

# NEWSLETTER

## First Half 2018



Dr. Rizwana Shaikh  
(HOD)  
Department of  
Computer Engineering

## FROM THE HOD'S DESK

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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 2 ISSUE 1

### 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. | Ms. Aparna Bannore  | B.E(CSE) , M.E (CE),<br>Ph. D* | Associate Professor | Cyber security and Signature security.  |
| 2. | Mr. Rajesh Kadu     | B.E, M. Tech (CE),<br>Ph. D*   | Associate Professor | Cognitive Radio Network Security  |
| 3. | Dr. Rizwana Shaikh  | B.E(I.T), M.E(CE),<br>Ph. D*   | Associate Professor | Cloud Computing and Security  |
| 4. | Ms. Deepti Reddy    | B.Tech, M.E (CE),<br>Ph. D*    | Associate Professor | Semantic web, Intelligent Tutoring System, Engineering Education, Educational Technology. |
| 5. | Ms. Prachi Shahane  | B.E(CSE) ,<br>M.E (CE)         | Assistant Professor | Artificial Intelligence, Internet Of Things   |
| 6. | Ms. Suvarna Chaure  | B.E(CSE),<br>M.E (CE)          | Assistant Professor | Security  |
| 7. | Mr. Sunil Punjabi   | B.E,<br>M.E (CE)               | Assistant Professor | Software Engineering  |
| 8. | Ms. Pranita Mahajan | B.E(CSE),<br>M.E (CE)          | Assistant Professor | Natural language processing, Machine Learning, Data Analytics.                            |
| 9. | Ms. Ujwala Ravale   | B.E,<br>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),<br>M. Tech(C.N.E),<br>Ph. D* | Assistant Professor | Real Time Systems, IOT, Parallel Computing and HPC   |
| 11. | Ms. Masooda Modak       | B. Tech (IT),<br>M.E (CE), Ph.D.*       | Assistant Professor | Learning Analytics, Data Mining, E-learning          |
| 12. | Ms. Anindita Khade      | B.E.,<br>M.E (CE)                       | Assistant Professor | Machine Learning, Data Analytics, Data Mining        |
| 13. | Ms. Varsha Patil        | B.E.,<br>M.E (CE),PhD*                  | Assistant Professor | Image Processing, Data Mining, Machine Learning, NLP |
| 14. | Ms. Kalyani Pampattiwar | B.E. (CSE),<br>M.E (CE)                 | Assistant Professor | Security, Data Mining                                |
| 15. | Ms.Namrata Patel        | B.E.,<br>M.E (CE)                       | Assistant Professor | Web Mining   |
| 16. | Ms. Kranti S Bade       | B.E.(IT),<br>M.E(CSE)                   | Assistant Professor | Data Mining  |
| 17. | Ms. Vaishali Bhujade    | B.E.(CSE),<br>M.E (CE)                  | Assistant Professor | Data Mining, Algorithm Analysis                      |

# FACULTY PROFILE

| No  | Name                 | Qualification     | Designation         | Area of Interest                              |
|-----|----------------------|-------------------|---------------------|---|
| 18. | Ms. Roopal Mamtora   | B.E.,<br>M.E (CE) | Assistant Professor | Networking, Software Engineering              |
| 19. | Ms. Vaishali Bhujade | B.E.,<br>M.E (CE) | Assistant Professor | Algorithm Analysis<br>Data Mining,            |
| 20. | Ms. Suneha Patil     | B.E.,<br>M.E (CE) | Assistant Professor | Machine Learning, Data Analytics, Data Mining |
| 21. | Ms. Yashashree B.    | B.E.,<br>M.E (CE) | Assistant Professor | Cloud Computing                               |



# NON TEACHING STAFF

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

# CLASS STRENGTH

| Year  | No of students | Boys | Girls |
|-------|----------------|------|-------|
| S. E. | 112            | 70   | 42    |
| T. E. | 109            | 64   | 45    |
| B. E. | 110            | 60   | 50    |

# FACULTY ACHIEVEMENTS

## PAPER PUBLICATION

- Prof. Shaikh, Rizwana, Prof. Masooda Modak, Prof. Kalyani Pampattiwari, and Prof. Roopal Mamtora, "Real time pothole detection using android Smartphone and IOT based approach", International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC)", Vellore, Tamilnadu IEEE (In press). Jan 2018.
- Prof. Pranita Mahajan, "Aspect based opinion mining of code mix text", Journal of applied science and computation, ISSN No. 10765131, Vol 5 Issue 10, Oct 2018.
- Prof. Preeti Godbole has published paper on "GPU Accelerated Code Optimization: Leaf Disease Detection", in International Research Journal of Advanced Engineering and Science ISSN (Online): 2455-9024 (IRJAES), May 2018.
- Prof. Varsha Patil, Prof. Kranti Bade, Prof. Yashashree Bendale, "An Optimized use of Smart Air Conditioner using Cognitive IOT Screen reader support enabled", National Conference on "The Things Services and Applications of Internet of Things", Gandhi Institute for Education and Technology (GIET) Baniatangi, 23-24 March 2018, pg. 13-19. ISSN: 2321-8363.



# FACULTY ACHIEVEMENTS



## PAPER PUBLICATION

- Prof. Prachi Shahane, Prof. Preeti Godbole, "A Cognitive Approach for Real time Monitoring of CO and CO2 Emissions in Vehicles", IJARS Journal for Advanced Research In Applied Sciences, Volume 5, ISSUE 1, JAN/2018 ISSN NO: 52394-8442, Jan 2018.
- Prof. Sunil Kumar Punjabi, "Audio Steganography Using genetic Algorithm", International Multidisciplinary E-research Journal, Vol 5, Issue 1 March 2018.
- Prof. Mamtara, Roopal, "A Sneak Preview of Sentiment Analysis." In 2018 International Conference on Smart City and Emerging Technology (ICSCET), pp. 1-4. IEEE, 2018.
- Anindita Khade. "Predictive Analysis in Healthcare." Int. J. Comput. Eng. Appl. XII.

# FACULTY ACHIEVEMENTS

## NPTEL & Other Online Courses

- Dr. Rizwana Shaikh successfully completed course on “Blockchain Architecture Design and Use Cases” offered by NPTEL.
- Ms. Varsha Patil honoured with Gold certificate in course “Introduction to R software” offered by NPTEL.
- Ms. Varsha Patil honoured with top 5% rank in “Introduction to Machine Learning” offered by NPTEL.
- Ms. Masooda Modak honoured with Elite certificate in course “Introduction to Machine Learning” offered by NPTEL.
- Ms. Namrata Patel honoured with Elite certificate in course “Introduction to Internet of Things” offered by NPTEL.
- Ms. Namrata Patel has successfully completed online course on Python offered by Udemy.
- Ms. Anindita Khade honoured with Elite certificate in course “Introduction to R software”.
- Ms. Anindita Khade honoured with Elite certificate in course “Introduction to Machine Learning” offered by NPTEL.
- Ms. Ujwala Ravale has successfully completed online course "Hacking in Practice: Certified Ethical Hacking MEGA Course" offered by Udemy.

# FACULTY ACHIEVEMENTS

## NPTEL & Other Online Courses

- Ms. Pranjali Thakre honoured with Elite certificate in course “Programming, Data Structures” offered by NPTEL.
- Ms. Pranjali Thakre honoured with Elite certificate in course “Algorithms. Using Python” offered by NPTEL.
- Ms. Vaishali Bhujade honoured with Elite certificate in course “Introduction to R software” offered by NPTEL.
- Ms. Vaishali Bhujade honoured with Elite certificate in course “Programming Data Structures and Algorithms using python” offered by NPTEL.
- Ms. Vaishali Bhujade honoured with Elite certificate in course “Problem Solving through Programming in C” offered by NPTEL.
- Ms. Kalyani Pampattiwar has successfully completed 12 week course in “Computer Network and Internet Protocol” offered by NPTEL.
- Ms. Kalyani Pampattiwar has successfully completed online course "Hacking in Practice: Certified Ethical Hacking MEGA Course" offered by Udemy.
- Ms Kranti Bade has successfully completed online course on Python offered by Udemy.

# Student Development Programme

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- Weekly Activity on "Java" for SE and TE Students by CSI SIESGST Student Branch.
- Weekly Activity on "Python" for SE Students by CSI.
- Weekly Activity on "C Programming" for TE Students by CSI SIESGST Student Branch.
- Prof. Rizwana Shaikh, Prof. Masooda Modak and Prof. Kranti Bade conducted workshop on "Python Programming" from 20/1/18 to 17/4/18 (Every Saturday) under IETE and CSI SIESGST Student Branch.
- Prof. Rizwana Shaikh and Prof. Masooda Modak conducted workshop on "Cloud Computing" from 11/6/18 to 12/6/18 (Two Days) under Computer Department
- Prof. Aparna Bannore, Prof. Suvarna Kendre, Prof. Preeti Godbole, Prof. Ujwala Ravale and Prof. Kalyani Pampattiwari conducted workshop on "Ethical Hacking & Security" from 13/6/18 to 19/6/18 (Five Days) under COE Computer Department.

## Student Development Programme

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- Prof. Aparna Bannore, Prof. Suvarna Kendre, Prof. Deepti Reddy, Prof. Ujwala Ravale and Prof Kalyani Pampattiwari conducted workshop on "Web Application Security" from 11/6/18 to 15/6/18 (Five Days) under COE Computer Department.

## RESEARCH PROPOSALS

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- Prof. Rizwana Shaikh, "Fog Computing for Smart Transportation" Minor research grant received by Mumbai University

## Faculty Development Programme

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- "Creating Magic in Classroom for Students Engagement" by Dr. Manu Vora 3rd April 2018 through A-View

### **Closer Look at Data Science Industry and its Expectations from Engineers**

**Author: Prof. Pranita Mahajan**

Data science is a multidisciplinary blend of scientific methods, processes and systems. At the core there is data, which can be structured or unstructured. Data science is the science of getting insight of this data to extract knowledge which can play vital role in taking strategic business decisions. It deals with interdisciplinary fields such as statistics, information science, data mining and visualisation. Turing award winner Jim Gray has mentioned data science as a “fourth paradigm” of science. According to him data science has evolved from empirical, theoretical, computational and now data-driven. Data is growing potentially so the need to extract information by analyzing it. Last decade has seen gradual development in technologies and analytical tools; it has made it possible for business operators acquire numerous benefits from their data assets. Data Science is allowing enterprise’s to successfully leverage that potential like never before. The data scientists investigate data to find characteristics or pattern within the data for example industries like Amazon, Flipkart try to find the interest of a person and gives recommendations based on the earlier pattern. This industry is not limited to shopping portals scientists are moving towards domains like health , security , academic, finance and many more.

## FACULTY ARTICLE

The data scientist role is to provide data warehouse solutions by extracting, transforming and loading (ETL) data. Data can be in any form, taking this raw data for analysis may take more time and lead to wrong results. Cleaning this data is a valuable process which can increase the efficiency of analysis. According to Aberdeen group “The impact of higher-quality data is most immediately evident in the quality and speed of business decisions. Organizations reporting data accuracy of over 90% were able to put reliable information in the hands of their executives fast enough to meet demand 80% of the time. Companies with lower than 70% data accuracy only succeeded at meeting this demand window half of the time.”

Data scientist should have in depth knowledge of database architecture, spreadsheets, BI tools with which extracted information can be centralized, protected and maintained. This maintained information is analyzed to find valuable insight such as patterns, association and characteristic which in turn can help in taking business decisions using mining techniques such as predictions, classification etc. If one looks at data science industry from an engineer's perspective there are huge job opportunities like, data analyst, data engineers, the business analyst, statisticians who organize data, visualize it, help in predictive modelling by applying various algorithms. To achieve this one should have knowledge of languages such as C/C++, JAVA, R, Python, SQL, HIVE, Pig, Spark and should be skilled in using tools like R, Rapidminer, weka, openRefine etc. Data scientist duties include creating various machine learning tools and applying various automation/ recommendation algorithms to get value from the data. This information helps in business decision making leading to industry growth.

## FACULTY ARTICLE

For aspiring data scientist there is a good news , the substantial growth of data has lead to the need to understand it. Companies are in search for the peoples who can dig into the data to give them valuable information in the form of charts, predictions, patterns which can help companies in understanding their customers. There are a number of companies for whom their data is their product. In this case, the data analysis or machine learning going on can be pretty intense. This is probably the ideal situation for someone who has a formal mathematics, statistics background and is hoping to continue down a more academic path.

Data Scientists in this setting likely focus more on producing great data-driven products than they do answering operational questions for the company. Companies that fall into this group could be consumer-facing companies with massive amounts of data or companies that are offering a data-based service.

As per McKinsey report published in 2013 predicted that the global business community would feel the pinch of an acute shortage of Data Science professionals for the next decade, specifically a shortage of “1.5 million analysts” skilled at deriving competitive intelligence from the vast amounts of static and dynamic (real-time) data. While such a prediction is coming true, a greater focus on marketing the importance of Data Management to enterprises and within higher education institutions is enabling the entire industry to cope with shortages in ways that were not fully understood only a few years ago. The upheavals within the Data Science industry will continue throughout 2017, but so will more growth and more possibility.



# STUDENT'S ACHIEVEMENT

## PAPER PUBLICATION

- K. Meghana, Rucha Gurav, Khushboo Parab, GPU Accelerated Code Optimization: Leaf Disease Detection” Journal: International Research Journal of Advanced Engineering and Science ISSN (Online): 2455-9024.
- Rashmi Bongirwar, Renuka Deshpande, Neha Battula “Semantic plagiarism detection using natural language processing” International Journal Of Latest Trends In Engineering And Technology.
- Shwetha Srinivasan, Ajitem Joshi, K. Anshika Chidambaram, “Krushyantra- The Predictive Cultivation System” Iaetsd Journal For Advanced Research In Applied Sciences.
- Palak Patel, Tejraj Pawar, Satnam Singh Saini, Anindita Khade “Predictive Analysis In Healthcare” International Journal of Computer Engineering and Applications.
- Anish Unnikrishnan, Kaushik Gunasekara, Uday Menon, “Intelligent and prognostic parking system” Iaetsd Journal For Advanced Research In Applied Sciences.
- Shardul Patil, Arvind Ganesh, Tarun Reddy, Niranjana,” Audio Steganography using genetic algorithm”, Research Journey, International Multidisciplinary E-research journal, March 2018, ISSN 2348-7143, Vol 5, Issue 1, UGC Approved

# STUDENT'S ACHIEVEMENT

| NO | NAME OF STUDENT                                    | YEAR / SEM | ACHIEVEMENT ( CURRICULAR, CO-CURRICULAR & EXTRA-CURRICULAR)  |
|----|--|------------|--|
| 1. | Vrushali Alugade<br>( 6 Members Team)              | TE /VI     | Ranked 8 <sup>th</sup> in India SIH2018-Software Category (AICTE DashBoard)  |
| 2. | Kamleshwar Ragava<br>( 6 Members Team)             | TE /VI     | Selected for grand finale SIH2018- Hardware Category<br>(Smart Bag Tracking System)  |
| 3. | Jane D. ,Rakshita B. ,<br>Arpita Rane              | TE /VI     | Won 2 <sup>nd</sup> prize in Bytecamp 2018 for topic 'Automated system for issuing Railway concessions for educational institutes' |
| 4. | Kamleshwar R.,<br>Vishal R., Nivedita<br>Deshpande | TE /VI     | Won 3 <sup>rd</sup> prize in ByteCamp 2018 for the topic 'Accident Mitigator'  |
| 5. | Chinmay Chandak                                    | SE/IV      | Won 1 <sup>st</sup> prize in Turing Cup coding contest   |
| 6. | Arivindraaj Thangraj                               | SE/IV      | Won 2 <sup>nd</sup> prize in Turing Cup coding contest   |

# STUDENT'S ACHIEVEMENT

| NO  | NAME OF STUDENT                           | YEAR / SEM | ACHIEVEMENT ( CURRICULAR, CO-CURRICULAR & EXTRA-CURRICULAR)  |
|-----|---|------------|--|
| 7.  | Aditya Kulkarni                           | TE /VI     | Won 2 <sup>nd</sup> prize in Turing Cup coding contest   |
| 8.  | Bharat K., Aarti B, Riona A. and Ketan G. | TE/VI      | Won Super Team Award in Deep blue project by Majesco   |
| 9.  | Vipul S. ,Vedadnya, Vikram P.             | TE/VI      | Shortlisted group for Zee 24 Taas  |
| 10. | Anish U. & Team                           | BE/ VIII   | Won 2 <sup>nd</sup> prize in INNOVATIONS 2018 (Intelligent & Prognostic Parking System)  |
| 11. | Sarthak S. and Venkatesh                  | SE/ IV     | Consolation prize in INNOVATIONS 2018 : Automated Reliable Pharmacy System, Arduino Controlled Industrial Droid  |
| 12. | Omkar Prabhu                              | TE /VI     | <ol style="list-style-type: none"> <li>1. Won 2<sup>nd</sup> prize in TechXter National Level paper with the idea of "Making Web 2.0 faster for next generation"</li> <li>2. Best Overall performance award in technical field.</li> <li>3. Selected as Official Problem setter by CodeChef for monthly long challenge.</li> </ol> |

# STUDENT'S ACHIEVEMENT

| NO  | NAME OF STUDENT | YEAR / SEM | ACHIEVEMENT ( CURRICULAR, CO-CURRICULAR & EXTRA-CURRICULAR)  |
|-----|-----------------|------------|--|
| 13. | Pritam Negi     | TE /VI     | 1.Completed 4 online courses successfully (on recent Trends like Python , MongoDB , Google Analytics).<br>2.Best Overall performance award in the field of Data Science. |
| 14. | Aditya Kulkarni | TE /VI     | 1.Selected for Udacity Android Development Scholarship .<br>2. Published the official Android App for Tatva Moksha Lakshya   |
| 15. | Kavita Hegde    | SE/IV      | Participated and represented SIES-GST in the E-Summit-18 at IIT  |
| 16. | Pratik Amin     | TE /VI     | Runner up in cricket tournament at SIES-GST & SPIT   |

# INTERNSHIP & PLACEMENTS

## INTERNSHIP

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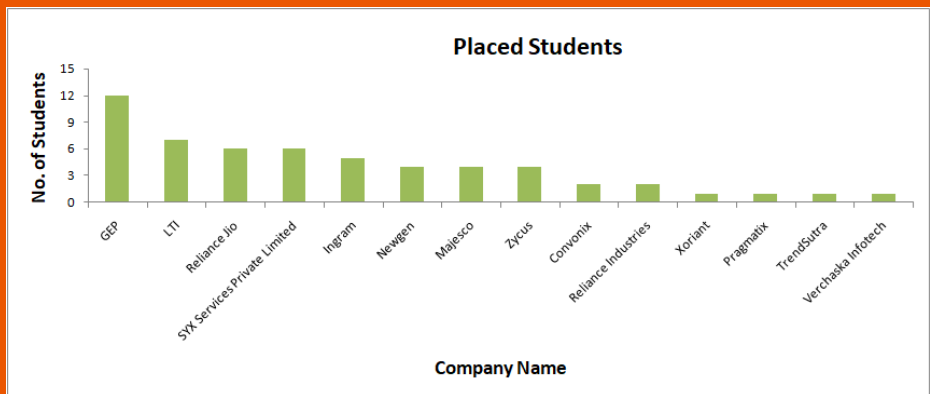
Students are actively involved in offline/online, national as well as international internship activities. Two students completed international internship from Ural Fedral University(Russia), AIT(Athens) respectively. College also provides internship opportunities through various SDP's. Students completed their internships from various companies like B. A. R. C., Mumbai, Reliance Industries, CMS, Quantum, Unotech Software Pvt. Ltd., Western Railways, Central Railways, BSNL, Expert HUB, SURGE One Bit Tech LLP, Internshala Trainings, NPCIL, UnderDOgs, Chanchal Cargo(India), Trivia Softwares.

# INTERNSHIP & PLACEMENTS

## PLACEMENT

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

In this academic year 2017-18, Students are placed in companies like GEP, LTI, Reliance Jio, SYX Services Private Limited, Ingram, Newgen, Majesco, Zycus, Convonix, Reliance Industries, Xoriant, Pragmatix, TrendSutra, Verchaska Infotech.



## S.E.-FIRST HALF 2018 ( Semester IV )

| Rank | Name of student | CGPI |
|------|-----------------|------|
| 1.   | Sweta Shekhar   | 10   |
| 2.   | Shruti Rao      | 9.77 |

## T .E. -FIRST HALF 2018 ( Semester VI )

| Rank | Name of student  | CGPI |
|------|------------------|------|
| 1.   | Pradhan Akansha  | 9.83 |
| 2.   | Shukla Jasmine   | 9.83 |
| 3.   | Patil Rituja     | 9.67 |
| 4.   | Shetty Shrinidhi | 9.67 |
| 5.   | Siddharth V.     | 9.67 |



## B.E.-FIRST HALF 2018 ( Semester VIII )

| Rank | Name of student | CGPI |
|------|-----------------|------|
| 1.   | Vighnesh Reddy  | 8.81 |
| 1.   | Nisha Ponnann   | 8.81 |
| 2.   | Palak Patel     | 8.76 |
| 3..  | Tejaswee A.     | 8.69 |

### Block Chain Technology

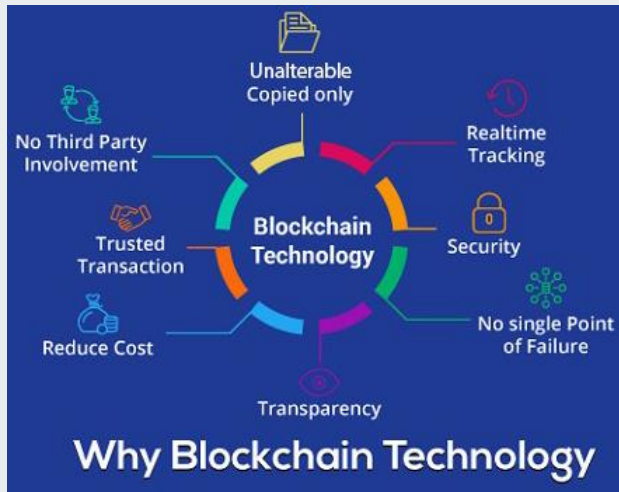
**Author: Saiprasad Rane**

Blockchain- Distributed Ledger Technology (DLT), makes the history of any digital asset unalterable and transparent through the use of decentralization and cryptographic hashing.

A simple analogy for understanding blockchain technology is a Google Doc. When we create a document and share it with a group of people, the document is distributed instead of copied or transferred. This creates a decentralized distribution chain that gives everyone access to the document at the same time. No one is locked out awaiting changes from another party, while all modifications to the doc are being recorded in real-time, making changes completely transparent.

Blockchain is an especially promising and revolutionary technology because it helps reduce risk, stamps out fraud and brings transparency in a scaleable way for myriad uses.

# ARTICLE



## Blockchain Features

- Immutability
- Decentralized
- Enhanced Security
- Distributed Ledgers
- Consensus

## Blockchain Applications

Blockchain has a nearly endless amount of applications across almost every industry. The ledger technology can be applied to track fraud in finance, securely share patient medical records between healthcare professionals and even acts as a better way to track intellectual property in business and music rights for artists.

# EDITORIAL BOARD



**PROF. VARSHA PATIL**



**PROF. KRANTI BADE**

## *Editorial Board:*

- Dr. Rizwana Shaikh [HoD]
- Ms. Varsha Patil [Assistant Professor]
- Ms. Kranti Bade [Assistant Professor]
- Students Members: Palak Patel, Shwetha S.

Editorial board is glad to release the current issue of our Department Newsletter August 2017. We appreciate the efforts taken by the editorial board in compiling useful information & activities conducted by the department. The contribution and dedication of faculty members, students is continuously helping the newsletter to achieve new milestones.

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