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COMPUTER ENGINEERING NEWS LETTER

Sanjivani Rural Education Society's

Sanjivani College of Engineering, Kopergaon-423603

(An Autonomous Institute Affiliated to Savitribai Phule Pune University, Pune)

NAAC 'A' Grade Accredited, ISO 9001:2015 Certified

Department of Computer Engineering

UG Program NBA Accredited



VOL XII, Issue -1, Dec 2022

VISION

To develop world class engineering professionals with good moral characters and make them capable to exhibit leadership through their engineering ability, creative potential and effective soft skills which will improve the quality of life in society.



MISSION OF THE DEPARTMENT

To impart quality technical education to the students through innovative and interactive teaching and learning process to acquire sound technical knowledge, professional competence and to have aptitude for research and development. Develop students as excellent communicators and highly effective team members and leaders with full appreciation of the importance of professional, ethical and social responsibilities.

FROM HOD's DESK



Dr. D. B. Kshirsagar (Head of Department)

It gives me an immense pleasure to express my views towards the development of Computer Engineering Department. Besides a very strong and disciplined Academics, Department has started various practices for the overall development of students which includes SPEAK and Coding Club for enhancing the Employability Skills, , RID Forum for the Project development based on innovative ideas, Software Consultancy Cell for software development , Mentorship activities and regular Alumni interaction with students. Students are having enormous talents and creativity which are being explored by extra co-curricular activities like Group Discussion, debate, Extempore, Programming contests, project competition etc. organized under different professional bodies like IEEE, CSI as well Departmental association.

Every year we observe lots of achievements in both academics and extra-curricular activities. Throughout the year on behalf of professional bodies and department association, lots of activities are conducted. Many students participated in these activities and the activities outside the college and bagged number of prizes. Hearty congratulations to all of them!!!

FROM EDITOR's DESK



Prof. Atul Mokal (Dean IIIC)

Dear Spectators,

"Remember that you will find treasure wherever your heart is". Some opportunities make us feel alive, engaged, connected and fulfilled. I am thankful to our honourable management and director Dr. Ajaykumar Thakur and our

head Dr. D. B. Kshirsagar for providing me the chance to serve as editor of the Computer Engineering newsletter, which is published twice a year. We are able to deliver the special and worthwhile reading edition of Computer Engineering Newsletter "December 2022", thanks to our ongoing work. I am honoured to acknowledge the contributions made towards the completion of this issue by my students, illustrious alumni, and my academic colleagues. I anticipate continuing to receive the same level of support. We want to set up the new editorial board in the following semester. Students, alumni, and faculty members who are interested may contribute. See you in the next Edition.

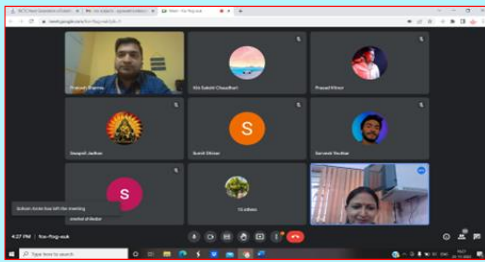
NEWS AT GLANCE

- **Sanjivani MyStory Board Event: “MODERN DEVOPS”**



Guest Lecture By Mr. Amol Chintamani, Continuous Integration Engineer, SIEMENS PLM SOFTWARE was organized by Association of Computer Engineering Students on 29th November 2022.

- **Sanjivani I-Connect Event: “Introduction to semantic Web” World Beyond WWW**



Guest Lecture By Mr. Prakash Sharma, School of Computing & Information Technology at Manipal University, Jaipur, India. Organized on 25th November 2022.

- **FY B.Tech Induction Programme: “Introduction to SCOE and Various Department Domains and Opportunities”**



By Dr. A. G. Thakur, Director SCOE and HOD's SCOE.

- **Capsule Course on “Data Science with Python” by Dr. T Bhaskar**

Webinar Organized on 20th August 2022

➤ Event Outcomes:

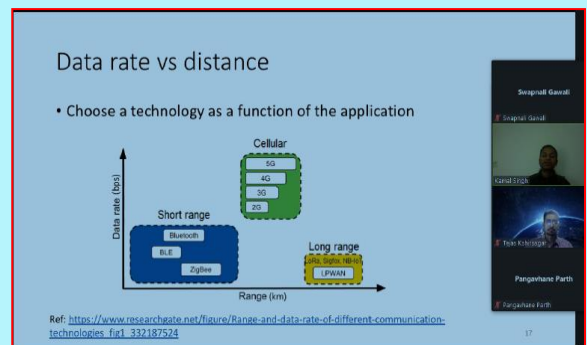
1. Students are able to use Features of Python Concepts.
2. Students have become familiar with Data Science concepts
3. Students are able to run Data Science programs using Google Collab Jupiter Notebook.
4. Students are able to Build Data Science Models & Compare Data Models with different techniques.

- **“Big Data Analysis and Video analysis methods” by Mr. Ebenezer Agboza**



Guest : Mr. Ebenezer Agboza Ural Federal University, Senior Lecturer (Applied informatics) in Ural Federal University, Yekaterinburg Russia. Seminar organised on 11th October 2022

- **Webinar on “AI for IOT” by Mr. Kamal Singh**



Guest Name: Kamal Singh, Associate Professor, University of Saint Etienne, France

Industry Programs & Social Events Underr IIIC

- **Virtusa MoU Exchange, Centre of Excellence Inaugural Ceremony**



We have signed MoU with Virtusa on 12 August 2022 Established & inaugurated Virtusa “Java Full Stack - Centre of Excellence”

- **Celebal MoU exchange, Centre of Excellence Inaugural Ceremony**



We have signed MoU with Celebal Technologies on 9th June 2022 Established & inaugurated “Celebal - Centre of Excellence”

Research & Development Activities

- Dr. T. Bhaskar, “A Machine Learning Based Approach for Enhancing Student Learning Experiences”,
https://doi.org/10.1007/978-981-19-8669-7_20, published in 2022
- Prof. Monika Agrawal, “Analysis Of Cyber Threat Detection And Emulation Using MITRE Attack Framework” Scopus & Web of science, published in September 2022.
- Dr. B. J. Dange, Dr. H. E. Khodke, Dr. S. N. Gunjal, Dr. T. Bhaskar, “Face Mask Detection Under the Threat of Covid-19 Virus”,
<https://doi.org/10.1109/ICBDS53701.2022.9935853> , Published in September 2022.
- Dr. H. E. Khodke, Dr. S. N. Gunjal , “An effective heart disease prediction using Machine Learning Techniques”, published at 5th International Conference IConIC 2K22.
- Dr. B. J. Dange, Dr. H. E. Khodke, Dr. S. N. Gunjal, “Fusing Clustering and Machine Learning Techniques for Big-Mart Sales Predication”, 10.1109/ICBDS53701.2022.9935906, published in September 2022.
- Dr. T. Bhaskar, “Assessment on economic power management for smart city through IoT sensor model”,
<https://doi.org/10.1016/j.meansen.2022.100515>, published on 8th October 2022.
- Dr. T. Bhaskar,” Assessment on economic power management for smart city through IoT sensor model”,
<https://doi.org/10.1016/j.measen.2022.100515> , published on 8th October 2022.
- Dr. T. Bhaskar, “IOT sensor-based pollution management control technique”,
<https://doi.org/10.1016/j.measen.2022.100513> , published in October 2022.
- Dr. T. Bhaskar, “Faulty diagnostics model in e-commerce using AI”,
<https://doi.org/10.1016/j.measen.2022.100634> , published in December 2022.
- Dr. T. Bhaskar, “USAGE OF ENSEMBLE REGRESSION TECHNIQUE FOR PRODUCT PRICE PREDICTION“,
<https://doi.org/10.1109/ICIRCA54612.2022.9985521> , published in 2022.

Students Achievements

- Dr. N. G. Pardeshi, Dr. T. Bhaskar, "Multiple Disease Prediction using Machine Learning" <https://www.doi.org/10.14704/NQ.2022.20.11.NQ66447>, published in September 2022.
- Dr. K. Vengatesan, "An Efficient System for the Prediction of House Prices using a Neural Network Algorithm", <https://www.doi.org/10.1109/ICECAA54515.2022.9936419>, published in October 2022
- Dr. K. Vengatesan, "Framework for Implementation of Personality Inventory Model on Natural Language Processing with Personality Traits Analysis", Accepted and submitted for publish in December 2022.
- Dr. M. Rajesh "Assessing nitrogen dioxide (NO₂) impact on health pre- and post-COVID-19 pandemic using IoT in India", <https://doi.org/10.1108/IJPC-08-2020-0115>, published in November 2022.
- Dr. M. Rajesh, "Peer-to-peer energy trading using blockchain technology", <https://doi.org/10.1016/j.egy.2022.01.145>, published in November 2022.
- Dr. M. Rajesh, "Intelligent Robotic Chair With Thought Control and Communication Aid Using Higher Order Spectra Band Features" <https://doi.org/10.1109/JSEN.2020.3020971>, published in September 2022.
- Dr. M. Rajesh, "An Efficient Lightweight Privacy-Preserving Mechanism for Industry 4.0 Based on Elliptic Curve Cryptography", <https://doi.org/10.1109/TII.2021.3139609>, published in September 2022.

• Sports Achievements



Aryan Haribhau Katore was selected for Inter zonal Football competition of Savitribai Phule Pune University.



Prachi Sunil Ghangare was selected for Inter zonal Chess competition of Savitribai Phule Pune University.

• Other Achievements



Chaitanya Tekane has following achievements.

Current Masters Offers :

- (1). McGill University, Canada - MS in Computer Science
- (2). Mila + University of Montreal, Canada - Professional Masters in Machine Learning
- (3). Illinois Institute of Technology, USA - MS in Computer Science

Completed Internships :

- (1). Mitacs Globalink Research Internship at University De Montreal, Canada (onsite) (3 months)
- (2). Software Developer Intern at Eleva Infotech Pvt Ltd (Remote) (6 months)

Currently Doing Internship :

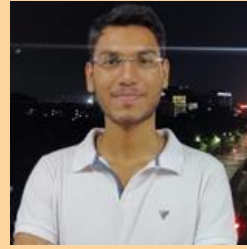
- (1). Research Intern at University of Montreal, Canada



Ansari Mohammed Anas Momin Mohammed Amin (3rd year B. Tech Computer Engineering student) at Sanjivani College of Engineering, Kopergaon recently published a research article on "Deep Learning-based development of Seismic Tunnel Damage Prediction (STDP) Model "in an international journal " Modeling Earth Systems and Environment" by Springer. ***This is Q1 category journal having impact factor 3.9 in the field of soft computing and modelling research.*** For this research, Anas Ansari worked with Ph.D. research scholar of IIT Delhi, Abdullah Ansari under the guidance of Prof. KS Rao and Prof. AK Jain of IIT Delhi.



Aniket Rahane (2nd year B.Tech Computer Engineering student) has secured 3rd position in 'Programmers Date' event organized by MET's Institute of Engineering, Nashik.



Yash Anthony Dive has got valid gate score in GATE 2022 examination.



Nikhil Suresh Ghule has got valid gate score (41.33% and All India rank is 1891) in GATE 2022 examination.

Faculty Achievements



Dr. S. R. Deshmukh

Awarded for Successful Completion of PhD in Computer Engineering Topic "Load Balancing in cloud environs & Optimal Task Scheduling via Hybrid Algorithm" on 16th October 2022.



Prof. Atul Mokal

Admission for PhD (Computer Engineering) in Savitribai Phule Pune University

Programs Educational Objectives (PEOs)

1. To prepare the committed and motivated graduates by developing technical competency, research attitude and life-long learning with support of strong academic environment.
2. To train graduates with strong fundamentals and domain knowledge and update with modern technology to analyse, design and create novel products & provide effective solutions for social benefits.
3. To exhibit employability skills. Leadership and right attitude to succeed in their professional career.

Program Specific Outcomes (PSOs)

1. The ability to apply knowledge of problem solving , algorithmic analysis, software engineering, Data Structures, Networking, Database with modern recent trends to provide the effective solutions for Computer Engineering Problems.
2. The ability to inculcate best practices of software and hardware design for delivering quality products useful for the society.
3. The ability to employ modern computer languages, environments, and platforms in creating innovative career paths.

Editorial Board



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Director SCOE

Dr. D. B. Kshirsagar
Head



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Editor-in-chief

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Student Member



Regd. AD/Book-Post

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To, _____

Pin code

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