

FOCS TIMES

Yearly Newsletter of Department of Computer Science and
Engineering

NEWS & EVENTS

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About the Department

The Department of Computer Science and Engineering was established in 1985 with an annual intake of 30 students. The present AICTE-approved intake of the UG program is 180, which runs a full-time four-year degree program. The department's main focus is to produce versatile graduates and postgraduates, making them ready to be employed in industry/government sector/higher education/research & development/ entrepreneurship with solid fundamentals in Computer Science and Engineering. A motivated, dedicated, and qualified team of teaching and supporting staff provides unparalleled support and help related to academic, career, sports, and extracurricular activities that a student requires during their course of study. The department is spread over a large area. It provides ample computing facilities, well-equipped laboratories and Centers of Excellence in Artificial Intelligence and Machine Learning to cater to the curriculum needs of the university and beyond.

Vision

To provide valuable human resources to the society through Quality Technical Education and Research with moral values.

Mission

To educate the students in Computer Science and Engineering by imparting Quality Technical Education and Research to meet the needs of profession and society with ethical values.



**Dr. Pushpa B.
Patil**
H.O.D, Dept. of
CSE

EDITOR'S MESSAGE

Continuing the esteemed legacy of FOCS.



Prof. Prabhu Bevinamarad

Dear Readers,

Being appointed Editor for the FOCS Times, the Newsletter of the Department of Computer Science and Engineering is an incredible honor. Newsletters serve as a reflection of a department's Vision and Mission, and it fills us with immense pleasure to kick off this edition for the academic year 2021-22, brimming with excitement.

This newsletter provides a window into the array of online webinars, FDPs, training programs, and the notable achievements of faculty and students. It showcases the involvement of students in diverse curricular and co-curricular activities throughout the academic year. Additionally, the newsletter highlights faculty contributions to research and development and their accolades from esteemed organizations, acknowledging their dedicated efforts. Moreover, this edition features the artistic talents of students through creative sketches, photography, and written works.

Notably, the newsletter covers various awareness programs initiated by the NSS teams, emphasizing their endeavors toward the betterment of society.

I extend my heartfelt gratitude to all the staff members and students whose contributions have been pivotal in shaping this newsletter edition. The FOCS newsletter highly values your contributions and eagerly anticipates your continued support in the forthcoming editions.

**I and all contributors tasked with perpetuating its proud tradition
Thank you.**

TRAINING PROGRAMS

CELEBRATION OF ENGINEERS DAY



Engineers day is celebrated along with the Teachers day with our beloved Alumni Tayyaba Choudary and Sandeep Tingale on 15th september 2021. They addressed the students and gave a talk on the role of engineers. This event was jointly organized by the department of CSE & ISE and coordinated by Prof. Sujata Desai, Dr. Prema T. Akkasaligar, Prof. Sweta Patil, and Prof. Annadanesh

“This job is a great scientific adventure. But it’s also a great human adventure.”

– Fabiola Gianotti



ONE-DAY WORKSHOP ON CLOUD COMPUTING WITH AWS: AN INDUSTRIAL APPROACH

A webinar on “Cloud Computing with AWS: An Industrial Approach” was organized by CSE department on 6th July 2021. The session was delivered by Dr. Shashidhar Allagi, Assistant Professor, KLE Institute of Technology, Hubballi, Karnataka.



CLOUD COMPUTING WITH AWS: AN INDUSTRIAL APPROACH

The poster is for a webinar titled "Cloud Computing with AWS: An industrial Approach". It is organized by the Department of Computer Science and Engineering at BLDEACET. The event is scheduled for July 06 at 03 PM. The speaker is Dr. Shridhar Allagi, Assistant Professor. The poster includes a "JOIN US ON!" button and provides the Google Meet joining information: "Tuesday, July 6 - 03:00 - 04:00pm" and "Video call link: https://meet.google.com/byi-fyut-cyt".

SEMINAR ON CYBER SECURITY



One day seminar on “Cyber Security” was organized on 6th July 2021 for the students of CSE, ISE, and MCA department. The session was delivered by Mr. Mallari Kulkarni, Founder and CEO of Tech-Fortune and the event was coordinated by Prof. Pavan M and Prof. Kiran Patil.

MY STORY - MOTIVATION SESSION



The Institution’s Innovation Council (IIC) and the Department of Computer Science and Engineering jointly organized the webinar on my story-motivation session on 19-01- 2022. The session was delivered by Mr. Ramesh Patil, Software Engineer, Walk-in Software Technologies, Bangalore and the event was coordinated by Mr. A. S. Hiremath and Mr. S. S. Veni.

FACULTY ACHIEVEMENTS SECTION

Chairperson and judge in the National level Toycathon 2021



Dr. Prema T. Akkasaligar has participated as chairperson and judge in the National level Toycathon 2021, jointly organised by AICTE, MoE Innovation cell New Delhi.



Patents/honors/grants



Patent for an Invention entitled "Automatic Highlights Extraction for Cricket Based on Semantic Query Processing" with application number 202041039981 on 8/7/2021 by Dr. Suvarna Nandyal, Professor, Department of Computer Science and Engineering, P.D.A College of Engineering, Kalaburagi, Karnataka, India and Mrs. Suvarna Laxmikant Kattimani, Assistant Professor, Department of Computer Science and Engineering, BLDEA's V.P.Dr.P.G.Halakatti College of Engineering and Technology Vijayapur, Karnataka, India.

RESEARCH AND DEVELOPMENT

Publications by Faculty Members

International Journals

1. Prema T. Akkasaligar and Sumangala Biradar, "Multilevel Security for Medical Image using Heterogeneous Chaotic Map and Deoxyribonucleic Acid Sequence Operations", *Concurrency and Computation: Practice Experience*. 2022; e7222, vol.34, issue 20/10, pp.1-21. (Scopus Indexed, Impact factor:1.831, Q2-SJR:0.52), DOI:10.1002/cpe.7222.

2. Sunanda Biradar, Prema T. Akkasaligar and Sumangala Biradar "Feature Extraction and Classification of Digital Kidney Ultrasound Images: A Hybrid Approach", *Pattern Recognition and Image Analysis*, vol. 32 (2), Springer Nature, 2022, pp.363-372. DOI:10.1134/S1054661822020043 (Q3, SJR 2020-0.26), ISSN 1054-6618

3. Dixit, U., Shirdhonkar, M. (2022). 'An Improved Fingerprint-based Document Image Retrieval using Multi-resolution Histogram of Oriented Gradient Features', *International Journal of Engineering*, 35(4), pp. 750-759. doi: 10.5829/ije.2022.35.04A.15 (2022/4/1)



RESEARCH AND DEVELOPMENT

International Conferences

1. Prema T. Akkasaligar, Sunanda Biradar , Manjula Godageri, Sana Mulla, "Soil Mineral Prediction of Crops Using Machine Learning", 3rd International Conference on Intelligent Computing, Instrumentation and Control Technologies (ICICT-2022), August 11th to 12th 2022, at Vimal Jyoti Engineering College, Kannur, Kerala, AICTE, and IEEE Kerala Section, pp.1034-1039, ISBN:978-1-6654-1004-5/22.

2. U. D. Dixit and M. S. Shirdhonkar, "Document Image Retrieval: Issues and Future Directions," 2021 International Conference on Computational Intelligence and Computing Applications (ICCICA), 2021, pp. 1-4, doi: 10.1109/ICCICA52458.2021.9697204.(26/11/2021)

3. A. S. Jadhav, R. V. Pawar and P. B. Patil, "Segmentation and Classification of Retina Images using SVD Features," 2021 5th International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques (ICEECOT), 2021, pp. 712-716, doi: 10.1109/ICEECOT52851.2021.9707985.(12/10/2021)

4. • Salagar, R., Patil, P. (2022). Analysis of PCA Usage to Detect and Correct Skew in Document Images. In: Joshi, A., Mahmud, M., Ragel, R.G., Thakur, N.V. (eds) Information and Communication Technology for Competitive Strategies (ICTCS 2020). Lecture Notes in Networks and Systems, vol 191. Springer, Singapore. https://doi.org/10.1007/978-981-16-0739-4_65.

5. Bevinamarad, P., Unki, P.H. Robust Image Tampering Detection Technique Using K-Nearest Neighbors (KNN) Classifier. in "Innovations in Computational Intelligence and Computer Vision" . Advances in Intelligent Systems and Computing, vol 1424. Springer, Singapore. https://doi.org/10.1007/978-981-19-0475-2_19.

6. Veena I. Patil, Suvarna L. Kattiman, Pooja Hundekar, "Tissue Evaluation Detection and Measuring Morphological Characteristics of Cell Regions in Histological images" 2020 IEEE Bangalore Humanitarian Technology Conference (B-HTC), Date 08-10 October 2020, DOI: 10.1109/B-HTC50970.2020.9297972

STUDENTS PLACEMENTS

We celebrate the success of our recently placed students. We highlight their remarkable achievements and showcase the diverse range of industries and companies they have joined. Gain valuable insights from their experiences, as they share their journey from college to the corporate world.



Shweta Kusugal




Jagadish katti
Mr.Nikhil Patil
Ms. Sayeda Mathina Farha Kazi
Shifa Khanam Attar
Ms.Vaishnavi R Herur



Ketan Janai
Mr.Abhishekgouda B. Biradar
Mr.Kartik
Veeresh Jakati
Mr.Manoj Kori
Mr.Sagar C Umarani

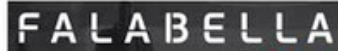
Ms.Sitamma B Pawar
Ms.Tejashwini D Kokatanur
Ms.Sakshi S Hiremath
Ms.Aishwarya Savalagi
Mr.Ramesh S Dodamani
Ms.Vaishnavi Rathod

STUDENTS PLACEMENTS



EXTENTIA
INFORMATION TECHNOLOGY
A Merkle Company

Chandan P
Anusha Gacchinanmani
Dev Patel



FALABELLA

Mr. Arjun Naik
Mr. Sadaf Mulla
Ms. Vijaylaxmi Kottalagi



SLK
SOFTWARE

The Automation Company

Ms. Ashwini Patil
Ms. Rachanna Chigadani
Ms. Suhasini Biradar
Ms. Swati Gole



TECH FORTUNE
we stand for excellence

Preeti Pudri
Sudeep Hullolli
Bhagyashree Poojari

STUDENTS PLACEMENTS



Srushti Kuchanur



Jahnvi Deshpande



Channabasappa Sunnadagudi



Vikram Chavan
Vinod Rathod



Mr. Shrihari Kulkarni

STUDENTS PLACEMENTS



Mindtree

Welcome to possible

Mr. Ramachandra Kulkarni



Ms.Pooja Revathgava
Mr.Farhat Naaz Jamadar

monocept^x

Mr.Basavaraj S Muttagi



Mphasis

The Next Applied

Radha Pawar



**MSys
Technologies**

Expanding Horizons

Suma Hugar

STUDENTS PLACEMENTS



Moksha Basavaraj Bannur



Gireeshreddy
Aishwarya Hebballi



QUALITYKIOSK
TECHNOLOGIES

Reshma Badami
Kavya Sayagavi



TATA
TATA ELXSI LIMITED

Sushma R Biradar



Mr.Veeresh
Panchaxarimath

STUDENTS PLACEMENTS



Ayush M Naik



Mr. Sourav Kalal
 Ms. Banadevi Aramoti
 Mr. Chetan B Patil
 Ms. Megha Sunagar
 Ms. Pradnya Awati
 Prajwal Landage
 Rachita Ramesh Metri
 Ms. Preeti Chavan
 Mr. Ramakrishna Patil

Ms. Soumya S Kapase
 Ms. Trupti Veerabhadrapa Hoogar
 Mr. Venkatesh Jawalkar
 Chidanand Rudrappa Gidaveer
 Nishaka Suragonda
 Krunal Porwal
 Vishwa Choudhary
 Soumya Dhari



Druva B Alur
 Geeta Nidoni
 Laxmi Awati
 Pooja Shivanand Biradar
 Mr. Raju Sunagar
 Ms. Poornima Raibagi

Ms. Sahana Tattimani
 Ms. Sahana C Sajjan
 Mr. Tarun Mosalagi
 Mr. Tarun Mosalagi
 Aishwarya Halakatti

STUDENTS PLACEMENTS



Mr. Rakshit Joshi



Campus Placement



TATA CONSULTANCY SERVICES

Mr. Nischal Shiraguppi
 Ms. Shreelaxmi Iranna Pattar
 Ms. Sushmita Adannavar
 Vaishnavi Nagur
 Shraddha Nimbale
 Jagadish
 Tushar Madabhavi

suneratech™

Ms. Poornima Mahesh Chintamani
 Rashmi A Horaddi
 Shreya P Gonnagar
 Swarnagouri. M. Angadi
 Vijayalaxmi Biradar
 Deepa Dhanagond

Jamagond Akshata
 Mallikarjun
 Kaneez Fatima Jakati
 Druva Mulawad
 Komal Khandekar

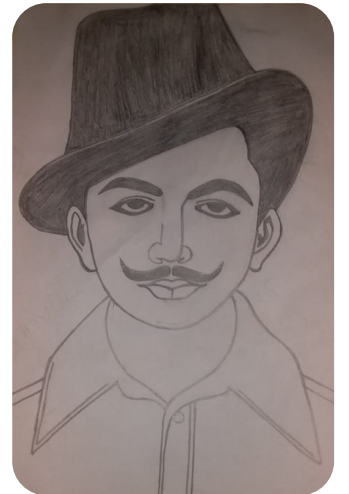
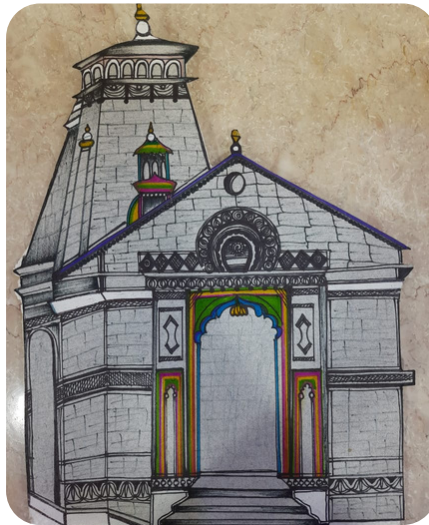
STUDENT'S ART GALLERY



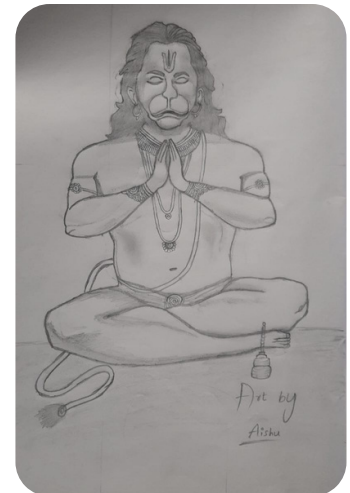
Prena Girgonkar



Aishwarya Kurani



STUDENT'S ART GALLERY



Programme Outcomes (POs)

A graduate of the Computer Science and Engineering Program will demonstrate:

PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2: 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

PO3: 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.

PO4: 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.

PO5: 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

PO6: 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.

PO7: 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.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: 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.

PO11: 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.

PO12: 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.



Programme Educational Objectives (PEOs)

- 1.A Graduate will be a successful IT professional and function effectively in multidisciplinary domains.
- 2.A Graduate will have the perspective of lifelong learning for continuous improvement of knowledge in Computer Science & Engineering, higher studies, and research.
- 3.A Graduate will be able to respond to local, national and global issues by imparting his/her knowledge of Computer Science & Engineering in Educational, Government, Financial and Private sectors.
- 4.A Graduate will be able to function effectively as an individual, as a team member and as a team leader with highest professional and ethical standards.

Programme Specific Outcomes (PSOs)

Graduates will be able to

- 1.**Computational skills:** Apply the knowledge of Mathematics and Computational Science to solve societal problems in various domains.
- 2.**Programming Skills:** Design, Analyze and Implement various algorithms using broad range of programming languages.
- 3.**Product Development Skills:** Utilize Hardware and Software tools to develop solutions to IT problems.