



JANSONS
INSTITUTE OF TECHNOLOGY

DEPARTMENT OF
COMPUTER SCIENCE AND
ENGINEERING

VOLUME : 02

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TECHNOPHILE 02



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 |

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

| Title | Category | Resource Person | Date |
|--------------------------------|-----------------|------------------------|----------------------------|
| “Data Sciences – Industry 4.0” | Seminar | — | 27-09-2019 & 28-09-2019 |



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|---|------------------|--|--|
| <p>“Recognition with Deep Learning – an AI approach”</p> | <p>Seminar</p> | <p>Dr. Mohamed Uvaze Ahamed Ayoobkhan Assistant Professor and Head Department of Information Technology Qala University College.</p> | <p>20-08-2019</p> |
| <p>National Level Technical Symposium “TEKIBITS 19”</p> | <p>Symposium</p> | <p>Mr. A. Ram Priyadarsan Project Manager Robert Bosh Engineering and Business solutions Coimbatore</p> | <p>13-08-2019</p> |
| <p>“Predictive Data Analytics Using Python and R Programming”</p> | <p>Workshop</p> | <p>Dr. S Kannimuthu Associate Professor Department of Information Technology</p> | <p>18-07-2019 & 19-07-2019</p> |



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|--|--|---|--|
| | | <p>Karpagam College of Engineering, Mr. A. Bharanidharan Assistant Professor Department of Computer Science and Engineering Sri Ramakrishna Engineering College, Coimbatore</p> | |
|--|--|---|--|

Faculty Achievement's:

| S. No. | Name | Title of Appreciation | Awarded / Recognized By | Date |
|--------|---------------|----------------------------|--|------------|
| 1 | Ms.M.Pavithra | Young Scientist Award 2019 | VDGOOD Professional Association [1st International | 27.07.2019 |



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|---|---------------|--|---|------------|
| | | | Scientist Awards on Engineering, Science and Medicine] | |
| 2 | Ms.A.Praveena | Young Scientist Award 2019 | VDGOOD Professional Association [1st International Scientist Awards on Engineering, Science and Medicine] | 27.07.2019 |
| 3 | Ms.M.Pavithra | Teacher in Computer Science and Engineering Award 2019 | 3rd Global Outreach Research and Education Summit & Awards 2019 | 31.07.2019 |
| 4 | Ms.A.Praveena | Teacher in Computer | 3rd Global Outreach | 31.07.2019 |



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|---|---------------|---|---|-------------|
| | | Science and Engineering Award 2019 | Research and Education Summit & Awards 2019 | |
| 5 | Ms.A.Praveena | Global Teacher Award | AKS Education | 15.09.2019 |
| 6 | Ms.M.Pavithra | Best Faculty in IT Award 2019 | ESN Awards, ESN Research Group | 28.09. 2019 |
| 7 | Ms.A.Praveena | Best Faculty in IT Award 2019 | ESN Awards, ESN Research Group | 28.09.2019 |
| 8 | Ms.A.Praveena | Teacher Innovation Award 2019 | Sri Aurobindo Society | 30.09.2019 |
| 9 | Ms.A.Praveena | Global Professional – Educationalist Awards | The Society of Innovative Educationalist & Scientific Research Professional | 02.10 2019 |



Student Achievement's:

- I. Danaendraraj R was awarded with Elite + Silver Certificate for successfully completing the course The Joy of Computing Using Python in NPTEL Online Certification (Swayam).
- II. Gunasekhar C was awarded with Elite + Silver Certificate for successfully completing the course The Joy of Computing Using Python in NPTEL Online Certification (Swayam).
- III. Angel Melbha A was awarded with Elite Certificate for successfully completing the course The Joy of Computing Using Python in NPTEL Online Certification (Swayam).
- IV. Harritha S was awarded with Elite Certificate for successfully completing the course The Joy of Computing Using Python in NPTEL Online Certification (Swayam).



- V. Saibalaji S M was awarded with Elite Certificate for successfully completing the course The Joy of Computing Using Python in NPTEL Online Certification (Swayam).
- VI. Yamuna Devi S was awarded with Elite Certificate for successfully completing the course Data Base Management System in NPTEL Online Certification (Swayam).
- VII. Yamuna Devi S was awarded with Elite Certificate for successfully completing the course Python for Data Science in NPTEL Online Certification (Swayam).
- VIII. Manu Mohan M S was awarded with Elite Certificate for successfully completing the course Introduction to Internet of Things in NPTEL Online Certification (Swayam).
- IX. Nethra Shruthi R was awarded with Elite Certificate for successfully completing the course Introduction



to Internet of Things in NPTEL Online Certification (Swayam).

- X. Shalini M was awarded with Elite Certificate for successfully completing the course Introduction to Internet of Things in NPTEL Online Certification (Swayam).
- XI. Sree Vaishnavi G was awarded with Elite Certificate for successfully completing the course Introduction to Internet of Things in NPTEL Online Certification (Swayam).
- XII. Krishna Priya G was awarded with Elite Certificate for successfully completing the course Theory of Computation in NPTEL Online Certification (Swayam).
- XIII. M Monisha & S Gayathri had won Third Prize in Technical Paper Presentation Competition, IEEE Student Branch & WIE Affinity Group (STA09271) on 10.07.2019 at Jansons Institute of Technology.



- XIV. Giri Pragadeesh K & Pranav Shankar M had won Second Prize in Technical Paper Presentation Competition, IEEE Student Branch & WIE Affinity Group (STA09271) on 10.07.2019 at Jansons Institute of Technology.
- XV. A.Praveena was awarded “Senior Scientist Award” at 1st International Scientist Award on Engineering, Science and Medicine, Organized by VDGGOOD Professional Association on 27.07.2019.
- XVI. A.Praveena was awarded “Teacher in Computer Science and Engineering” at 3rd Global Outreach Research and Education Summit & Awards 2019 on 31.7.2019.
- XVII. M.Pavithra was awarded “Young Scientist Award” at 1st International Scientist Award on Engineering, Science and Medicine, Organized by VDGGOOD Professional Association on 27.07.2019.



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.



Department Events:

National Level Technical Symposium “TEKIBITS 19”

JANSONS INSTITUTE OF TECHNOLOGY
KARUMATHAMPATTI, COIMBATORE-641639

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
PRESENTS
NATIONAL LEVEL TECHNICAL SYMPOSIUM
TEKIBITS 19
13th AUG, 2019

TECHNICAL EVENTS
PAPER PRESENTATION
TECHNICAL QUIZ
CODE DEBUGGING *
MOBILE APP

NON-TECHNICAL EVENTS
MEME CREATION
CONNEXION
scan our QRcode

REGISTRATION FEE: RS. 2000/-
CASH PRIZES

DEBUGGER

MEME MAKER

QUIZ

(MAXIMUM TWO MEMBERS PER TEAM EXCEPT *)

www.jit.ac.in/tekibits2k19 | tekibits2k19@gmail.com | 9159792677

Two Days Seminar on “Data Sciences – Industry 4.0”

One

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
Two Days Seminar
On
"Data Sciences – Industry 4.0 "

Date - 27.09.2019 & 28.09.2019
Venue : Lecture Hall T2

Day



Technical Seminar “Recognition with Deep Learning – an AI Approach”

 **Jansons Institute of Technology**
Karumathampatti, Coimbatore-641659 

Department of
Computer Science and Engineering

cordially invites you to the

TECHNICAL SEMINAR
on
RECOGNITION WITH
DEEP LEARNING - an AI APPROACH

Date : 20-08-2019
Time : 9.50 am - 12.00 pm
Venue : SIVA GANGA AUDITORIUM



Two Days National Level Workshop on
Predictive Data Analytics using
Python and R Programming

Jansons Institute of Technology

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

**Two Days National Level Workshop
on
Predictive Data Analytics using
Python and R Programming**

18.07.2019 & 19.07.2019



CONVENER

Dr.A.Velayudham

CO-ORDINATORS

Dr.E.S.Shamila

Prof.A.Praveena

Organized by

**Department of Computer Science
and Engineering**

Ph:0421-2264900, Fax:0421-2264999

e-mail: cse@jit.ac.in

website: www.jit.ac.in



Value Added Courses:

A. IVA011 – Data Science with Python ([Syllabus – IVA011 – Data Science with Python 2019-2020 ODD](#))

Value Added course titled “Data Science with Python” was conducted for III Year CSE [Batch (2017 – 2021)] students. A total of 24 willing students completed this course on the below mentioned topics and got benefitted,

- 1) Topic I: Data Analytics
- 2) Topic II: Statistical Analysis and Business Applications
- 3) Topic III: Mathematical and Statistical Computing

Publications:

1. Velayudham A et al. (2019), “Optimised DWT using cooperative particle swarm optimiser for hybrid domain based medical and natural image denoising”, International journal of Biomedical Engineering and Technology, ISSN : 1752-6418, Vol.31 No.1, pp.1 – 34, July, 2019.



"Machine learning is like alcohol: It solves problems, but if you use too much, you forget what the problem was."