JANSONS

INSTITUTE OF TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VOLUME : 03

ISSUE : 01

JANUARY 2020

TECHNOPHILE 03

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 prob

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

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

Title	Category	Resource Person	Date
One Day National Level Seminar on	Seminar	Dr. T. Gireeshkumar Associate Professor TIFAC Core in Cyber Security	08-01-2020

"Cyber Security for Web Applications and Embedded Systems			
Guest Lecture on Recent Trends in Data Analytics	Lecture	Ms. Mishmala Sushith Assistant Professor (Sl. Gr.) Department of CSE	07-02-2020
Annual Day and Farewell Day Celebrations 2020	Event	Third year CSE students coordinated the farewell event for the Final year CSE batch.	27-02-2020
Two Day National Level Webinar on	Webinar	Mr. M. Vivek (AP/CSE) & Ms. G. Krishna Priya (AP/CSE) Assistant Professors	02-06-2020 & 03-06-2020

"Puzzle Solving with Python		Department of Computer Science and Engineering	
National Level Webinar on "Data Science and its Components: Using Python and R Programming	Webinar	Dr.E.S.Shamila (ASP/CSE) & Prof.A.Praveena (AP/CSE) Department of Computer Science and Engineering	17-06-2020
National Level Webinar on "Recent Trends in Cryptography – Applications in Health	Webinar	Dr.S.Sree Vivek (IIT-M) Technical Architect (Cyber Security)	20-06-2020

Care Data Protection			
Awareness Program on "National Voters Day"	Awareness Program	Mr. Praneshwar K of I CSE Mr.Senthanvarman J of II CSE	18-02-2020

Clubs of CSE:

1)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

2)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:

Knowledge Sharing Programme

The Knowledge Sharing Programme was conducted by the Department of Computer Science and Engineering in association with Programming Club on 29th January 2020 at LH 8. The programme is to enhance their knowledge in search and pattern recommendation. The participants were introduced about search engines and the significant impact they had created during the last decade. Examples of the Amazon shopping recommendation engine and the Netflix movie recommendation engine were discussed.

An overview of recommendations and search engines using a social network approach were discussed. The session highlighted the similarities and differences between these two major emerging technologies in the social network.

Department Events:

One Day National Level Seminar on "Cyber Security for Web Applications and Embedded Systems

Jansons Institute of Technology
An ISO 9001-2015 Certified Institution,
Approved by AICTE & Affiliated to Anna University, Chennai.
Karumathampatti, Coimbatore – 641 659, Tamilnadu.

One Day National Level Seminar on Cyber Security for Web Applications and Embedded Systems
08.01.2020

CONVENER
Dr.A.Velayudham

CO-ORDINATORS
Prof.A.Rathika
Prof.M.Pavithra

Organized by
Department of Computer Science and Engineering
&
Intellectual Property Rights (IPR) Cell

Ph: 0421-2264900, Fax: 0421-2264999
www.jit.ac.in

Guest Lecture on "Recent Trends in Data Analytics"

Annual Day and Farewell Day Celebrations 2020
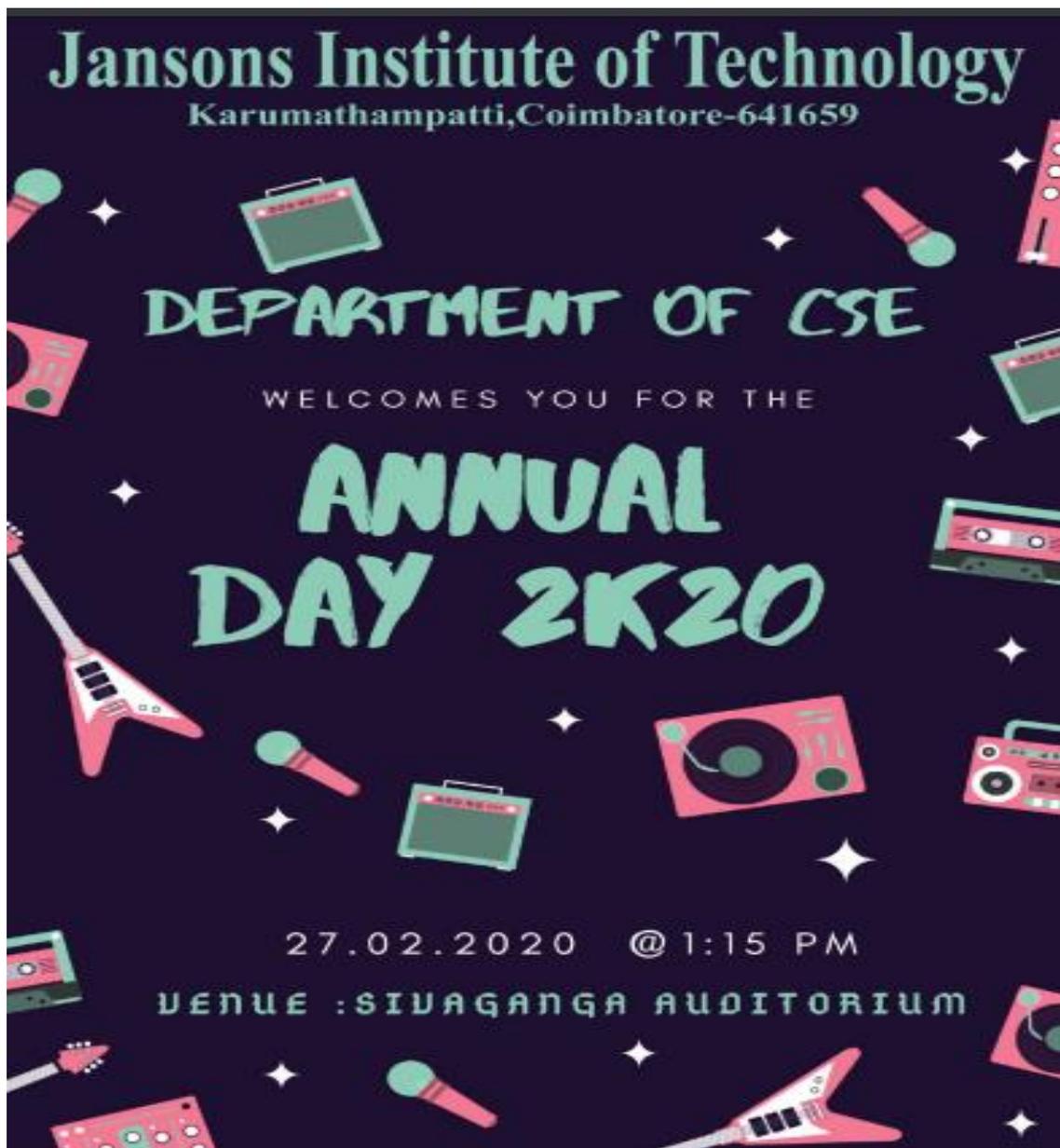
Two Day National Level Webinar on "Puzzle Solving with Python"

National Level Webinar on "Data Science and its Components: Using Python and R Programming"

Publications:

I. Moorthi et al. (2020), A survey on impact of data analytics techniques in E-Commerce, Materials Today, Proceedings, Elsevier, ISSN 2214-7853, pg : 1320 : 1327, May 2020.

II. Moorthi et al. (2020), Factors Influencing the Success of Recommendations in E-Commerce, Lecture Notes in Electrical Engineering, Electronic ISSN : 1876-1119, Print ISSN: 1876-1100, pp 843–847, March, 2020.

III. Moorthi et al. (2020), "Improving business process by predicting customer needs based on seasonal analysis: the role of big data in e-commerce", International Journal of Business Excellence, ISSN (print): 1756- 0047•ISSN (online): 1756-0055, Volume 20, Issue 04, pp.561 – 574, April, 2020.

Book-chapter:

I. K.Moorthi, published a book chapter titled, "Factors Influencing the Success of Recommendations in E-Commerce", in the book titled "Innovations in Electrical and Electronics Engineering", Lecture Notes in Electrical Engineering, Springer, ISSN : 978-981-15-2256-7,March, 2020

Technology is anything that wasn't around when you were born

- Alan Kay