SIES GRADUATE SCHOOL OF TECHNOLOGY

Sri Chandrasekarendra Saraswati Vidyapuram, Plot 1C-E, Sector V, Nerul, Navi Mumbai – 400 706.

DEPARTMENT OF COMPUTER ENGINEERING
Annual Report 2017-18

1. **Academic achievements:**

- TE CE Girl student's team containing Vrushali Alugade, Tanaya Badave, Rutuja Patil, Rakshita Bakalkar, Akansha Pradhan, Arpita Rane secured 8th position in Smart India Hackethon all over India. Smart India Hackethon is National Level Project Competition organised by MHRD collaboration with AICTE on 30th March 2018

TE CE Students team Bharat Katuriya, Aarti Borse, Riona Almeda, Ketan Gotamare won 1st prize in Deep Blue Project Competition organised by Mastek -Majesco in 2018

- Dr. Rizwana Shaikh received "Best HOD of the year" award by TECHNEXT India 2018, organized by CSI in collaboration with IIT Bombay.
- Prof. Masooda Modak secured PhD admissions in Sardar Patel Institue of Technology (SPIT) Andheri, Mumbai in academic year 2017 - 18.
- Prof. Kalyani P. received Gold certificate and top 1% rank in Computer Organization course, conducted by NPTEL in December 2017.

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- Prof. Masooda M. received Gold certificate and top 5% rank in Computer Organization course, conducted by NPTEL in December 2017.

2. Collaborative/MOUs':

- An MoU was signed with 9th Legend Inc., Mumbai, on April 17 to March 2019 for Industry-Academia collaboration facilitating Industrial Visits, Hands-on training and internships to students and faculty. The MoU will also facilitate training resources for students and the industry.
- An MOU was signed with Microsoft ATS, Mumbai from February 2018 to March 2020. Due to this collaboration students should get benefit of different courses offered by Microsoft.
- An MOU was signed with Prior Web Private Ltd., Mumbai from June 2018 to June 2020 for Industry collaboration facilitating internship, expert talks to students and faculty.

3. Department Initiatives:

- Department organised the National Level Project Competition, "INNOVATIONS 17", conducted by CE department under CSI, March 2017. 20 groups from all over India had participated.

- CE department has started conducting workshops under Students Development Programs on open source technologies such as; LINUX, LAMP, R, PYTHON and various security tools etc for students of all departments during Vacations. Eight such workshops and corresponding internships are conducted during the year.

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- To improve placements and technical skills of students, technical quizzes and aptitude lectures are conducted as a part of CSI activities. Seven such activities are conducted in the form of technical workshops and coding competitions.

- Establishment of mentor-mentee scheme to strengthen student teacher relationship.

- (DAB) Department Advisory Board formed and meeting is conducted to bridge the academic and industry gap. Recent topics are identified for workshops and guest lecture for motivating students for higher studies and placement.

- External academic audit conducted by Prof. Kalbande from SPIT, Mumbai in August 2017.

4. **Academic / technical achievements of students:**
   - TE CE Girl student's team containing Vrushali Alugade, Tanaya Badave, Rutuja Patil, Rakshita Bakalkar, Akansha Pradhan, Arpita Rane secured 8th position in Smart India Hackethon all over India. Smart India Hackethon is National Level Project Competition organised by MHRD collaboration with AICTE on 30th March 2018.

- TECE Students Team Kamleshwar Raghava, Vipul Singh Suryavanshi, Aarti Borse, Bharat Katuriya Participated in National Level Project Competition Smart India Hackethon for hardware stream in BITS Pillani, Rajasthan.

- TECE Students team Bharat Katuriya, Aarti Borse, Riona Almeda, Ketan Gotamare won 1st prize in Deep Blue Project Competition organised by Mastech in 2018.
- TECE student's team participated at Zonal Level for Zee 24Taas Young Innovator Awards 2017-18.
- Preetam Negi from TE CE has completed 13 various courses on R offered by DataCamp and is working as alpha tester for DataCamp Dec 2017.
- Aakansha Pradhan and Rutuja Patil from TE CE won 1st prize in MINDSPARK.
- Omkar Prabhu from TE CE Passed CCDSAP foundation exam and Codechef certified DS & algorithms programme NOV 2017.
- Sayali Patil from TE CE achieved Best Intern Award for Internship in IoT from Smt. Kashibai Navale College of Engineering, Pune.
- R.S. Kamal from BE CE Won 2nd prize in Laser Tag(Gaming) in innovations, Won 1st Prize in black line follower.
- Bharat Kathuria from TE CE winner in coding competition organised by CSI chapter in 2018.
- Shubham Tarate student of SE CE active member of BAJA team of SIESGST won 1st prize in IIT Ropar, Punjab and Talegaon Pune.

5. **Cultural / sports achievements:**
- Aakansha Pradhan from TE CE stood 1st in Debate Competition in 50th intercollegiate youth festival.

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- Pratiksha P from TE CE stood 1st in District level Debate competition conducted by MU.
- Swarika from SE CE, winner in 'Make yoyr Fair" held in cognition 17.
- Ajit Kumar from TE CE secured silver medal in athletics competition at K J Somaiya, Mumbai and VJTI Mumbai.
- Ajit Kumar from TE CE won first prize in Arm Wrestling at Cognition 17.
- Kumaran from BE CE won first prize in men's basket ball and 3rd in chess, TML,2018.
- Kavya V TE CE won 2nd prize in Throw ball, in TML, 2018.
- Yogesh Singh from BE CE Runner Up in inter college - Lakshya Cricket.
- Rishi Thakur from BE CE secured 2nd position in intra college - Human foosball

6. **Faculty achievements/Research grants:**
   I. Research grants: Eighteen 18 faculties have prepared and submitted minor research proposals to Mumbai University

- An IOT Based System for Water Quality Monitoring. (Mrs. Pranita Mahajan, Mrs. Prachi shahane).
- Efficient Authentication scheme for National e-Governance services : Mrs. Aparna Bannore.
- White Blood Cell Disorder Identification using Deep Neural Networks. (Mrs. Ujwala Ravale, Mrs. Preeti Godabole, Ms. Yashashree Bendale).
- FQMS(Food Monitoring System)An Efficient Way for monitoring Food quality Management. (Mrs. Varsha Patil, Mrs. Asmita Shejale,Mrs. Namrata Patel , Mrs. Kranti Bade)
- Smart Adaptive IOT based parking system. (Mrs. Anindita Achint Khade, Dr. Rizwana Shaikh, Mrs. Masooda Modak, Mrs. Kalyani Pampattiwar).
- Intelligent System for Women security. (Mr. Sunil K.Punjabi, Mrs. Suvarna Chaure, Mrs.Ujwala Ravale, Mrs.Deepti Reddy).
- Opinion Mining For Government Policy Formulation. (Mr. Amit Pandhare).

II. Online Courses:
- Prof. Pranita Mahajan received Elite certificate in courses "Introduction to Research" and "Introduction to Machine Learning" offered by NPTEL. Completed three courses on "Introduction to R track", offered by Datacamp.
- Prof. Roopal Mamtora completed "Introduction to Machine Learning" course offered by NPTEL.
- Prof. Prachi S. completed, "Introduction to Data Analytics" course offered by NPTEL.
- Prof. Namrata P. received Elite certificate, "Computer Organization" and "Cloud Computing Laboratory", courses offered by NPTEL.
- Prof. Prachi S. completed, "Introduction to Data Analytics" course offered by NPTEL.
- Prof. Kalyani P. received Elite certificate, "Cloud Computing", course offered by NPTEL.
- Prof. Masooda M. received Elite, "Cloud Computing", course offered by NPTEL. Completed Introduction to R and Introduction to Python course offered by DataCamp.
- Prof. Sunil Kumar P. completed, "Information Security", course offered by NPTEL.
- Prof. Kranti B. received Elite certificate, "Design Algorithm", course offered by NPTEL.
- Prof. Aparna B. received Elite certificate, "Information security 3", course offered by NPTEL.

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- Prof. Ujwala R. received Elite certificate, "Information security 3" and "Design Algorithm", course offered by NPTEL.

III. Publications: Fourteen Faculties have published the papers in various journals and Conferences.

- Prof. Rizwana Shaikh, "Measuring Data security for a cloud service", 3rd International Conference on Computing, Communication and Automation (ICCUBEA-2017) Pune, 17-18 Aug 2017.
- Dr. Rizwana Shaikh, Prof. Massoda Modak, Prof Roopal M and Prof. Kalyani P, "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.
- Prof. Rajesh Kadu, "Authentication and Secure Communication in CSS Cognitive Radio Networks" IPASJ International Journal of Computer Science (IIJCS), ISSN: 2321-5992, Volume 5, Issue 10, October 2017, Impact Factor: 3.414. 2. 5.
- Prof. Rajesh D. Kadu, "Detection of Spectrum Sensing Data Falsification Attacker in CSS Cognitive Radio Networks" 3rd IEEE international conference on Computing, Communication, Control and Automation (ICCUBEA 17), Pune, 17-18 Aug 2017.
- Prof. Aparna Bannore, "Conference on Intelligent Information Technology, Dec 2017, (ICIIT 2017), Chennai, India. Springer CCIS"
- Prof. Deepti Reddy, "FATHOM: TEL environment to develop divergent and convergent thinking skills in software design", Advanced Learning Technologies (ICALT), 2017 IEEE 14th International Conference on. IEEE, 2017.
- Prof. Roopal Mamtora, "A Sneak Preview of Sentiment Analysis, International Conference on Smart City and Emerging Technologies (ICSCET 2018)" ,Universal College, Kaman, Vasai, IEEE(In press), Publisher:IEEE.
- Prof. Prachi S and Prof. Preeti Goadabole, "Cognitive Approach for real time monitoring of CO and CO_2 emissions in vehicles", UGC Approved ,Journal for Advanced Research in Applied Science, Volume 5 Issue 1, Jan 2018.
- Prof. Suvarna Chaure, Prof. Ujwala Ravale, Prof. Namrata Patel and Anindita k., "SMART TRASH: An Efficient Way for monitoring Solid Waste Management, IEEE-CTCEEC conference. August 2017.

7. **Seminars/workshops organised by department:**
   I. Faculty Development Programme:

- Computer Engineering Department has conducted AICTE-ISTE Approved 6 days STTP on "Cyber security and digital forensics", from 03/07/2017 to 07/07/2017.
- Prof. Pranita Mahajan organized 2 day workshop, on, "SSP on Introduction to Machine Learning", under IIT Remote Centre on 16th and 17th Dec 2017.

   II. Student Development Programmes:

- Prof. Kalyani P, Prof. Roopal M, Prof. Ujwala R, Prof. kranti B and Prof. Namrata P have conducted five day workshop on Basic Linux and Latex from 19th June to 23th June. 19 students are attended the workshop.
- Prof. Kalyani P, Prof. Masooda M, Prof. Roopal M, and Prof. Namrata P have conducted five day workshop on LAMP from 19th June to 23th June. 26 students are attended the workshop.

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- Prof. Pranita Mahajan and Prof. Monika Sharma have conducted five day workshop on R Programming from 5th June to 9th June.
- Prof. Pranita Mahajan, Prof.Anindita Khade, Prof.Prachi Shahane, Prof. Yashashree Bendale conducted Data mining with R workshop for TE students from 11th Dec to 15th Dec 2017.
- Prof. Suvarna Chaure, Prof. Aparna Bannore, Prof. Preeti Godabole, Prof. Ujwala Ravale have Conducted Ethical Hacking Workshop and Security for TE students from 11th Dec to 15th Dec 2017. 11 students have participated in the workshop.
- Prof. Pranita Mahajan, Prof.Yashashree Bendale Conducted Introduction to R workshop for SE students from 20th Dec 2017 to 23rd Dec 2017. 17 students have participated in the workshop.
- Prof. Kalyani P, Prof. Masooda M, Prof. Roopal M, and Prof. Namrata P have conducted five day workshop on LAMP from 20th December to 24th December.
- Prof. Rizwana Shaikh, Prof. Masooda M and Prof. Kranti B conducting workhop of Python for TE Students from 19th January onwards.
- Prof. Pranita Mahajan conducted one month internship for Third year students in which students have completed two projects titled "Placement prediction" and "Contribution of attendence towards result".
- Prof. Varsha Patil Conducted SDP on Image Processing at D.Y Patil's RAIT college on 27 Dec2017
- National level project competition, "INNOVATIONS 17", conducted by CE department under CSI, March 2017. 20 groups from all over India had participated.
- Mr. Stephen, Suven Technologies conducted Workshop on Bootstrap 3 Framework on 5th August 2017- (50 studenst participated for the workshop)
- CSI council students have conducted Coding Competition on Java programming for Third Year Students on 8th Sep and 15th Sep 2017. 30 students have participated.
- CSI council students have conducted Coding Competition on C programming for Second year students on 8th Sep and 15th Sep 2017. 30 students have participated.
- CSI council students have conducted web designnung Competition on C programming for Second year students on 15th Sep 2017. 20 students have participated.
- Mr. Dilip Balasubramanian, We Can Educate, conducted "Image Processing using Python" 4th Sep to 14th sep 2017. (09 students participated).
- CSI Council, PC Assembly Workshop on 22nd September 2017.

III. Internship:
- Fourteen BE students have completed outhouse internship from various industries.
- Two students from SE have completed 6 weeks internship from AIESEC, Poland and AIESEC Bulgaria.
- Prof. Pranita M and Prof. Monika S conducted one month R internship for BE students in July 17.
- 5 students from SE have completed outhouse internship from Expert hub, pune during 22 Dec to 29 Dec 2017.
- Two students from TE have completed 1 month and 3 months internship from Reliance industry (12 Dec to 12 Jan 2018) and Droid Techknow.com(15 Nov 2017 to 15 Jan 2018).
- Four students have completed in house internship on Data mining with R under Prof. Pranita Mahajan.

IV. Guest Lectures organised by department:

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- Mr. Kapil Kadam from IITB, delivered seminar on the topic "Animation and Blender Software" for the Second year students of Computer Engineering Department on April, 21, 2017. Total 104 students have attended the session.

- Mr. Abhilash Agarwal, Data Analyst at MIRRAW delivered seminar on, "Data Analytics", for the final year students on 23/02/2018.

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- Mr. Shrikant Gavande, PeetaByte Technologies delivered Guest Lecture on NoSQL and Big data Hadoop 13-04-2017.
- Mr. Suhas Deoghare, L&T Infotech,Mumbai delivered Guest Lecture on Product Development on 21-04-2017.
- Dr. Sameer Sahasrabuddhe, Senior Project Research Scientist, IIT Bombay delivered Guest Lecture for HMI on 21-04-2017.
- Mr. Dilip Balasubramanian Head of we can education delivered a lecture on Advent of Embedded System, on 06/10/2017. Total 54 students have attended the lecture.

8. Seminars/workshops attended by department faculty:
- All faculties attended Seminar on IONCUDOUS on 17th August 2017.
- Six faculties have attended workshop on IONCUDOUS on 17th and 18th Aug 2017.
- All faculties have attended FDP on "Funding Agencies and preparation of Research proposals", on 19th Aug by Dr. Vikas Phalle Assoc Prof. Mech Engg Dept. VJTI.
- 17 faculties has attended FDP on "Writing and Publishing Research Articles" by Dr. B. K. Lande on 3rd February.
- Dr. Rizwana Shaikh has attended Two days FDP on Remote Sensing and GIS in Rural Agricultural Systems. IEEE GPRS Section, DBIT , Kurla on 22-23 September.
- Prof. Ujwala Ravale has attended Two-Week AICTE approved FDP Foundation Program in ICT for Education for 3rd August to 07 September and Two-Week AICTE approved FDP Pedagogy for Online and Blended Teaching-Learning Process from 14th September to 12th October 2017.
- Prof. Vaishali Bhujade on "Efficient, Effective, Engineering Labs and Performance Management"on 19th DEC.2017 and FDP on ”Challenges in Cloud Computing Applications” by Mr.Manoj Kulkarni, Director of Mensa Consulting Services Pvt. Ltd, on 29 Nov 2017.
- Prof. Yashashree Bendale FDP on ”Challenges in Cloud Computing Applications” by Mr.Manoj Kulkarni, Director of Mensa Consulting Services Pvt. Ltd, on 29 Nov 2017.
- faculties attended FDP on Introduction to Machine Learning under Saptahaant Shikshak Prashikshan (SSP) on 16th 17th December conducted by IIT Khargapur.
- Prof. Deepti Reddy attended Open Source Software Experience (POSSE) workshop at the University of Bologna Italy from July 1 -2, 2017.

- Prof. Masooda Modak Attended AICTE Sponsored Two Days National Seminar on 'Technologies for Development of Rural Areas" on 27th and 28th Nov. 2017 at Sardar Patel Institute of Technology'
- Prof. Roopal Mamtora, Prof. Varsha Patil, Prof. Suvarna Chaure and Prof. Asmita S. attended on Training the trainer: Aptitude in June 2017.
- Dr. Rizwana Shaikh, Prof. Pranita Mahajan, Prof. varsha P, Prof Rajesh Kadu, Prof. Preeti G and Prof. Deepti Reddy attended training on IONCUDOUS on 17th and 18th August 2017.
- Prof. Sunil K Punjabi has attended CII- Principals Conclave: Building Institutions of Excellence: on 20th November 2017.
- Prof. Sunil K Punjabi attended One day CII WR Higher Education Summit 2017, 23 August 2017, Vivanta by Taj President, Cuffe Parade, and Mumbai.
- All faculty members have attended seminar on funding agencies, 19th August 2017.

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