JANSONS

INSTITUTE OF TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VOLUME : 05

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JANUARY 2022

TECHNOPHILE 07

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	Velayudham A	Professor
2	Shamila E S	Professor
3	Praveena A	Asst.Professor
4	Jansirani S	Asst.Professor
5	Vivek M	Asst.Professor
6	Krishna Priya M S	Asst.Professor
7	Kiruba Priyadharshini V	Asst.Professor
8	Pavithra M	Asst.Professor
9	Ashwini R	Asst.Professor
10	Rathika A	Asst.Professor
11	Savitha R	Asst.Professor
12	Gowsikraja P	Asst.Professor
13	Rubhashree M	Asst.Professor
14	Sakthi P	Asst.Professor
15	Vijipriya G	Asst.Professor
16	Savitha N	Asst.Professor
17	Anitha Mary M	Asst.Professor
18	Krishna Priya G	Asst.Professor
19	Suganya R	Asst.Professor

20	Moorthi K	Asst.Professor
21	Sharrath M	Asst.Professor
22	Sikkandhar Batcha J	Asst.Professor
23	Sasikala T	Asst.Professor
24	Roopa C	Asst.Professor

Student Achievement's:

Student Name	Department & Year	Achievement
Shreeakalya M	CSE & IV	Best Student "Academic, Extra-Curricular, and involvement in ISTE Chapter activities" at "ISTE".

Conference, Symposium, Workshops, Seminar, Competitions, Guest Lectures:

Title	Category	Resource Person	Date
Building a Successful Career	Seminar	Ms Sushma S Engineer Graduate Trainee (Developer – Testing Automation) Wipro Technologies, Chennai	15-06-2022
Artificial Intelligence on Theory of Mind	Webinar	Ms. B. Suchithra Assistant Professor (Sel.Gr)	08-06-2022
Optimization Techniques in Compiler	Webinar	Dr. K.Geetha Professor	04-06-2022
An Innovative Approach to Develop Mobile Application Using MIT App inventor	Webinar	Department of Computer Science and Engineering in association with Andrios Club	26.05.2022
Distributed Shared Memory	Webinar	Dr.A.Pandiaraj Assistant Professor	20.05.2022
Process management in operating systems	Webinar	Dr N.V.Shibu Assistant Professor(Sel. Gr)	14-05-2022
Recent Trends in Software Testing	Webinar	Dr.C.Suresh Assistant Professor	14-05-2022

Reengineering Process Model	Webinar	Dr.R.N.Devendra Kumar Assistant Professor (Sr. Gr)	11-05-2022
Bridging Gap between Industry and Academics	Alumna Interaction	Ms Sree Vaishnavi G Wipro Technologies	10-05-2022
IDEATHON – Innovative App development	seminar	Andrios Club of the Department of Computer Science and Engineering	27-04-2022
Algorithms for E-Commerce Analytics	Webinar	Dr. E.S. Shameem Sulthana Associate Professor	21-04-2022
National Technical Symposium – CAMCEE 2022	Symposium	Association with JIT-IEEE Student Branch, JIT-IIC, ISTE Student Chapter and SAE India	12-04-2022
Business Analytics in Mobile Computing	Webinar	Ms Priyanka Rajendran Senior Business Analyst	31-03-2022

Innovative Android App Development	Workshop	M.Sharrath, AP/CSE.	04-03-2022
Cognizant Engineering	Alumnus Interaction	Mr R Ramanarayanan Research Executive I Draup Inc, Coimbatore	26-02-2022

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.

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:

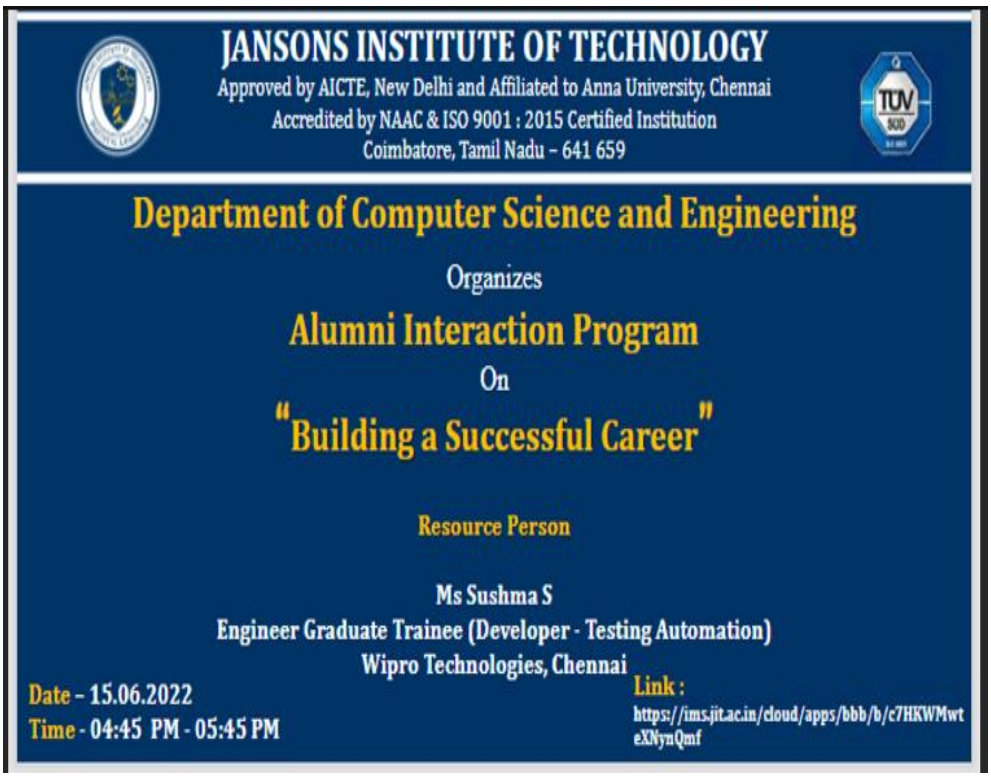
To look out on the automated fields of daily life and have always tried to automate them by integrating with newer and innovative ideas.

Mission:

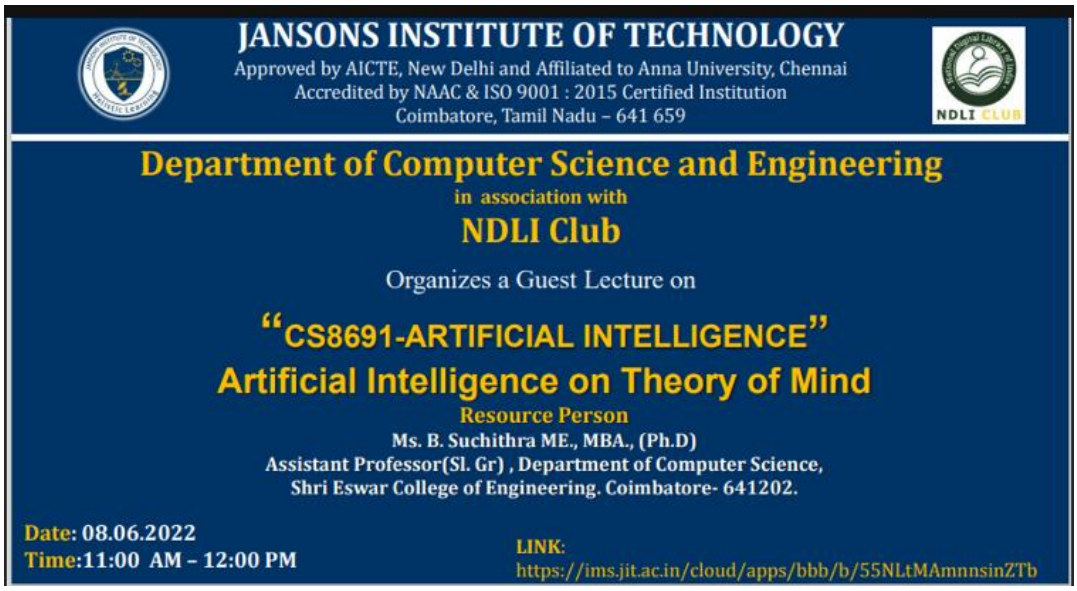
To educate the members of AndriOS in developing applications using Android and iOS technology with development tools, and to give them a strong base in Application development.

Department Events:

Seminar on “Building a Successful Career”

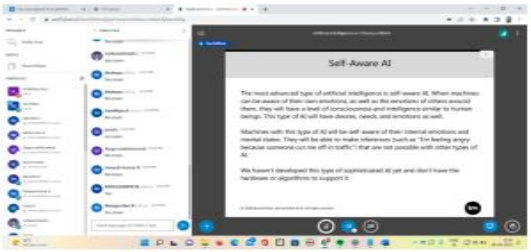


Webinar on “Artificial Intelligence on Theory of Mind”



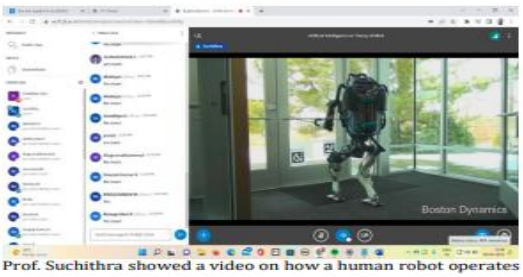
Event Photographs

Prof. B. Suchithra explained the 4 types of AI



Prof. B. Suchithra explained Self – Aware AI

Students are listening to the lecture



Prof. Suchithra showed a video on how a human robot operates

Webinar on "An Innovative Approach to Develop Mobile Application Using MIT App inventor"

Event Photographs

Opening Note of Event – Abitha Sree K

Chakali neela vardhan explaining the purpose of App Inventor

Live Demo of App Inventor

Explaining about block-based coding

Alumna Interaction on “Bridging Gap between Industry and Academics”

JANSONS INSTITUTE OF TECHNOLOGY
Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai
Accredited by NAAC & ISO 9001 : 2015 Certified Institution
Coimbatore, Tamil Nadu – 641 659

Department of Computer Science and Engineering

Organizes

Alumni Interaction Program

On

“Bridging Gap between Industry and Academics”

Resource Person

Ms Sree Vaishnavi G
Wipro Technologies
Elcot SEZ, Tidel Park, Coimbatore - 641006

Date – 10.05.2022
Time - 11:30 AM - 12:30 PM

Venue: Lecture Hall 10

Event Photographs

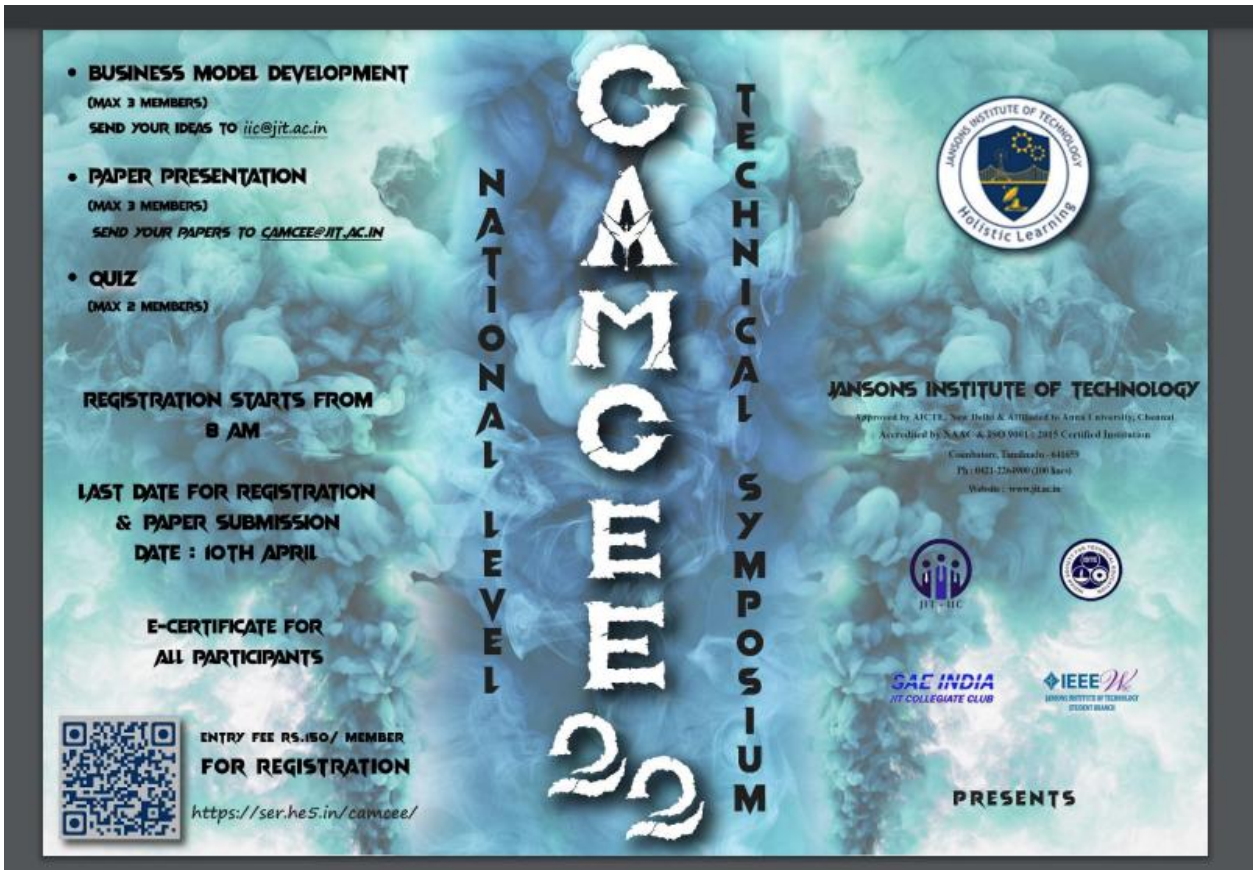
Impart soft skills training

Combine didactical approaches and existing concepts with emerging topics

Smooth communication and coordination between academia and industry

Industry expert impart knowledge in the classroom

National Technical Symposium – CAMCEE 2022



All the Engineering Departments of Jansons Institute of Technology organized a National level Technical Symposium in the name of CAMCEE22 on 12th April 2022 in association with JIT-IEEE Student Branch, JIT-IIC, ISTE Student Chapter and SAE India.

The event was promoted by the student coordinators posted the brochures of CAMCEE22 to various Engineering colleges across the country and also via various social media like websites, Whatsapp, Instagram, Twitter etc. The participants were provided with a facility of online registration to the event. Spot registration is also entertained from 8 AM to 9:15 AM. As a result of the same, 119 students from 20 different institutions across the country participated in the event.

Publications:

I. A.Velayudham et al.(2022), “Smart Planetary Energy Managing System buit on climate facts using IoT”, International Journal of Creative Research Thoughts, vol. no. 10, pp. 365-371

II. A.Velayudham et al.(2022), “Smart Bearable Agriculture Solution using IoT and AI towards effective farming”, International Journal of Research and Analytical Reviews, vol. no. 9, pp. 652-658

III. A.Velayudham et al.(2022), “Smart Meter and Instinctive Electricity Monitoring Organization”, Journal of Emerging Technologies and Innovative Research, vol. no. 9, issue no. 5, pp. 122-128.

IV. M.Pavithra et al.(2022), “IoT Based Underground Drainage Monitoring System”, International Journal of Creative Research Thoughts, vol. no. 10, issue no. 5, pp. 283-291.

V. M.Pavithra et al.(2022), “Retinal Diseases Prediction in Image Processing”, International Journal of Research and Analytical Reviews, vol. no. 9, issue no. 2, pp. 118-129.

VI. M.Pavithra et al.(2022), “IoT application in smart and secure shopping system using RFID”, Journal of Emerging Technologies and Innovative Research, vol. no. 9, issue no. 5, pp. 129-134.

VII. E.S.Shamila et al.(2022), “Automated Public Settings for Physically Disabled Persons”, International Journal of

Creative Research Thoughts, vol. no. 10, issue no. 6, pp. 266-270.

VIII. E.S.Shamila et al.(2022), 'A Contemporary Adaptive Neuro-Fuzzy Inference Fire Warning System for Physically Challenged Persons Using IoT", International Journal of Research and Analytical Reviews, vol. no. 9, issue no. 2, pp. 979-983.

IX. E.S.Shamila et al.(2022), "A Machine Learning Based Health Assistant System for Disabled", International Journal of Research and Analytical Reviews, vol. no. 9, issue no. 2, pp. 988-991.

X. E.S.Shamila et al.(2022), "A Smart Graphic Eye for Visually Impaired with Text-To-Speech Converter", Journal of Emerging Technologies and Innovative Research, vol. no. 9, issue no. 6, pp. 23-28.

XI. R.Ashwini et al.(2022), "Detection of Phishing Websites using an Efficient Deep Learning Framework", International Journal of Creative Research Thoughts, vol. no. 10, issue no. 6, pp. 520-525.

XII. R.Savitha et al.(2022), "Vehicle Anti-Theft System Using PCA Algorithm", International Journal of Creative Research Thoughts, vol. no. 10, issue no. 6, pp. 506-512.

XIII. R.Savitha et al.(2022), "IoT based Flood Detection And Alerting System", International Journal of Creative Research Thoughts, vol. no. 10, issue no. 6, pp. 393-399.

XIV. M.Rubhashree et al.(2022), “Design of Modified AES Algorithm for End-to-End Data Security”, International Journal of Research and Analytical Reviews, vol. no. 9, issue no. 2, pp. 82-85.

XV. M.Sharrath et al.(2022), “Stock price prediction using long short-term memory”, International Journal of Creative Research Thoughts, vol. no. 10, issue no. 6, pp. 428-431.

XVI. M.Sharrath et al.(2022), “Patient health monitoring system using IoT”, International Journal of Creative Research Thoughts, vol. no. 10, issue no. 6, pp. 416-422.

XVII. A.Rathika et al.(2022), “Cloud based medical Health Care System using Internet of Medical Things”, International Journal of Research and Analytical Reviews, vol. no. 9, issue no. 2, pp. 915-920.

XVIII. A.Rathika et al.(2022), “Image Encryption using combined chaos and memory cellular automata”, International Journal of Creative Research Thoughts, vol. no. 10, issue no. 6, pp. 416-422.

“Two things you should know about me; The first is that I am deeply suspicious of people in general. It is my nature to expect the worst of them. And the second is that I am unexpectedly good with computers.”

- Veronica Roth