NEWS-LETTER

First Half 2023

FROM THE HOD's DESK

Department of Computer Engineering of SIES GST started in year 2003 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 7 ISSUE 1

VISION

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

MISSION

- 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.

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	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. Varsha Patil	B.E, M.E (CE),Ph.D	Associate Professor	Image Processing, Data Mining, Machine Learning, Natural Language Processing
4	Mrs. Prachi Shahane	B.E(CSE) ,M.E (CE), Ph.D*	Assitant Professor	Artificial Intelligence, Internet Of Things
5	Mrs. Suvarna Chaure	B.E(CSE),M.E (CE), Ph.D*	Assitant Professor	Security
6	Mr. Sunil K Punjabi	B.E, M.E (CE)	Assitant Professor	Software Engineering
7	Ms. Ujwala Ravle	B.E, M.E (CE), Ph.D*	Assitant Professor	Network Security, Machine Learning
8	Ms. Kalyani Pampattiwar	B.E. (CSE), M.E (CE), Ph.D*	Assitant Professor	Security, Data Mining
9	Ms. Namrata Patel	B.E., M.E (CE), Ph.D*	Assitant Professor	Web Mining

FACULTY PROFILE

No	Name	Qualification	Designation	Area of Interest
10	Ms. Kranti Bade	B.E.(IT), M.E(CSE)	Assitant Professor	Data Mining
11	Ms. Masooda Modak	B.Tech (IT), M.E (CE), Ph.D*	Assitant Professor	Learning Analytics, Data Mining, E-learning
12	Ms. Anindita A Khade	B.E, M.E (CE),Ph.D*	Assitant Professor	Machine Learning, Data Analytics, Data Mining
13	Ms. Aarthi Boyanapalli	B.E, M.E (CE), Ph.D*	Assitant Professor	Computer Network
14	Ms. Urvashi Patekar	B.E, M.E (CE)	Assitant Professor	Cyber Security And Block Chain
15	Mrs. Poonam Jadhav	BE(IT),ME(IT),Ph.D*	Assitant Professor	Data Science, Artificial Intelligence
16	Mrs. Rina Bora	BE(CE), ME (CE), Ph.D*	Assitant Professor	Artificial Intelligence, Web Programming
17	Mr. Swapnil Wani	BE(CE), ME (CE)	Assitant Professor	DBMS, Software Engineering, OS
18	Ms. Jyoti Chavan	BE(CE), ME (CE),Ph.D*	Assitant Professor	Data Science, Artificial Intelligence
19	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	Hanumanta Kaki	Lab-Attendent
3	Mr. Bhagyashal W.	Lab-Assistance
4	Tanvi	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 published Conference paper presented with title on Smart Traffic Light system using SUMO simulator

2. Dr. Aparna Bannore published paper on JESTR –Scopus indexed Journal Title " Security of Medical Internet of Things (MIoT)- A Biblimetric Analysis"

3. Dr. Rizwana Siddiqui published research paper on Decentralized Fille Sharing using Block- chain Emp- owering Peer-to-Peer Collaboration: The Rise of Decentralized File Sharing-IJERT May 2023.

4. Dr. Rizwana Siddiqui published research paper Waste Segregation Using Image Detection and IOT 3) Autoscaling of Cloud resources, IJERT.

5. Dr. Rizwana Siddiqui published research paper on Supervised Satellite image retrieval using defined pattern with ASMC- IEEE,

6. Dr. Rizwana Siddiqui published research paper on Automated Front-End Code Generation Using Deep Learning- ICREACT 23.

7. Dr. Rizwana Siddiqui published research paper Web-Developement Learning Platform With Project Based Approach- ICREACT 23.

FACULTY ACHIEVEMENTS

BOOK CHAPTERS/PATENT/OTHERS

8. Prof. Suvarna Chaure published Journal paper on "Analytics of Crime Against Women Using ML Algorithms"

9. Prof. Suvarna Chaure Presented Paper on " Emotion based song recommender System" on 13th May 2023

10. Dr. Varsha patil published a paper on Deep Learning and Binary Representational Image Approach for Malware Detection.

11. Dr. Varsha patil published a paper International Conference paper on Personality Prediction for CV Analysis.

12. Prof. Ujwala Ravale published a conference paper based on "An Interactive Game Based Learning Model for Autistic Children.

13. Prof. Ujwala Ravale published a Conference paper on Optimizing the KYC Verification System using Ethereum Blockchain.

14. Prof. Ujwala Ravale published a Book chapter on breast cancer Prediction using different machine learning Algorithms.

15. Prof. Kalyani Pampattiwar published a paper on Journal paper published on CBSOACH: design of an efficient consortium blockchain-based selective ownership and access control model with vulnerability resistance using hybrid decision engine

FACULTY ACHIEVEMENTS

PAPERS PUBLICATIONS

16. Prof. Kalyani Pampattiwar published paper on "A survey: Blockchain enabled land registration and agricultural supply chain management".

17. Prof Kalyani Pampattiwar published Book chapter on Security and Privacy Facets of Electronic Health Record.

18. Prof. Namrata Patel published paper on Journal paper on A Systematic Review of Privacy Preservation Models in Wireless Networks.

19. Prof. Masooda Modak published paper on Journal published on Design of a Deep-Learning Model to Improve Learning Capabilities of LD Children via Statistical Modelling of Examination Behavioral Patterns.

20. Prof Anindita Khade published paper on A hybrid model for predicting COPD using CNN- IEEE 06th May 2023

21. Prof Anindita Khade published paper on Mitigating Cross Site Request Forgery Threats in the Web- IEEE 11th May 2023

22. Prof Anindita Khade published paper on FFN-XGB Design of a hybrid model for prediction of Chronic Kidney Disease- Springer Nature. 22nd June 2023.

FACULTY ACHIEVEMENTS

PAPERS PUBLICATIONS

23. Prof. Arathi Boyanpalli published paper on "Journal paper on Ovarian cancer detection in computed tomography images using ensembled deep optimized learning classifier

24. Prof. Urvashi Patkar published a Journal paper on Literature Survey of Plastic Waste management

25. Prof. Urvashi Patkar published a Journal paper on Plastic waste management using machine learning

26. Prof. Rina Bora Published a Journal paper on A detection of tomato plant diseases using deep learning MNDLNNclassifier.

STUDENT DEVELOPMENT PROGRAM (SDP) ☰

Workshops/Seminars

1. To improve problem solving, coding and soft skills in students, nducted 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. **Ethical Hacking and Digital Forensics**: The Department of Computer Engineering organized a Value added course on "Ethical Hacking and Digital Forensics'' for the Second year and third year engineering students, for duration 26 June 2023- 1st July 2023. The course was delivered by faculty members of the computer engineering department and by industry resource person.

2. **Data visualization using Data Science**: The Department of Computer Engineering organized a Value added course on "Data visualization using Data Science " for the Second year and third year engineering students, in June 2023.

3. **Augmented Reality and virtual Reality:** The Department of Computer Engineering organized a Value added course on "Augmented Reality and virtual Reality" for the Second year and third year engineering students, in Dec 2022.

FDP Attended by Faculty

1. Prof. Aparna Bannore attended atended FDP on FDP on "Design &   Development of MOOC: Series -I",   March 02, 2023

2. Dr. Rizwana Shaikh, Massoda Modak and Ujwala Ravale attended FDP on "Design & Development of Massive Open Online Course: Series I", on March 2 , 2023.

3. Dr. Rizwana Shaikh, Massoda Modak and Ujwala Ravle attended FDP on "Design & Development of Massive Open Online Course: Series II", on March 14 ,2023

4. Prof. Anindita Khade attended STTP on Demystifying Deep Learning conducted   by FCRIT   Vashi from 02/01/2023 to 06/01/2023

5. Prof Suvarna Chaure, Sunil Panjabi, Arathi, Boyanpalli, Anindita Khade, Reshma Koli and Urvashi Patkar attended FDP   on   "Design & Development   of Massive Open Online Course: Series I", on March 2 , 2023.

6. Prof Suvarna Chaure, Sunil Panjabi, Arathi Boyanpalli, Anindita Khade, Reshma Koli and Urvashi Patkar attended FDP   on   "Design & Development   of Massive Open Online Course: Series II", on March 14, 2023.

FDP Attended by Faculty

7. Prof Kranti Bade, Prachi Shahane, Kalyani Pampattiwar Varsha Patil, Rina Bora, Poonam Jadhav & Namrata Patel attended FDP on "Design & Development of Massive Open Online Course: Series I", on March 2 , 2023.

8. Prof Kranti Bade, Prachi Shahane, Kalyani Pampattiwar Varsha Patil, Rina Bora, Poonam Jadhav & Namrata Patel attended FDP on "Design & Development of Massive Open Online Course: Series II", on March 2 , 2023.

9. STTP on AR/VR from 19th June to 23rd June was organized for faculty members at SIES GST.

STUDENT ACHIEVEMENTS

Sr.No	Name of the student	Name of the achievement	SE/TE/BE
1	Gaurav Karande Sarvesh M	**2nd prize in ENIGMA-A National Level Poster Competition**	**BE**
2	Sahil Shaikh Varun Sondur	**Won Encouragement Award in Anveshna 2023**	**TE**
3	Anushka T Sanskruti W Shinit Shetty	**Runner up in Texter 2023-National Level Paper Presentation and In Innovations**	**BE**
4	Kunal Soni Pournami P Kartekeyan R K Gauri	**Winners in Texter 2023 National Level Paper Presentation**	**BE**
5	Rohan Wandre	**National level hackathon at M.H. Saboo Siddik College**	**SE**
6	Dhiraj Shriyan	**2nd Runner up Team Turbocrafters Finalist s-BAHA SAEIndia**	**SE**
7	Jatin Iyer Sridhar Iyer Vasu Venkateshwar	**Best Paper Award-ICREACT 23-Kachrabot**	**BE**

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 2023-2024**, 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

	BATCH	TOTAL	ELIGIBLE	PLACED
FH2023	2023	107	81	55

STUDENT TOPPERS

S.E. – FIRST HALF 2023 (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

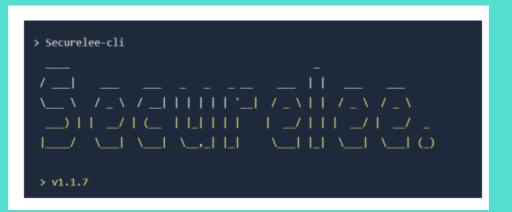| Sem	Rank	Name of the Student	Roll No	Percentage/CGPI
III	1	TEMGIRE DEVDATTA RAMDAS SANGEETA	EM -III	83
III	2	PRANITHA RASMICA SUKUMAR KANNAGHI SUKUMAR		80
III	1	ALISHA FATIMA NIKHAT FATHIMA	DSGT	84
III	2	NANDE SANIYA RAJESH KALPANA		81
III	1	RAO BHARAT VINOD VISHALAKSHI	DS	93
III	1	KADAM SAKSHI SHANKAR 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

Safeguarding Secrets: A Comprehensive CLI App for Sensitive Secrets and Cryptographic Key Handling

1. INTRODUCTION

"Empower Your Data Security with Securelee Vault CLI" In a digital landscape brimming with sensitive data, managing and safeguarding crucial secrets and cryptographic keys is more crucial than ever. Enter Securelee Vault, a robust CLI tool meticulously crafted using Golang and Pangea services. It's designed to simplify, secure, and streamline the storage, management, and retrieval of sensitive data. Securelee Vault offers an arsenal of commands, empowering users to safeguard their secrets with ease and confidence.

2. DESCRIPTION / PROPOSED METHODOLOGY

Tech Stack: • Go – The CLI is completely written in Golang using Cobra-cli framework. • Pangea cloud Securelee Vault is built on the solid foundation of

Golang and fortified with the robust capabilities of Pangea services. Its commands encompass a spectrum of functionalities: from creating and storing secret

messages or keys to retrieving, updating, and deleting them. A comprehensive lineup including "login" and "logout" functions ensures secure access control, empowering users to manage their data the way they prefer. This versatile CLI tool redefines user authentication with two options. The first leverages a seamless browser-based login, ideal for social logins, and the second provides email and password authentication directly through the terminal. The hallmark of Securelee Vault is its stellar error handling, enhancing the user experience with concise and actionable error messages.

Commands Includes:

1. Creating/Storing Secret: Users can create/add a secret with size: Minimum: 1 & Maximum: 10240.

2. Import/Generate Cryptographic Keys: Provides support for Symmetric and Asymmetric Key types and the corresponding features. (Public/Private Keys, Asymmetric: Signing/Encryption Keys)

3. Updating the Secret/Key: Update provides the feature to change the state of the secret/key, includes Active, Deactivated, Suspended, Compromised and Destroyed States.

4. Listing all Secrets/Keys: Lists all the Keys/Secrets along with their details (Name, Type, Purpose, Algorithm, State).

5. Get: Lists a Particular Secret/Key using the ID.

6. Delete Secret/Key: Removing a Secret/Key using the ID.

7. whoami: To get the Information about the current logged-in user.

8. version: To get the version of the CLI installed.

Siddhesh Khandagale

For more Detailed Information: Securelee Vault on GitHub Siddhesh Khandagale

EDITORIAL BOARD

Prof. Reshma R Koli

Editorial Board:

- **Dr. Aparna Bannore [HoD]**

- **Prof. Rasika Malgi and Prof. Anindita A Khade**

- **Students Member: Mst. Ganeshraman Pillai**

Editorial board is glad to release the current issue of our Department Newsletter June 2023. 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.