



# PIPELINE

NEWSLETTER

2024-2025

july- december



# VELAMMAL

INSTITUTE OF TECHNOLOGY

*Approved by AICTE, Affiliated to Anna University & Accredited by NAAC*

**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE**



“

"YOU MIGHT FAIL A FEW TIMES. BUT THAT'S OK. YOU END UP DOING SOMETHING WORTHWHILE WHICH YOU LEARN A GREAT DEAL FROM."

~ SUNDAR PICHAI

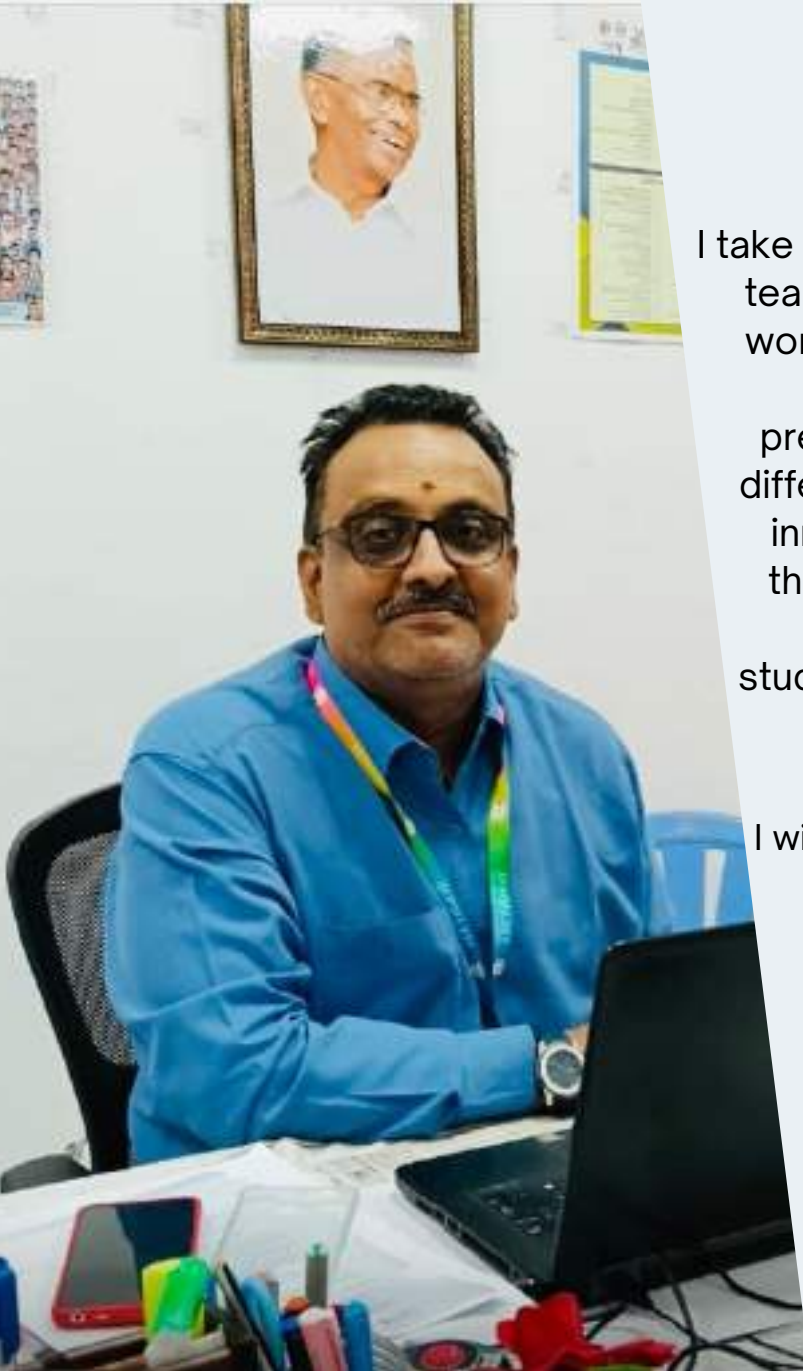


## MESSAGE FROM PRINCIPAL

Dr N.Balaji Principal,  
Velammal Institute of Technology

I congratulate the editorial team in bringing back the Pipeline that offers a chance to be part of the day-to-day college life for the past, present and future prospective stakeholders'. This newsletter will help us to travel through the activities of the Department of Artificial Intelligence and Data Science in the path of academic, co-curricular and extra-curricular achievements of the students, staff and faculty members. I congratulate each one of them who had won and participated in the event and who have written excellent articles for this issues. I wish volume should increase in near future hope this magazine will definitely be an inspiration and motivation for the student and staff to perform better and add on the contributions in the forthcoming issues. I am confident that Pipeline disseminate the information communicate, motivate, performance, Promote unity and trade awareness.

I wish them all the very best for future endeavours.



I take pleasure to appreciate the editors, the staff team and the student team for their meticulous work which is visible in the articles published in Pipeline. The future belongs to those who prepare for it today. We are the college with a difference! We value uniqueness, creativity and innovation and staff to strive for excellence in their education and career. Apart from regular curriculum activities the college stress on students and staff to update knowledge in their chosen area of expertise

I wish them all the very best for future endeavours.

**DR S SOUNDARARAJAN**

Vice Principal, Velammal Institute of Technology

**MESSAGE FROM EDITORS****“SCIENTISTS DISCOVER WHAT IS ENGINEERS CREATE WITH NEVER WAS”**

Engineers with their innovative talents, have an eternal role in ever widening the horizons of universe.

The editorial board feels delight to present this issue “ Pipeline-Volume 2 , Issue 1” for this academic year 2024-2025. Our magazine speaks volume for the multifaced talents of our enthusiastic team. It exhibits the creative hearts and illustrates the tremendous technical knowledge. Besides, this souvenir serves as the brief narration about the assortment of the various events organised by the enthusiastic Professionals and their achievements.

**TEAM MEMBERS****Editors-in-Chief**

Dr.N.Balaji, Ph.D.,  
Principal, Velammal Institute of Technology  
Dr.S. Soundararajan, Ph.D.,  
Vice-Principal, Velammal Institute of Technology

**Associate Editor**

Dr.S. Padmapriya, Ph.D.,  
Professor & Head / Department of AI&DS,  
Velammal Institute of Technology

**Editor**

Ms . Sophia.F, Assistant professor  
Velammal Institute of Technology

**Student Coordinators**

Mr.Midhun III year  
A Section

**“DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE”****PIPELINE VOLUME 2 - ISSUE 1****2024-2025**

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## **“DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE”**

### **VISION OF THE INSTITUTE**

To be a leader in imparting quality technical education, research and enterprising skills in pursuit of professional excellence.

### **MISSION OF THE INSTITUTE**

1. To promote quality education and technical skills to meet the industry requirements.
2. To incorporate team work, leadership skills and lifelong learning.
3. To facilitate career development and higher education assistance.
4. To encourage innovative ideas for research and development and entrepreneurship for societal needs.
5. To inculcate ethical responsibility & human values.

### **VISION OF THE DEPARTMENT**

To create renowned and skilled engineers with creative ideas to compete in the emerging field of Artificial Intelligence and Data Science

### **MISSION OF THE DEPARTMENT**

- 1) To provide high-quality education on existing and evolving Artificial Intelligence and Data Science technology
- 2) To develop technologically superior student and prepare them as responsible engineers with human values.
- 3) To train students as Artificial Intelligence Engineers, Data Scientists, Data Analysts, and Machine Learning Engineers, and to shape their future.
- 4) To enrich students with required skills for employability, Entrepreneurship and pursuing higher studies.
- 5) To encourage the students to implement innovative research and development ideas.

## PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

### Graduates of Artificial Intelligence and Data Science will

1. To provide graduates with the proficiency to utilize the fundamental knowledge of basic sciences, mathematics, Artificial Intelligence, data science and statistics to build systems that require management and analysis of large volume of data.
2. To enrich graduates with necessary technical skills to pursue pioneering research in the field of AI and Data Science and create disruptive and sustainable solutions for the welfare of ecosystems.
3. To enable graduates to think logically, pursue lifelong learning and collaborate with an ethical attitude in a multidisciplinary team.
4. To enable the graduates to design and model AI based solutions to critical problem domains in the real world.
5. To enrich the innovative thoughts and creative ideas of the graduates for effective contribution towards economy building.

## PROGRAM OUTCOMES (POS)

### Engineering Graduates will be able to:

- 1)**Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- 2)**Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- 3)**Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

- 4) **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- 5) **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- 6) **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- 7) **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- 8) **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- 9) **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- 10) **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions
- 11) **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- 12) **Life-long learning:** Recognize the need for, and have the preparation and ability to engage independent and life-long learning in the broadest context of technological change

## Industrial Visit To ASKAN TECHNOLOGIES Kottakuppam

The Industrial Visit was held on 18.09.2024. The faculty members Mr.Dinesh Kumar,Mrs.Abirami coordinated this industrial visit.We reached ASKAN TECHNOLOGIES at 11:00 am .An Industrial Visit to ASKAN TECHNOLOGIES covered a wide range of topics in the areas such as Custom Application Development, Web Design and Development, Mobile App Development, Web Speed Optimization, and Digital Marketing After visiting of the ASKAN TECHNOLOGIES , we toured different sections of the company and observed the work processes closely. The development team demonstrated how custom software applications are designed to meet specific client requirements, highlighting the importance of understanding user needs and employing agile methodologies. Apart from technical exposure, the company organized a special session on resume building and placement preparation. An important highlight of the visit was the introduction to Ulamart, a project developed by Askan Technologies. Ulamart is an online store and IT platform that focuses on offering organic and healthy products sourced directly from farmers.Their dedication, Passion and Willingness to share their knowledge have provided valuable insights into the challenges and opportunities in this field and we returned to college at 5:00 pm in the afternoon.



## **Industrial Visit TO NATIONALATMOSPHERICRESEARCHLABORATORY(NARL) Gandanki**

The Industrial Visit was held on 9.10.2025. The faculty members Mr.Sivakarhikeyan, Mrs.Sudha K coordinated this industrial visit. We reached NATIONAL ATMOSPHERIC RESEARCH LABORATORY(NARL) at 11:00am. AnIndustrialVisit to NATIONAL ATMOSPHERIC RESEARCH LABORATORY covered a wide range of topics in the field of Atmospheric Sciences

After visiting of the NATIONAL ATMOSPHERIC RESEARCH LABORATORY interactions with the incubators related to National Mesosphere-Stratosphere-Troposphere(MST) Radar Facility(NMRF), weather predictions have been inspiring .Their dedication, Passion and Willingness to share their knowledge have provided valuable insights into the challenges and opportunities in this field and we returned to college at 5:30 pm in the afternoon



### **Industrial Visit on RETECH LASERS PVT LTD Varatharajapuram**

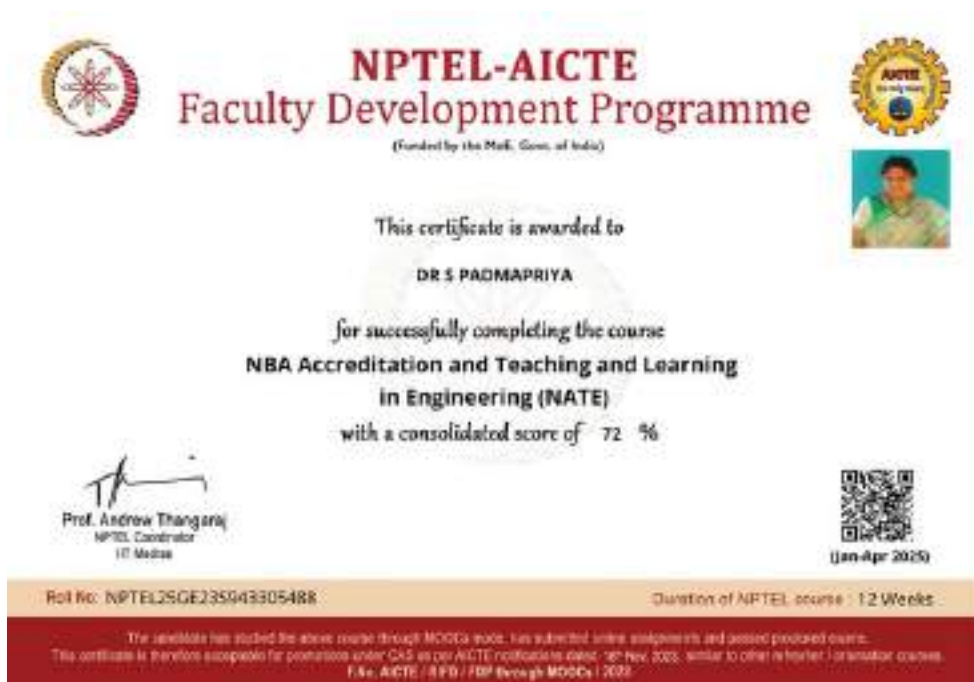
The Industrial Visit was held on 13.11.2024. The faculty members Ms. Vidhya, Ms. Deepika, Mr. Siva Karthikeyan, Mr. Rajesh coordinated this industrial visit. We reached RETECH LASERS PVT LTD at 10:30 am. An Industrial Visit to RETECH LASERS PVT LTD covered a wide range of topics related to animations and 3-D printing.

After visiting of the RETECH LASERS PVT LTD interactions with the incubators related to their 3-D printing have been inspiring. Their dedication, Passion and Willingness to share their knowledge have provided valuable insights into the challenges and opportunities in this field and we returned to college at 2:00 pm in the evening..



## FACULTY ACHIEVEMENTS & CONTRIBUTIONS

### Certification By Faculty



Dr S Padmapriya completed the NPTEL CERTIFICATION ON NBA Accreditation and Teaching and Learning in Engineering (NATEE)



Dr S Padmapriya Holding the Indian society for Technical Education's Lifetime Membership Card

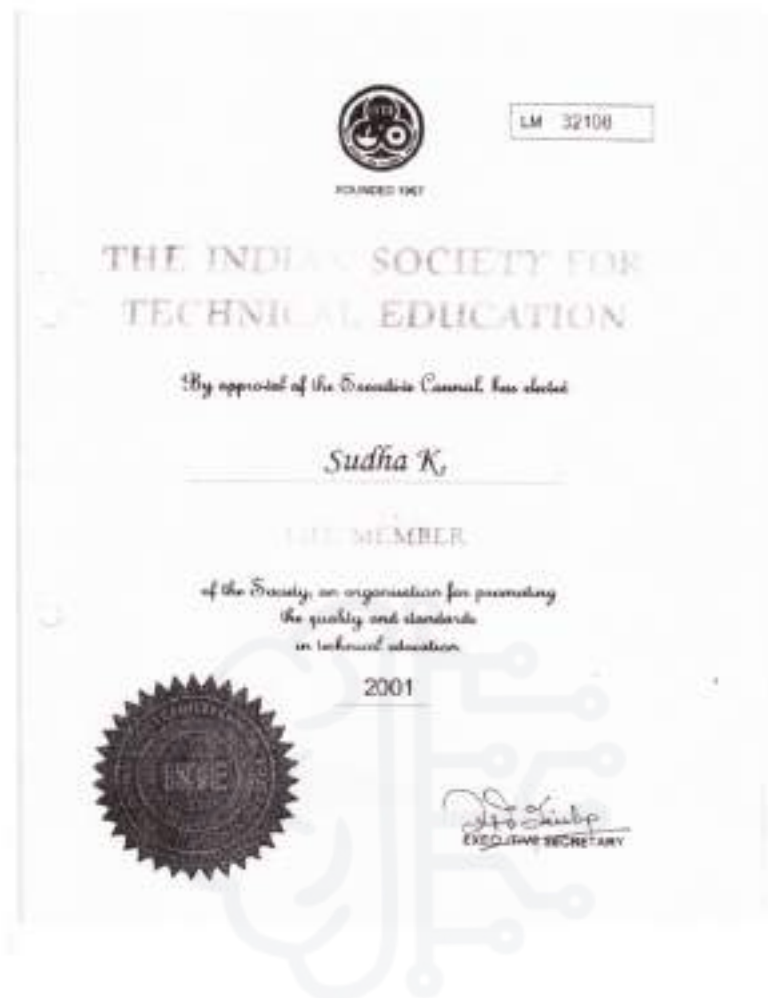


Dr S Padmapriya Holding The Certificate of Membership in IEEE



Dr S Padmapriya Holding The Institution of Engineers (india) Membership Certificate





Dr K Sudha Holding the Membership CERTIFICATE ON THE INDIAN SOCIETY FOR TECHNICAL EDUCATION



**NPTEL ONLINE CERTIFICATION**  
(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**DINESH KUMAR K**  
for successfully completing the course  
**Programming In Java**

with a consolidated score of **54** %

Online Assignments	24.41/25	Proctored Exam	30/75
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Total number of candidates certified in this course: **16040**

Jan-Apr 2025  
(12 week course)

Prof. Haimanti Banerji  
Coordinator, NPTEL  
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL25C5075843304905      To verify the certificate       No. of credits recommended: 3 or 4

Mr Dinesh Kumar K completed the NPTEL CAERTIFICATION on Programming In Java



**Elite**  
**NPTEL ONLINE CERTIFICATION**  
 (Funded by the MoE, Govt. of India)

This certificate is awarded to  
**KIRUPAVATHY J**  
 for successfully completing the course  
**Deep Learning - IIT Ropar**  
 with a consolidated score of **62 %**

Online Assignments	20.47/25	Proctored Exam	41.33/75
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Total number of candidates certified in this course: 3778

Prof. Andrew Thiagaraj  
 Dean  
 Centre for Outreach and Digital Education, IITM

Jan-Apr 2025  
 (12 week course)

M. Vijayash  
 Prof. Vijayash Mathurajayan  
 NPTEL Controller  
 IIT Madras

Indian Institute of Technology Madras

swayam

Roll No: NPTEL25CS215943311657 To verify the certificate

No. of credits recommended: 3 or 4

Kirupavathy J completed the NPTEL CERTIFICATION on Deeplearning



**NPTEL ONLINE CERTIFICATION**  
 (Funded by the MoE, Govt. of India)

This certificate is awarded to  
**KIRUPAVATHY J**  
 for successfully completing the course  
**Introduction to Machine Learning**  
 with a consolidated score of **53 %**

Online Assignments	22.91/25	Proctored Exam	30/75
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Total number of candidates certified in this course: 6000

Prof. Andrew Thiagaraj  
 Dean  
 Centre for Outreach and Digital Education, IITM

Jan-Apr 2025  
 (12 week course)

M. Vijayash  
 Prof. Vijayash Mathurajayan  
 NPTEL Controller  
 IIT Madras

Indian Institute of Technology Madras

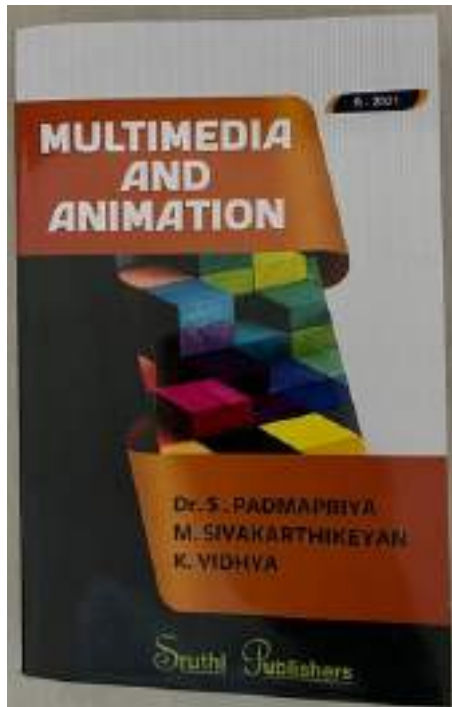
swayam

Roll No: NPTEL25CR46343310396 To verify the certificate

No. of credits recommended: 3 or 4

Kirupavathy J completed the NPTEL CERTIFICATION on Machine Learning

Book Publication By Staffs



Dr.S Padmapriya, M.SivaKarthikeyan and K.Vidhya published a book entitled " MULTIMEDIA AND ANIMATION" in the year 2024



Mrs.K.SUDHA published a book entitled " Problem Solving using Python Programming" in the year 2024



Mr.K.Dinesh Kumar published a book entitled " Database Management System and Security" in the year 2025



**STUDENTS PARTICIPATIONS AND ACHIVEMENTS**

1	113321243001	ABINESH.S	AI&DS	Accenture	4.32 LPA
2	113321243003	AMRITA S	AI&DS	Movate	3.6 LPA
3	113321243004	ARUN P	AI&DS	Movate, KBR	4.5 LPA
4	113321243008	CHAPPIDI ROHAN REDDY	AI&DS	Crio.Do	3.25 LPA
5	113321243009	DEEPIGHA SHRI C M	AI&DS	HCL Tech	4.5 LPA
6	113321243010	DELLI GANESH A	AI&DS	Navat Technolog	3.0 LPA
7	113321243011	DEVERCHETTY CHANDRA	AI&DS	Admindroi d	4.5 LPA
8	113321243014	HARSHITHA SHIVANI T	AI&DS	Unlimited	4.5 LPA
9	113321243015	ITHA VAISHNAVI SANJUKTHA	AI&DS	LT Mindtree,	3.6 LPA
10	113321243016	JEROMEY A	AI&DS	Crio.Do	3.25 LPA
11	113321243017	KAMI REDDY BHAVANI	AI&DS	Zidio Developm	4.0 LPA
12	113321243020	KEERTHANA E	AI&DS	Hexaware	6 LPA
13	113321243021	MAHAPAVITHRA R	AI&DS	Movate	3.6 LPA
14	113321243022	MAHAVARSHINI V	AI&DS	Crio.Do	3.25 LPA
15	113321243023	MALLU NAVYA	AI&DS	Yar Tech, HCL Tech	4.5 LPA

16	113321243027	MOHAMMED ABDUL MALIK	AI&DS	Unlimited	4.5 LPA
17	113321243029	MONESH S	AI&DS	Yar Tech, Karomi	4.5 LPA
18	113321243040	RATHNA MAALA S V	AI&DS	Hexaware	6.0 LPA
19	113321243041	RAVURU VARSHITHA REDDY	AI&DS	Hexaware	6.0 LPA
20	113321243042	RISHI KRISHNAN M	AI&DS	Plenome Tech	3.5 LPA
21	113321243045	SALMA M	AI&DS	HCL Tech	4.5 LPA
22	113321243046	SANDEEP S K	AI&DS	Super Nova	4.0 LPA
23	113321243047	SATHISHKUMAR R	AI&DS	Yar Tech	4.0 LPA
24	113321243048	SELVA PRIYA M	AI&DS	Hexaware	6.0 LPA
25	113321243049	SHAIK MAHIZ	AI&DS	Hexaware, Yar Tech, TCS	6.0 LPA
26	113321243050	SHENINTH J R	AI&DS	Yar Tech, Karomi	4.5 LPA
27	113321243051	SOWMIYA E	AI&DS	Valeo	4.5 LPA
28	113321243052	SRIRAM S	AI&DS	TVS Next	4.5 LPA
29	113321243053	SUMANTH A	AI&DS	Wipro	7.0 LPA
30	113321243054	SWATHITHIYA M	AI&DS	Hexaware	6.0 LPA
31	113321243055	TELKAPALLI VENKATA HIMAJA	AI&DS	Accenture	4.32 LPA
32	113321243056	THARUN RAJ R S	AI&DS	Movate	3.6 LPA

## STUDENT PLACED IN MNC'S



ABINESH



HARSHITHA



AMRITHA



SELVA PRIYA





SOWMIYA



SRI RAM



YATHESH KUMAR



VENKATA HIMAJA

# INTERNSHIPS

*BY*  
Students



**VELAKAPURAM GUNA SEKHAR**  
Got a intership at PLASMID Com in  
**Domain:Data Analytics**



**DABBUGUNTA SRINU**  
Got a Internship Offer at LEARN FLU in  
**webdevelopment Domain**



**Talapaneni Balaji**  
Got a Internship offer at Plasmid Company  
in **Data analysis Domain**



**Nedurupalli Penchala Abhinay Kowshik**  
Got a Internship offer at Plasmid Company in **Data analysis Domain**



DABBUGUNTA SRINU  
RANK:36



ABHINAY KOWSHIK  
RANK:45



TALAPANENI BALAJI  
RANK:47



VELAKAPURAM GUNA SEK HAR  
RANK:51

STUDENTS RANKING ACHIVEMENTS  
IN  
**NCAT**  
NATIONAL CREATIVITY APTITUDE TEST



KULLURU SARATH KUMAR  
RANK:59



DOMMARAJU CHAITHRIKA  
RANK:66



OTTURU SAI KEERTHANA  
RANK:68

## STUDENT With High CGPA IN University Exam



*Maheshwari M*  
CGPA: 9.51



*Santhiya N*  
CGPA: 9.7



*krithika V*  
CGPA: 9.05



*Sai Raghul D*  
CGPA: 9.05



*Ashmitha HS*  
CGPA: 9.1



*Ganta Tejaswini*  
CGPA: 9.01

# Student Registered Patent

पेटेंट भारतीय  
संस्थान संघ  
OFFICIAL JOURNAL  
OF  
THE PATENT OFFICE

पेटेंट सं. संख्या	प्रकार	पेटेंट संख्या
PATENT NO. NUMBER	TYPE	PATENT NO. NUMBER

पेटेंट संस्थान संघ संस्था  
PUBLICATION OF THE PATENT OFFICE

The Patent Office, founded by the Government of India, 1911/1920

66  
(12) PATENT APPLICATION PUBLICATION (21) Application No. 202441189032 A  
(19) INDIA  
(22) Date of filing of Application: 26/12/2024 (43) Publication Date: 10/01/2025

(54) Title of the invention: Next-Generation 5G wireless Networks

(51) International classification: H04L 0009 000000, H04W 00 340 00000, H04B 0003 060000,  
G06Q 0010 067000, H04W 00 76100000  
(56) International Application No: NA  
Filing Date: NA  
(57) International Publication No: NA  
(61) Patent of Addition to: NA  
Application Number: NA  
Filing Date: NA  
(62) Divisional to Application: NA  
Number: NA  
Filing Date: NA

(71) Name of Applicant: IMadhankumar C  
Address of Applicant: 1/x kg thottam, selappampalayam,kabdiipalayam,kevilpalayam post, polurthi taluk,642110  
TM Saathya  
DEEPIKA G  
Dr. Abirami  
Dr.Ashmi, V  
SUJICE RUBY J  
7Sravathi A  
8Kirupavathy J  
9R Hemalatha  
10R Nishin Kumar  
Name of Applicant: NA  
Address of Applicant: NA  
(72) Name of Inventor: TM Saathya  
Address of Applicant: Assistant professor Gojan school of business and technology Chennai  
DEEPIKA G  
Address of Applicant: ASSISTANT PROFESSOR GOJAN SCHOOL OF BUSINESS AND TECHNOLOGY Chennai  
Dr. Abirami  
Address of Applicant: Assistant professor Velammal Institute of technology Chennai  
Dr.Ashmi, V  
Address of Applicant: ASSISTANT PROFESSOR GOJAN SCHOOL OF BUSINESS AND TECHNOLOGY Chennai  
SUJICE RUBY J  
Address of Applicant: ASSISTANT PROFESSOR VELAMMAL INSTITUTE OF TECHNOLOGY Chennai  
6Sravathi A  
Address of Applicant: Assistant Professor Gojan School of Business and Technology Chennai  
7Kirupavathy J  
Address of Applicant: Assistant professor Velammal Institute of technology Chennai  
8R Hemalatha  
Address of Applicant: Assistant professor Malla Reddy university thalipally  
9R Nishin Kumar  
Address of Applicant: Research Scholar SRMIST, RAMAPURAM, CHENNAI Chennai  
10Mr. C.Madhankumar  
Address of Applicant: Technical Trainee School of Computing Department of Computer Science and Engineering Rathnam Technical Campus,Eruduru,Coimbatore Polurthi

(57) Abstract:  
Abstract: The next generation of wireless networks, 5G, represents a revolutionary leap in mobile communication technology, offering significantly faster data speeds, ultra-low latency, and the capacity to support a massive number of connected devices simultaneously. Built upon the foundation of previous wireless technologies, 5G promises to enhance mobile broadband experiences, enable seamless connectivity for the Internet of Things (IoT), and support emerging technologies such as autonomous vehicles, smart cities, and augmented/virtual reality. Key to 5G's success is the implementation of millimeter-wave frequencies, massive MIMO (multiple-input, multiple-output) technology, and advanced network slicing techniques, which collectively optimize network performance and efficiency. Additionally, 5G enables ultra-reliable low-latency communication, making it ideal for mission-critical applications in sectors such as healthcare, manufacturing, and public safety. As 5G networks continue to roll out globally, they hold the potential to unlock new business models, transform industries, and drive economic growth, paving the way for a more connected and intelligent world. However, the deployment of 5G also presents challenges, including infrastructure requirements, spectrum management, and security concerns, which must be addressed to realize the full potential of this next-generation network.

No. of Pages: 11 No. of Claims: 5





## Students Sports Participations



## Students Sports Participations



*Thank you*