



DR.T.THIMMAIAHINSTITUTE OF TECHNOLOGY

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(AffiliatedtoVTU,Belgaum,ApprovedbyAICTE-NewDelhi,ISO21001-2018Certified)

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Zbyte-CP News 2019-20

PRESIDENT MESSAGE

It is indeed a proud moment that the Computer Science and Department has initiated to bring out its Fifth edition of "Zbyte-CP". I would like to see very active student participation and also more activities to be covered in the coming editions. I wish all students to excel in the coming examinations. I wish this newsletter to continue and attain the heights of excellence. My best wishes to everyone associated with this newsletter, and special thanks to the editorial team.

FROM PRINCIPAL DESK

It gives me immense joy to share that "Zbyte-CP" is doing very well. I appreciate the hard work of all students, faculty and whole heartedly thank them for presenting the Fifth edition of Newsletter in a very informative and attractive way. This Newsletter consists of various articles on current trends meticulously curated by our editorial team. We hope it will inspire you and enrich you with practical knowledge in the field of Computer Science and Engg. Once again, deepest gratitude to everyone for making the newsletter a great source of learning.

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. SreedharKumar

Associate Professor

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)

PEO 1: To succeed in computing industry through effective analysis, design and development skills.

PEO 2: To Acquire new skills to work in multidisciplinary areas with strong focus on innovation and entrepreneurship.

PEO 3: To collaborate as team members and team leaders with ethics and good communication skills.

PROGRAM SPECIFIC OBJECTIVES (PSO)

PSO1 : To design and apply standard practices and strategies in software project development to solve real world problem.

PSO2 : To adapt to the future technology, to fill the research gap and become entrepreneurs.

Department Achievement

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

WEBINAR/FDP ATTENDED

- Dr.S.Sreedhar Kumar has participated in the one month Innovation Ambassador training (Foundation Level) program conducted by MoE's Innovation Cell & AICTE during the period from 30thJune-30thJuly 2021 in online mode.
- DrS. Sreedhar Kumar has 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 26thFeb2021.
- DrS. Sreedhar Kumar has 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 26thMarch2021.
- Dr.S.Sreedhar Kumar has 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, DrTTIT, held on 10th April 2021

- Dr. Sreedhar Kumar S has 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-Asiapacific” 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. Thara devi 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. Santhosh kumari Asst. Prof., attended three FDP and three webinars

E-QUIZ AND WEBINAR CONDUCTED

- Department of CSE has organized three days national level virtual workshop for students and faculty members with entitle “**Simulative Automation Theory Of Wireless Sensor Networks Using NS2-(SATWSN-19)**” in association with CSI Student Branch and IIC Cell of DrTTIT from 25th to 27th Sept 2019 including one resource person namely Prof. Mahesh Kumar K M, Assistant Professor, CSE Dayananda Sagar College of Engineering, Bangalore have presented their respective topics in this workshop.
- Department of CSE has organized six days national level virtual workshop for students and faculty members with entitle “**Robotics Process Automation**” in association with CSI Student Branch and IIC Cell of DrTTIT from 21th to 26th Oct 2019 including one resource person namely RPA- Blueprism®, Powered by Netalla Innovations Pvt Ltd, Bangalore, India. have presented their respective topics in this workshop.
- Department of CSE has organized three days national level virtual workshop for students and faculty members with entitle “**Advance Computation in Data Structure Applications - (ACDSA-2019)**” in association with CSI Student Branch and IIC Cell of DrTTIT from 16th to 18th Nov 2019 including two resource persons namely Prof. Ravi Kumar, Associate Professor, CSE, East Point College of Engineering and Technology, Bangalore and Prof. Mallik H E, Assistant Professor, Department of Mathematics East Point College of Engineering and Technology, Bangalore have presented their respective topics in this workshop.

- 1STNational level E-Quiz contest on “Knowledge Discovery Quiz in computer Science Engineering” was conducted from 7th–9thJuly 2020 by Mrs.Santosh Kumari K.Asst.Prof., Mrs. Sharmila Kumari N,Asst Prof and Mrs.Mercy Flora,Asst Prof.
- 2ndNational Level E-Quiz contest on“Knowledge Discovery Quizon Computer Programming Languages” was conducted from 26th– 28thJuly 2020 by Mrs. Revathi A Asst. Prof., Mrs. Sophia S.Asst.Prof and Mrs.Apoorva D.Asst.Prof.,
- 1stNational Level Webinar in association with OSE Labs Chennai and Red hat was organized on“BuildingcareerinLinuxAdministration”on20.06.2020
- 2ndNational Level webinar on“Opportunity knocks,but once”was conducted from 26th June 2020.
- 3rdNational Level three days Interactive Webinar “Latest Trends in Data Science & Cyber Security” was conducted from 9th–11th July 2020.

PUBLICATIONS

SCI Indexed Journal

- Dr. S. Sreedhar Kumar 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,(UnderReview).
- Dr S.Sreedhar Kumar 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 S. Sreedhar Kumar has published a research paper with entitled “Reconstruction of MR Images by Using Different TransformationTechniques 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 S. Sreedhar Kumar, 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.

Google 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 IJISSET,Vol.6,Issue Number.9, September2019.

Elsevier Conference

- Dr. S. Sreedhar Kumar 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), IIITM-K,Trivandrum,Kerala,18thto21stDec.2019.

Springer Conference

- Dr.S.Sreedhar Kumar and Syed Thouheed Ahmed have presented an research paper with entitled“An IOT Based Treatment Optimization and Priority Assignment Using Machine Learning”,3rdSpringer International Conference on Micro-Electronics and Telecommunication Engineering(ICMETE 2019),SRM-IST,Delhi,28th-29thSep2019
- Dr.S. Sreedhar Kumar hassubmittedandgotacceptedanresearchpaperwithentitled“Comparative study of Feature Extraction using Different Transform Techniques in frequency Domain “, Springer International Conference on Automation, Signal Processing, Instrumentation and Control (iCASIC202),VIT,Vellore,TN,Feb27th-28th2020.
- Dr.S.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,April2020, Indexed in Scopus, ImpactFactor:0.683.
- Dr.S.Sreedhar Kumar, HOD,has published a research paper on“Two Phase Cluster Validation ApproachTowards Measuring Cluster Quality in Unstructured and Structured Numerical Dat assets”,in the journal of Ambient Intelligence and Humanized Computing(Springer),Indexed inSCI ,Impact Factor:4.85, Q1Journal,September2020.

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



Figure 1: Dr.S.Sreedhar Kumar,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 RULAA wards 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, Harshitha R. 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, Niroshini 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 Wheel chair system using Raspberry-Pi”in IJRAET
- Shree lakshmi 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



Figure 2: The department of CSE has successfully inaugurated the Student Forum Activities Function on 16th August 2019 in the College Student Center.

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