



SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE

TECHSPECTRA



Information Technology
Department Magazine 2022 - 2023

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About College

Sri Manakula Vinayagar Engineering College was established in the year 1999. The institution has been approved by AICTE, New Delhi and affiliated to Pondicherry University . It is the first institution in Pondicherry State which has received ISO 9001:2000 Certification and has established the ' Nila Community Radio Station' with the approval of Government of India It is the first engineering institution in Puducherry which is accredited by NBA and NAAC with "A' grade. It is also accredited by the IT giant Tata Consultancy Services (TCS). Within a short span of time, the institution has attained an enviable reputation by possessing all the hall marks of a premier institution in pursuit of excellence. The institution aims at equipping budding professionals with excellent theoretical and practical knowledge. It also takes pride in developing the students with leadership and interpersonal skills and thus shaping them into strategic scholars with competitive spirits who will be capable of delivering their best in the technological world.

Founder, Chairman and Managing Director Messages



With regards
Shri. M. Dhanasekaran
Founder, Chairman and Managing Director

Sri Manakula Vinayaga Educational Trust was founded to provide quality technical, medical, and other relevant education, especially to the disadvantaged members of society.

The trust operates several educational institutions in the Union Territory of Puducherry, including an engineering college, a medical college, a nursing college, and a polytechnic college. The trust also runs a charitable hospital that provides free medical care to the poor.

The trust is committed to providing quality education to all, regardless of their financial background. They believe that education is the key to a better future, and they are working to make it a reality for everyone.

The trust provides state-of-the-art facilities and modern technologies to its colleges to help students become employable and successful entrepreneurs. They also maintain discipline among the students and personally take care of their studies and progress. The trust believes that students are their customers and they take utmost care about their future.

All the colleges of the trust have maintained high standards of discipline and have earned the respect and trust of the public and industrialists. This is the key to their success and has made them a leader in the education sector.

Secretary's Message



With regards
Dr. K. Narayanasamy
Secretary

Sri Manakula Vinayaga Educational Trust is a place where innovative technologists are fostered. Since its inception in 1998, the college has achieved many milestones, including academic excellence, outstanding placement records, and stunning accomplishments in sports and co-curricular activities. SMVEC provides a holistic learning environment for its students. The faculty is well-qualified and experienced, and they are committed to transforming average minds into extraordinary engineers. The college has also formed student chapters and professional bodies to encourage students to interact with the industry.

outside technical fraternity to keep them updated about the ongoing technical innovations. As the Secretary of SMVEC, I welcome you all once again to explore the world of unlimited opportunities and possibilities at SMVEC.

Director's Message



With regards
Dr. V.S.K. Venkatachalapathy
Director cum Principal

Sri Manakula Vinayagar Engineering College is located in a peaceful environment, away from the hustle and bustle of the city. This allows students to focus on their studies without distractions. The administration is committed to maintaining peace and order in the campus, and they take every necessary measure to ensure the safety of the students.

The College is having teams of dedicated faculty members in each department who are fully qualified.

The college has a dynamic administration that works hard to produce quality engineers who are well-suited for the digital world. They offer value-added courses in each department to help students get the skills they need to succeed in the job market. The college also focuses on developing students into good citizens by teaching them discipline and other important values.

The institution is accredited by NAAC with 'A' Grade in the year 2013. Ours is the first engineering institution in the Union Territory of Puducherry which has got the NAAC accreditation. Right from the first batch, the students of this institution have bagged the gold medals and top ranks of the Pondicherry University. Each department is having state of Art equipments and fully furnished labs. Well equipped Library is also available. Separate hostel facilities are available for boys and girls with gym. I welcome all the students to utilize these facilities available at this institution for their academic growth.

Head of the Departments Message



Dr. R. Raju
Professor & Head,
Department of Information Technology

It gives me immense pride, as the Head of the Department of Information Technology, to welcome you all to our vibrant department at Sri Manakula Vinayagar Engineering College. Since its inception in 1999, our department has been committed to delivering quality education, fostering innovation, and shaping young minds into competent IT professionals. With NBA accreditation, we stand as a symbol of excellence in teaching, research, and industry collaboration.

At IT, we emphasize a practical approach to learning. Our students are groomed through industry tie-ups, professional society engagements, and community partnerships, ensuring they are prepared to tackle real-world challenges with confidence.

We also focus strongly on career growth by offering value-added courses, cutting-edge infrastructure, and Outcome-Based Education (OBE). Our students have secured international internships, won laurels in national-level hackathons and competitions, and continue to make us proud with their achievements.

The department remains dedicated to producing globally competent technocrats who are not only industry-ready but also responsible citizens.

I warmly welcome all students to join us in this journey of academic excellence, innovation, and growth.

About the Department

Established in 1999, the Department of Information Technology at Sri Manakula Vinayagar Engineering College has been a milestone of technological advancement and academic excellence. Over the past 25 years, our department has consistently nurtured bright minds, facilitated, cutting edge research and contributed significantly to the technological landscape, driven by a passion for innovation and a commitment to excellence, the dept of IT aims to

- Provide a rigorous academic curriculum that equips students with the knowledge and skills necessary to excel in the field of IT.
- Foster a culture of research and innovation, encouraging both faculty and students to explore emerging technologies and contribute to the advancement of the field.
- Cultivate a supportive and inclusive learning environment that promotes collaborations to critical thinking and ethical practice.
- Forge strong industry partnerships and collaborations to ensure our curriculum remains relevant and aligned with industry needs.
- Prepare graduates to become leaders and innovators in the ever-evolving field of IT, capable of addressing global challenges and making meaningful contributions to society.

Key Highlights:

- Accredited by AICTE, NBA & TCS for its high standard of academic excellence and commitment to quality education.
- State of the art lab equipped with the latest hardware and software providing students with hands on experience in diverse areas such as Networking, Cyber Security, Artificial Intelligence and more.
- Dedicated and experienced faculty members who are experts in their respective fields, committed to nurturing the next generations of IT professionals.
- Active involvement in R & D, with faculty members publishing in top journals and prestigious conferences.
- Strong industry connections, facilitated through internships, guest lectures and industry sponsored projects, providing students with real-world experience and network opportunities.
- Regular seminars, workshops and hackathons organized to keep students updated with the latest trends and technologies in IT.
- Robust placement record, with graduates seeking positions in leading companies and organizations

ACADEMIC :-

- Industry 4.0 aligned curriculum to help students gain deep digital insights.
- Industry 4.0 aligned curriculum to help students gain deep digital insights.
- Continuous Evaluation to help students gain complete mastery of the courses.
- Lab Integrated Theory courses to facilitate acquisition of critical problem solving skills.

Infrastructure:

- Well-furnished class with ICT enabled tools for effective teaching practices.
- Well established laboratories with high end computer hardware and software to enrich the skill of the students
- Department Library with Large Volume of Books and reference materials

Laboratories

COMPUTING LABORATORY

DATA SCIENCE LABORATORY

IOT LABORATORY

NETWORK LABORATORY

LANGUAGE LABORATORY

Technical Clubs

To enhance students' technical expertise, the department organizes weekly club events focused on both technical and societal endeavours. The iTechlignce and Pranit clubs facilitate hands-on workshops, guest lectures, and interactions with industry experts to enrich students' technical skills. These activities foster the development of leadership, teamwork, and a comprehensive grasp of engineering concepts, while also encouraging students to engage in community outreach initiatives, thereby making positive contributions to society.

Professional student chapters

Professional student chapters in the department serves as platform for students to engage in industry-relevant activities, networking, and skill development. Through involvement in these chapters, students can build connections with professionals in their field, gain practical experience, and stay updated on the latest advancements in their respective disciplines.

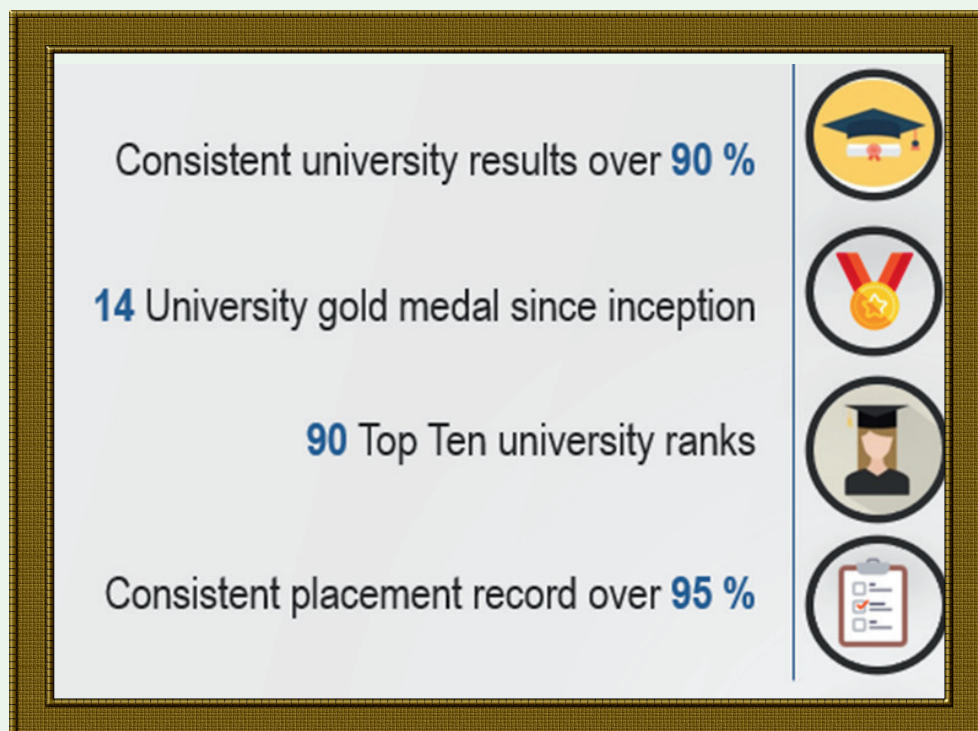
Industry Institute Interaction:

The students are given awareness about the blooming technologies and specific training are arranged, to equip students. Staffs and concerned faculties are sent to the respective firms and were trained with the specific domain. Guest lectures are given to students to understand about the industrial domains and how to cope up with new technologies and what is expected out from the students, which help the students to equip themselves for recruitment by reputed companies.

- Strategic partnerships with various Industry Partners for mutual benefit.
- Graded Platinum - The highest rating in the AICTE - CII survey on Industry Institute Interaction.
- Multiple partnerships for Industry driven training and certification, Strategic hiring, Faculty Development Programmes, Internships, Projects, Industry Visits, Guest Lectures etc. ,Internship.

Students Excellences

- The department of information technology owns the pride of bagging the gold medal consecutively since 2003.
- The department of information technology students conquered Top 10 Ranks in two consecutive academic years 2013 – 2017 and 2014-2018 batch.
- Winner of Unisys Cloud 20/20 Y13 National level contest organized by Unisys, Bangalore, 2022.
- Winner of International Blockchain skill summit hackathon 2022 organized by FABC, Dubai, 2022.
- Winner of virtusa jatayu session-II - Virtusa Jatayu Open Innovation contest organized by Virtusa, Chennai, 2022.
- Winner of AlgoBharat Blockchain Hackathon organized by AlgoBharat , Singapore, 2022.
- Finalist and Job offer in Virtusa Virtusa NeuralHack Season 6 organized by Virtusa, Hyderabad, 2022.
- Intern offer in Unisys Cloud 20/20 Y12 National level contest organized by Unisys, Bangalore, 2021.
- Winner of 5G Hackathon organized by Department of Telecommunications, Ministry of Communications, Government of India, 2020.
- Winner of Unisys Cloud 20/20 Y11 National level contest organized by Unisys, Bangalore, 2020



Placement Record:

Department of information technology is providing above 95% Placement consecutively for the past seven years

Department Vision and Mission

Vision

To be a pioneer in the field of Information Technology by achieving academic excellence, involving in research and development and promoting technical and professional expertise.

Mission

- M1: Expertise: To impart quality education and create excellent engineers with strong analytical, Programming and Problem-solving Skills to meet the ever-changing demands of IT industry.
- M2: Eminence: To kindle creative thinking, innovation and foster value based research in the field of information technology.
- M3: Complaisant: To enrich the employability skills, inculcate entrepreneurial ideology and promote professional expertise.
- M4: Exemplar: To instil human values, ethical responsibilities and empowering graduates to be socially responsible and technically competent

Program Specific Objectives

PSO 1

Establishment of Mathematical and computer systems concepts: To use mathematical and system concepts to solve multidisciplinary problems using appropriate mathematical analysis, system and programming concepts on various computing environments.

PSO 2

Establishment of applications and information concepts: To inculcate good breadth of knowledge to create applications and enhance infomatics with cutting edge technologies.

PSO 3

Establishment of Business, Technological concepts: The ability to interpret and respond to business agility with relevant software tools and skills and provide newer ideas and innovations in information technology research.

Program Outcomes

PO 1

Engineering Knowledge: Apply knowledge of mathematics and science, with fundamentals of Engineering and Technology to be able to solve complex engineering problems related to IT.

PO 2

Problem Analysis: Identify, Formulate, review research literature and analyze complex engineering problems related to IT and reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences

PO 3

Design/Development of solutions: Design solutions for complex engineering problems related to IT 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

PO 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.

PO 5

Modern Tool Usage: Create, Select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modeling to computer science related complex engineering activities with an understanding of the limitations

PO 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 IT professional engineering practice

PO 7

Environment and Sustainability: Understand the impact of the IT professional engineering solutions in societal and environmental contexts and demonstrate the knowledge of, and need for sustainable development

PO 8

Ethics: Apply Ethical Principles and commit to professional ethics and responsibilities and norms of the engineering practice

PO 9

Individual and Team Work: Function effectively as an individual and as a member or leader in diverse teams and in multidisciplinary Settings

PO 10

Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large such as able to comprehend and with write effective reports and design documentation, make effective presentations and give and receive clear instructions.

PO 11

Project Management and Finance: Demonstrate knowledge and understanding of the engineering management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multi-disciplinary environments

PO 12

Life-Long Learning: Recognize the need for and have the preparation and ability to engage in independent and life-long learning the broadest context of technological change

Department Milestone

Year	Details
2000-01	B.Tech - IT inception with intake 40
2003-04	University Rank 7,10 for batch 1999-2003: B.Tech IT
2004-05	University Gold medal & Rank 8,9, for batch 2000-2004: B.Tech IT
2005-06	Accredited by TCS with B grade University Rank 3,6 for batch 2001-2005: B.Tech IT
2006-07	University Rank 5,13 for batch 2002-2006: B.Tech IT
2007-08	B.Tech - IT - Increase in intake to 60 University Gold Medal & Rank 5 for batch 2003-2007: B.Tech IT
2008-09	B.Tech - IT - Increase in intake to 90 University Gold Medal & Rank 5,9 for Batch 2004-2008: B.Tech IT
2009-10	B.Tech - IT - Increase in intake to 120 University Gold medal & Rank 5,8,11 for Batch 2005-2009: B.Tech IT
2010-11	University Gold medal & Rank 3,8 for Batch 2006-2010: B.Tech IT
2011-12	B.Tech - IT - Increase in Intake 180 University Gold medal & Rank 2,3,4,5,8,9 for Batch 2007-2011: B.Tech IT
2012-13	M.Tech Networking with intake 18 University Gold Medal - B.Tech - IT & Rank 2, 3, 5, 6, 7, 8, 9, 10, 14, 15 for 2008-2012 batch
2013-14	University Gold Medal B.Tech - IT & Rank 2,3,4,5 & 7 for 2009-2013 batch TCS Mobiwiz -2014 -Winner

2014-15	University Gold Medal B.Tech - IT & Rank 2,5,7,10 for batch 2010-2014 University Gold Medal for M.Tech Networking Batch 2012-2014 TCS Testimony 2014 - Runner up Unisys Cloud 20/20, 2014- Internship
2015-16	University Gold Medal B.Tech - IT & Rank 2,3,4,5,8 for batch 2011-2015 University Gold Medal for M.Tech Networking Batch 2013-2015 TCS Testimony 2015 winner Mphasis Internship 2015 – Winner ICTACT Youth Presentation – Winner Unisys Cloud-20/20, 2015 - Internship Award
2016-17	University Rank- B.Tech - IT 2,4,5,6,7,8,9 for batch 2012-2016 University Gold Medal for M.Tech Networking Batch 2014-2016 The Great Mind Challenge (TGMC) IBM Winner Smart India Hackathon- Best Inspiration Award TCS Innovate- Best Inspiration award ACM India National Level Hackathon for Women Runner up ICTACT, Youth Present Winner CODEVYUG Programming Contest, DEXTERS Technology, Chennai- Winner TCS Kurushetra-2016 – Runner up Accenture Innovation Jockey-2016 – Best Innovation Idea Award Research and Innovation Expo-National Level Technical Meet- IIT Madras - Winner
2017-18	NBA Accreditation for 3 Years TCS Accreditation upgraded to B grade Unisys cloud 20/20 – I & III place Prayanta' 18 – I place TCS Innovate-2017 – Runner up Design Thinking Challenge '18 contest - Winner

2019-20	University Gold medal B.Tech - IT for Batch 2014-2018 University Gold medal and Rank 2,3,5,6,8:B.Tech - IT for Batch 2015-2019 University Gold Medal for for M.Tech – Networking Batch 2016-2018 University Gold Medal for M.Tech – Networking Batch 2017-2019 February-2020 NCPI Hackathon 2019 winner SMART INDIA HACKATHON 2019 Hardware Edition - Winner Unisys Cloud 20/20- Second Runner up Centre of Excellence NCSS Centre of Excellence Ethnotech solutions MoU with Aurobindo Society Pondicherry
2020-2021	R-20 Regulation framed Unisys Cloud 20/20 : Winner Weight Lifting : 2nd Prize TCS IdeaBank : Winnerfs Empowering Youth Hackathon 2020 : Finalist
2021-2022	R-23 Regulation framed Board of Studies : 4,5 Unisys Cloud 20/20 : Winner CII Inovation Puducherry : Runner Mitilence : Winner
2022-2023	R-23 Regulation framed Board of Studies : 6,7 Unisys Cloud 20/20 : Winner Virtusa Jatayu : Winner Blockchain Skill Summit : Winner



FACULTY

ACHIEVEMENTS

Faculty Achievements



Dr. Saravanan R, Associate Professor, has been honored with the Excellence Teaching in Higher Education Award by Deccan International Academic Publisher Awards 2023 for his outstanding contribution to the field of education

Faculty Achievements



Dr. R. Saravanan, Associate Professor, has received the Certificate of Excellence in Reviewing from the Asian Journal of Research in Computer Science

Faculty Achievements



Dr. Balaji S, Associate Professor, Department of Information Technology, Sri Manakula Vinayagar Engineering College, has been honored with the Excellence Teaching in Higher Education Award by Deccan International Academic Publisher Awards 2023 for his outstanding contribution to the field of education

Faculty Achievements



Mr. Suresh Ramanujam was honored with the 'SMVEC Best Teacher Award 2023' for Excellence in Academics, presented by the Home Minister of Puducherry during the College Day 2023 ceremony



Sri Manakula Vinayagar Engineering College, under the mentorship of Mr. Suresh Ramanujam, has been awarded a Certificate of Appreciation for Outstanding Performance in Jatayu Season 3 (Dec '22 - Dec '23). This recognition highlights the institution's exceptional commitment to innovation, academic excellence, and consistent achievements

Faculty Achievements



Mr. Suresh R, Associate Professor, received a Certificate of Appreciation for his exceptional contribution as SPOC in the Smart India Hackathon 2022 (Grand Finale - Hardware & Software Editions).

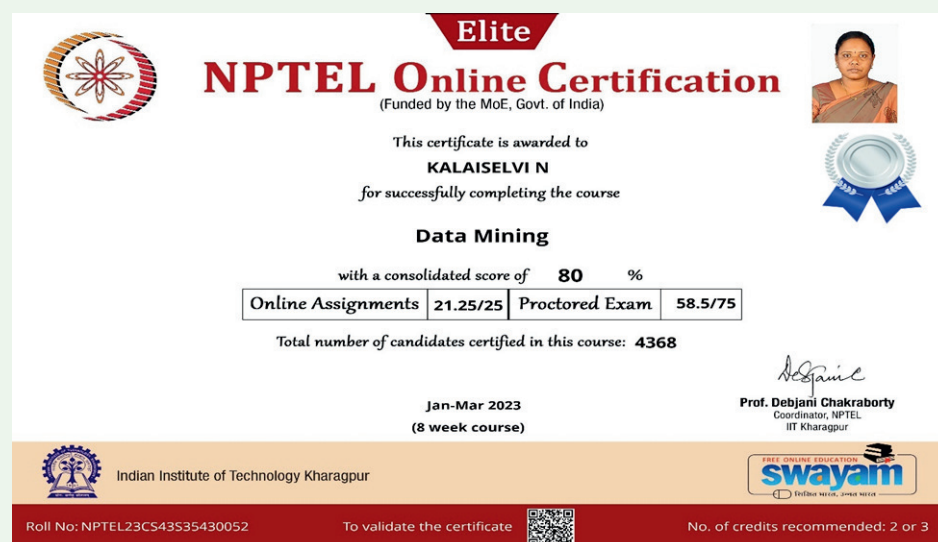


Mr. Suresh Ramanujam, Associate Professor, has successfully completed the Certified Wallet Engineer - Advance Course powered by Liminal.

Faculty Achievements



Ms. Kalaiselvi Nandagopal, Assistant Professor, has successfully completed the Alteryx Foundation Micro-Credential Certification on 22nd April 2023



Mrs.N. Kalailvi, Assistant Professor has successfully completed the NPTEL-certified course on "Data Mining"

STUDENT ACHIEVEMENTS

Students Achievements

Curricular Activities

IV year students Sreeyaparvathy V.S., Ashok K.M., Yogalakshmi R., Sowmya R., and Manjunan Sri Haripriya won the First Prize and the Title Winner award in Virtusa Jatayu – Session II, receiving full-time offers along with a cash prize of ₹1,00,000



Sakthiprakash S. and Jayavishnu A., II Year students, won the III Prize in the “Word Hippo” technical event at MITILENCE 2022, organized by Sri Manakula Vinayagar Institute of Technology.

Our II Year students Arrifa A. and Christele Nandine E. won the II Prize, and Akshaya M. won the III Prize in the “Snake & Ladder” event at MITILENCE 2022, organized by Sri Manakula Vinayagar Institute of Technology.



Students Achievements



Akshaya M., a II year student, won the Second Prize in the Paper Presentation event at MITILENCE 2022, organized by Sri Manakula Vinayagar Institute of Technology

S. Aravind and N. Sivasankar of II Year won Second Prize in Project Contest, Perunthalaivar Kamarajar Institute of Engineering and Technology, Karaikal, Nov 2022



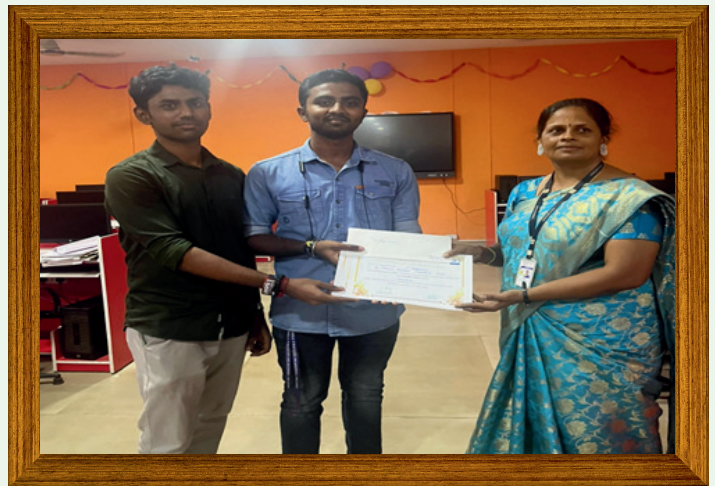
N. Balaji and M. Gokul, II-year students, participated in SCIMIT'23, a paper presentation event conducted by Manakula Vinayagar Institute of Technology. The team secured the First Prize for their outstanding presentation

Students Achievements



Aravindhan R, a II-year student, participated in Kurukshetra'23 - Service Design Jam, conducted by Manakula Vinayagar Institute of Technology. His team secured the First Prize in the event.

R. Udhaya Rajeshwar and V. Vigneshwaran, II-year students, participated in Kaiser Insight Sink - Presentation, conducted by Hindustan College of Engineering and Technology. The team secured the First Prize for their outstanding performance



Harini B, Dheepika A, Akash P, and Sathesh M.A, II-year students, participated in ENC INFO 2K23 - CRYPTOCON, a paper presentation event conducted by Puducherry Technological University. The team secured the First Prize for their exceptional presentation

DEPARTMENT

ACTIVITIES

HANDS-ON WORKSHOP/ GUEST LECTURE



A 5-day hands-on workshop on “Cloud Computing & Data Science” and “Big Data Analytics” was conducted from 19th to 23rd October 2022 by ICTACT under the IT Finishing School scheme for the IV Year students.



The Department of IT, in association with the IEEE Student Branch, organized a guest lecture on “Introduction to Computer Vision” by Mr. A. Albert Alex, Co-founder of Cspike Technologies, on 20th August 2022.

Department Activities



The Department of IT, in association with the IEEE Student Branch, organized a guest lecture on “Modernization of Application Development” by Mr. V. Hariram, Senior SE and FSD at Financial Software Systems, Chennai, on 19 Nov 2022



The Department of IT, in association with the IEI Student Chapter, organized an offline technical webinar on 12th November 2022. The session was handled by Mr. Vignesh, Managing Director of Vebbox Software Solutions

Department Activities

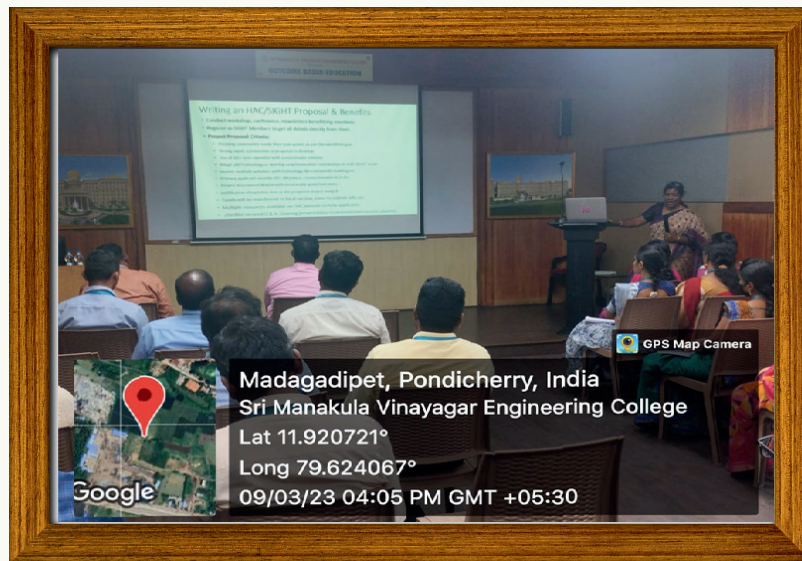


IEEE workshop on 'Humanitarian and Sustainable Development Ideas, Projects and Funding', on 9th March, 2023. The Lecture was delivered by Dr. Anandi Giridharan, Principal Research Scientist, Department of Electrical Communication Engineering, Indian Institute of Science, Bangalore.



A guest lecture on "Blockchain Technology" was organized by the IT Department & IEI for second-year IT students. The session was delivered by Prof. Chandra Mohan from the prestigious VIT, Chennai.

Department Activities



A guest lecture on “Humanitarian and Sustainable Development Ideas, Projects and Funding” was organized by the IT Department & IEEE Student Branch (SB) and delivered by Prof. Anandhi Giridharan, Principal Research Scientist, IISc Bangalore, on 09.03.2023.



A guest lecture on “Agile Methodologies” was organized by the IT Department & IEEE Student Branch (SB) and delivered by Dr. Yogesh Raj Kumar, Assistant Professor, Bharath University, on 15.04.2023.

Department Activities



A guest lecture on “Operating Systems” was organized by the IT Department & IEEE Student Branch (SB) and delivered by Dr. P. Sudhakar, Associate Professor, Annamalai University, on 06.05.2023

Faculty Development Program



Eight faculty members from the IT Department participated in a 5-day Faculty Development Program on “Application of Mathematics in Engineering,” conducted by the Department of Mathematics, SMVEC, Puducherry.



Five faculty members from the IT Department participated in a 5-day Faculty Development Program on “Data Science using Python,” conducted by Ethnotech.

CREATIVE

CORNER

PENCIL DRAWING



JAGANATH.D IV YEAR



JANANI S I YEAR





SARVIKA R II YEAR



ARTWORKS



II YEAR GIRLS



III Year Students

SARANYA D

DHARSANI P

HARINI P,

JAYASHREE B

JAYASRI R



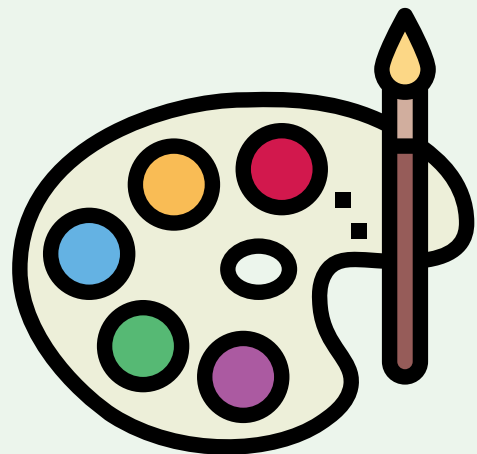
LOGADHARSHINI R II YEAR



JAYA KIRTHIKA S I YEAR



SHAVEETHA .R IV YEAR



POEM

THE SILVERY MOON

Just pacing the sea with these
whispers in my head
As the darkness spread
As the wind grinned, it danced on
my skin
A playful touch so thin.
The mud of the sea sticking onto
my feet
Until I reach the shore and isn't
that sweet?
Under the silvery moon
As she wished for a boon
And was wondering why there
are no answers
After all, it was just a hoax that
she believed.

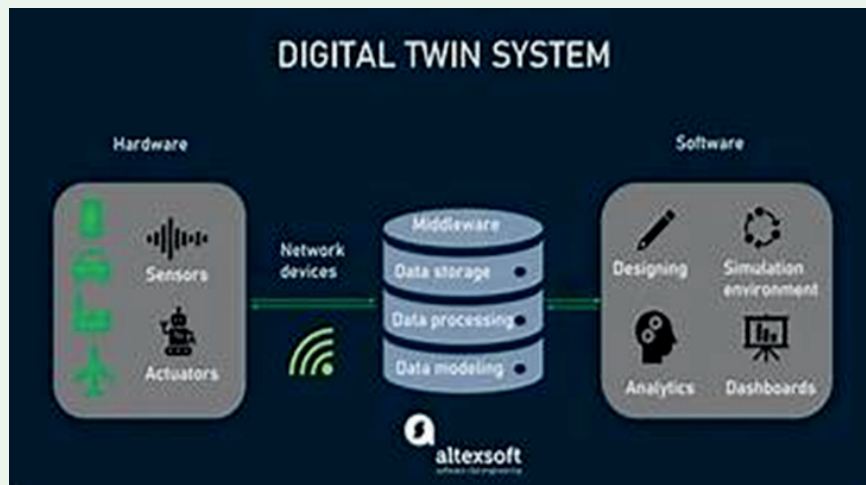
**-HARI SOWMIYAA A
III YEAR**



ARTICLES

DIGITAL TWINS IN ENGINEERING AND INDUSTRY 4.0

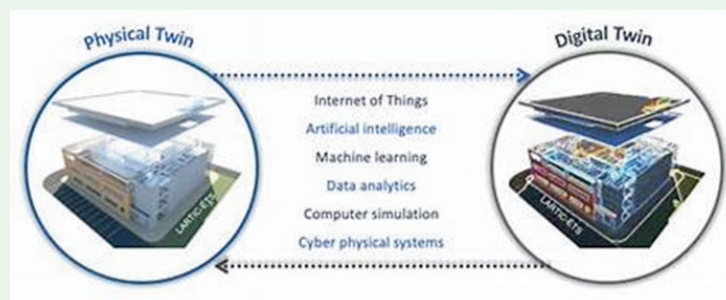
Digital twins are rapidly gaining prominence as a key innovation in the era of Industry 4.0. A digital twin is a virtual replica of a physical asset, process, or system that is continuously updated with real-time data. By simulating the behavior of its physical counterpart, a digital twin enables engineers, manufacturers, and operators to monitor performance, predict failures, and optimize processes without physical intervention. This powerful concept is revolutionizing sectors ranging from manufacturing and construction to healthcare and urban planning.



The idea of creating a digital representation of physical systems is not entirely new, but advancements in IoT (Internet of Things), cloud computing, AI, and big data analytics have made digital twins more viable and impactful. In manufacturing, for example, digital twins are used to simulate production lines, identify bottlenecks, and improve product design. By capturing data from sensors embedded in machines, engineers can monitor equipment health, predict breakdowns, and schedule maintenance proactively. This reduces downtime, lowers operational costs, and enhances safety.

Digital twins are also being applied in infrastructure and smart cities. Urban planners use them to model traffic flow, energy consumption, and emergency response systems. In construction, architects and civil engineers can visualize buildings before they are built, optimizing structural design and reducing errors. Even in aerospace and automotive industries, digital twins help simulate vehicle behavior under different conditions, leading to safer and more efficient designs.

One of the major advantages of digital twins is their ability to support continuous improvement. Real-time feedback loops enable companies to test scenarios, analyze outcomes, and refine operations continuously. This agility is a cornerstone of Industry 4.0, which emphasizes smart automation, interconnected systems, and data-driven decision-making. Furthermore, digital twins support sustainability goals by minimizing waste, reducing energy usage, and improving resource efficiency.



However, the adoption of digital twins is not without challenges. Building accurate digital twins requires vast amounts of high-quality data, strong cybersecurity protocols, and interdisciplinary collaboration. The integration of physical and digital domains also demands a shift in organizational culture and skill sets. Engineers must become proficient not only in mechanical systems but also in data science, simulation tools, and software engineering.



As digital twins gain momentum, collaboration between industry, academia, and government becomes increasingly vital. Universities must integrate digital twin technologies into engineering curricula to prepare future professionals for an interconnected world. Research and development should focus on standardizing platforms, enhancing interoperability, and addressing ethical concerns surrounding data use. When combined with AI and edge computing, digital twins have the potential to not only optimize industrial processes but also contribute to larger societal goals such as climate resilience, disaster preparedness, and smart city development. The promise of digital twins lies not just in efficiency, but in reimagining how we interact with the physical world through data-driven intelligence.

In conclusion, digital twins represent a transformative leap in engineering and industrial practices. By bridging the physical and digital worlds, they enable smarter design, predictive maintenance, and operational excellence. As Industry 4.0 continues to evolve, digital twins will play a central role in shaping the future of innovation, efficiency, and sustainability.

Thank You

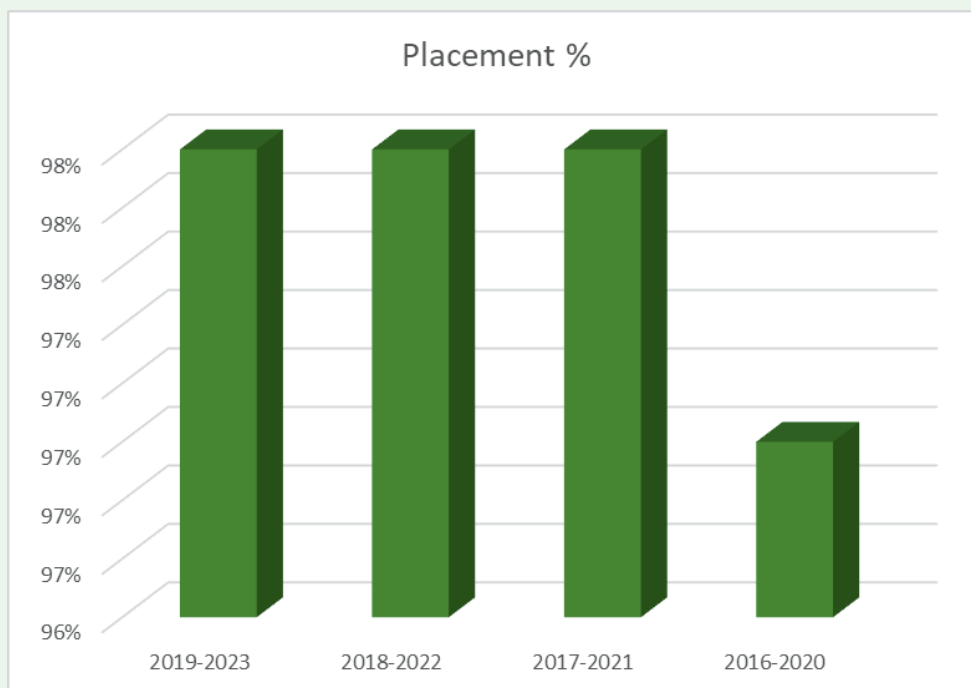


PLACEMENT

RECORDS

Placement Record

Batch	Placement Percentage
2019-2023	98%
2018-2022	98%
2017-2021	98%
2016-2020	97%



Placement Details (2022-2023)

S.No	Name of the Company	No. of Students Placed
1	ADP	1
2	ACCENTURE (PEGA)	1
3	CTS	25
4	CTS ELEVATE	1
5	CTS PRO	2
6	EMBEDUR	1
7	FABC	3
8	FORD	1
9	GIGAMON	1
10	HUMAN RESOURCES	1
11	INCEDO	1
12	INTEGRA	6
13	JUST DIAL	1
14	LI CREATIVE	1
15	LUMEN	1
16	PEGA CTS	1
17	SOPRA STERIA	1
18	SOCIETY GENERAL	3
19	SIRIUS	1

20	RAMCO SYSTEMS	1
21	TCS NINGA	31
22	SYNTEL	1
23	TEACHNOOK	39
24	VIRTUSA	8
25	CSS CORP	1
26	ACADEMOR	26
27	TVM	3
28	UNISYS	6
29	ZOHO	3
Total No. of Students Placed		172

Highest Package: 12 LPA

Average Package: 5.28 LP

Internship Details (2022 -2023)

S.NO	NAME OF THE COMPANY	STUDENT NAME	DURATION
1	VIRTUSA,CHENNAI	SREEPARVATHY VS	3 MONTHS
2	VIRTUSA,CHENNAI	ASHOK K	3 MONTHS
3	VIRTUSA,CHENNAI	YOGALAKSHMI R	3 MONTHS
4	VIRTUSA,CHENNAI	SOWGENYA R	3 MONTHS
5	VIRTUSA,CHENNAI	MANYAM SRI HARI PRIYA	3 MONTHS
6	ZOHO,CHENNAI	NARESH.P	3 MONTHS
7	ZOHO,CHENNAI	SRINIVASAN.D	3 MONTHS
8	ZOHO,CHENNAI	JANANI.J	3 MONTHS
9	ZOHO,CHENNAI	LOGESH KRISHNA V	3 MONTHS
10	ZOHO,CHENNAI	JEYASRI.S.V	3 MONTHS
11	TVM INFOTECH,CHENNAI	RANJANI.R	3 MONTHS
12	TVM INFOTECH,CHENNAI	SHALINI.E	3 MONTHS
13	TVM INFOTECH,CHENNAI	PURVASHREE A	3 MONTHS
14	UNISYS,BANGALORE	RAGAVI	9 MONTHS
15	UNISYS,BANGALORE	SWAPNA.G	9 MONTHS
16	UNISYS,BANGALORE	SREEPARVATHY VS	9 MONTHS
17	UNISYS,BANGALORE	ASHOK K	9 MONTHS
18	UNISYS,BANGALORE	YOGALAKSHMI R	9 MONTHS
19	WEB DIGITAL MANTRA,BANGALORE	BHAVANESH R	2 MONTHS
20	WEB DIGITAL MANTRA,BANGALORE	ALLU SRAVANA LAKSHMI	2 MONTHS

21	WEB DIGITAL MANTRA,BANGALORE	ARUN KUMAR T	2 MONTHS
22	MINDGO TECH PRIVATE LIMITED	SWAPNA.G	1 MONTHS
23	TARE ZAMEEN FOUNDATION	RAHUL FROST	2 MONTHS
24	TECHERA KNOWLEDGE AND CAREERS	BALAJI ARASU	2 MONTHS
25	TARE ZAMEEN FOUNDATION	SUBASH RAJ M	2 MONTHS
26	TEACHNOOK	AGASH.V	6 MONTHS
27	ACADEMOR(OFF CAMPUS)	AKKASH.K	6 MONTHS
28	CTS	ALLU SRAVANA LAKSHMI	6 MONTHS
29	TEACHNOOK	ANBARASAN.A	6 MONTHS
30	TEACHNOOK	ANBARASAN.V	6 MONTHS
31	CTS	ARAVINDAN.P	6 MONTHS
32	ACADEMOR(OFF CAMPUS)	BADHRINATH.R.M	6 MONTHS
33	ACADEMOR(OFF CAMPUS)	BALAMURUGAN.G	6 MONTHS
34	CTS	BARATH.B	6 MONTHS
35	TEACHNOOK	BARATHRAJ.S	6 MONTHS
36	ACADEMOR(OFF CAMPUS)	BHARATH.P	6 MONTHS
37	ADP (OFF CAMPUS)	BHAVANESH. R	6 MONTHS
38	TEACHNOOK	CRAIG ROYSTEN D'SILVA	6 MONTHS
39	ACADEMOR(OFF CAMPUS)	DHARANE DARAN.M	6 MONTHS
40	CTS PRO	GAYATHRI DEVI.R	6 MONTHS
41	ACADEMOR(OFF CAMPUS)	GOKULAKRISHNAN.S	6 MONTHS
42	TEACHNOOK	GUHAN.K	6 MONTHS
43	FABC	HAANIYA.G	6 MONTHS

44	TEACHNOOK	HARISH. V	6 MONTHS
45	ACADEMOR(OFF CAMPUS)	HEMAVATHI.U	6 MONTHS
46	ACADEMOR(OFF CAMPUS)	HILAIREA CATHARENA.A	6 MONTHS
47	TEACHNOOK	ILAMATHI. T	6 MONTHS
48	LI CREATIVE	INDHUJA.M	6 MONTHS
49	TEACHNOOK	IRFAN AHAMED.A	6 MONTHS
50	TEACHNOOK	JAGANATH.D	6 MONTHS
51	CTS	JANANI. J	6 MONTHS
52	TEACHNOOK	KALAIARASAN.N	6 MONTHS
53	CTS	KAMALAYAZHINI.B	6 MONTHS
54	LI CREATIVE(OFF CAMPUS)	KAMALISRI.M	6 MONTHS
55	CTS	KARTHIK. R	6 MONTHS
56	TEACHNOOK	KEERTHIKA.T	6 MONTHS
57	TEACHNOOK	KESHAV RAM.M	6 MONTHS
58	TEACHNOOK	KRISHNARAJ.R	6 MONTHS
59	INTEGRA(DEVELOPMENT)	KUMANAN.L	6 MONTHS
60	TEACHNOOK	LOGANATHAN.K	6 MONTHS
61	CTS	LOGAPRIYA.R	6 MONTHS
62	TEACHNOOK	LOGESH.V	6 MONTHS

63	CTS	LOGULAKSHMI.T	6 MONTHS
64	TEACHNOOK	MAGESH ANANTH. B	6 MONTHS
65	CTS	MAHAVARUN.M	6 MONTHS
66	TEACHNOOK	MANOJ KUMAR .M	6 MONTHS
67	TEACHNOOK	MOHAMAD IDHREES.M.F	6 MONTHS
68	TEACHNOOK	MOHAMAD YASIF.F	6 MONTHS
69	INTEGRA(DEVELOPMENT)	MOHAMED THABRAZ.S	6 MONTHS
70	TEACHNOOK	MOHAMMED SHANAWAZ KHAN.A	6 MONTHS
71	TEACHNOOK	MOHANRAJ.D	6 MONTHS
72	TEACHNOOK	MOTHEESWAR.S	6 MONTHS
73	TEACHNOOK	MURALI.K	6 MONTHS
74	TEACHNOOK	MURALIDHARAN.T	6 MONTHS
75	SOCIETY GENERAL	NANDITHA.R	6 MONTHS
76	GIGAMON	NARENDIRA.T	6 MONTHS
77	CTS	PADMA SRI. M	6 MONTHS
78	ACADEMOR(OFF CAMPUS)	PARTHASARATHY. M	6 MONTHS
79	CTS	PAVITHRA.R	6 MONTHS
80	CTS	PAVITHRA. S	6 MONTHS
81	TEACHNOOK	PRABHAKARRAJ .A.T	6 MONTHS
82	SOCIETY GENERAL	PRIYADHARSHCINI.L	6 MONTHS

83	TEACHNOOK	PRIYADHARSINI.A	6 MONTHS
84	TEACHNOOK	RAJA RAJESHWARI. S	6 MONTHS
85	TEACHNOOK	RAKESH RAO.P.R	6 MONTHS
86	CTS PRO	RAMYA.K	6 MONTHS
87	INTEGRA(DEVELOPMENT)	RAMYA.R	6 MONTHS
88	SIRIUS (OFF CAMPUS)	RANJANI.R	6 MONTHS
89	CTS	RICHARD.L	6 MONTHS
90	ACADEMOR(OFF CAMPUS)	RISHIKARAN.K	6 MONTHS
91	EMBEDUR	SAIPRASAD.J	6 MONTHS
92	INTEGRA(DEVELOPMENT)	SANKAR GANESH.G	6 MONTHS
93	INTEGRA(DEVELOPMENT)	SANKARI.D	6 MONTHS
94	CTS	SARVESH.S	6 MONTHS
95	CTS	SASIKUMAR.R	6 MONTHS
96	FABC	SHALINI.K	6 MONTHS
97	CTS	SHAMREEN SALI.M	6 MONTHS
98	TEACHNOOK	SHANMUGA SUNDARAM.V	6 MONTHS
99	TEACHNOOK	SHARMILA LAKSHMI.S	6 MONTHS
100	ACADEMOR(OFF CAMPUS)	SHIVANI.P	6 MONTHS

101	ACADEMOR(OFF CAMPUS)	SHUBEEKSHA RAJA SHRI.B	6 MONTHS
102	TEACHNOOK	SIRAJUDEEN.A	6 MONTHS
103	ACADEMOR(OFF CAMPUS)	SIVAPRASAD.R	6 MONTHS
104	CSS CORP	SMIRITHI.R	6 MONTHS
105	CTS	SOWMI.S	6 MONTHS
106	CTS	SUBIKSHA.G	6 MONTHS
107	SOCIETY GENERAL	SWAPNA.G	6 MONTHS
108	CTS	SWETHA.R	6 MONTHS
109	TEACHNOOK	TELEGANESH. K	6 MONTHS
110	ACADEMOR(OFF CAMPUS)	THANISH RAHMAN.A.R	6 MONTHS
111	TEACHNOOK	UMAPATHI.M	6 MONTHS
112	FORD	VARSHAA.B	6 MONTHS
113	INTEGRA(DEVELOPMENT)	VENODHINI.S	6 MONTHS
114	ACADEMOR(OFF CAMPUS)	VIBIN VENKATESH.S	6 MONTHS
115	CTS	VIGNESH VAITHIALINGAM.N	6 MONTHS
116	FABC	VISHALY.K	6 MONTHS
117	CTS	VISHWAJA. K	6 MONTHS
118	TEACHNOOK	YOGESHWARAN.A	6 MONTHS
119	CTS	DHARSHINI. B	6 MONTHS
120	CTS	EDWIN RICHARD.J	6 MONTHS
121	LI CREATIVE (OFF CAMPUS)	HARSHIKA.D	6 MONTHS
122	CTS	RAGHAVI.S	6 MONTHS
123	CTS	RAJADURAI. S.A.	6 MONTHS
124	CTS ELEVATE	SHAVEETHA .R	6 MONTHS

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123	CTS	RAJADURAI. S.A.	6 MONTHS
124	CTS ELEVATE	SHAVEETHA .R	6 MONTHS

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