

NEWSLETTER

Second Half 2019



Dr. Aparna Bannore
(HOD)
Department of
Computer Engineering

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.

COMPUTER ENGINEERING DEPARTMENT SIES GRADUATE SCHOOL OF TECHNOLOGY, NERUL VOLUME 3 ISSUE 2

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.

Program Educational Objectives (PEOs)

- Practice Computer engineering in core and multi-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 acquaint 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, NLP
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 Thakare	BE(IT)ME()	Assistant Professor	Machine Learning, Data Science, Embedded System, Internet of things
18	Mr. Amit Pandhare	B.E. M.E. CSE)	Assistant Professor	Data Science , Big Data Analytics
19	Ms. Vaishali Bhujade	M.E (CSE)	Assistant Professor	Software Engineering, Machine Learning

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

Ph. D. Completion

- Prof. Rajesh Kadu has completed his Ph.D. in from Amravati University in the month of May 2019.
- Prof. Aparna Bannore has completed her Ph.D. in Computer Engineering & Technology from Mumbai University in the month of September 2019.
- Prof. Varsha Patil has completed her Ph.D. in Computer Engineering & Technology from Mumbai University in the month of September 2019.
- Prof. Deepti Reddy has completed her Ph.D. in Education Technology from IIT Bombay in the month of November 2019.

FACULTY ACHIEVEMENTS

PAPERS PUBLICATION

- Dr. Varsha Patil has successfully published a paper on ,“Modified CSLBP”, International Journal of Electrical & Computer Engineering (2088-8708).[Scopus indexed journal], August 2019.
- Dr. Varsha Patil has published the paper entitled, “Adaptive CSLBP compressed image hashing”, International Journal of Electrical & Computer Engineering (2088-8708). Scopus indexed journal, August 2019.
- Prof. Kalyani Pampattiwar, Prof. Masooda Modak, Prof. Namrata Patel have presented paper titled “Preserving Privacy of data in distributed system using homomorphic encryption” in ICACIE 2019 Springer.
- Dr. Rizwana Shaikh has published paper titled, “ GIS based FIR and SOS System” in International Conference on Intelligent computing and Smart Communication Technologies”, Springer, August 2019.
- Prof. Pranita Mahajan has published paper titled“, Text Mining in Healthcare” in International Conference on Data Engineering and Communication Systems ELsevier Scopus, Dec 2019.

FACULTY ACHIEVEMENTS

PAPERS PUBLICATION

- Prof. Suvarna Chaure has published paper titled ,“ Implementation of Blockchain for Payroll Taxation”, in International Conference on Research and development in Engg and technology ICRDETMS-2019 ISBN-13-9781677031795, Dec 2019.
- Prof. Ujwala Ravale has published paper titled, “Novel Hybrid Security Model in Cryptography”, International Journal of Research and Analytical Reviews (IJRAR), E-ISSN 2348-1269, P-ISSN 2349-5138.
- Prof. Preeti Godbole has published paper titled, ”Fault Tolerant Scheduling in mixed critical systems, A case study”, IEEE conference, ISED Amrita Vidyapeetham, Kollam, India, Oct 2019..
- Prof. Aparna Bannore has published paper titled, “Use of Honey-pot to secure IoT Network”,JETIR - Journal of Emerging Technologies and Innovative Research,July 2019.
- Prof. Sunil Punjabi Presented and published paper “Chat bot Using API : Human To Machine Conversation” in IEEE Global conference for advancement in Technology Bangalore, Oct, 2019.

FACULTY ACHIEVEMENTS

NPTEL and Other courses

- Prof. Varsha Patil achieved Topper 1 % in online NPTEL examination on "Fundamentals of Artificial Intelligence".
- Prof. Kalyani Pampattiwar has completed 12 Week FDP course on "Ethical Hacking" offered by NPTEL, IIT, Jul- Oct 2019.
- Prof. Masooda Modak has completed 12 Week FDP course on "Ethical Hacking" offered by NPTEL, IIT, Jul- Oct 2019.
- Prof. Ujwala Ravale has completed" 12 Week FDP course on "Ethical Hacking" offered by NPTEL, IIT, Jul- Oct 2019.
- Prof. Pranita Mahajan has completed online course by Udemy "Machine Learning with Python and NLP", 27 Dec 2019.

RESEARCH PROPOSALS

Prof. Rizwana Shaikh and Prof. Deepti Reddy submitted research proposal for minor Research Grant for 19-20 to Mumbai University.

WORKSHOP

- One day workshop on Linux conducted by Teaching learning centre ICT, coordinated by IIT Bombay under remote centre on 23 August 2019.
- One day workshop on R conducted by Teaching learning centre ICT , coordinated by IIT Bombay under remote centre on 9th November 2019.

Workshop/STTP Organized

- Prof. Rizwana Shaikh and Prof. Prachi Shahane organized one week AICTE-ISTE approved STTP on Cloud Computing and HPC, 09-14 Dec 2019.
- Prof. Rizwana Shaikh conducted AISC Orientation in RAIT as part of syllabus setter of AISC of Semester VII subject in July 2019.
- Prof. Rajesh Kadu organized awareness session for registering the students by Latesh Shetty, Assistant Manager NSDL e-Governance Infrastructure Limited. 12 students have received scholarship of Rs. 3 lakh 89 thousand.
- Prof. Rajesh Kadu organized Seminar on “Higher Education in Germany” for Mechanical and Electronics and Telecommunication students by Dr. Ulrich Bremer –Managing Director at Dresded International University, Germany.

Workshop conducted/ Paper presented

- Prof. Deepti Reddy designed and conducted SDP in collaboration with Educational Technology, IITB on Software Design for undergraduate engineering students from 16-21 Dec 2019.
- Prof. Rizana Shaikh presented poster on "Smart Transportation using Fog Computing" on 16 December 2019.
- Prof. Suvarna Choure judged the event 'PROJEXION' 19' on 22/10/19 at IT Dept.
- Prof. Deepti Reddy conducted a CS Education workshop for Engineering College Teachers in ACM Compute conference 2019 on 11 Oct, 2019.
- Prof. Prachi Shahane, has published paper on, "High Performance Computing with machine learning in healthcare, JOICS-Journal of Information and Computational Science, Jan 2020.

STTP

All faculty members have attended STTP on “Cloud Computing and High Performance Computing” from organized by Computer Engg. Dept.,SIES GST,nerul from 9th Dec to 14 Dec 2019.

SDP

- SDP on "Network Security and Ethical hacking" dated 16nd Dec and 21 Dec 2019 was conducted in collaboration with Unotech Soft Ltd, 9 th Legend.
- In winter vacation department has floated SDP's in various domains such as Software design and Thinking, R programming, Blockchain Technology to explore students to upcoming technologies needed by industry.
- To improve placements and technical skills of students, technical quizzes, aptitude lectures, weekly codechef activities followed by coding competition were conducted.

Innovation in education: The Sense of Urgency

Editor: Prof. Kalyani Pampattiwar

Innovation in education is a highly contentious issue. Talking to education ministers one quickly gets the impression that education systems in general are very reluctant to innovate, and that there is strong resistance to change among teachers. Education is sometimes perceived as one of the most conservative social systems and public policy fields. But talking to teachers gives one the opposite idea – that there are too many changes imposed on them without much consultation or the necessary preconditions for successfully implementing change. In some countries, innovative change has been implemented without the care and diligence needed or the appropriate prior testing, experimentation and evaluation.

five innovative teaching strategies that engage students: (1) inquiry-based learning, (2) QR codes, (3) problem-based learning, (4) wisely managed classroom technology, and (5) jigsaws. These teaching strategies encourage students to use their imagination to dig deep when engaging with the content of the lesson. The students are actively involved with the learning and can work with their peers in collaborative groups to showcase their learning.

STUDENT'S ACHIEVEMENTS

PAPERS PUBLICATION

- Kartik Rajesh, Aditya Kumar and Dr. Rajesh Kadu, "Fraudulent News Detection using Machine Learning Approaches", IEEE 2019 Global Conference For advancement in technology.
- Mahadevan N, Apurva M, Ajun Nair, Akhilesh P, Ashutosh D, "Plastic waste profiling using Deep Learning", Springer AG 2020 ICCVBIC 2019.
- Apurva M, Navin Kumar, Mahadevan N, Aaditya Gurav, Ajun Nair, Aakash Nair, "Using Deep Learning on Satellite Images to identify Deforestation/Afforestation", Springer AG 2020, ICCVBIC 2019.
- Jane Dsouza, Madhumita Murali, Meenakshi Sunder, Manisha C, "Predictive Maintenance Of Heavy Commercial Vehicles Using Machine Learning And Data Analytics", International Journal Of Information And Computing Science, Volume 6, Issue 1, July 2019.
- Ketan G, Aravind I, Siddhant , "Detection of Dyslexia using Eye Tracking Measures", Springer International Conference on International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume-8, Issue- 9S2, July 2019.

STUDENT ACHIEVEMENTS

Sr. No.	Student Name	Year/Sem.	Achievement (Curricular, Co-Curricular & Extra-Curricular)
1.	Shreya Mukherjee	SE/III	Awarded with 5% topper in the course "Programming In Java", NPTEL Jul-Oct 2019
2.	Venkatesh Murugesh, Adwait R, karthikraj, Vedant Balsubramaniam	BE/VII	Full time project trainee as NIC
3.	Sayali, Shantanu, Vyankatesh	BE/VII	CDAC-nVIDIA's "AI Hackathon 2019"
4.	Mr. Shubham Loya	SE/III	Won Tehnopoly under Tehopedia.
5.	Sanoop Menon	BE/VII	Codevita 1st round
6.	Yadvar Pavitra	BE/VII	Indian Folk Dance at District/Zonal Inter-Collegiate Youth Festival, University of Mumbai.
7.	Aakriti Pathak	BE/VII	District/Zonal Inter-Collegiate Youth Festival, University of Mumbai.

STUDENT ACHIEVEMENTS

Sr. No.	Student Name	Year/Sem.	Achievement (Curricular, Co-Curricular & Extra-Curricular)
8.	Senthil, Dhanjay, Tejas	TE/V	Won 1st Prize in WDL Project Competition
9.	Aditya P, Aakash Chavan	TE/V	Won the BUG4EVER coding competition
10.	Ninad Chavan	TE/V	Foundation certificate in CCDSAP from Codechef
11.	Vrunda M, Saail G	TE/V	Finalist of Anveshana project competition
12.	Karthikraj, Tirumalai, Senthil, Shweta, Varsha Kini, Aditya P, Aakash Chavan	TE/V	2nd Runner Up of Deep Blue project competition
13.	Abhishek Joshi	SE/III	Received NPTEL Elite certification for "Programming data structures and algorithms using Python"

STUDENT ACHIEVEMENTS

SR. NO.	NAME OF STUDENT	YEAR / SEMESTER	ACHIEVEMENT (CURICULAR, CO-CURRICULAR & EXTRA-CURRICULAR)
14.	Sayali Patil Shantanu Ghar Venkatesh A	BE/VII	1 st Runner up in I_Hack E-Cell IIT Bombay National 03rd Feb 2020
15.	Mansi Khamkar Vrunda Mange	TE/V	Consolation prize in Anveshna 2020 Science and Engineering Fair Mumbai Zonal 18th Feb 2020
16.	Shraddha Iyer Aparna Iyer	BE/VII	Byte Camp 20 Mumbai National 22-23 Feb 2020

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

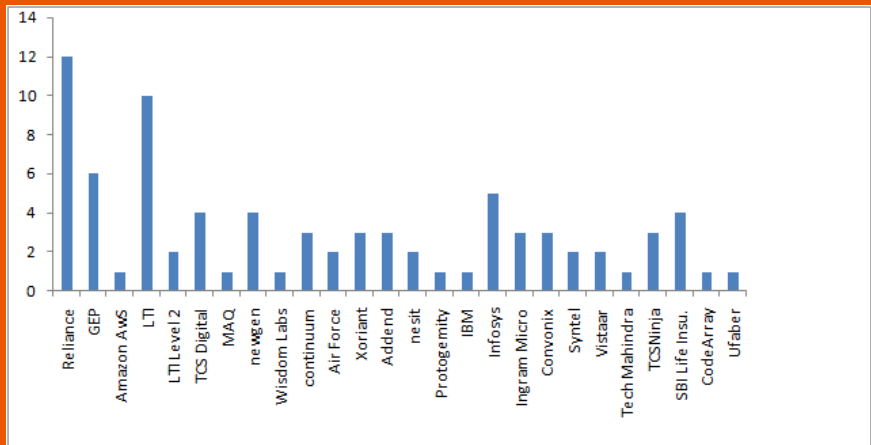
Students have completed internship program from various government organizations like BARC, Jacobs engineering (now Jacobs engineering), MicroPro Software Solutions Pvt Ltd, DXC Technology, Denkali, ILM UX Innovates, Indian Oil Corporation, Trivia Softwares, NVCARD.

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, Ufaber.



STUDENT TOPPERS



S.E.-SECOND HALF 2019 (Semester III)

Rank	Roll No.	Name of student	CGPI
1	118A1001	Aansh Sagar	10
1	118A1016	Aditya Borude	10
1	118A1017	Bubere Zainab	10
1	118A1019	Choudhary Dinesh	10
1	118A1038	Kulkarni Sanket Uday	10
1	118A1067	Rao Anandteertha	10
1	118A1072	Sangeeth Arun	10
1	118A1079	Aakriti Sharma	10
1	118A1083	Shreya Mukherjee	10

T.E.-SECOND HALF 2019 (Semester V)

No.	Roll No.	Name of student	CGPI
1	117A1074	Tejas Shenoy	10
2	117A1028	Riya Kale	9.85
3	117A1032	Varsha Kini	9.85
4	117A1060	Dhananjaya Rao	9.41

B.E.-SECOND HALF 2019 (Semester VII)

Rank.	Roll No.	Name of student	CGPI
1	116A1031	Jagtap Neha	9.62
2	116A1029	Iyer Aparna	9.58
3	116A1047	Mudaliar Navin Kumar	9.5

STUDENT ARTICLE

Quantum Computers Finally Beat Supercomputers in 2019

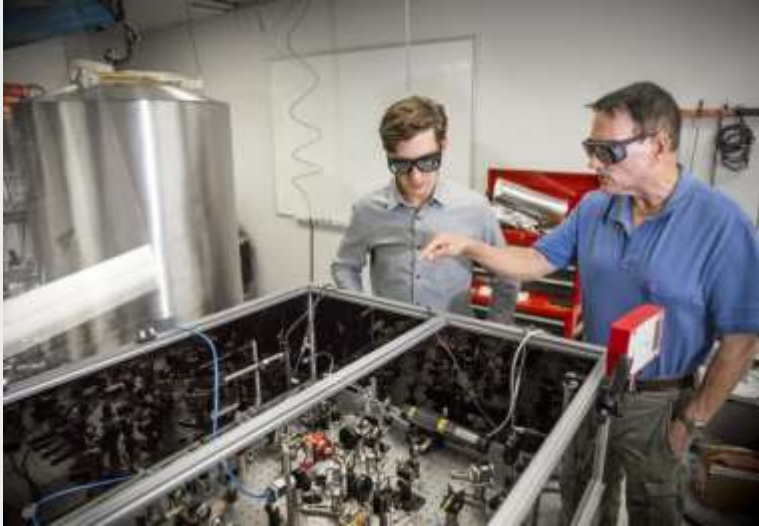
Editor: Aditya Parthasarathy

Quantum Computing, still an emerging technology, is one of the most fascinating things researchers, organizations, and governments have been working on in this century so far. The race toward building the first fully-functional, fully-working quantum computer (also called supercomputer) is on.

With its impressive computational power quantum computers will most like be a cloud service in the near future rather than on-premise machines. IBM is already offering cloud-based quantum computing services.

The first quantum computer is going to have a significant advantage over the others. In 2019, the competence to achieve supercomputer supremacy will intensify. As a consequence, the last mile in the race will remain mostly secretive, for obvious reasons.

STUDENT ARTICLE



Engineers test the accuracy of quantum computing chips by using them to solve a problem, and then verifying the work with a classical machine. But in early 2019, that process became problematic, reported Neven, who runs Google’s Quantum Artificial Intelligence Lab. Google’s quantum chip was improving so quickly that his group had to commandeer increasingly large computers – and then clusters of computers – to check its work. It’s become clear that eventually, they’ll run out of machines.

EDITORIAL BOARD



PROF. VARSHA PATIL



PROF. KRANTI BADE

Editorial Board:

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

Editorial board is glad to release the current issue of our Department Newsletter January 2020. 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.