNOLOGIES

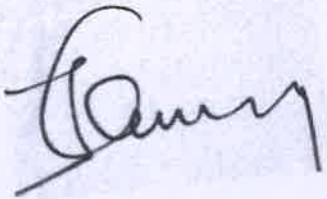
DATE :17.02.2024

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that **SHAKTHI S (731222104036)**, B.E Computer Science and Engineering student from **JKK Munirajah College of Technology, Erode** has completed his "**ARTIFICIAL INTELLIGENCE (AI) Platforms**" from 12.02.2024 TO 17.02.2024 in our concern.

During the **internship**, he actively participated and we wish a great future.

  
Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

  
**AUTHORIZED  
SIGNATURE**



# ICORE SOFTWARE TECHNOLOGIES

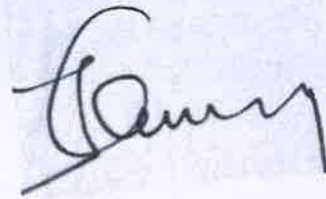
DATE :17.02.2024

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that **SIDHARAJ S (731222104038)**, B.E Computer Science and Engineering student from **JKK Munirajah College of Technology, Erode** has completed his "**ARTIFICIAL INTELLIGENCE (AI) Platforms**" from 12.02.2024 TO 17.02.2024 in our concern.

During the **internship**, he actively participated and we wish a great future.

  
Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 506.

  
AUTHORIZED  
SIGNATURE



# ICORE SOFTWARE TECHNOLOGIES

DATE :17.02.2024

## TO WHOMSOEVER IT MAY CONCERN

This is to certify that **SOWNDHAR D (731222104040)**, B.E Computer Science and Engineering student from **JKK Munirajah College of Technology, Erode** has completed his "**ARTIFICIAL INTELLIGENCE (AI) Platforms**" from 12.02.2024 TO 17.02.2024 in our concern.

During the **internship**, he actively participated and we wish a great future.

Principal  
J.K.K.Munirajah College of Technology  
(Autonomous)  
T.N.Palayam, Gobi (Tk),  
Erode (Dt) - 638 505.

**AUTHORIZED  
SIGNATURE**

# **INDUSTRIAL VISIT**



**J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY**  
(AUTONOMOUS)

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



**COMPUTER SCIENCE AND ENGINEERING**

**2023-2024**

SI NO	REGISTER NUMBER	STUDENT NAME	NAME OF THE COMPANY	LOCATION	DATE
1	731220104001	ABINAYA G	IROHUB INFOTECH	1 <sup>st</sup> Floor Trust Building, Kayyath Ln Palarivattom, Kochi	28.09.2023
2	731220104003	BALU R			
3	731220104006	DEEPIKA.S			
4	731220104007	DHARANISELVI. M			
5	731220104009	JAGATHESWARAN.P			
6	731220104010	KARUNYAA.M			
7	731220104011	KATHIRESAN.K			
8	731220104021	RAMYA.S			
9	731220104025	SUNDARAGANESAN.K			
10	731220104029	VINISHA.T			
11	731220104030	VINITHA.A			
12	731220104031	VINOTHKUMAR.R			
13	731220104301	BOOPALAN.M			
14	731220104302	DHAMODARAN.G			

*[Handwritten Signature]*

Principal

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# J.K.K. MUNIRAJAH COLLEGE OF TECHNOLOGY

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15	731221104001	AADHI SURYA K	IROHUB INFOTECH	1 <sup>st</sup> Floor Trust Building, Kayyath Ln Palarivattom, Kochi	28.09.2023
16	731221104004	ARUL MURUGAN S			
17	731221104005	BABU SHANKAR S			
18	731221104007	BAMBAVASAN V			
19	731221104008	CHANDRA PRAKASH K			
20	731221104009	DHAKSHINA MOORTHI E			
21	731221104012	DURGA K			
22	731221104013	GUNASEKARAN P			
23	731221104014	GUNASEKARAN S			
24	731221104015	HARIPRABHA V			
25	731221104021	LALITHA T			
26	731221104022	MADHAN G			
27	731221104025	MOUSIKA S			
28	731221104026	NANDHINI P			
29	731221104027	PANDIYARAJ P			
30	731221104028	PRIYA DHARSHINI S			
31	731221104029	RAVIKUMAR.P			

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32	731221104031	RUBIKA G			
33	731221104033	SHYAM KUMAR S			
34	731221104035	SUGANYA K			
35	731221104036	SURYA S			
36	731221104037	SUSHMINA M			
37	731221104038	VASANTH KUMAR S			
38	731221104039	VIGNESH M			
39	731221104301	AMUTHAMALAR R			
40	731221104302	BHARANI DHARAN.M			
41	731221104307	SRINIVAS.V			

  
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HOD CSE &lt;hodcse@jkkmct.edu.in&gt;

**REQUESTING PERMISSION FOR INDUSTRIAL VISIT-Reg**

27 September 2023 at 09:57

HOD CSE <hodcse@jkkmct.edu.in>  
To: hr@irohub.com

We heard about iroid technologies a software organisation operating in Cochin providing various software development services in the IT sector

**JKK munirajah college of technology** is situated in erode district and we are accredited with NAAC 'A' grade and as part of our curriculum **our students from computer science & Engineering around 41 students along with faculty members need to visit your concern like yours to get real time exposure and awareness about the software products and their development etc.**

I request you to kindly consider our request for allowing Industrial visit to your esteemed concern in the upcoming week on sep 28 if possible so that our students can utilize the opportunity to get real time exposure

A handwritten signature in blue ink, appearing to be 'J.K.K. Munirajah'.

**Principal**

**J.K.K.Munirajah College of Technology  
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Erode (Dt) - 638 506.**



HOD CSE &lt;hodcse@jkkmct.edu.in&gt;

**PERMISSION LETTER FOR INDUSTRIAL VISIT**

27 September 2023 at 11:01

HR - IROHUB <hr@irohub.com>  
To: [hodcse@jkkmct.edu.in](mailto:hodcse@jkkmct.edu.in)  
Cc: Amala P M - IROHUB <amala.pm@irohub.com>

Hello Team,

Greetings from **IROHUB INFOTECH PVT LTD !!!**

We are glad to approve the request of III & IV Year from the Departments of Computer Science & Engineering in JKK munirajah college of technology. You have been considered for an industrial Visit with IROHUB Infotech, Kochi on 28/09/2023 (Thursday), 41 students accompanied by 2 Faculty members. You will be provided with training in Android, Flutter, iOS, Mem Stack and Python and also visit the development area.

**Note:-**

- \* The timing will be from 10:00am - 11:30am.
- \* Common Certificate.

**About our company**

*IROHUB Infotech is the research and Training Company is a global IT solutions provider with its headquarters located in Cochin, India. With the backbone of a bunch of experienced professionals in the software industry, we are inspired to diverse our skills in various domains such as Mobile Application Development, Web Development, Branding, SEO, Internet marketing, etc. Here is a link to our Company Profile and Portfolio to know more about us and our applications.*  
<http://www.irohuh.com/>

Location details: iROHUB Infotech Pvt Ltd, 2nd Floor-Trust Building, Kayyath Lane, Near Hi Tech Diagnostic Centre, Palarivattom, Cochin.

Thanks &amp; Regards,



HR DEPARTMENT

Office: +91 0484 4041114 | Mob : +918129844744 | [www.irohuh.com](http://www.irohuh.com)**2nd floor, Trust Building, Kayyath Lane, Palarivattom, Cochin-25**

**Disclaimer:** This e-mail and any attachments are confidential and may also be legally privileged and/or copyright material of iROHUB Infotech Pvt Ltd. The information contained herein is confidential information intended only for the use of the individual or entity named above. If the reader of this message is not the intended recipient, or if an attachment is made in error, the reader is hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this transmission in error, please notify the above person by telephone immediately by return e-mail and delete/trash the original message from your system. Thank you for your cooperation.

  
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iRH/2023/1219

Date: 28/09/2023

**To Whomsoever It May Concern**

This is to certify that *Ms. G ABINAYA* from the Department of Computer Science & Engineering, Fourth Year, *JKK Munirajah College of Technology, Erode, Chennai* has undergone the industrial visit from *IROHUB INFOTECH*, Cochin on 28/09/2023 as per the company norms and regulations. During the visit the domains such as *Overview of Python, React JS and Android Development* details were covered.

For *IROHUB INFOTECH*

  
Amala P M

Center Head





**Principal**

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IR11/2023/1226

Date: 28/09/2023

**To Whomsoever It May Concern**


This is to certify that **Mr. R BALU** from the Department of Computer Science & Engineering, Fourth Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH**, Cochin on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development details** were covered.

For **IROHUB INFOTECH**

  
Amala P M

Center Head



  
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iRH/2023/1231

Date: 28/09/2023

**To Whomsoever It May Concern**

This is to certify that **Mr. M BOOPALAN** from the Department of Computer Science & Engineering, Fourth Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH, Cochin** on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development details were covered.**

For **IROHUB INFOTECH**

  
Amala P M  
Center Head



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1st Floor, Trust building, Kayyath Ln  
Palarivattom, Kochi, 682025



+91 484 485 1114



www.irohuh.com


IRH/2023/1220

Date: 28/09/2023

To Whomsoever It May Concern

This is to certify that **Ms. S DEEPIKA** from the Department of Computer Science & Engineering, Fourth Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH, Cochin** on 23/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development** details were covered.

For **IROHUB INFOTECH**

  
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Center Head



  
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IRH/2023/1232

Date: 28/09/2023

**To Whomsoever It May Concern**

This is to certify that **Mr. G DHAMODARAN** from the Department of Computer Science & Engineering, Fourth Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH**, Cochin on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development** details were covered.

For **IROHUB INFOTECH**

  
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Center Head



  
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Erode (Dt) - 638 506.

iRH/2023/1221

Date: 28/09/2023

**To Whomsoever It May Concern**

This is to certify that **Ms. MDHARANISELVI** from the Department of Computer Science & Engineering, Fourth Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH**, Cochin on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development** details were covered.

For **IROHUB INFOTECH**

  
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iRH/2023/1227

Date: 28/09/2023

**To Whomsoever It May Concern**

This is to certify that **Mr. P JAGATHESWARAN** from the Department of Computer Science & Engineering, Fourth Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH**, Cochin on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development** details were covered.

For **IROHUB INFOTECH**

  
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Center Head





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IRH/2023/1222

Date: 28/09/2023

**To Whomsoever It May Concern**

This is to certify that **Ms. M KARUNYAA** from the Department of Computer Science & Engineering, Fourth Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH**, Cochin on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development details were covered.**

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Center Head



  
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IRH/2023/1228

Date: 28/09/2023

To Whomsoever It May Concern


This is to certify that **Mr. K KATHIRESAN** from the Department of Computer Science & Engineering, Fourth Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH, Cochin** on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development details were covered.**

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Erode (Dt) - 638 506.



Date: 28/09/2023

iRH/2023/1223

To Whomsoever It May Concern

This is to certify that **Ms. S RAMEA** from the Department of Computer Science & Engineering, Fourth Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH, Cochin** on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development details were covered.**

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iRH/2023/1229

Date: 28/09/2023

To Whomsoever It May Concern

This is to certify that **Mr. K SUNDARAGANESAN** from the Department of Computer Science & Engineering, Fourth Year, *JKK Munirajah College of Technology, Erode, Chennai* has undergone the industrial visit from **IROHUB INFOTECH**, Cochin on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development details were covered.**

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iRH/2023/1224

Date: 28/09/2023

**To Whomsoever It May Concern**

This is to certify that **Ms. T VINISHA** from the Department of Computer Science & Engineering, Fourth Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH**, Cochin on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development** details were covered.

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Erode (Dt) - 638 506.



IRH/2023/1225

Date: 28/09/2023

To Whomsoever It May Concern

This is to certify that **Ms. A VINITHA** from the Department of Computer Science & Engineering, Fourth Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH**, Cochin on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development details** were covered.

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Erode (Dt) - 638 506.

Date: 28/09/2023

iRH/2023/1230

**To Whomsoever It May Concern**

This is to certify that **Mr. R VINOTHKUMAR** from the Department of Computer Science & Engineering, Fourth Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH**, Cochin on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development details were covered.**

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iRH/2023/1192

Date: 28/09/2023

**To Whomsoever It May Concern**

This is to certify that **Mr. AADHI SURYA K** from the Department of Computer Science & Engineering, Third Year,, *JKK Munirajah College of Technology, Erode, Chennai* has undergone the industrial visit from **IROHUB INFOTECH**, Cochin on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development** details were covered.

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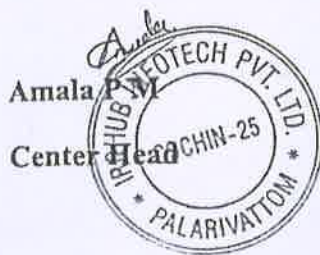
iRH/2023/1193

Date: 28/09/2023

**To Whomsoever It May Concern**

This is to certify that **Mr. ARUL MURUGAN S** from the Department of Computer Science & Engineering, Third Year, *JKK Munirajah College of Technology, Erode, Chennai* has undergone the industrial visit from **IROHUB INFOTECH**, Cochin on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development** details were covered.

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iRH/2023/1194

Date: 28/09/2023

**To Whomsoever It May Concern**

This is to certify that **Mr. BABU SHANKAR S** from the Department of Computer Science & Engineering, Third Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH**, Cochin on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development** details were covered.

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Erode (Dt) - 638 506.

iRH/2023/1195

Date: 28/09/2023

**To Whomsoever It May Concern**

This is to certify that **Mr. BAMBAVASAN V** from the Department of Computer Science & Engineering, Third Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH, Cochin** on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development** details were covered.

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Center Head





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iRH/2023/1196

Date: 28/09/2023

**To Whomsoever It May Concern**

This is to certify that **Mr. CHANDRA PRAKASH K** from the Department of Computer Science & Engineering, Third Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH**, Cochin on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development** details were covered.

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Erode (Dt) - 638 506.

iRH/2023/1197

Date: 28/09/2023

**To Whomsoever It May Concern**

This is to certify that **Mr. DHAKSHINA MOORTHIE** from the Department of Computer Science & Engineering, Third Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH**, Cochin on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development** details were covered.

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Amala P M

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Erode (Dt) - 638 506.

iRH/2023/1198

Date: 28/09/2023

**To Whomsoever It May Concern**

This is to certify that **Ms. DURGA K** from the Department of Computer Science & Engineering, Third Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH**, Cochin on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development** details were covered.

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Amala P M

Center Head



  
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Erode (Dt) - 638 506.

iRH/2023/1199

Date: 28/09/2023


**To Whomsoever It May Concern**

This is to certify that **Mr. GUNASEKARAN P** from the Department of Computer Science & Engineering, Third Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH**, Cochin on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development** details were covered.

For **IROHUB INFOTECH**

  
Amala P M



  
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Erode (Dt) - 638 506.

iRH/2023/1200

Date: 28/09/2023

**To Whomsoever It May Concern**

This is to certify that **Mr. GUNASEKARAN S** from the Department of Computer Science & Engineering, Third Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH, Cochin** on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development** details were covered.

For **IROHUB INFOTECH**

  
Amala P M

Center Head





**Principal**  
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Erode (Dt) - 638 506.



iRH/2023/1202

Date: 28/09/2023

**To Whomsoever It May Concern**

This is to certify that **Ms. LALITHA T** from the Department of Computer Science & Engineering, Third Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH**, Cochin on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development details** were covered.

For **IROHUB INFOTECH**

  
Amala P M

Center Head



  
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Erode (Dt) - 638 506.


iRH/2023/1203

Date: 28/09/2023

**To Whomsoever It May Concern**

This is to certify that **Ms. MOUSIKA S** from the Department of Computer Science & Engineering, Third Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH**, Cochin on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development** details were covered.

For **IROHUB INFOTECH**

  
Amala P M  
Center Head



  
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Erode (Dt) - 638 506.

iRH/2023/1204

Date: 28/09/2023

**To Whomsoever It May Concern**

This is to certify that **Mr. NANDHINI P** from the Department of Computer Science & Engineering, Third Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH**, Cochin on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development details were covered.**

For **IROHUB INFOTECH**

  
Amala P M

Center Head



  
Principal

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iRH/2023/1205

Date: 28/09/2023

**To Whomsoever It May Concern**

This is to certify that **Mr. PANDIYARAJ P** from the Department of Computer Science & Engineering, Third Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH**, Cochin on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development** details were covered.

For **IROHUB INFOTECH**

  
Amala P M

Center Head



  
Principal  
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iRH/2023/1206

Date: 28/09/2023

**To Whomsoever It May Concern**


This is to certify that **Ms. PRIYA DHARSHINI S** from the Department of Computer Science & Engineering, Third Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH**, Cochin on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development details** were covered.

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Center Head



  
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Erode (Dt) - 638 506.

iRH/2023/1207

Date: 28/09/2023

**To Whomsoever It May Concern**

This is to certify that **Mr. RAVIKUMAR P** from the Department of Computer Science & Engineering, Third Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH, Cochin** on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development details were covered.**

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Amala P M

Center Head



  
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Erode (Dt) - 638 506.

iRH/2023/1208

Date: 28/09/2023

**To Whomsoever It May Concern**

This is to certify that **Ms. RUBIKA G** from the Department of Computer Science & Engineering, Third Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH**, Cochin on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development details were covered.**

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Amala P M

Center Head



  
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Erode (Dt) - 638 506.

iRH/2023/1209

Date: 28/09/2023

To Whomsoever It May Concern


This is to certify that **Mr. SHYAM KUMAR S** from the Department of Computer Science & Engineering, Third Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH**, Cochin on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development details were covered.**

For **IROHUB INFOTECH**

  
Amala P M

Center Head



  
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Erode (Dt) - 638 506.

iRH/2023/1210

Date: 28/09/2023

**To Whomsoever It May Concern**


This is to certify that **Ms. SUGANYA K** from the Department of Computer Science & Engineering, Third Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH, Cochin** on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development details** were covered.

For **IROHUB INFOTECH**

  
Amala P M

Center Head



  
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Erode (Dt) - 638 506.

iRH/2023/1211

Date: 28/09/2023

**To Whomsoever It May Concern**

This is to certify that **Ms. SURYA S** from the Department of Computer Science & Engineering, Third Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH, Cochin** on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development** details were covered.

For **IROHUB INFOTECH**

  
Amala P M

Center Head



  
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Erode (Dt) - 638 506.

iRH/2023/1212

Date: 28/09/2023

To Whomsoever It May Concern


This is to certify that **Ms. SUSHMINA M** from the Department of Computer Science & Engineering, Third Year, *JKK Munirajah College of Technology, Erode, Chennai* has undergone the industrial visit from **IROHUB INFOTECH**, Cochin on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development** details were covered.

For **IROHUB INFOTECH**

  
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Center Head



  
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Erode (Dt) - 638 506.

iRH/2023/1213

Date: 28/09/2023

**To Whomsoever It May Concern**


This is to certify that **Mr. VASANTH KUMAR S** from the Department of Computer Science & Engineering, Third Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH, Cochin** on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development details were covered.**

For **IROHUB INFOTECH**

  
Amala P M

Center Head



  
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Erode (Dt) - 638 506.

IRII/2023/1214

Date: 28/09/2023

**To Whomsoever It May Concern**

This is to certify that **Mr. VIGNESH M** from the Department of Computer Science & Engineering, Third Year, *JKK Munirajah College of Technology, Erode, Chennai* has undergone the industrial visit from *IROHUB INFOTECH, Cochin* on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development** details were covered.

For *IROHUB INFOTECH*

  
Amala P M

Center Head



  
Principal

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Erode (Dt) - 638 506.

iRH/2023/1215

Date: 28/09/2023

**To Whomsoever It May Concern**

This is to certify that **Ms. AMUTHAMALAR R** from the Department of Computer Science & Engineering, Third Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH**, Cochin on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development** details were covered.

For **IROHUB INFOTECH**

  
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Center Head



  
Principal

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Erode (Dt) - 638 506.



iRH/2023/1216

Date: 28/09/2023

**To Whomsoever It May Concern**

This is to certify that **Ms. BHARANI DHARAN M** from the Department of Computer Science & Engineering, Third Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH**, Cochin on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development details were covered.**

For **IROHUB INFOTECH**

  
Amala P M

Center Head





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Erode (Dt) - 638 506.


iRH/2023/1217

Date: 28/09/2023


**To Whomsoever It May Concern**

This is to certify that **Mr. SRINIVAS V** from the Department of Computer Science & Engineering, Third Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH, Cochin** on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development** details were covered.

For **IROHUB INFOTECH**

  
Amala P M  
Center Head



  
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Erode (Dt) - 638 506.

iRH/2023/1218

Date: 28/09/2023

**To Whomsoever It May Concern**

This is to certify that **Mr. MADHAN G** from the Department of Computer Science & Engineering, Third Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH**, Cochin on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development** details were covered.

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Amala P M

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Erode (Dt) - 638 506.

iRH/2023/1201

Date: 28/09/2023

**To Whomsoever It May Concern**

This is to certify that **Ms. HARIPRABHA V** from the Department of Computer Science & Engineering, Third Year, **JKK Munirajah College of Technology, Erode, Chennai** has undergone the industrial visit from **IROHUB INFOTECH, Cochin** on 28/09/2023 as per the company norms and regulations. During the visit the domains such as **Overview of Python, React JS and Android Development** details were covered.

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Amala P M

Center Head



  
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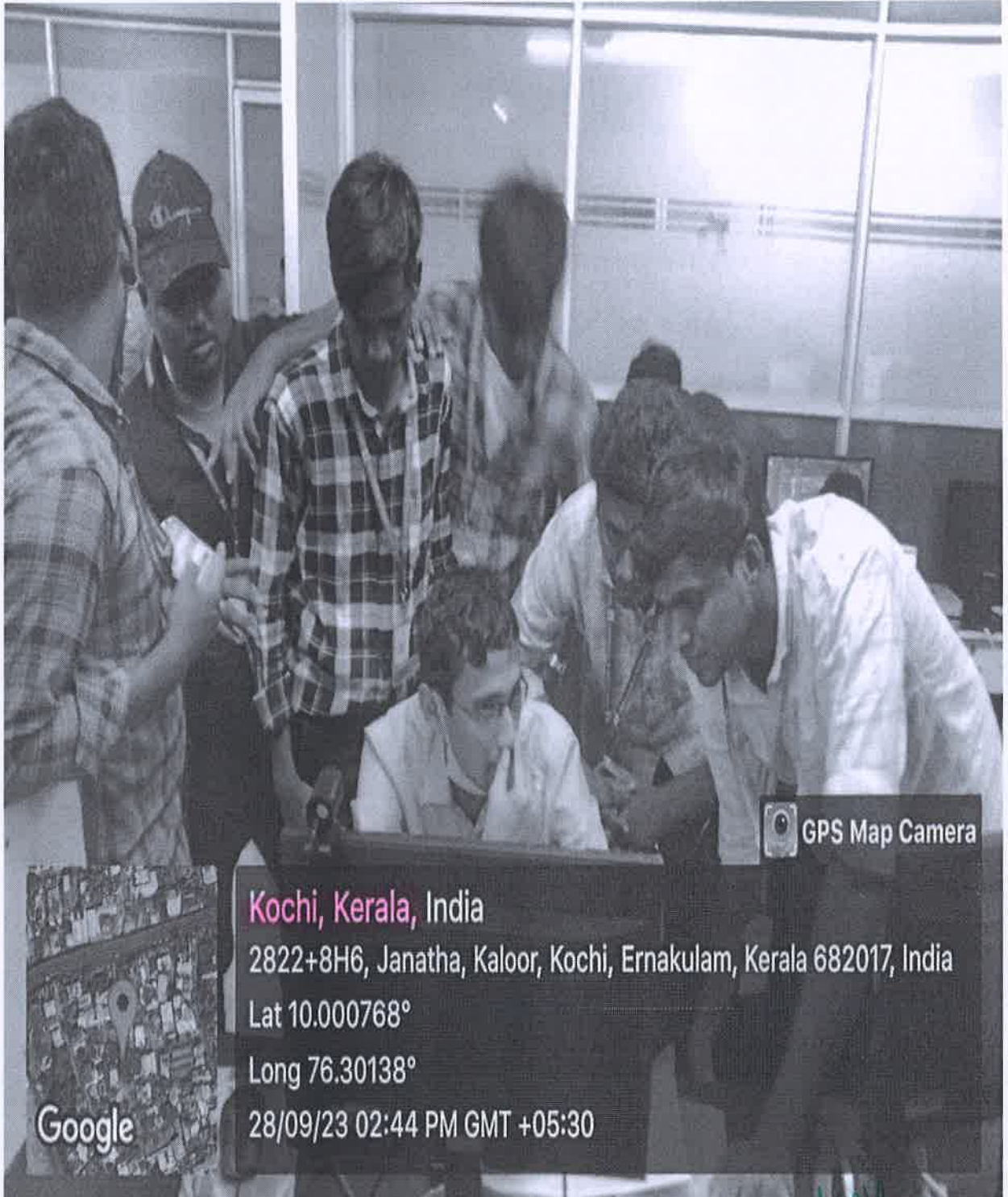
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