



DR.T. THIMMAIAH INSTITUTE OF TECHNOLOGY

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(Affiliated to VTU, Belgaum, Approved by AICTE - New Delhi , ISO 21001-2018 Certified)

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Zbyte-CPNews 2019 -20

PRESIDENT MESSAGE

It gives me immense pleasure and great deal of satisfaction that Department of Computer Science and Engineering is releasing second edition of Zbyte-CP Newsletter covering all the activities for the Academic year 2019-20. The newsletter aims to provide a platform to the students as well as faculty to share their knowledge and also to express their artistic self. I thank all the contributors for their articles and artworks for the newsletter.

FROM PRINCIPAL DESK

Education is not to be confined within the walls of a classroom, Covid19 has proved that; and to start a new era of digital education. Our faculties and students have together proved that nothing can stop a teacher to teach and students to learn even in the pandemic like this. Always keeping the same spirit, Computer Science and Engineering department has initiated printing second edition of its Newsletter to keep the students well aware about the various activities like webinars and competitions along with the productive and enjoyable fun activities and quizzes. I heartily congratulate the department, faculties and students for their efforts that never let us down and bringing yet another informative Newsletter.

AT A GLIMPSE

Webinar / FDP Attended

E-Quiz and Webinar Conducted

Publications

Faculty Achivements

Students Achivements

PATRONS

Dr. T Venkat Vardhan

President, GVET

Sri. Raoul Kengal Vardhan

Vice President, GVET

Dr. Syed Ariff

Principal, Dr. TTIT

EDITORIAL BOARD

Prof. Hamsalatha

Assistant Professor

HEAD OF THE DEPARTMENT

Dr. S Sreedhar Kumar

Professor & HOD

ABOUT THE DEPARTMENT

The department of Computer Science and Engineering (CSE) was established in the academic year of 1988 with an intake of 60 and further enhanced to 90 seats in BE. The department has well equipped laboratories with updated software and hardware with an emphasis on practical learning in addition to curriculum. The department has well qualified and experienced faculties having extensive expertise and experience in their chosen fields. Faculties are actively involved in research in core areas of Computer Networks, Cloud Computing, Image Processing, Machine Learning, Data Mining and Artificial Intelligence.

The department endorses Industry-Institute Interactions under a governed MHRD's IIC. Department is associated with pioneer industry players like, TCS under CSR scheme for TCS-IT Employability Program since 2016, CISCO Networking Academy and Red Hat Academy for global certification in-campus touching beyond the syllabus limits. A well-furnished and established training and placement facilities are provided under various firms like Seventh Sense, FACE Academy and regular assessments are assessed from AMCAT and CoCUBES, for the year 2017-18 and 18-19, the Training and Placement department has offered 80+ placement opportunities and support to students in various MNC companies such as TCS, Accord, Wipro, Infosys, Mphasis, Tech Mahindra and many with a success rate of 75% students landing in jobs, 20% of Higher studies and rest as entrepreneurs.

The department is recognized under the MHRD established institutional level's Institute Innovation Council (IIC) since November 2018 by Govt. of India. The IIC encourages students and faculties to emerge and innovate recent developments in research and technology. The department has organized two national level conferences and one international level conference (ICRTTEAS -2019) and the research outcomes are streamlined and published under various peer reviewed journals. The department's contribution in research and publications is recorded and archived in various prestigious indexing services such as Science Citation Index (SCI), Web of Science (WOS) and SCOPUS. The publications are supported and published by IEEE , Springer Nature , WILEY , Elsevier and Inderscience.

VISION OF THE DEPARTMENT

“To produce highly competent and innovative Computer Science professionals through excellence in teaching, training and research.”

MISSION OF THE DEPARTMENT

- To provide appropriate infrastructure to impart need-based technical education through effective teaching and research.
- To involve the students in innovative projects on emerging technologies to fulfill the industrial requirements.
- To render leadership skills and ethical responsibilities in students that leads them to become globally competent professionals.

PROGRAM EDUCATIONAL OBJECTIVES (PEO)

- PEO1:** To prepare students to excel in Computer Science and Engineering post graduate programs, to succeed in computing industry profession or successful entrepreneurs through quality education
- PEO2:** To provide students an ability to analyze and solve computer science and engineering problems through application of fundamental knowledge of math, science and engineering.
- PEO3:** To train students with good Computer Science and Engineering breadth, so as to comprehend, analyze, design and create innovative computing products and solutions for real life problems.
- PEO4:** To inculcate in students professional and ethical attitude, communication skills, teamwork skills, lifelong learning, multidisciplinary approach and an ability to relate computer engineering issues with social awareness.
- PEO5:** To equip students with excellent academic environment for a successful carrier as engineers, scientist, technocrats, administrators and entrepreneurs.

PROGRAM SPECIFIC OBJECTIVES (PSO)

- PSO1:** Professional Skills: The ability to understand, analyze and develop computer programs in the areas related to algorithms, system software, multimedia, web design, big data analytics, and networking for efficient design of computer-based systems of varying complexity.
- PSO2:** Problem-Solving Skills: The ability to apply standard practices and strategies in software project development using open-ended programming environments to deliver a quality product for business success.
- PSO3:** Successful Career and Entrepreneurship: The ability to employ modern computer languages, environments, and platforms in creating innovative career paths to be an entrepreneur, and a zest for higher studies.

Department Achievement

- Received an approval for establishing a Research Centre for Department of Computer Science Engineering

WEBINAR / FDP ATTENDED

- Dr. Sreedhar Kumar S has participated in the one-month Innovation Ambassador training (Foundation Level) program conducted by MoE's Innovation Cell & AICTE during the period from 30th June - 30th July 2021 in online mode.

- Dr. Sreedhar Kumar Shas participated in the One-day seminar on “IPR’s and IP Management for Startup” conducted by Dr.T.Thimmaiah Research & Innovation Council in association with IIC held on 26th Feb 2021.
- Dr. Sreedhar Kumar Shas participated in the webinar on “How to plan for Startup Legal and Ethical steps” conducted by Dr. T. Thimmaiah Research & Innovation Council in association with Institution’s Innovation Council held on 26th March 2021.
- Dr. Sreedhar Kumar Shas participated in the IETE sponsored One Day online Webinar on “FPGA Based Array Controller for Active Phased Array Radar” organized by the Departments of Electrical and Electronics Engineering and Electronics and Communication Engineering, Dr TTIT, held on 10th April 2021
- Dr. Sreedhar Kumar Shas participated in the online seminar on “Successful startup Founder (“Entrepreneur In- Campus”)” conducted by Dr. T. Thimmaiah Research & Innovation Council in association with IIC Scheduled on 16/04/2021.
- Prof.Shalini G. has also attended ATAL online FDP on “cyber security” from 18-1-2021 to 22-1-2021 at university college Engineering,Osmania University.
- Prof.Leelavathy S.R. has attended online webinar on “Teaching the impact of vaccine roll-out for Business & International Relations -Asia pacific” on 24th June by Emerald Publishing.
- Prof.Revathi S. has attended ATAL online FDP on “Data Sciences “ from 1-2-2021 to 5-2-2021 at Dr.Ambedkar Institute of Technology.
- Prof.Sudha V. has attended ATAL online FDP on “Cyber Security” from 18-1-2021 to 22-1-2021 at St.Joseph’s college of Engineering.
- Mrs. Vinutha B.A. Asst. Prof., attended five FDP and four webinars
- Mrs. Punitha F. Asst. Prof., attended three FDP and three webinars
- Mrs. Premalatha Asst. Prof., attended two FDP and two webinars
- Mrs. Tharadevi Asst. Prof., attended three FDP and three webinars
- Mrs. Shalini G. Asst. Prof., attended three FDP and one webinar
- Mrs. Nishabai Asst. Prof., attended three FDP and one webinar
- Mrs. Santhoshkumari Asst. Prof., attended three FDP and three webinars

E-QUIZ AND WEBINAR CONDUCTED

- 1ST National level E-Quiz contest on “Knowledge Discovery Quiz in computer Science Engineering” was conducted from 7th – 9th July 2020 by Mrs. Santosh Kumari K. Asst. Prof., Mrs. Sharmila Kumari N. Asst Prof. and Mrs. Mercy Flora Asst Prof.
- 2nd National Level E-Quiz contest on “Knowledge Discovery Quiz on Computer Programming Languages” was conducted from 26th – 28th July 2020 by Mrs. Revathi A Asst. Prof., Mrs. Sophia S. Asst. Prof. and Mrs. Apoorva D. Asst. Prof.,
- 1st National Level Webinar in association with OSE Labs Chennai and Red hat was organized on “Building career in Linux Administration” on 20.06.2020
- 2nd National Level webinar on “Opportunity knocks, but once” was conducted from 26th June 2020.
- 3rd National Level three days Interactive Webinar “Latest Trends in Data Science & Cyber Security” was conducted from 9th – 11th July 2020.
- 4th National Level four-day Webinar on: Emerging Trends in IT Industry “was conducted from 3rd – 6th August 2020.

PUBLICATIONS

SCI Indexed Journal

- Dr. Sreedhar Kumar S and Prof. Syed Thouheed Ahmed have submitted an research paper with entitled “ Two Phase Cluster Validation Approaches Towards Measuring Cluster Quality in Unstructured and Structured Numerical Datasets”, Journal of Ambient Intelligence and Humanized Computing (Springer), Indexed in **SCI Impact Factor: 1.94**, 2019, (Under Review)

Scopus Indexed Journal

- Dr Sreedhar Kumar S and Prof. Syed Thouheed Ahmed have published a research paper with entitled “A New Approach of Multilevel Unstructured Clustering for Detecting Replication Level in Large Image Set”, Procedia Computer Science (Elsevier), Indexed in **Scopus, Impact Factor: 0.64**, Dec. 2019, (Accepted).
- Dr Sreedhar Kumar S has published a research paper with entitled “Reconstruction of MR Images by Using Different Transformation Techniques to Exploit the Sparsity in Frequency Domain”, International Journal of Innovating Technology & Exploring Engineering (IJITEE), Indexed in **Scopus**, vol. 9, no. 2, Dec. 2019, (Accepted).
- Dr Sreedhar Kumar S, Prof. Nisha Bai and Prof. Vinutha B A have published a research paper with entitled “ Type of Supervised Text Classification System for Unstructured Text Comments Using Probability Theory Technique”, International Journal of Recent Technology and Engineering, Indexed in **Scopus**, vol.8 , no.(2S10) , pp. 860-866, Sep 2019, DOI:DOI:10.35940/ijrte.B1158.0982S1019

Googol Scholar Indexing

- Dr Charan K V and Manjunath Singh H have published a paper entitled “A survey on mitigating network congestion in wireless sensor networks using opportunistic routing in IJISET, Vol. 6, Issue Number. 9, September 2019.

Elsevier Conference

- Dr. Sreedhar Kumar S has presented a research paper with entitled “A New Approach of Multilevel Unstructured Clustering for Detecting Replication Level in Large Image Set”, Elsevier 3rd International Conference on Computing and Network Communication (CoCoNet-19), IITM-K, Trivandrum, Kerala, 18th to 21st Dec. 2019.

Springer Conference

- Dr. Sreedhar Kumar S and Syed Thouheed Ahmed have presented an research paper with entitled “An IOT Based Treatment Optimization and Priority Assignment Using Machine Learning”, 3rd Springer International Conference on Micro-Electronics and Telecommunication Engineering (ICMETE 2019), SRM-IST, Delhi, 28th-29th Sep 2019
- Dr. Sreedhar Kumar S has submitted and got accepted an research paper with entitled “Comparative study of Feature Extraction using Different Transform Techniques in frequency Domain “, Springer International Conference on Automation, Signal Processing, Instrumentation and Control (iCASIC 202), VIT, Vellore, TN, Feb 27th-28th 2020.
- Dr Sreedhar Kumar HOD, has published a research paper on “A New Approach of Multilevel Unsupervised Clustering for Detecting Replication Level in Large Image Set”, Procedia Computer Science (Elsevier), vol. 171, April 2020, Indexed in Scopus, Impact Factor: 0.683.

- Dr. S. Sreedhar Kumar HOD, has published a research paper on “Two Phase Cluster Validation Approach Towards Measuring Cluster Quality in Unstructured and Structured Numerical Datasets”, in the journal of Ambient Intelligence and Humanized Computing (Springer), Indexed in SCI, Impact Factor: 4.85, Q1 Journal, September 2020.

Patent Registered

- Dr. S. Sreedhar Kumar HOD, has filed a research idea in patent with entitle “Breast Cancer Predication System and Method for Early Detection” in Indian Patent Advanced System, Intellectual Property India (IPI) on 6th June 2020. Patent Application Number: 202041021242

FACULTY ACHIVEMENTS



Dr. Sreedhar Kumar S, Professor & Head, has received a first international award on Research Peace Award of 2019-2020 with titled “International Distinguished Researcher in Machine Learning”, Organized by RULA Awards and World Research Council, August 15th 2019.

STUDENTS ACHIVEMENTS

- N. Zara Khan, Ayesha. M.Majreeha SultanaI. and Raina Fathima of final year under the guidance of Mrs. Sharmila Kumari N. Asst. Prof., published a paper on “The design of a trustworthy efficient and secure election ballot voting system” in IJRAET
- Abida Khanum, Archana K. P, Madhumitha R. and Narmada K. of final year under the guidance of Ms. Sudha V. Asst. Prof., published a paper on “Decision making model for adaptive crowd sourcing in medical data platforms by using unsupervised learning” in IJRAET
- Divya J, Harshitha N. A, HarshithaR. and Jyothsna of final year under the guidance of Mrs. Thara Devi M Asst. Prof., published a paper on “A systematic approach to enhance the performance for stock market prediction” in IJRAET.
- Anupriya S, Nirosini K, Nidhi Singh M. and Zakir Hussain of final year under the guidance of Mrs. Premalatha D.Asst. Prof., and Mrs. Hamsalatha J Asst. Prof., published a paper on “Autonomous Camera based Eye Controlled Wheelchair system using Raspberry-Pi”in IJRAET
- Shreelakshmi J.R, Sharanya S, Sneha V. and Sushma Rani V. S. of final year under the guidance of Mrs. Sophia S. Asst. Prof.,published a paper on “User verification for smartphone in non-intrusive manner using machine learning technique” in IJRAET

Students Forum Activities



The department of CSE has successfully inaugurated the Student Forum Activities Function on 16th August 2019 in the College Student Center.

