# JANSONS

## INSTITUTE OF TECHNOLOGY

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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JANUARY 2024

# *TECHNOPHILE 10*

# VISION OF THE INSTITUTION

To germinate and develop a unique brand of engineers who will be change agents in the field of technology.

# MISSION OF THE INSTITUTION

To impart quality value-based Technical Education. To prepare and strengthen young minds for their future prospects. To inculcate ethical standards and passion towards sustainable development.

# DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

## ABOUT

The Department of Computer Science and Engineering was established in 2009 with a yearly intake of 90 students. The Department has a comprehensive curriculum on topics related to all aspects of Computer Hardware and Software with an emphasis on practical learning.

The course is affiliated with Anna University, Chennai, having up-to-date courses on embryonic topics to equip our students with the latest developments. The Department provides an outstanding education and research environment complemented by excellence in teaching. The Department has state of the art infrastructure and computing equipment supported by high-speed Ethernet and Internet facilities.

Our faculty members aim to deliver top class education blending their rich research experience with classroom teaching. The Department takes special efforts to reduce the gap between Industry and Institute by inviting prominent persons from industries to interact with students. Computer Science and Engineering is a vital branch for all Engineering and Technology area.

It gives lot of exposure to diversified Engineering areas like telecommunication, satellite image analysis, weather forecasting, software development, Business Process Outsourcing and medical fields in enhancing the human lifestyle. Hence the employment potential is very high for Computer Science Engineers.

# VISION OF THE DEPARTMENT

To produce qualified, self-driven professionals in the field of computer science and engineering.

# MISSION OF THE DEPARTMENT

To impart quality education towards producing budding professionals in the field of computer science and engineering. To sculpt young minds and empower them in pursuit of meeting their future career demands. To inculcate moral values to become socially responsible, ethical, and competitive professionals towards viable growth.

## Program Educational Objectives (PEOs)

- Graduates will be computing professionals who perform and lead design, development, and project operations in the software and information technology industries.
- Graduates will pursue higher education, be involved in research, or become entrepreneurs.
- Graduates will be ethically, socially, and environmentally responsible and contribute to society and the country.

## Program Outcomes POs:

Engineering Graduates will be able to:

A. Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.

B. 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.

C. 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.

D. 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.

E. 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.

F. 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.

G. 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.

H. Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

I. Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

J. 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.

K. 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.

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

## Program Specific Outcomes (PSOs)

- Analyse, design, and develop computing solutions by applying foundational concepts of computer science and engineering.
- Apply software engineering principles and practices for developing quality software for scientific and business applications.
- Adapt to emerging information and communication technologies to innovate ideas and solutions to existing or novel problems

## Faculty Members:

| S.NO | FACULTY NAME | DESIGNATION |
|---|---|---|
| 1 | Dr. Velayudham A | Professor |
| 2 | Shamila E S | Professor |
| 3 | Usha S | Assoc.Professor |
| 4 | Praveena A | Asst.Professor |
| 5 | Jansirani S | Asst.Professor |
| 6 | Krishna Priya M S | Asst.Professor |
| 7 | Pavithra M | Asst.Professor |
| 8 | Ashwini R | Asst.Professor |
| 9 | Savitha R | Asst.Professor |
| 10 | Saravanakumar M | Asst.Professor |
| 11 | Srihari Shankar S M | Asst.Professor |
| 12 | Prasathkumar V | Asst.Professor |
| 13 | Vishnupriya A V | Asst.Professor |
| 14 | Maragatham N | Asst.Professor |

# Faculty Achievement's:

AISSMS INSTITUTE OF INFORMATION TECHNOLOGY (IOIT)

IEEE CTSoc CONSUMER TECHNOLOGY SOCIETY

**CERTIFICATE**

**OF PARTICIPATION**

This certificate is presented to

**Prasathkumar V**

for successful completion of one week Faculty Development Program on " Data Analytics using Power BI " during the period 8-01-2024 to 12-01-2024 organized by Department of Artificial Intelligence & Data Science, AISSMS Institute of Information Technology, Pune in association with IEEE Consumer Technology Society.

Dr. S. A. Panwar, Co-ordinator | Dr. M. V. Shelke, Co-ordinator | Dr. S. V. Limkar, HOD, AI&DS Dept. | Dr. P. B. Mane, Principal, AISSMS IOIT

Certificate No. **2023-24-PDPOM-254/11739**

**National Institute of Technical Teachers Training and Research, Chennai**

(Ministry of Education, Government of India)

**Certificate of Participation**



This is to certify that

**SAVITHA R** — **221225774**

**Assistant Professor in Computer Science and Engineering**
**Jansons Institute of Technology**
**Coimbatore , Tamil Nadu**

Participated in the Professional Development Programme on

**' Internet of Things '**

conducted by this Institute from **12/02/2024** to **16/02/2024** **(Notional Learning Hrs: 20)**

**through Online Mode**

duly sponsored by the organisation / ~~self~~

16/02/2024

**Course Coordinator** | **Director**

# Student Achievement's:


JANSONS INSTITUTE OF TECHNOLOGY
(AUTONOMOUS)
(As per clause 7.5 of UGC Regulations, 2023)
Approved by AICTE | Affiliated to Anna University
Accredited by NAAC 'A' Grade - An ISO 9001:2015 Institution
Congratulations!...
Mr. A.Hari Prasanth
II CSE
Ms. T.Kalpana Devi
II CSE
Mr. B.Mahilnan
II CSE
participated in paper presentation event and
secured "Second" Prize with cash prize
at National Symposium " TECHNOVANZA-24"

Clubs of CSE:

1)Computer Society of India

Computer Society Of India (CSI) was formed in 1965, since then CSI has been instrumental in guiding the Indian IT industry down the right path. Today, the CSI has 72 chapters all over India, 511 student branches, and more than 100000 members (IT industry leaders, brilliant scientists and dedicated academicians). Jansons Institute of Technology has started CSI – Student Branch in the academic year 2020-2021. By joining this student chapter, students can gain access to CSI knowledge portal through Login-id and password. They can gain technology updates through Conferences, Seminars, Tutorials & workshop at discounted rates. It can act as a forum for activities like Paper Presentations, Quiz, Competitions and Exhibitions. They can have the Ability to connect with Distinguished speakers on different technology areas and dedicated Academicians through Networking.

## Vision:

To provide a strong foundation among the students in the field of concrete and construction technology.

## Mission:

To motivate the students to attend the ICI organizing seminars, workshops and conferences to gain the recent updates of concrete technology. To train the students to Participate ICI conducted competitions like ICI FEST, etc. To educate the students to access the ICI E- learning portal to get the updated latest technology & practices in Concrete Industry.

## 2)Iterator's Club

The Iterators programming Club is a platform where the students will be able to develop and learn various skills like, Computer coding. The club is focusing on conducting events like program coding, debugging , Hackathon and workshop for the students to improve their coding and analytical, problem solving skills and techniques. This club focuses on establishing a coding background culture to involve the students to build the logical and analytical skills to support computer programming as a plan to fit for the Software development industry needs.

Objective:

Enhance Programming and Application Development Skill

Outcome:

- Gain in-depth knowledge in coding
- Develop logical thinking and problem solving skills
- Effective and cooperative team work
- Use open source platforms

## 3)AndriOS club

Android is a mobile operating system (OS) currently developed by Google, based on the Linux kernel and designed primarily for touchscreen mobile devices such as smartphones and tablets. Android's user interface is mainly based on direct manipulation, using touch gestures that loosely correspond to real-world actions, such as swiping, tapping and pinching, to manipulate on-screen objects, along with a virtual keyboard for text input. In addition to touchscreen devices, Google has further developed Android TV for televisions, Android Auto for cars and Android Wear for wrist watches, each with a specialized user interface.

JIT AndriOS club has been initiated for the students who are dynamic and ambitious and who wish to take the field of Android technology to a higher pedestal. The Club AndriOS helps members to Learn & Innovate their own product.

Motto:

Deliver an ideal app that will help community in achieving the targeted objective

Vision:

To look out on the automated fields of daily life and have always tried to automate them by integrating with newer and innovative ideas.

Mission:

To educate the members of AndriOS in developing applications using Android and iOS technology with development tools, and to give them a strong base in Application development.

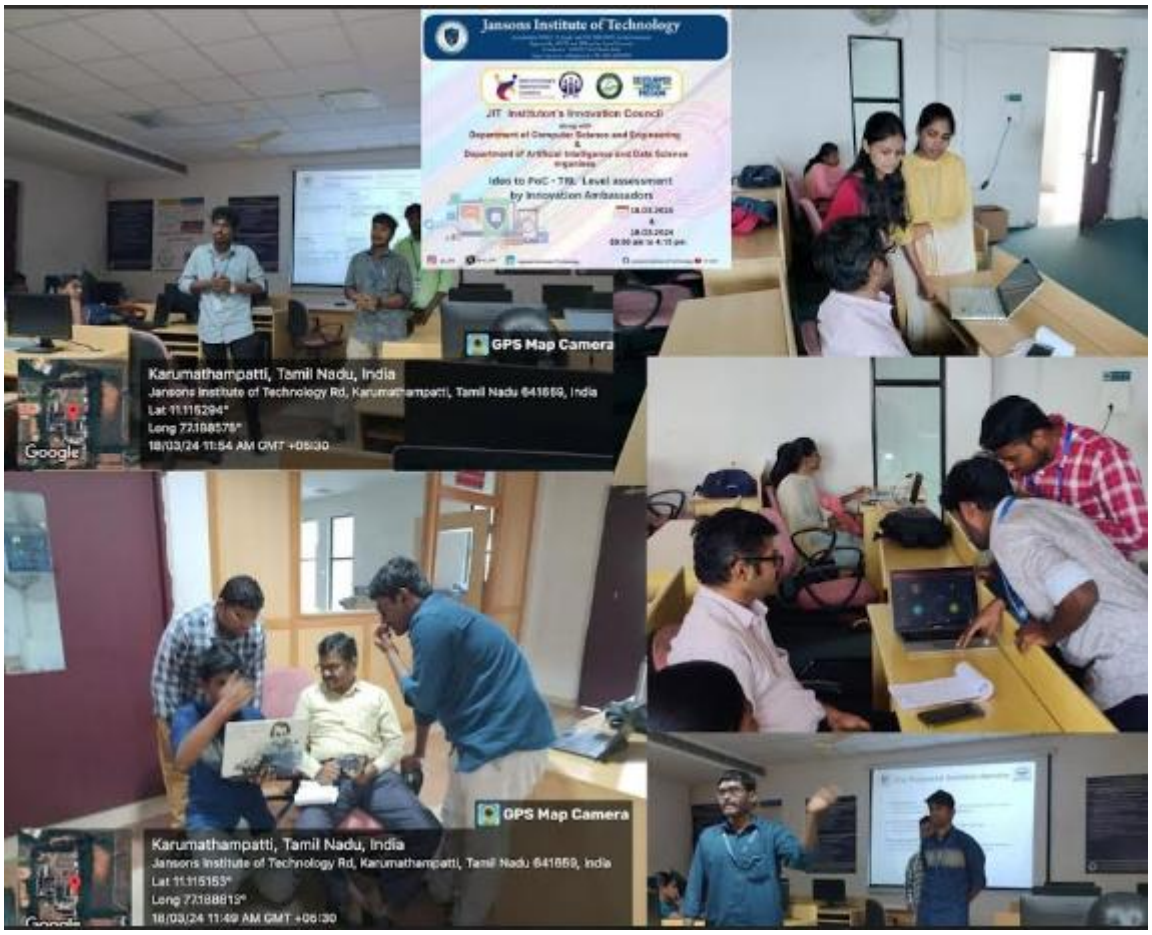
# Club Events:


Skill Development Bootcamp on "Design Thinking Approach for Innovation & Product Development AI sector" Session by Founder and Managing Director of Clover Technologies NMK Theyzeswarr.

# IIC organizes "Workshop on Business Model Canvas" on 02nd & 03rd May 2024

# Department Events:

JIT IIC along with Department of CSE and AI&DS hosted the event Idea to PoC - TRL level assessment by Innovation ambassadors on 18.3.2024 and 19.3.2024



Publications:

I. Velayudham A, et al. (2024), “Towards Perfecting Road Extraction: The Fusion of Dilated Convolution-Based Layers and Vision Transformer”, Journal of Spatial Science, February 2024

II. Velayudham A, et al. (2024), Chinthalapalli Mythili, Dhanala Susmitha, Easha Sri G.S, Kesam Achyutha,”Deep Learning Approach for Dengue Fever Prediction”,Journal of Emerging Technologies and Innovative Research, ISSN:2349-5162, Volume 11, Issue 4, April 2024.

III. Velayudham A, et al. (2024), “Computer Vision Applications for The Visually Impaired”, International Journal of Research and Analytical Reviews, ISSN 2349-5138, Volume 11, Issue 2, April 2024

IV. Pavithra M, et al. (2024), “Prediction of Retinal Diseases using Image Processing Techniques”, Journal of Emerging Technologies and Innovative Research, ISSN-2349-5162, Volume 11, Issue 4, April 2024

V. Pavithra M, et al. (2024), “Accurate Prediction of Sepsis in ICU Patients using Machine Learning”, International Journal of Research and Analytical

Reviews, E-ISSN 2348-1269, P- ISSN 2349-5138, Volume 11, Issue 2, April 2024

VI. Ashwini R, et al. (2024), “AI-Based System Application Control for Aged and Paralyzed Patients”, International Journal of Research and Analytical Reviews, E-ISSN 2348-1269, PISSN 2349-5138, Volume 11, Issue 2, April 2024

VII. Ashwini R, et al. (2024), “Gesture Language Translator for Dumb and Deaf People-Enable Talk Gloves”, International Journal of Research and Analytical Reviews, E-ISSN 2348-1269, P- ISSN 2349-5138, Volume 11, Issue 2, April 2024

VIII. Ashwini R, et al. (2024), “Skin Cancer Detection using Machine Learning”, Journal of Emerging Technologies and Innovative Research, ISSN-2349-5162, Volume 11, Issue 4, April 2024

IX. Praveena A, et al. (2024), “Design and Implementation of Battery Management System for Electric Vehicles”, Journal of Emerging Technologies and Innovative Research, ISSN-2349-5162, Volume 11, Issue 4, April 2024

X. Praveena A, et al. (2024), “Drug Rating Generation and Recommendation from Sentiment Analysis of Drug Reviews using Machine Learning”, Journal of

Emerging Technologies and Innovative Research, ISSN-2349-5162, Volume 11, Issue 4, April 2024

XI. Prasath Kumar V, et al. (2024), “Hybrid Model Intrusion Detection using A Machine Learning”, International Journal of Research and Analytical Reviews, E-ISSN 2348-1269, P- ISSN 2349-5138, Volume 11, Issue 2, April 2024

XII. Savitha R, et al. (2024), “Advanced Insurance Classification Based on Accident Vehicle Images using Deep Learning” International Journal of Research and Analytical Reviews, ISSN 2349-5138, Volume 11, Issue 2,April 2024

XIII. Shamila E S, et al. (2024), “Automatic Home Controlling System for Paralyzed Patients using Eye Movement”, International Journal of Creative Research Thoughts, ISSN: 2320-2882, Volume 12, Issue 5 May 2024

XIV. Shamila E S, et al. (2024), “Smart Vehicle Automation on Inculcating Proximity Sensors” Journal of Emerging Technologies and Innovative Research, ISSN-2349-5162, Volume 11, Issue 5, April 2024

XV. Shamila E S, et al. (2024), “Two-Way Sign Language Detection for Physically Challenged”,International

Journal of Research and Analytical Reviews, ISSN 2349-5138, Volume 11, Issue 2, April 2024

XVI. Praveena A, et al. (2024), “Health Analysis Mentor”, Journal of Emerging Technologies and Innovative Research, ISSN-2349-5162, Volume 11, Issue 5, May 2024

XVII. Saravanakumar M, et al. (2024), “Website Vulnerability Scanning”, Journal of Emerging Technologies and Innovative Research, ISSN-2349-5162, Volume 11, Issue 5, May 2024

XVIII. Saravanakumar M, et al. (2024), “Hospital Management System with Chatbot”, Journal of Emerging Technologies and Innovative Research, ISSN-2349-5162, Volume 11, Issue 5, May 2024

XIX. Shrihari Shankar S M, et al. (2024), “Data Security System using Hybrid Cryptography and Steganography”, Journal of Emerging Technologies and Innovative Research, ISSN-2349-5162, Volume 10, Issue 5, May 2024.

XX. Prasath Kumar V, et al. (2024), “Predictive Analytics in Lung Disease Harnessing AI for Early Detection and Prevention”, International Journal of Research and Analytical Reviews, ISSN 2349-5138, Volume 11, Issue 2, May 2024

*Coding is today's language of creativity. All our children deserve a chance to become creators instead of consumers of technology."*

*– Maria Klawe*