JANSONS

INSTITUTE OF TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VOLUME : 06

ISSUE : 01

JANUARY 2023

TECHNOPHILE 09

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	Usha S	Assoc.Professor
4	Praveena A	Asst.Professor
5	Jansirani S	Asst.Professor
6	Vivek M	Asst.Professor
7	Krishna Priya M S	Asst.Professor
8	Kiruba Priyadharshini V	Asst.Professor
9	Pavithra M	Asst.Professor
10	Ashwini R	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	Sharrath M	Asst.Professor
19	Sasikala T	Asst.Professor

20	Saravanakumar M	Asst.Professor
21	Srihari Shankar S M	Asst.Professor
22	Prasathkumar V	Asst.Professor
23	Vishnupriya A V	Asst.Professor

Faculty Achievement's:

S. No.	Name	Title of Appreciation	Awarded / Recognized By	Date
1	Ms.M.Pavithra	ACTIVE SPOC (JAN – APR 2023) of NPTEL local chapter	NPTEL	Jan 2023 To April 2023
2	Ms.M.Pavithra	Reviewer	3rd International Conference on Machine Intelligence & Smart Systems (MISS-2K23)	24.02.2023 & 25.02.2023
3	Ms.M.Pavithra	Reviewer	International Conference on Computational Sciences and Sustainable Technologies (ICCSST – 2023)	08.05.2023 & 09.05.2023

MLR INSTITUTE OF TECHNOLOGY

UGC AUTONOMOUS

Dundigal, Hyderabad – 500 043

CERTIFICATE OF PARTICIPATION

This is to certify that **M.Sharrath** **Jansons Institute of Technology** has participated in the One Week Faculty Development Programme on **"Machine Learning in Big Data Applications and Security Challenges "** organized by **Department of Computer Science and Engineering** from **24th - 29th April, 2023.**

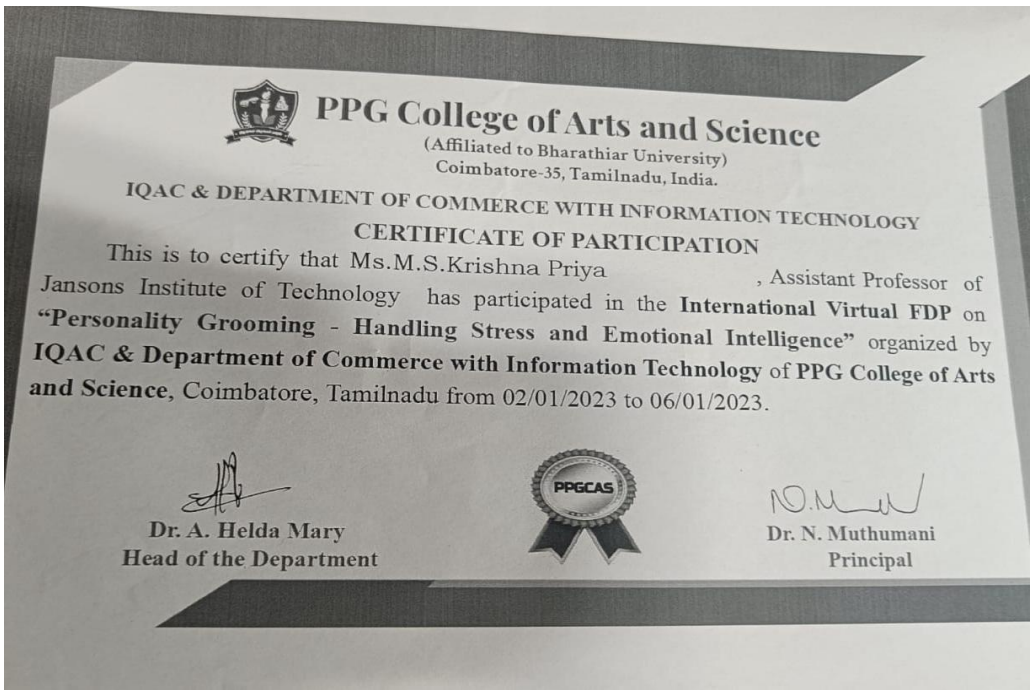
He/She has successfully completed all the requirements for the completion of the Program.

Dr. Ajmeera Kiran
Convener

Dr. A. Balaram
HOD-CSE

Dr. K. Srinivas Rao
Principal

PRINCIPAL
JANSONS INSTITUTE OF TECHNOLOGY
KARUMATHAMPATTI
COIMBATORE - 641 659.



PPG College of Arts and Science

(Affiliated to Bharathiar University)

Coimbatore-35, Tamilnadu, India.

IQAC & DEPARTMENT OF COMMERCE WITH INFORMATION TECHNOLOGY

CERTIFICATE OF PARTICIPATION

This is to certify that Ms.M.S.Krishna Priya , Assistant Professor of Jansons Institute of Technology has participated in the **International Virtual FDP** on **"Personality Grooming - Handling Stress and Emotional Intelligence"** organized by **IQAC & Department of Commerce with Information Technology** of **PPG College of Arts and Science**, Coimbatore, Tamilnadu from 02/01/2023 to 06/01/2023.

Dr. A. Helda Mary
Head of the Department

PPGCAS

Dr. N. Muthumani
Principal

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:

One day Workshop on Digital Product Development

A One Day Workshop on "Digital Product Development" was conducted by the Department of Computer Science and Engineering in association with Tech Clubs of CSE on 21.03.2023. On this day Ms. Safeera, III CSE delivered the Welcome Address.

This Workshop gave students the platform to display their project and their ideas in front of evaluators and their mates where knowledge sharing was the foundation of the event. Dr.A.Velayudham, Chief Mentor briefed up on the basis of Digital Project Development which was followed by a talk about the event by Dr. S Usha, Associate Professor, Department of CSE, followed by a talk on the happenings of the event by Dr.Vetrichelvi, Director Research. These evaluators led the session with their thoughts and expectation of the presentation and explanation of projects. Then the forum was bid for a break.

After break the students of III CSE – B started their project explanations orderly. Where the evaluators were fascinated by their ideas and project explanations. The students shared the novelty of their project and their unique ideas integrated in their project. Then the students and the evaluators bid for a lunch break. After the lunch break, again the students started with their project explanation. Then the evaluators shared their feedback and discussed with the students about their projects. The evaluators shared their innovative ideas which can be incorporated into their projects to make their projects the best. Finally the event winded up with a vote of thanks by Ms. Safeera, III CSE.

Publications:

I. Praveena A, et al. (2023), “Classification of Natural Disasters Using AI/Ml”, International Journal of Research and Analytical Reviews, E-ISSN 2348-1269, P- ISSN 2349-5138, Volume.10, Issue 2, pp.544-552, May 2023

II. Sriharishankar S.M, et al. (2023), “Advanced Detection of Forest Fire using Machine Learning”, International Journal of Research and Analytical Reviews, E-ISSN 2348-1269, P-ISSN 2349-5138, Volume.10, Issue 2, pp.275-280, May 2023

III. Praveena A, et al. (2023), “Prediction of Crops Using Machine Learning”, International Journal of Research and Analytical Reviews, E-ISSN 2348-1269, P- ISSN 2349-5138, Volume.10, Issue 2, pp.953-958, May 2023

IV. Praveena A, et al. (2023), “Real-Time Water Quality Monitoring using IoT”, International Journal of Creative Research Thoughts, ISSN : 2320-2882, Volume 11, Issue 5, May 2023

V. Saravana Kumar M, et al. (2023), “Energy Prediction of Wind Turbine Using IoT”, International Journal of Creative Research Thoughts, ISSN : 2320-2882, Volume 11, Issue 5, May 2023

VI. Shamila E S, et al. (2023), “Smart Medcare Kit Using IoT for Autarkic Persons”, International Journal of Creative Research Thoughts, ISSN : 2320-2882, Volume 11, Issue 5, May 2023

VII. Shamila E S, et al. (2022), “A Smart Graphic Eye for Visually Impaired with Text-To-Speech Converter”, Journal of Emerging Technologies and Innovative Research, ISSN : 2349-5162, Volume 9, Issue 6, June 2022

VIII. Velayudham A, et al. (2023), “Safety Gadget for Child Security Monitoring and Notification Using IoT”, International Journal of Engineering Research and Applications, ISSN : 2248-9622, Volume 13, Issue 4, pg : 233-236, April 2023

IX. Velayudham A, et al. (2023), “Plasma Providing System”, International Journal of Innovative Research in Technology, ISSN : 2349-6002, Volume 9, Issue 11, pg : 501 – 508, April 2023

X. Pavithra M, et al. (2023), “Industrial Fire Detection Alert and Management System”, International Journal of Innovative Research in Technology, ISSN : 2349-6002, Volume 9, Issue 11, pg : 509 – 515, April 2023

XI. Ashwini R, et al. (2023), “An AI Gesture Interface for Sterile Browsing of Radiology Images”, International Journal of Creative Research Thoughts, ISSN : 2320 – 2882, Volume 11, Issue 4, April 2023

XII. Saravanakumar M, et al. (2023), “Predicting Flight Delay Using KNN”, International Journal Of Creative Research Thoughts, ISSN : 2320- 2882, Volume 11, Issue 5, May 2023

XIII. Savitha R, et al. (2023), “Predicting the University Eligibility using Data Science”, International Journal of Scientific Research in Engineering and Management, ISSN : 2582 – 3930, Volume: 07 Issue: 05, May 2023

XIV. Shamila E S, et al. (2023), “A Convolutional Neural Network Based Nutrition Measurement Support Assistance”, Journal of Emerging Technologies And Innovative Research, ISSN : 2349 – 5162, Volume 10, Issue 5, May 2023

XV. Vishnupriya A V, et al. (2023), A Trend Recommender using Machine Learning, Journal of Emerging Technologies and Innovative Research, ISSN : 2349 – 5162, Volume 10, Issue 5, May 2023

XVI. Ashwini R et al. (2023), “IoT Based Water Pollution Monitoring System”, International Journal of Research And Analytical Reviews, E-ISSN 2348-1269, P- ISSN 2349-5138, Volume 09, Issue 04, April 2023

XVII. Pavithra M, et al. (2023) , “IoT Based Automated Smart Waste Management System”, International Journal of Scientific Research in Science, Engineering and Technology, Online ISSN : 2394-4099, Print ISSN : 2395-1990, Volume 10 Issue 2, pp. 446-455, April 2023

XVIII. Ashwini R, et al. (2023) “IoT Based Health Monitoring System”, International Journal of Scientific Development and Research, ISSN : 2455 – 2631, Volume 09, Issue 04, April 2023

XIX. Sriharishankar S.M, et al. (2023), “Nutrition Analyzer for Fitness Enthusiasts Powered By AI”, IJRAR – International

Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348- 1269, P- ISSN 2349-5138, Volume.10, Issue 2, Page No pp.146-160, May 2023

XX. Shamila E S, et al. (2023), “Detection of Plant Leaf Diseases Using Machine Learning Techniques”, IJRAR – International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P- ISSN 2349-5138, Volume.10, Issue 2, Page No pp.745-751, May 2023

In the world of computer engineering, every bug is a lesson, every fix is a victory, and every breakthrough is a revolution.