



JANSONS
INSTITUTE OF TECHNOLOGY

DEPARTMENT OF
COMPUTER SCIENCE AND
ENGINEERING

VOLUME : 04

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TECHNOPHILE 05



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	Vijipriya G	Asst.Professor
12	Savitha N	Asst.Professor
13	Anitha Mary M	Asst.Professor
14	Krishna Priya G	Asst.Professor
15	Kiruthika M	Asst.Professor
16	Mangaleswaran M	Asst.Professor
17	Suganya R	Asst.Professor
18	Moorthi K	Asst.Professor
19	Sharrath M	Asst.Professor



20	Sikkandhar Batcha J	Asst.Professor
21	Sasikala T	Asst.Professor



Faculty Achievement's:

S. No.	Name	Title of Appreciation	Awarded / Recognized By	Date
1	Ms.M.Pavithra	Mahatma Gandhiji Peace Gold Medal Award 2021	Gloabl Economic Progress and Research Association	10.04.2021



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

Title	Category	Resource person	Date
“Recent Trends in Intelligent App Development”	Alumnus Interaction	Mr.Sarath Krishnaswamy, Team Lead, Castle Labs, Coimbatore.	17-04-2021
“How to make every piece of content user friendly?”	Alumnus Interaction	Ms.Samyuktha Gopal, Content Writer, Vserve Ebusiness, Coimbatore.	15-05-2021
“Self Preparation towards getting Placed & Choosing the Right Career”	Alumna Interaction	Ms.N.Dhanyaa, QA Engineer, Impiger Technologies Coimbatore.	03-04-2021
“How to Land your First Job?”	Alumna Interaction	Ms.S.Gayathri, System Analyst, Lantrasoft Private Limited, Coimbatore.	20-03-2021



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.



Club Events:

Jansons Institute of Technology
Approved by AICTE & Affiliated to Anna University, Chennai.
Karumathampatti, Coimbatore- 641659

THE ITERATORS
(Programming Club)
organizes

Webinar
on

**'Real Time Use Cases:
A Gateway into the World of
Programming'**

Scan to register:

Registration Link:
<https://ims.jit.ac.in/form/index.php/734177?lang=en>
Event Link:
<https://ims.jit.ac.in/meetings/9dxC5BejFQwBFAoo>

Date :15.3.2021
Time :3pm to 4pm

Webinar on 'Real Time Use Cases: A Gateway into the world of Programming'

The Andrios Club of the Department of Computer Science and Engineering organized a Webinar on “Introduction to IOS” on 27.04.2021. The session was taken forward through online.

The Knowledge sharing Program was designed for students of all departments to enhance their knowledge and developing a basic Android and iOS application. Following that, a more comprehensive session about mobile application development was explained to the members of the club by the club member Mr. Santhosh. T of Third Year CSE.



Events Organized by Association of CSE:

“Recent Trends in Intelligent App Development”

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Coimbatore, Tamilnadu-641659 

JIT Alumni Association of CSE
organizes
Alumni Interaction
on
“RECENT TRENDS IN INTELLIGENT APP DEVELOPMENT”



Alumni : Mr. Sarath Krishnaswamy. J,
Team Lead,
Castle Labs

Venue: Online Webinar
Date: 17-04-2021
Time: 11.00 a.m. - 12.00 p.m.



Webinar link: <https://ims.jit.ac.in/meetings/QqJZNRd5tqKt3w54>


“How to make every piece of content user friendly?”

 **JANSONS INSTITUTE OF TECHNOLOGY**
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Coimbatore, Tamilnadu-641659 

JIT Alumni Association of CSE
organizes
Alumni Interaction
on
“HOW TO MAKE EVERY PIECE OF CONTENT USER FRIENDLY”

Alumna
Ms. Samyuktha Gopal
(Batch: 2014-2018)
Content Writer,
Vserve Ebusiness,
Coimbatore.

Date : 15.05.2021
Time : 11.00 am to 12.00 noon **LINK:** <https://ims.jit.ac.in/meetings/bQsydPyrdCbEmwBQ>





JANSONS INSTITUTE OF TECHNOLOGY

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Coimbatore, Tamilnadu-641659



JIT Alumni Association of CSE
organizes

Alumni Interaction

on

**“SELF PREPARATION TOWARDS GETTING
PLACED & CHOOSING THE RIGHT CAREER”**

Alumni: Ms.Dhanyaa.N,
QA Engineer,
Impiger Technologies

Venue: Online Webinar

Date: 03-04-2021

Time: 11.00 a.m. - 12.00 p.m.

Webinar link: <https://ims.jit.ac.in/meetings/wwsynXBYfZXqegYT>



**“Self Preparation towards getting Placed &
Choosing the Right Career”**



JANSONS INSTITUTE OF TECHNOLOGY

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Coimbatore, Tamilnadu-641659



JIT Alumni Association of CSE

Organizes

A Webinar on

“How to land your first job?”

VENUE : ONLINE

WCF URL: <https://ims.jit.ac.in/meetings/Z7WaiR3b6ekKJFfi>

DATE : 20.03.2021

TIME : 11:00 AM to 12:00 PM



“How to Land your First Job?”



Publications:

- I. Rathika A et al. (2021), “Secure Banking with Dynamic Password Using Data Mining”, International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211 Volume 9, Issue 4, pg: 1409 – 1417, April - 2021.
- II. Velayudham A et al. (2021),, “Face Mask Detection Using Deep Learning”, International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211 Volume 9, Issue 4, pg : 1349 – 1357, April -2021.
- III. Pavithra M et al. (2021), “A Thief Detection System Using Smart Band”, International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211 Volume 9, Issue 4, pg : 1341 – 1348, April -2021.
- IV. Sikkandhar Batcha J et al. (2021), “Smart Energy Meter Monitoring over IoT”, International Journal for Modern Trends in Science and Technology, ISSN: 2455-3778, Volume 7, Issue 06, pg: 10 – 13, April, 2021.
- V. Pavithra M et al. (2021), “E-Health Care Using Blockchain”, International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211, Volume 9, Issue 4, pg : 983 -988, April, 2021.
- VI. Velayudham A et al. (2021), “A Cloud Based Industrial Automation using Edge Devices”, International Journal for Modern Trends in Science and Technology, ISSN: 2455-3778, Volume 07, Issue 05, pg: 56 – 59, April, 2021.



- VII. Pavithra M et al. (2021), “Prediction of Parkinson’s Diseases using SVM and Logistic Regression Algorithm”, International Journal for Modern Trends in Science and Technology, ISSN: 2455-3778, Volume 07, Issue 04, pg : 100 – 106, April, 2021.
- VIII. Praveena A et al. (2021), “Machine Learning Approach for Detection, Estimation and Compensation of Malicious Attacks in NonLinear Cyber Crime Physical Systems”, E-ISSN 2348-1269, P- ISSN 2349-5138, Volume 08, Issue 02, pg : 741 – 745, May 2021.
- IX. Krishna Priya G et al. (2021), “Instance Level Human Parts Detection Using Artificial Neural Networks and Deep Learning”, International Journal for Modern Trends in Science and Technology, ISSN : 2455-3778, Volume 04, Issue 02, pg : 211 – 217, May, 2021.
- X. Ashwini R et al. (2021), “Voice Based Email for Blind People Using Speech Recognition through Artificial Intelligence”, International Journal of All Research Education and Scientific Methods (IJARESM), ISSN: 2455-6211 Volume 9, Issue 4, pg : 1309 – 1312, April, 2021.
- XI. Praveena A et al. (2021), “Heart Disease Prediction Using Particle Swarm Optimization”, International Journal of Research and Analytical Reviews” E-ISSN 2348-1269, P-ISSN 2349-5138, Volume.8, Issue 2, pp.95-101, May 2021.
- XII. Ashwini R et al. (2021), “Information Masking using Digital Keys for Sports Auction”, International Journal for Modern



Trends in Science and Technology ISSN: 2455-3778, Volume 02, Issue 04, pg : 132 – 136, April, 2021.

- XIII. Rathika A et al. (2021), “Event Management cum Website Generator”, International Journal for Modern Trends in Science and Technology, ISSN: 2455-3778, Volume 07, Issue 04, pg : 142 – 145, April, 2021.
- XIV. Praveena.P et al. (2021), “Face Detection OpenCV Based ATM Security System”. International Journal for Modern Trends in Science and Technology, ISSN : 2455 – 3778, Volume 09, Issue 07, pp. 84- 89, April, 2021.

Conferences:

- I. Krishna Priya G, & Vijipriya G, “An Approach for Predicting Heart Failure Rate using IBM Auto AI Service,” 2021 International Conference on Computational Intelligence and Knowledge Economy (ICCIKE), Dubai, United Arab Emirates, pp. 203-207, March, 2021.

Books/Book Chapters:

- II. Mrs. M.Pavithra, published a Book titled, “Data Mining”, Jayalakshmi Publications, Madurai, 978-81-952589-4-9, April, 2021.
- III. Mrs. A. Praveena, Introduction to Artificial Intelligence, INSC international publishers, 168576052X 978-1685760526, March, 2021.



- IV. Mrs. M.Pavithra, published a Book titled, “Software testing, Jayalakshmi Publications, Madurai, 978-81-952569-2-5, April, 2021.
- V. Mrs. M.Pavithra, Computer Network and Security, Jayalakshmi Publications, Madurai, 978-81-952569-1-8, April, 2021.

Patents:

- I. Pavithra M, et al. (2021), has been granted a patent “Remote Pain Monitoring System for Knee Joint Pain Of Elderly People”, Application Number 2020101864
- II. Pavithra M, et al. (2021), has been granted a patent “Guidance Algorithm for UGV Using IOE Systems And Fog Computing”, Application Number 2020101429



“The computer was born to solve problems that did not exist before.”
- Bill Gates