NEWSLETTER

First Half 2020

FROM THE HOD's DESK

Department of Computer Engineering of SIES GST started in year 2002 offers undergraduate programme in Computer Science where students are exposed to concepts of computer engineering to motivate their humanities, innovation, creative and problem solving abilities, intellectual honest and professional ethics, and capacity for teamwork in interdisciplinary, national and international environment. The students are nurtured to become better professionals in their career.

Dr. Aparna Bannore
(HOD)
Department of
Computer Engineering

DEPARTMENT NEWSLETTER

COMPUTER ENGINEERING DEPARTMENT

SIES GRADUATE SCHOOL OF TECHNOLOGY, NERUL

VOLUME 4 ISSUE

VISION

- To Impart quality education to meet the professional challenges in the area of Computer Engineering.

- To create an environment for research, innovation, professional and social development.

- To nurture lifelong learning skills for achieving professional growth.

- To strengthen the alumni and industrial interaction for overall development of students.

MISSION

To be a centre of Excellence in Computer Engineering to fulfill the rapidly growing needs of the Society.

DEPARTMENT NEWSLETTER

Program Educational Objectives (PEOs)

- Practice Computer engineering in core and muti-disciplinary domains.

- Exhibit leadership skills for professional growth.

- Pursue higher studies for career advancement.

Program Specific Outcomes (PSOs)

- To apply computational and logical skills to solve Computer engineering problems.

- To develop interdisciplinary skills and acquint with cutting edge technologies in software industries

FACULTY PROFILE

No	Name	Qualification	Designation	Area of Interest
1.	Dr. Aparna Bannore	B.E(CSE), M.E (CE), Ph. D*	Associate Professor	Cyber security and Signature security.
2.	Dr. Rajesh Kadu	B.E, M.Tech (CE), Ph. D*	Associate Professor	Cognitive Radio Network Security
3.	Dr. Rizwana Shaikh	B.E(I.T), M.E(CE), Ph. D	Associate Professor	Cloud Computing and Security
4.	Dr. Deepti Reddy	B.Tech, M.E (CE), Ph. D	Associate Professor	Semantic web, Intelligent Tutoring System, Engineering Education, Educational Technology.
5.	Ms. Prachi Shahane	B.E(CSE), M.E (CE)	Assistant Professor	Artificial Intelligence, Internet Of Things
6.	Ms. Suvarna Chaure	B.E(CSE), M.E (CE)	Assistant Professor	Security
7.	Mr. Sunil Punjabi	B.E, M.E (CE)	Assistant Professor	Software Engineering
8.	Ms. Pranita Mahajan	B.E(CSE), M.E (CE)	Assistant Professor	Natural language processing, Machine Learning, Data Analytics.
9.	Ms. Ujwala Ravale	B.E, M.E (CE)	Assistant Professor	Network Security, Machine Learning

FACULTY PROFILE

No	Name	Qualification	Designation	Area of Interest
10.	Ms. Preeti Godbole	B.E. (CS), M.Tech(C.N.E), Ph. D*	Assistant Professor	Real Time Systems, IOT, Parallel Computing and HPC
11.	Ms. Masooda Modak	B.Tech (IT), M.E (CE), Ph.D*	Assistant Professor	Learning Analytics, Data Mining, E-learning
12.	Ms. Anindita Khade	B.E., M.E (CE)	Assistant Professor	Machine Learning, Data Analytics, Data Mining
13.	Dr. Varsha Patil	B.E., M.E (CE),PhD*	Assistant Professor	Image Processing, Data Mining, Machine Learning, Natural Language Processing
14.	Ms. Kalyani Pampattiwar	B.E. (CSE), M.E (CE)	Assistant Professor	Security, Data Mining
15.	Ms.Namrata Patel	B.E., M.E (CE)	Assistant Professor	Web Mining
16.	Ms. Kranti S Bade	B.E.(IT), M.E(CSE)	Assistant Professor	Data Mining
17.	Ms. Pranjali Thakre	B.E (CT), M.E (Embedded sys & computing)	Assistant Professor	Machine Learning, Data Science, Embedded System, IoT

NON TEACHING STAFF

No	Name
1.	Mr. Srinivas B.
2.	Mr. Saikrishna J.
3.	Mr. Bhagyashal W.
4.	Mr. Sudhir P.

CLASS STRENGTH

Year	Total No of students	Boys	Girls
S. E.	105	73	32
T. E.	106	64	32
B. E.	120	77	43

FACULTY ACHIEVEMENTS

PAPERS PUBLICATION

- Dr. Rizwana Shaikh and Masooda Modak has published paper titled, "Smart Transportation using Fog Computing", in International Conference on Data Sciences, Machine Learning and Applications, 2020,Springer.
- Dr. Rizwana Shaikh has published paper titled, "Prediction and preventive awareness of chronic kidney disease using machine learning algorithms", UGC Journal.
- Dr. Rizwana Shaikh has published paper titled "Long term water consumption prediction" for IEEE.
- Dr. Rizwana Shaikh has published paper titled "Land Registration System Using Block-chain" for IEEE.
- Prof. Pranita Mahajan has published paper titled "An IoT Based System for Water Quality Monitoring", in Elsevier ICICNIS 2020 conference on 10-11 Dec 2020.

FACULTY ACHIEVEMENTS

PAPERS PUBLICATION

- Prof. Pranita Mahajan has published chapter for the book "Tracking and Preventing Diseases with AI", with paper title, "Investigating Clinical Named Entity Recognition Approaches for Information Extraction from EMR", Jan 2021.

- Prof. Masooda Modak has published paper titled, "Detection of Learning Disability: A Survey", International Conference on Data Sciences, Machine Learning and Applications, 2020, Springer. Prof. Masooda Modak has published paper titled, "Machine Learning based Learning Disability Detection using LMS" in 2020 IEEE 5th International Conference on Computing Communication and Automation (ICCCA), Greater Noida, India, 2020, pp. 414-419, doi: 10.1109/ICCCA49541.2020.9250761.

- Prof. Anindita Khade has published paper titled, "Real time video Surveillance system for detecting malicious actions and weapons in public spaces"- ICCNCT 2020-Springer July 2020.

> **DST Proposal**
>
> Dr. Rizwana S. & their team, dr. Rajesh K. & their team, Dr. Aparna B. And their team submitted DST proposal on "E waste Management"

FACULTY ACHIEVEMENTS

Other Online Courses

- Prof. Suvarna Chaure completed courses on "Ethical Hacking and Security" by Udemy.

- Prof. Kalyani Pampattiwar completed BodhiTree: A Platform for Improving Learning Outcomes using Online Interactive Courses and Assessed Labs", IITB.

- Dr. Rizwana Shaikh, Prof. kalyani Pampattiwar, Prof. Masooda Modak & Prof. Namrata Patel completed various online courses on "Blockchain Technology".

- Prof. Masooda Modak completed course on "WEB TECHNOLOGIES" by Coursera.

- Prof. Masooda Modak & Prof. Pranita Mahajan undergoing training program on AI/ML, by ISTE and BNY MELLON.

RESEARCH PROPOSALS

- Prof. Ujwala Ravale and Prof. Preeti Godbole received minor research rrant of 25000 for the project, "Real Time Flood Monitoring System", from Mumbai university

- Prof. Prachi Shahane and Pranita Mahajan received minor research grant of 25000 Rs for the project, "Chatbot for prevention and awareness of NCD in rural Women", from Mumbai University.

- Dr. Rajesh Kadu and Prof. Kranti Bade received minor research grant of 20000 Rs for the project titled, "Water quality management using cognitive IOT", from Mumbai university.

WORKSHOP

- Prof. Suvarna Choure, Prof. Prachi Shahane and Prof. Pranita Mahajan attended workshop on, "Python With COVID-19 Data Web Scraping And MySQL" dated on 09-05-20 to 10-05-20.

FDP

- Faculty development program on "Online Teaching-Learning Practices and Tools" conducted on 4/06/20-06/06/20

- Faculty development program on "Online Teaching-Learning Practices and Tools(SIESCOMS) 8/05/20-9/05/20

- Faculties participated in the 5 Days Faculty development Program On " Blockchain Technology" held during 18th- 22nd May 2020, Organized by Finland Labs at IIT Roorkee.

- Faculties participated in the 5 Days Faculty development Program On " Artificial Intelligence and Machine Learning", held during 26th- 29th May 2020, Organized by Finland Labs at IIT Roorkee

- Faculties have also undergone the training program conducted by AICTE ATAL Academy on "Cyber Security Vulnerabilities & Safeguards", held from 14th to 18th May, 2020.

WORKSHOP ORGANIZED/ CONDUCTED

- Student development programs on various advanced topics like Blockchain Technology, Advanced Web Technologies and Data science with R conducted during summer vacation.

- Workshop on "How to write project report prepare presentation and how to write research paper" organized for BE students ".

- Workshop on "Cloud Computing with Amazon web services on zoom" for TE students

- Workshop on "Programming Logic" for FE. Total number of participants for the event were 28.

- National level Project Competition "Innovations 2020", organized for multidisciplinary students. Total 27 teams (81 participants) have attended the event.

- Prof. Deepti R. conducted a session on "Technical paper reading" for S.E. (CE) on 04-11-2020.

- Prof. Prachi Shahane conducted a session on "C programming", CSI on 18-09-2020.

ARTICLE

Women's Safety in the Workplace

Editor: Prof. Namrata Patel

In the past decade, women have progressively earned a higher standard in the workplace. Women are now gaining higher positions and form a big/huge section of any working sector around the globe. Women now are more independent in every sense. They are competent enough to take care of themselves and their families. They are more able to make their own life choices and live in their own terms.

Women safety at workplace FICCI

- The suggested guidelines for the safety for women at the workplace are broadly categorized under four heads:

1. Physical
2. Environmental
3. Organizational
4. Educational

WE DESERVE

TO BE SAFE !

ARTICLE

However, everyday women are mistreated in the workplace by their co-workers. After the #metoo and #timesup movement in the U.S, more women are coming forward to tell their horror stories. Susan Fowler, an ex-employee from Uber claimed how her team manager harassed her on the very first day at her work. The incident led her to leave her team and eventually Uber. Following the incident, many other harassment complaints were filed.

Taking actions to implement and ensure women safety in the workplace is the actual and effective solution. Providing infrastructural amenities like late night shuttle service, female cab drivers, enhanced surveillance for security are few improvements coming up in the corporate work culture.

However, changing mindsets is the key. Some concrete steps for establishing a safer environment are the following:

1) Create Awareness
2) Enforce a Zero-tolerance Policy
3) Promote a Spirit of Entrepreneurship and Openness Among Women
4) Set up a Strong Internal Committee
5) Incorporate Educational Programs for Male Employees
6) Provide Equipment and Safety Aids for Women

Organization should provide counselling sessions, life-coaching workshops specially structured for women. This can provide sensitive women with the confidence to speak up.

STUDENT'S ACHIEVEMENTS

PAPERS PUBLICATION

- Aparna Iyer, Shraddha Hire, Shraddha Iyer published paper on, "A Skin Disease Detection System Using CNN Deep Learning Algorithm", in Soft Computing and Signal Processing (ICSCSP-2020), Hydrabad.

- Suriya Prasath, Shweta Ravikumar, Pradnya Suryavanshi have published paper on "Booting of Diskless Workstations" in IJSRCSEIT, Volume 6 | Issue 2 | ISSN : 2456-3307,March 2020.

- Aakash Maji and Devesh Pendse have published paper on "MedSmart: A Health Record Sharing Using Blockchain" in Journal of Scientific Computing, Volume 9 Issue 5 2020.

- Snehal Deshmukh, Ankita Dharurkar, Sudhanshu Tarale and Niraj Borkar published paper on, "Suspicious Financial Activities Detection using Machine Learning", International Journal for Research in Applied Science & Engineering Technology (IJRASET) ISSN: 2321-9653; IC Value: 45.98; SJ Impact Factor: 7.429 Volume 8 Issue III Mar 2020.

- Girish Pulinkala, Sai Sankar Sriram, Surya Walujkar presented and published paper titled as, "Video summarization using mask r cnn", International Research Journal of Engineering and Technology (IRJET) e-ISSN: 2395-0056 Vol 7 issue 6 June 2020.

STUDENT'S ACHIEVEMENTS

PAPERS PUBLICATION

- Shruti nair, Sannidhi Shetty and Shruti Khairnar published paper on, "Analysis on Code-Mixed Data for Movie Reviews", International Research Journal of Engineering and Technology (IRJET), e-ISSN: 2395-0056, p-ISSN: 2395-0072, Volume: 07 Issue: 03 | Mar 2020.

- Roshni Shetty, Nikita Shenai and Vaibhavi Shetty published paper on "User Authentication using Secret Key Sharing", IEEE 2020 International Conference on Emerging Trends in Information Technology and Engineering (ic-ETITE)

- Shreemun Pranav, Abhishek Yadav, and Vikhyat Shetty published paper on "Sales prediction using online sentiment with regression model", IEEE International conference on Intelligent computing and control systems, ISBN:978-1-7281-4876-2

- Shruti Rao, Prathiksha Poojary, Jigar Somaiya published paper titled "A comparative study between various preprocessing techniques for machine learning", Congress on Computational Intelligence 2020.

- Navin M., Anand R., Kavita H. have published paper on ,"Visual Speech Recognition: A Deep Learning Approach.", in 2020 International Conference on Communication and Electronics System (ICCES 2020), 10-12 June, IEEE, 2020.

STUDENT'S ACHIEVEMENTS

PAPERS PUBLICATION

- Aditya Loke, K.V Ashish and Ajay Katti published paper on, "A Pluvial Flood Detection Model Using Machine Learning Techniques and Simulate The Flow of Water" in 2020 5th International Conference on Communication and Electronics Systems (ICCES).

- SaiPrasad, Shweta and Omkar published paper on "E-learning detection for learning disability 2020 IEEE 5th International Conference on Computing Communication and Automation (ICCCA), Greater Noida, India, 2020, pp. 414-419, doi: 10.1109/ICCCA49541.2020.9250761.

- Siddhesh Iyer, Shivkumar Thevar, Priyamurgan Guruswamy have published paper on, "Heart disease prediction using machine learning", International Research Journal of Modernization in Engineering Technology and Science volume:02/Issue:07/July-2020 , e-ISSN: 2582-5208 .

- Aayush shetty, Pranav Pradeep and Akshit shetty published paper on, "Text summarization from multiple documents", International Research Journal of Engineering and technology(IRJET) Volume: 07 issue:06| June 2020 e-ISSN : 2395-0056 p-ISSN: 2395-0072.

STUDENT ACHIEVEMENTS

NO.	NAME OF STUDENT	YEAR / SEM	ACHIEVEMENT (CURRICULAR, CO-CURRICULAR & EXTRA-CURRICULAR)
1.	Sayali P. Shantanu G. Venkatesh A.	BE/VIII	1st Runner up in I HACK conducted by IIT Bombay.
2.	Mansi Khamkar Vrunda Mange	TE/VI	Consolation prize in Anveshna 2020 Science and Engineering Fair Mumbai, Zonal, 18th Feb 2020
3.	Shraddha Iyer Aparna Iyer	BE/VIII	Byte Camp 20, Mumbai National, 22-23 Feb 2020
4.	V Karthikraj, Senthil T,Thiru Y, Shweta S	TE/VI	Special Mention for outstanding performance award in Deep Blue competition conducted by Mastek
5.	Ninad C, Mithil P. and Rahul S.	TE/VI	Qualified for international coding competition
6.	Chinmay C., & Arvind T.	BE/VIII	Won GST Technical Excellence Award
7.	Sayali Patil	BE/VIII	Won GST Best Enterprising student award

STUDENT ACHIEVEMENTS

NO.	NAME OF STUDENT	YEAR / SEM	ACHIEVEMENT (CURRICULAR, CO-CURRICULAR & EXTRA-CURRICULAR)
8.	Venkatesh M Karthikraj Naidu	TE/VI	Participated in DMCE Hackathon 2020
9.	Sanoop Menon	BE/VIII	Secured 34th rank in CEED 2020 by IIT Bombay.
10.	Senthil T, V. Karthikraj, Venkatesh M.	TE/VI	Won 2nd Runner up in Techxter in SIESGST

INTERNSHIP & PLACEMENTS

INTERNSHIP

Students are always proactively participating in the online and offline internship programs. College also provides internship opportunities through various student development programs on recent technologies. SE and TE students participate in such SDPs .

Internship is provided on Software Design Skills, Blockchain Technology, Network Security & Ethical Hacking, Advanced HTML and Web Technology, Data Science Using R, Advanced C Programming, Web Development Technologies, Modelling Robot Kinematics
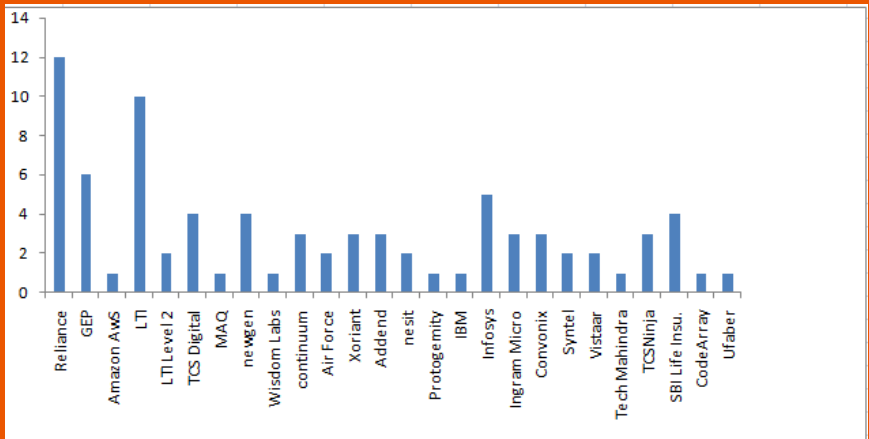
Students have completed internship program from various government aw well as private organization like Cloud Counselage Pvt. Ltd., Smart bridge, DXC Technology, Denkali, LM UX Innovates, Indian Oil Corporation, KPMG.

INTERNSHIP & PLACEMENTS

PLACEMENT

Computer department placement is consistently good. Students are placed in various esteemed companies. Their selection is through aptitude test, programming test, group discussion and technical interviews.

In this SH 2019, students are placed in companies like Reliance Jio, GEP, Amazon AwS, LTI, LTI Level 2, TCS Digital, MAQ, NewGen, Continuum, Xoriant, Nesit, IBM, Infosys, Ingram Micro, Convonix, Syntel, Vistaar, Tech Mahindra, TCS Ninja, SBI Life Insurance, CodeArray, Protogemity, Addend, Wisdom Labs, Ufaber etc.

STUDENT TOPPERS

S.E. – FIRST HALF 2020 (Semester IV)

Rank	Name of student	CGPI
1	Murli Sharan V	10
1	Akashsai Rajaram	10
1	Aditya Borude	10
1	Bubere Zainab M	10
1	Choudhari Dinesh S	10
1	Gaikwad Vaishnavi R	10
1	Modi Parth B	10
1	Nikhitha Jayprakash	10
1	Ishita Paul	10
1	Rao Anandteerth R	10
1	Rao Bhagyashree R	10
1	Lavanya Samantha	10
1	Sangeeth Arun	10
1	Aakriti Sharma	10
1	Shreya Mukherjee	10
1	Thevar Mahalakshmi M	10

T. E. - FIRST HALF 2020 (Semester VI)

Rank	Name of student	CGPI
1	Shenoy Tejas G	10
1	Rao Dhananjaya S	10
1	Ganesh Saail Gurunath	10
1	Mange Vrunda K	10
1	Ganeshan Aishwarya N	10
1	Jadhav Anagha	10
1	Srikant Divya V	10
1	Shridhar hariharan B	10
1	Thaneermalai Senthil M	10
1	Shinde Swapnil S	10
1	Pradhan Sahil A	10
1	Choudhary Ashok R	10

B.E.-FIRST HALF 2020 (Semester VIII)

Total 72 students scored 10 Pointer with Rank 1.
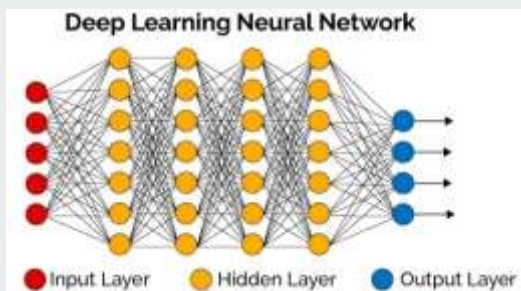
Name of the students are as below:

Chetan A., Arvindraj T., Avantika M., Darshana B., Vivek B., Swarika B.,Rohan B. Chinmay C., Saijayanth C., Snehal D., Ankita D., Ashutosh D, Janhavi D, Gayatri K., Shantanu G., Amogh G., Sai Apurva, Aaditya G. Sanjay, Sumeet H., Kavita H., Aparna I., Neha J., Somaiya J., Ajay K. Ashish K., Shubham K., Soummya K., Aditya L., Mahadevan I., Sanoop M., Apurva M., Navin M., Shruti N., Abhimanyu P., Aakriti P., Maithili P., Sayali P., G.Saiprasad, Sunil P., Prathiksha P., Omkar P., Pranav P., Preeti E., Girish P., Ramakrishnan V., Shruti R., Ritu Rao, Roshni B., Sai Sankar, Sarthak S., Shweta S., Aayush S., Akshit S., Roshni S., Sannidhi S.,
Vaibhavi S., Vikhyath S., Shreemun P., Shruti N., Aman S., Sudhanshu T., Chandrakala V., Nagarjuna V., Venkhatesh A., Surya W., Abhishek Y., Vijay Y., Shubham A., Mohan A., Shruti K., Mageshwaran, Jaykumar P.

ARTICLE

Deep Neural Network

Editor: Riya Kale

A deep neural network is a neural network with a certain level of complexity, a neural network with more than two layers. Deep neural networks use sophisticated mathematical modeling to process data in complex ways.

A deep neural network is beneficial when you need to replace human labor with autonomous work without compromising its efficiency. The deep neural network usage can find various applications in real life. For example, a Chinese company Sensetime created a system of automatic face recognition system to identify criminals, which uses real-time cameras to find an offender in the crowd. Nowadays, it has become a popular practice in police and other governmental entities.

Deep Learning Neural Network

● Input Layer ● Hidden Layer ● Output Layer

ARTICLE

The American company Pony.ai is another example. They developed a system for AI cars that can work without a driver. It requires more than just a simple algorithm of actions, but a much deeper learning system, which should be able to recognize people, road signs and other markings like trees, and other important objects.

Two popular deep neural networks are

1) CNNL Convolution neural network: Recognition of Objects
2) RNN- Recurrent neural network: Remembering

A **CNN** will learn to recognize patterns across space while **RNN** is useful for solving temporal data problems. CNNs have become the go-to method for solving any image data challenge while **RNN** is used for ideal for text and speech analysis.

	Convolutional neural network (CNN)	Recurrent neural network (RNN)
ARCHITECTURE	Feed-forward neural networks using filters and pooling	Recurring network that feeds the results back into the network
INPUT/OUTPUT	The size of the input and the resulting output are fixed (i.e., receives images of fixed size and outputs them to the appropriate category along with the confidence level of its prediction)	The size of the input and the resulting output may vary (i.e., receives different text and output translations—the resulting sentences can have more or fewer words)
IDEAL USAGE SCENARIO	Spatial data (such as images)	Temporal/sequential data (such as text or video)
USE CASES	Image recognition and classification, face detection, medical analysis, drug discovery and image analysis	Text translation, natural language processing, language translation, entity extraction, conversational intelligence, sentiment analysis, speech analysis

EDITORIAL BOARD

PROF. VARSHA PATIL   **PROF. KRANTI BADE**

Editorial Board:

- Dr. Aparna Bannore [HoD]
- Dr. Varsha Patil [Assistant Professor]
- Ms. Kranti Bade[Assistant Professor]
- Students Members: Ashish K., Suyash J.

Editorial board is glad to release the current issue of our Department Newsletter August 200. We appreciate the efforts taken by the editorial board in compiling useful information & activities by department. The contribution and dedication of faculty members, students is continuously helping the newsletter in stepwise manner for achieving new milestone.

Newsletter divulge that the department is trying hard to achieve various dimensions such as academic, co-curricular and extra co-curricular activities.