NEWS-LETTER

Second Half 2022

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 6 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 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	Professor	Cyber security and Signature security.
2	Dr. Rizwana Shaikh	B.E(I.T), M.E(CE), Ph.D	Associate Professor	Cloud Computing and Security
3	Dr. Deepti Reddy	B.Tech, M.E (CE), Ph.D	Associate Professor	Semantic web, Intelligent Tutoring System, Engineering Education, Educational Technology.
4	Dr. Varsha Patil	B.E, M.E (CE),Ph.D	Associate Professor	Image Processing, Data Mining, Machine Learning, Natural Language Processing
5	Mrs. Prachi Shahane	B.E(CSE) ,M.E (CE), Ph.D*	Assitant Professor	Artificial Intelligence, Internet Of Things
6	Mrs. Suvarna Chaure	B.E(CSE),M.E (CE), Ph.D*	Assitant Professor	Security
7	Mr. Sunil K Punjabi	B.E, M.E (CE)	Assitant Professor	Software Engineering
8	Ms. Ujwala Ravle	B.E, M.E (CE), Ph.D*	Assitant Professor	Network Security, Machine Learning
9	Ms. Kalyani Pampattiwar	B.E. (CSE), M.E (CE), Ph.D*	Assitant Professor	Security, Data Mining
10	Ms. Namrata Patel	B.E., M.E (CE), Ph.D*	Assitant Professor	Web Mining

FACULTY PROFILE

No	Name	Qualification	Designation	Area of Interest
11	Ms. Kranti Bade	B.E.(IT), M.E(CSE)	Assitant Professor	Data Mining
12	Ms. Masooda Modak	B.Tech (IT), M.E (CE), Ph.D*	Assitant Professor	Learning Analytics, Data Mining, E-learning
13	Ms. Anindita A Khade	B.E, M.E (CE),Ph.D*	Assitant Professor	Machine Learning, Data Analytics, Data Mining
14	Ms. Aarthi Boyanapalli	B.E, M.E (CE), Ph.D*	Assitant Professor	Computer Network
15	Ms. Urvashi Patekar	B.E, M.E (CE)	Assitant Professor	Cyber Security And Block Chain
16	Mrs. Poonam Jadhav	BE(IT),ME(IT),Ph.D *	Assitant Professor	Data Science, Artificial Intelligence
17	Mrs. Rina Bora	BE(CE), ME (CE), Ph.D*	Assitant Professor	Artificial Intelligence, Web Programming
18	Mr. Swapnil Wani	BE(CE), ME (CE)	Assitant Professor	DBMS, Software Engineering, OS
19	Ms. Jyoti Chavan	BE(CE), ME (CE),Ph.D*	Assitant Professor	Data Science, Artificial Intelligence
20	Mrs. Reshma Rohan Koli	BE(IT),ME(IT),Ph.D *	Assitant Professor	Software Engineering,Data Security,Web Programming

NON TEACHING STAFF

Sr.No	Name	Roles
1	Mr. Srinivas B.	Lab-Attendent
2	Mr. Saikrishna J.	Network Administrator
3	Mr. Bhagyashal W.	Lab-Assistance
4	Mr. Sudhir P.	Lab-Assistance

CLASS STRENGTH

Year	Total Strength	Girls	Boys
SE	126	37	89
TE	106	37	69
BE	107	43	64

FACULTY ACHIEVEMENTS

BOOK CHAPTERS/PATENT/OTHERS

1. Dr. Aparna Bannore delivered technical talk on “Proxy Signature and Forensics” in IEEE sponsored FDP on “Research and Emerging Trends in Digital Forensics” on July 15,2022.

2. Dr. Rizwana Siddiqui filed and published a patent “An Ameliorated Electronic Mail Management System and Method” on 10 Oct 2022.

3. Dr. Rizwana Siddiqui mentoring and working on two Industry projects on Blockchain and Cloud Computing along with the students.

4. Dr. Deepti Reddy published a provisional patent on “: A LOW-DENSITY POLYETHYLENE (LDPE) SORTING SYSTEM” in July 2022.

5. Dr. Aparna, Prof. Suvarna, Prof. Ujwala conducted a Value added course on Ethical Hacking and Security during June 27 to July 2, 2022.

FACULTY ACHIEVEMENTS

BOOK CHAPTERS/PATENT/OTHERS

6. Prof. Kalyani Pampattiwar published a Book chapter titled,"Security and Privacy Facets of Electronic Health Record" in a book titled Unleashing the potentials of Blockchain Technology for Healthcare Industries.

7. Prof. Kalyani Pampattiwar filed for a software copyright dated 7 Dec 2022. Current status is under Scrutiny.

FACULTY ACHIEVEMENTS

PAPERS PUBLICATIONS

1. Dr.Aparna Bannore presented and published a paper titled "A Garbage Profiling System Using Mask R-CNN Deep Learning Algorithm," 2022 International Conference for Advancement in Technology (ICONAT), Goa, India,Dec2022.

2. Dr. Deepti Reddy published paper on “Student Behavior Models in Ill-structured Problem-Solving Environment” in the International Conference on Artificial Intelligence in Education AIED2022 in June 2022, and published in Lecture Notes in Computer Science, vol 13355. Springer, Cham. https://doi.org/10.1007/978-3-031-11644-5_46.

3. Dr. Varsha Patil published a paper titled “Real time convolution neural network for emotion classification” in international conference Breakthrough in Heuristics and Reciprocation of advanced technologies on April 7-8, 2022.

FACULTY ACHIEVEMENTS

PAPERS PUBLICATIONS

4. Dr. Varsha Patil published 4 papers titled “Real time water quality management using IoT”, “Eye disease classification using Deep neural network”, “Picking Robot”, “Fire and smoke detection system” in international conference on trends in Engineering, Applied science and management IC Team 2022 on April 8-9, 2022. The paper titled “Eye disease classification using Deep neural network” got the Best paper Award.

5. Prof. Sunil Punjabi and Prof. Suvarna Chaure presented a paper in IEEE , 2nd International Conference on Intelligent Technologies titled “Forensic Intelligence- Combining Artificial Intelligence with Digital Forensics” on June 15-17, 2022.

6. Prof.Suvarna Chaure Presented a Paper on " Vaccine Supply Mgmt" IEEE, IC3SIS on 23rd June 2022.

7. Prof. Kalyani Pampattiwar Paper titled- “An empirical evaluation of blockchain security models from a fuzzy statistical perspective in peer reviewed journal " International Journal. Of Blockchain and Cryptocurrencies " by Inder science

FACULTY ACHIEVEMENTS

PAPERS PUBLICATIONS

8. Prof. Anindita Khade published one research paper in Scopus indexed book “Intelligent Systems for Data Science” on 15th August 2022.

9. Prof. Anindita Khade published one research paper in IEEE conference-21 September 2022

STUDENT DEVELOPMENT PROGRAM (SDP)

Workshops/Seminars

1. To improve problem solving, coding and soft skills in students, Conducted Workshop on "**Web Development**" on 30th September by **Mr.Abhishek Joshi, Mr.Anirudh Belwadi**, for second year and third year computer engineering students. Students were introduced to MernStack which is a very efficient web development framework where we can combine systems like MongoDB, Bootstrap, and Express in order to develop efficient and responsive websites that are cross-platform compatible.

STUDENT DEVELOPMENT PROGRAM (SDP)

Value Added Courses

1. **Advanced Java** : The Department of Computer Engineering organized a Value added course on “Advanced Java Programming '' for the Second year and third year engineering students, for duration 25 Dec 2022- 29 Dec 2022. The course was delivered by faculty members of the computer engineering department and by industry resource person Mr.Piyush Atram,Tata Digital.

2. **Web and Mobile application development**: The Department of Computer Engineering organized a Value added course on “Web and Mobile application development “ for the Second year and third year engineering students, in Dec 2022.

3. **Competitive coding:** The Department of Computer Engineering organized a Value added course on “Competitive coding” for the Second year and third year engineering students, in Dec 2022.

FDP Attended by Faculty

1. Prof. Rina Bora attended online FDP on “Building Resilience at Workplace” at Amity University, Maharashtra from 9 Aug to 12 Aug 2022.

2. Prof. Rina Bora attended Six days National Level Workshop on MOODLE-LMS from 21-12-22 to 26-12-22.

3. Prof. Namrata Patel attended Six days National Level Workshop on MOODLE-LMS from 21-12-22 to 26-12-22 .

4. Prof. Ujwala Ravale Attended STTP on "Technology for Entrepreneurship" from 12th December to 17th December 2022.

5. Prof. Kalyani Pampattiwar attended STTP on entrepreneurship at RAIT, Nerul, from 12 dec to 17 dec 2022.

FDP Attended by Faculty

6. Mrs. Jyoti Chavan attended ISTE approved FDP on " Blockchain and DLT, from 02 January to 07 January 2023, which was conducted by Xavier Institute of Engineering, Mahim, Mumbai.

7. Mrs. Reshma Rohan Koli attended ISTE approved FDP on " Blockchain and DLT, from 02 January to 07 January 2023, which was conducted by Xavier Institute of Engineering, Mahim, Mumbai.

ARTICLE

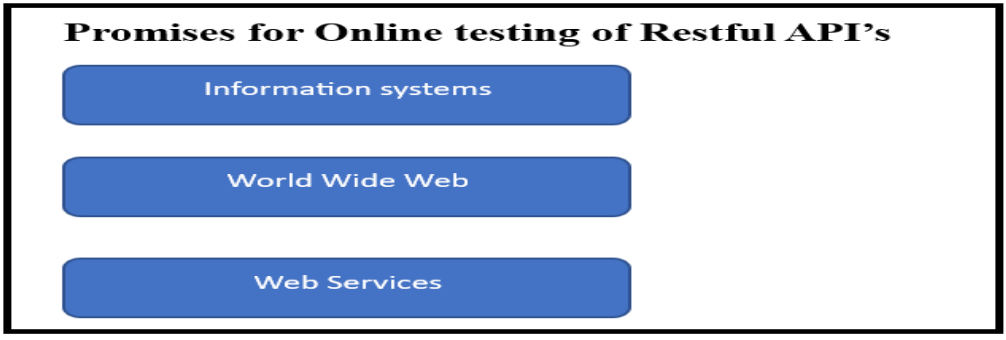
Faculty Article

REST APIs' Open Issues, Challenges, and Research Directions

Editor: Prof. Namrata Patel

REST APIs for development exhibit many different forms. Multiple organizations have utilized a variety of techniques, frameworks, and approaches. Due to this diversity and flexibility, organizations are not required to adhere to a particular framework or technique are not required to adhere to a particular framework or technique because of this diversity and flexibility. This has resulted in testing-specific difficulties.

It is discovered that supporting authentication when creating unit tests for REST APIs was one of the biggest obstacles. It is challenging to automate the production of unit tests because there are so many different authentication methods in use today. It has become even more challenging to develop a general unit test generation framework that supports authenticated REST APIs because organizations typically do not discuss how authentication has been implemented, and it is constantly changing. Future research on this has been suggested in some recent studies. The attained code coverage is inadequate because authorized or protected REST APIs' endpoints are not included in test case generation; this is the second most common issue. This has established an approach for future research that will examine potential common and baseline standards utilized for implementing authentication. This investigation led to the idea to develop the authentication support for REST API testing as a pluggable module for future development.



STUDENT ACHIEVEMENTS

Sr.No	Name of the student	Name of the achievement	SE/TE/BE
1	K Gauri, Pournami Pottekat, Kunal Soni and Kartekeyaan Raghavan	Won cash prize of 5000/- being finalist in PRISM 2022 an AI based competition. Jan 2022.	BE
2	Sarvesh Moraskar Gaurav Karande	1st prize in Enigma-National Level Poster Presentation Competition, 28 Jan 2023	BE
3	Aniruddha Patil and Sahil Pillai from CE Department	won the Champions Cup which was held on 1st and 3rd October.	BE
4	Aniruddha Patil and Sahil Pillai team from CE Department	won the ICON inter-collegiate cricket tournament which was held on 25th and 26th November 2022.	BE
5	Samiksha Iyengar	Consolation in Cartooning- MU Youth festival	SE
6	Sridhar Ananyaa	FIRST RANK in Indian Classical Vocal Solo competition- MU Youth Festival	TE

INTERNSHIP & PLACEMENTS

INTERNSHIPS

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

PLACEMENTS

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 **academic year 2022-2023**, students are placed in companies like **Connect-wise, nvent, jio platforms, zeus learning, link-group, newgen technologies, LTI, TCS, Capgemini, Tech Mahindra, Wipro, Code array, GEP, Xoriant, Hexaware, Perkin Elmar, Neosoft, Quinnox, Ideaforge, infosys, etc.**

INTERNSHIP & PLACEMENTS

PLACEMENTS

Sr. No	Batch	Total strength	Eligible	Placed
SH 2022	Batch 2023 passout	107	81	55

STUDENT TOPPERS

S.E. – SECOND HALF 2022 (Semester III)

Overall Toppers

Sem	Rank	Name of the Student	Roll No	Percentage/ CGPI
III	1	TEMGIRE DEVDATTA RAMDAS SANGEETA	121A1113	9.61
III	2	VATTURKAR KETAKI RITESH JYOTI	121A1119	9.52
III	3	RAO BHARAT VINOD VISHALAKSHI	121A1015	9.35
III	3	VEDANT VILAS KESARKAR VAISHALI	121A1120	9.35
III	3	NADAR SRIJA SUYAMBU PAPPA	121A1064	9.35

Subject Toppers

Sem	Rank	Name of the Student	Roll No	Percentage/ CGPI
III	1	TEMGIRE DEVDATTA RAMDAS SANGEETA	EM -III	83
III	2	PRANITHA RASMICA SUKUMAR KANNAGHI SUKUMAR		80
III	1	ALISHA FATIMA NIKHAT FATHIMA	DSGT	84
III	2	NANDE SANIYA RAJESH KALPANA		81
III	1	RAO BHARAT VINOD VISHALAKSHI	DS	93
III	1	KADAM SAKSHI SHANKAR RATAN		93
III	1	IYER JAYARAM SHIVRAJ MEENAKSHI		93
III	2	AAHANA SUNIL BOBADE PRIYANKA		91
III	2	TILAKSHANKAR SAKTHIKUMAR SHANTHI		91
III	2	BIRAJDAR ANNARAJ MAHESH APARNA		91
III	1	NADAR SRIJA SUYAMBU PAPPA	DLCOA	87
III	2	MANASI MARUTI VANAVE MANISHA		86
III	3	TEMGIRE DEVDATTA RAMDAS SANGEETA		85
III	1	MANASI MARUTI VANAVE MANISHA	CG	90
III	2	NADAR SRIJA SUYAMBU PAPPA		83
III	2	JOSHI NIMISHA NITIN NEHA		83

ARTICLE

Student Article

QUANTUM COMPUTING, MYTH, OR REALITY?

Editor: Ananya Maurya –TE-CE

IS QUANTUM COMPUTING REAL?

Don't fall for Quantum Hype, the quantity of corporations differs kindly from nation to nation, however, they generally include exploration applications on four essential motifs. That is: quantum computing, quantum net, quantum metrology, and quantum simulations. Quantum computing is one of the most intriguing tendencies in the foundations of physics now. At large it can speed up computation because it doesn't work with " bits " that have values of both zero or 1, however with amount bits – "qubits" for short – that may be entangled, and can take on any fee in between 0 and 1. Computers can do positive computations faster than conventional computers. This velocity- up only works for positive styles of computations. Quantum computer systems previously live and thus far they work as prognosticate. The hassle with large computer systems is that for them to return commercially beneficial, you need to be suitable to convey a big range of qubits into controllable quantities at international locations. Estimates say,1,000,000, and info relies on the satisfactoriness of qubits and the trouble you are attempting to interrupt. So, the most important query for quantity computing isn't always " does it work ?" We realize it works. The query is '' Will it gauge "? Quantum computing is analogous to the state of affairs for nuclear emulsion 50 times agone. The problem was ''simply " to make the technology big and nonetheless powerful enough to honestly be useful. We certainly will in the end use each nuclear emulsion and amount of computing in normal life.

QUANTUM INTERNET

Quantum internet the amount net refers to statistics transmitted with amount items. This indicates most importantly, the internet uses quantity cryptography as a protection protocol. Quantum cryptography is a system to make statistics switch secure with the aid of exploiting the reality that during quantum mechanics, a size irreversibly adjusts the nation of an amount of flyspeck.

ARTICLE

Student Article

QUANTUM METROLOGY

Quantum metrology is a group of approaches to ameliorate measures by assisting quantity goods. The word " metrology " implies that this exploration is ready for measurement. Quantum metrology has currently seen pretty many exploration trends that we count on to come back useful quickly in areas like medicine or material understanding. That's because one of the primary advantages of quantum measures is they could make do with many patches, and that means minimum harm to the sample.

QUANTUM SIMULATIONS

Now, Quantum simulations are brisk from the perspective of introductory exploration, due remarkable deal. For instance, faux patches are analogous to the Higgs or certain types of neutrinos. Nonetheless, the quantum simulations are doubtful to have a technological impact any time soon, and, what's worse, they have been oversold by way of some human beings inside the community. Especially all the communication about bluffing wormholes is gibberish. Those simulated " wormholes " don't have anything in common with actual wormholes that, in if you missed it, we have the right cause to suppose they don't live in the first place. In conclusion quantity simulations are brisk for the maximum component, but if someone starts off evolving prattling about wormholes, that is not severe expertise..

EDITORIAL BOARD

Prof. Reshma R Koli

Editorial Board:

- **Dr. Aparna Bannore [HoD]**
- **Mrs. Reshma Koli**
- **Students Member: Mst.Ganeshraman Pillai**

Editorial board is glad to release the current issue of our Department Newsletter Dec 2022. 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.