



HINDUSTHAN INSTITUTE OF TECHNOLOGY

(An Autonomous Institution, Approved by AICTE, New Delhi,
Affiliated to Anna University, Chennai, Accredited with "A" Grade by NAAC)
Valley Campus, Pollachi Main Road, Coimbatore 641 032.



**DEPARTMENT
OF
COMPUTER SCIENCE
AND ENGINEERING**

NEWSLETTER I 2022-2023

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Head of the Department / CSE

Dr. A.Jameer Basha

Message from Head of the Department,

It is with great pleasure that I present this edition of the Department of Computer Science And Engineering magazine, a reflection of the academic spirit, innovation, and collective efforts that define our department.

This magazine captures the essence of these efforts. It highlights the talent, creativity, and resilience of our students,

and the unwavering support and mentorship provided by the

faculty. Each article, project, and achievement featured here stands as a testimony to our shared commitment to excellence.

I take this opportunity to thank every contributor and the editorial team for their dedication. I also express my sincere gratitude to the management and leadership for their continued support and encouragement.

Let this magazine serve as both a celebration of the present and a motivation for the future.

Together, let us continue striving toward academic excellence and innovation.

About the department

Department of Computer Science and Engineering has started in the year of 2007. It is established with the vision to provide high-quality education and promote cutting-edge research.

The department offers a comprehensive curriculum that blends theoretical foundations with practical applications in computing.

The department has well equipped laboratories that provide students with hands-on experience and practical exposure.

Department of CSE has been recognized as the Research Centre from the Centre for Research, Anna University.

STAFF NAME LIST - UG

Professor

Dr.Jameer Basha A
Dr.Uma S
Dr.Senthil Singh.C

Associate Professor

Dr.Jayasutha.D

Assistant Professor

Dr.Ramasamy S
Mr.Babu Thirumangaialwar.E
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Mrs.Jeevitha.P
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Ms.Uma Maheswari.P
Mrs.Gnanakumari.R
Mrs.Rathika Prabhu
Mr.Periyasamy.P.N
Mr.Senthilkumar.R

VISION

To nurture competent Computer Science Engineers who possess the ability to contribute to global projects and collaborations with an emphasis on fostering innovation, research, and development through the pursuit of academic excellence and high standards of teaching and research focusing on ethical conduct and social responsibility, integrating sustainability principles and instill a passion lifelong learning.

MISSION

MD1: To deliver Academic Excellence through the implementation of outcome-based education, extensive research, and the adoption of innovative practices.

MD2: To provide best practical experience through Interdisciplinary Approach, Industrial Collaborations and State-of-the-Art Facilities

MD3: To produce socially responsible engineering graduates by providing them with value-based education and fostering their continuous professional development.

Programme Educational Objective

PEO1: Graduates will demonstrate proficiency in core computer science concepts, theories, and principles to analyze, design, and develop innovative solutions to complex engineering problems to succeed in diverse computing industry sectors adapting to emerging technological trends.

PEO2: Graduates will uphold high ethical standards and demonstrate social responsibility in their engineering practice, function effectively in multidisciplinary teams to collaborate and achieve common goals and engage in continuous learning and professional development.

PEO3: Graduates will exhibit an entrepreneurial mindset, actively pursuing opportunities to develop innovative computer science solutions, services, and products as well as effectively lead and manage projects in the field.

Programme Specific Outcomes

PSO1: Ability to apply programming skills in various languages and implement algorithms and data structures to solve computational challenges.

PSO2: Ability to design, develop, test, and integrate software and hardware components to construct effective and efficient computer-based systems.

Faculty Development Program (FDP) Highlights

Department of Computer Science and Engineering

Academic Year 2022–2023

FDP on Generative AI and Cyber Security Challenges

Date: 08.08.2022 to 12.08.2022

Duration: 5 Days

To keep faculty members updated with emerging technologies and evolving threat landscapes, a five-day Faculty Development Program on Generative AI and Cyber Security Challenges was conducted. The sessions covered cutting-edge topics such as AI model generation, data privacy, machine learning in cybersecurity, and threat detection strategies.

Eminent Speakers:

- Prof. Karthikeyan K.N
- Department of IT, Coimbatore Institute of Technology
- Mr. Murali Ganesan
- AI Engineer, Zerplabs India Pvt. Ltd., Chennai
- Dr. Balamurugan S
- Professor, Department of EEE, Amrita Vishwa Vidyapeetham, Coimbatore
- Dr. Arulkumaran G
- Professor, School of Computing, REVA University, Bangalore
- Mr. Sai Venkateshwaran
- Senior Manager – AI & ML, Standard Chartered Global Business Services, Chennai

The program enriched the participants with insights on the integration of generative AI tools in real-world applications and the pressing need for robust cybersecurity frameworks.

Publication Details

Department of Computer Science and Engineering Journal Publication Details in 2022 - 23

K. Murugan

- Journal: International Journal for Research in Applied Science & Engineering Technology (IJRASET)
- Indexing: UGC
- Title: A Survey on New Security Improvement in Internet of Things Utilized by Software Defined Networking (SDN)
- Details: Volume 10, Issue VII, Pages 1717–1620
- DOI: Your paragraph text
- Month & Year: July 2022

Mr. R. Senthilkumar (Assistant Professor)

- Journal: International Journal of Environmental Protection and Ecology
- Indexing: SCI
- Title: Gray-level Co-occurrence Matrix with Oriented FAST and Rotated BRIEF Algorithm for Diabetic Retinopathy Prediction
- Details: Volume 23, Issue 07, Pages 3089–3097
- Month & Year: July 2022

Dr. S. Ramasamy (Associate Professor)

- Journal: IJACT Journal on Image and Video Processing
- Indexing: UGC Care
- Title: An Improvised Ensemble CNN Algorithm for Detecting Video Stream in Multimedia
- Details: Volume 13, Issue 02, Pages 2860–2864
- Month & Year: November 2022

Mr. Biju Balakrishnan

- Journal: International Journal of Research and Analytical Reviews (IJRAR)
- Indexing: UGC Care
- Title: Semantic Web Mining with Latent Semantic Domain Clustered Web User Applications Maps
- Details: Volume 9, Issue 4, Pages 119–128
- Month & Year: November 2022

P. Gomathi

- Journal: International Journal of Research and Analytical Reviews (IJRAR)
- Indexing: UGC Care
- Title: Advanced Leaf Disease Detection System using Machine Learning
- Details: Volume 9, Issue 4, Pages 148–153
- Month & Year: November 2022

Working Models / Prototype Developed by the Faculty

Mr.Murugan.K

Prototype

Solar energy based grass cutter



Faculty Engagements with Industry – Internship | Training | Collaboration

Department of Computer Science and Engineering Academic Year 2022–2023

Dr. A. Jameer Basha

Program: Training for LITE – Faculty Coordinator

Conducted by: Pupilfirst (Online Mode)

Duration: 1st – 10th December 2022

Highlights:

- Developed leadership capabilities in promoting teaching excellence
- Gained insights into student-centric, innovative teaching methods
- Mentored faculty in implementing Outcome-Based Education (OBE)
- Improved curriculum design and inclusive pedagogy strategies
- Enhanced skills in integrating ed-tech tools in academics

Mrs. P. Umamaheswari

Program: Cyber Shikshaa for Educators

Conducted by: Microsoft (Online Mode)

Duration: 3rd – 12th August 2022

Highlights:

- Acquired in-depth knowledge of cybersecurity fundamentals
- Gained ability to effectively mentor students in the cybersecurity domain
- Strengthened teaching capability in critical digital defense topics

Mr. R. Arun

Program: Cyber Shikshaa for Educators

Conducted by: Microsoft (Online Mode)

Duration: 3rd – 12th August 2022

Highlights:

- Enabled students to gain hands-on skills and certifications in cybersecurity
- Contributed to improved student employability in the cyber domain
- Bridged the gap between academic knowledge and industry expectations

Faculty as Resource Persons or Participants in STTPs/FDPs

Dr.Jameer Basha.A

FDP on Outcome Based
Education (OBE)
Awareness Program

Orientation Towards
Autonomous Curriculum
Framing and its Process

Technology in Teaching
Methodology

Organized by

Indira Ganesan College of Engineering
11.07.2022 Coimbatore

Organized by

United Institute of Technology
12.08.2022 Coimbatore.

Organized by

Yuva Guru College of Arts and
Science 14.10.2022 Coimbatore

Faculty as Resource Persons or Participants in STTPs/FDPs

Mr.Sureshkumar.P

Edge Computing
Applications in Medical
Big Data

Organized by

Angel College of Engineering and
Technology 05.09.2022 Tirupur

Dr.Uma. S

Empirical Data Science
and its Applications

Organized by

Pollachi Institute of Engineering and
Technology 05.10.2022 Pollachi

Dr.Senthilsingh.C

FDP on Big Data and
Business Analytics

Organized by

Jai Sriram Engineering College
20.10.2022 Tirupur

Faculty Patent

Mr. P. Suresh Kumar

- ◆ Patent Title: Systematic Approach for Monitoring Pollution Control in Smart Cities and Addressing Security Challenges Integrated with IoT
 - ◆ Application No.: 202211056475
 - ◆ Date: 01.10.2022
 - ◆ Status: Published

Ms. P. Umamaheshwari

- ◆ Patent Title 1: DL-based Technique to Predict the Nutritional Value of Edible Mushrooms for Improving Human Health and Promoting Quality of Life
 - ◆ Application No.: 202211056600
 - ◆ Date: 21.10.2022
 - ◆ Status: Published
- ◆ Patent Title 2: AI-based Car Tire Blowout Security System
 - ◆ Application No.: 202241067480
 - ◆ Date: 24.11.2022
 - ◆ Status: Published

Dr. S. Ramasamy

- ◆ Patent Title 1: A Robust Mechanism for Preventing Adversarial Attacks on Audio Classifications
 - ◆ Application No.: 202241069942
 - ◆ Date: 30.12.2022
 - ◆ Status: Published
- ◆ Patent Title 2: Smart IoT-Based System Integrated with AI Framework for Prediction of Air and Weather Pollution
 - ◆ Application No.: 202241065330
 - ◆ Date: 15.11.2022
 - ◆ Status: Published



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