



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 II 2022-2023

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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 towardh 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.

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
Mrs.Kalaiselvi.T
Mrs.Jeevitha.P
Mrs.Vidhya.D
Mrs.Pavithra.K.S
Mrs.Banupriya.M
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Mr.Arun.R
Mrs.Nishanandhini.A
Mr Suresh Kumar.P
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Mrs.Pradeepa.V
Mr.Devendran M
Mr.Murugan K
Mr.Senthil Kumar R
Mr.Tamizharasu.S
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 Curriculum Design and Development

Date: 13.03.2023 to 17.03.2023

Duration: 5 Days

This Faculty Development Program focused on Curriculum Design and Development, aiming to strengthen the instructional strategies and curriculum planning skills of faculty members. It emphasized the principles of outcome-based education (OBE), industrial relevance, and alignment with NEP 2020.

Speaker:

- Mr. Dinesh Gandhi
- Freelancer Technical Trainer, ICT Academy, Tamil Nadu
-

The FDP empowered faculty members to critically analyze existing curricula, integrate emerging technologies, and implement innovative teaching-learning methodologies in line with academic and industry needs.

Faculty as Resource Persons or Participants in STTPs/FDPs

Dr.Ramasamy. S

Foundations of Cyber
Security and Physical
Systems

Organized by.

Dhanalakshmi Srinivasan College of
Engineering 02.03.2023 Coimbatore

Mrs.Jeevitha. P

FDP on Intelligent
Internet of Things (IoT)
Computing and
Applications

Organized by.

Akshaya College of Engineering
and
Technology 12.04.2023 Coimbatore

Department of Computer Science and Engineering

Journal Publication Details in 2022 - 23

Dr. S. Ramasamy

- Journal: GIS Science Journal
- Indexing: UGC Care
- Title: Interpretation of Vegetation Using AI in QGIS (Quantum Geographic Information System)
- Details: Volume 9, Issue 12, Pages 793–804
- Month & Year: December 2022

Dr. S. Ramasamy

- Journal: Journal of Intelligent and Fuzzy Systems
- Indexing: SCI
- Title: Real-time Multi-view Image-based FPC Plant Management with SS Data Security and Low-rate Attack Detection for Efficient Smart Agriculture in WSN
- Details: Volume 44, Issue 02, Pages 91–100
- DOI: Your paragraph text
- Month & Year: January 2023

Mr. R. Senthilkumar

- Journal: Multimedia Tools and Applications
- Indexing: SCI
- Title: Fully Convolutional Neural Networks for LIDAR-Camera Fusion for Pedestrian Detection in Autonomous Vehicles
- Details: Volume 82, Issue 16, Pages 25107–25130
- DOI: Your paragraph text
- Month & Year: February 2023

Mr. Murugan K

- Journal: International Journal of All Research Education & Scientific Methods
- Indexing: UGC
- Title: IoT Empowered Automated Solar Grass Cutter
- Details: Volume 11, Issue 3
- Month & Year: March 2023

Dr. S. Ramasamy

- Journal: ICTACT Journal on Communication Technology
- Indexing: UGC Care
- Title: An Intelligent ResNets Resource Allocation Framework for 5G Networks
- Details: Volume 14, Issue 01, Pages 2837–2842
- Month & Year: March 2023

Dr. S. Ramasamy

- Journal: IJARESM – International Journal of All Research Education and Scientific Methods
- Indexing: UGC Care
- Title: Analyzing and Detecting the Boundary in Medical Images and Utilizing Big Data
- Details: Volume 11, Issue 03, Pages 989–992
- Month & Year: March 2023

Mrs. R. Gnanakumari

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- Journal: Intelligent Automation & Soft Computing (Tech Science Press)
- Indexing: Scopus, Annexure I
- Title: Generalized Jaccard Similarity Based Recurrent DNN for Virtualizing Social Network Communities
- Details: Volume 36, Issue 3, Pages 2719–2730
- Month & Year: March 2023

Mr. P. Suresh Kumar

- Journal: International Journal of Research and Analytical Reviews (IJRAR)
- Indexing: UGC
- Title: An Integrated IoT System for Monitoring and Managing Water Quality in WWTP
- Details: Volume 10, Issue 1, Pages 949–953
- Month & Year: March 2023

Mr. P. Suresh Kumar

- Journal: International Journal for Multidisciplinary Research
- Indexing: UGC
- Title: Smart Agriculture Using IoT
- Details: Volume 5, Issue 2, Pages 1–8
- Month & Year: March–April 2023

Biju Balakrishnan

- Journal: Journal of the Balkan Tribological Association
- Indexing: Scopus / WoS
- Title: Piecewise Regressive B-Tree Indexing Based Linkage Clustered User Profile Mapping for Semantic Web Mining
- Details: Volume 29, No. 1, Pages 66–86
- Year: 2023

Dr. A. Jameer Basha

- Journal: Computer Systems Science and Engineering
- Indexing: SCI
- Title: PSO–DBNet for Peak-to-Average Power Ratio Reduction Using Deep Belief Network
- Details: Vol. 45, No. 2, Pages 1483–1493
- DOI: Your paragraph text
- Year: 2023

Student's Participations in Professional Events

List of students participated in professional events.

**Machavarapu Achyuth, Vettori
Fernando, Kanamarlapu di Akshay
Kumar Gupta, Chintalapalli Kiran
Kumar Reddy**
TECH ZEAL 2023 (Hackathon) –
Sona College of Technology
National
10.02.2023 – 11.02.2023
First Prize – ₹10,000

Sreerag M
Paper Presentation & Debugging
– TECHAZURA 23, Hindusthan
College of Engineering &
Technology
National
26.04.2023
3rd Prize

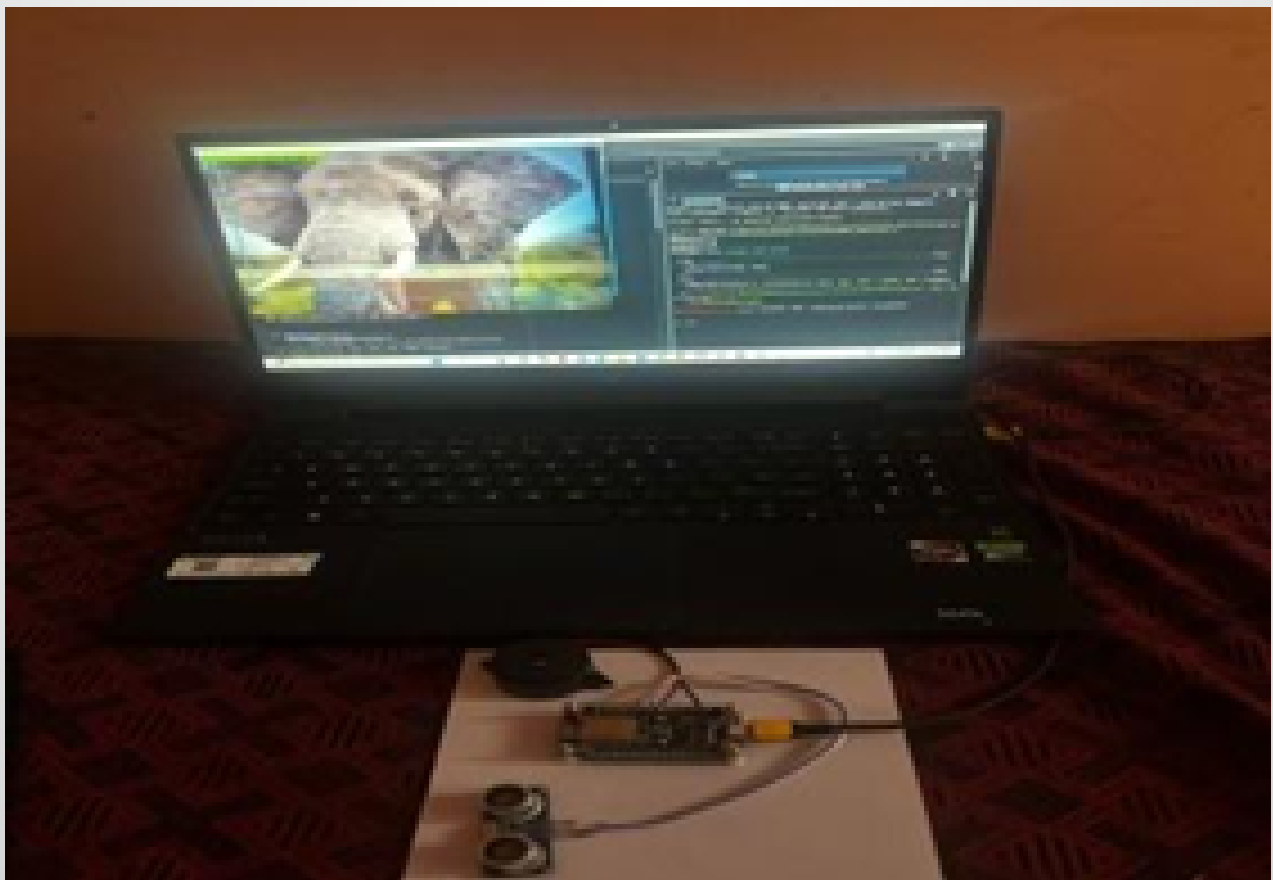
Pranav P
Paper Presentation –
JFINAGLES
National
27.04.2023
1st Prize

Working Models / Prototype Developed by the Faculty

Mrs.Banupriya.M

Prototype

IoT Based Smart Crop Protection System for
Agriculture



Faculty Certification of MOOCs through SWAYAM

S. N.	Name of the Faculty	Name of the Course Passed	Course Offered by (agency)	Grade obtained if any	Month & Year
1	Dr.Ramasamy.S	NBA Accreditation and Teaching Learning in Engineering (NATE)	IISc-Banglore	Course Completed	Jan - Apr 2023
2	Mr.Murugan .K	NBA Accreditation and Teaching and Learning in Engineering(NATE)	IISc-Bangalore	Course Completed	Jan - Apr 2023
3	Jeevitha.P	Natural Language Processing	IIT Kharagpur	Course Completed	Jan - Apr 2023
4	Mrs.Vidhya.D	NBA Accreditation and Teaching Learning in Engineering (NATE)	IISc-Bangalore	Elite	Jan – Apr 2023
5	Mr.Periyasamy.P.N.	NBA Accreditation and Teaching and Learning in Engineering(NATE)	IISc-Bangalore	Elite	Jan - Apr 2023
6	Mr.Devendran.M	NBA Accreditation and Teaching Learning in Engineering (NATE)	IISc-Bangalore	Course Completed	Jan - Apr 2023






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