

NEWS LETTER - 2019-20



Department of Computer Science and Engineering SREE VIDYANIKETHAN ENGINEERING COLLEGE (Autonomous)

Editor

Mr. K. Jeevan Pradeep

Student Members

Representatives from M.Tech; IV, III & II B.Tech



SREE VIDYANIKETHAN ENGINEERING COLLEGE (AUTONOMOUS)

SREE SAINATH NAGAR, A. RANGAMPET -517102

Department of Computer Science & Engineering

VISION

To become a Centre of Excellence in Computer Science and Engineering by imparting high quality education through teaching, training and research.

MISSION

- The Department of Computer Science and Engineering is established to provide undergraduate and graduate education in the field of Computer Science and Engineering to students with diverse background in foundations of software and hardware through a broad curriculum and strongly focused on developing advanced knowledge to become future leaders.
- Create knowledge of advanced concepts, innovative technologies and develop research aptitude for contributing to the needs of industry and society.
- Develop professional and soft skills for improved knowledge and employability of students.
- Encourage students to engage in life-long learning to create awareness of the contemporary developments in computer science and engineering to become outstanding professionals.
- Develop attitude for ethical and social responsibilities in professional practice at regional, National and International levels

Achievements:

Patents:

Sl. No.	Title of Patent	Name of the Faculty	Patent Details (Application No., Date of filing & Ref. No.)	Status
1.	A cost effective system for driver's drowsiness detection	Mayuri Kundu	Application No.202041005075 Date of filing of Application :05/02/2020 Publication Date : 21/02/2020	Published
2.	Continuous Energy Supply to House Hold Applications through Uninterrupted Power Meter	S. Vatchala	Application Number: 201941052558 A and Publication Date: 20/12/2019	Published
3.	Method of Lung cancer detection using Machine Learning based CT-SCAN Image Processing	Dr. M. Sunil Kumar Mr.D.Ganesh Mr.B.Sreedhar Dr.K.Suresh Dr.V.AnanthaNatarajan	Application No. 201941050453 Date of Published:13-12-2019	Published
4.	IOT sensors based multi-functional intelligent walk guiding stick for visual disabled person.	Dr. Suresh Kallam	Application No. 201941051603 Date of Published: 12.12.2019	Published
5.	Method of loading distribution balancing for fog cloud computing in IOT environment	Dr. Suresh Kallam	Application No. 201941044511 Date of Published: 30.11.2019	Published
6.	Railway maintainace status tracking through mobile apps	Dr. A. V. Sri Harsha	Application No. 201941041897A Date of Published: 25.10.2019	Published

7.	Computer Implemented Method With Static Cluster PBDA Localization Algorithm Used For Wireless Nanosensor Networks	Dr.M.Sakthivel Dr.K.S. Kannan	Application No. 201941040862 Date of Published:18-10-2019	Published
8.	Method of maximum energy utilization in Internet of thing network	Dr. Suresh Kallam	Application No. 201941040703 Date of Published: 18.10.2019	Published
9.	System and method for Data Security Using DNA Cryptography Based Encryption	Dr. Suresh Kallam	Application No. 201941039845 Date of Published: 01.10.2019	Published

Faculty Awards:

Sl. No	Name of the Faculty & Designation	Department	Date	Type of achievement
1.	Dr. B. Narendra Kumar Rao Professor & Head	CSE	02.10.2019	UTHAMA ACHARYA PURASAKAR (National Award) awarded by the UthamaAcharyaPuraskar Organization.
2.	Dr.K. Delhi Babu Professor	CSE	02.10.2019	UTHAMA ACHARYA PURASAKAR (National Award) awarded by the UthamaAcharyaPuraskar Organization.
3.	Dr. A. V. Sriharsha Associate Professor	CSE	02.10.2019	UTHAMA ACHARYA PURASAKAR (National Award) awarded by the UthamaAcharyaPuraskar Organization.

Papers Published by faculty in Journals:

Sl. No.	Name of the Author(s)	Designation	Name of the Journal	Title of the paper	Vol. No and Page nos.	Year	Impact Factor	Indexed
1.	Ms. K. Ghanya Dr. K. G. Suma Ms. V. Bhargavi	Assistant Professor Associate Professor Assistant Professor	International Journal of Recent Technology and Engineering (IJRTE)	An Authorized Cloudedup in Hybrid Cloud using Triple Data Encryption Standard	Volume 8, Issue No 4, ISSN No: 2277-3878	2019	5.92	Scopus
2.	Ms. K. Ghanya, Ms. K. Vidhyavathi Ms. V. Bhargavi	Assistant Professor Assistant Professor Assistant Professor	International Journal of Engineering Science and Computing (IJESC)	An Efficient Adhoc Routing Protocols for Manets to Improve Performance	Volume 9, Issue No 10 ISSN No: 2321-3361	2019	5.6	Google Scholar, CiteSeer X, INSPEC
3.	Dr. M. Sunil Kumar	Professor	International Journal of Innovative Technology and Exploring Engineering (IJITEE).	Process Innovation Methods on Business Process Reengineering	Volume 8, Issue 11, ISSN No: 2278-3075.	2019	5.54	Scopus
4.	Dr. M. Sunil Kumar	Professor	International Journal of Innovative Technology and Exploring Engineering (IJITEE).	Internet of Things: IETF protocols, Algorithms and Applications	Volume 8, Issue 11, ISSN No: 2853 - 2857.	2019	5.54	Scopus
5.	Dr. G. Sunitha	Professor	International Journal of Innovative Technology and Exploring Engineering (IJITEE).	Data Stream Clustering Algorithms: Challenges and Future Directions	Volume 8, Issue 11, ISSN No: 2321-336.	2019	5.54	Scopus

Sl. No.	Name of the Author(s)	Designation	Name of the Journal	Title of the paper	Vol. No and Page nos.	Year	Impact Factor	Indexed
	Dr.Suresh Kallam	Associate Professor	Neural Computing and Applications	Firefly-Inspired Stochastic Resonance for Spectrum Sensing in CR-based IoT Communications	Vol. 31, No. 12, ISSN: 0941-0643	2019	--	SCI Journal-Springer
6.	Dr.Suresh Kallam	Associate Professor	Helix journal	Diabetes Prediction using Machine Learning Techniques	Volume and Issue: 10 (2):Page: 136-142	2020	1.4	Web of Science
7.	Dr.Suresh Kallam	Associate Professor	Information journal, MD PI Publication	Improving Power and Resource Management in Heterogeneous Downlink OFDMA Networks	Volume and Issue: 11, 203; doi:10.3390/info11040203	2020	1.88	Web of Science
8.	Dr. B. Narendra Kumar Rao	Professor	International Journal of Innovative Technology and Exploring Engineering	Predictive Maintenance for Monitoring Heritage Buildings and Digitization of Structural Information	Vol. 8, pp: 1463-1468, ISSN: 2278-3075	2019	5.54	Scopus Indexed
9.	Dr. B. Narendra Kumar Rao	Professor	International Journal of Innovative Technology and Exploring Engineering	Block chain Based Implementation of Electronic Medical Health Record	Vol. 8, pp: 715-730 ISSN: 2278-3075	2019	5.54	Scopus Indexed

Sl. No.	Name of the Author(s)	Designation	Name of the Journal	Title of the paper	Vol. No and Page nos.	Year	Impact Factor	Indexed
10.	Dr. B. Narendra Kumar Rao	Professor	International Journal of Innovative Technology and Exploring Engineering	Clustering based Test Suite Selection for Ranking of Program Execution Sequence using Improved Precision in Regression Testing	Vol. 8, pp: 1463-1468 ISSN: 2278-3075	2019	5.54	Scopus Indexed
11.	Dr. B. Narendra Kumar Rao	Professor	Journal of Engineering Education Transformations	Grand Challenges Scholars Program in Indian Context	DOI: http://dx.doi.org/10.16920/jeet%2F2020%2Fv33i0%2F150073	2020	--	UGC CARE/SCOPUS Indexed
12.	Dr. K. Reddy Madhavi	Associate Professor	International Journal of Innovative Technology and Exploring Engineering	Moving Objects Detection and Recognition using Hybrid Canny Edge Detection Algorithm in Digital Image Processing	Vol. 8, Issue 9S3 ISSN: 2248-3075	2019	5.54	Scopus Indexed
13.	Mr. S. SreenivasaChakravarthi	Assistant Professor	International Journal of Advanced Computer Science and Applications	Non-linear Dimensionality Reduction Based Intrusion Detection Using Deep Autoencoder	Vol. 10, No. 8, pp.168-174 ISSN : 2156-5570 (Online)	2019	1.324	Web of Science
14.	Mr. S. SreenivasaChakravarthi	Assistant Professor	International Journal of Electrical Engineering & Education	Cloud Detection of anomalies in cloud services using network flowdata analysis	February eISSN: 2050-4578 DOI: https://doi.org/10.1177/0020720920901436	2020	0.941	SCIE, Scopus Indexed

Sl. No.	Name of the Author(s)	Designation	Name of the Journal	Title of the paper	Vol. No and Page nos.	Year	Impact Factor	Indexed
15.	Mr.S. SreenivasaChakravarthi, G. Hemanth Kumar	Assistant Professor	Procedia Computer Science	Optimization of Network Coverage and Lifetime of the Wireless Sensor Network based on Pareto Optimization using Non-dominated Sorting Genetic Approach	172C ISSN: 1877-0509	In Production. June 2020	1.26 Citation Score: 1.48	Scopus (Accepted)
16.	Dr. J. Avanija, Dr. G. Sunitha	Associate Professor Professor	International Journal of Recent Technology and Engineering	Dengue Outbreak Prediction using Regression Model in Chittoor District, Andhra Pradesh, India	Vol.8, Issue 4, pp. 10057-10060 ISSN: 2277-3878	2019	5.92	Scopus Indexed (UGC CARE-A)
17.	Dr. K. G. Suma, Dr. G. Sunitha, Dr. J. Avanija	Associate Professor Professor Associate Professor	International Journal of Engineering and Advanced Technology	Accident Prevention and Traffic Management by Otsu Method and Haar-Cascade Hand Detector	Vol. 9 Issue 2, pp. 5328-5333 ISSN:2249-8958	2019	1.0	Scopus Indexed (UGC CARE-A)
18.	Dr. M.Sakthivel Mr. J.UdayKuma	Associate Professor Assistant Professor	International Journal of Engineering and Advanced Technology	Progressive AODV: A Routing Protocol intended for MANETS	Vol. 9 Issue 2, pp. 70-74	2019	5.97	Scopus Indexed (UGC CARE-A)
19.	Dr. J. Avanija	Associate Professor	International Journal of Advanced Science and Technology	Movie Recommendations with Conventional Strategies Using MovieLens Dataset	Vol. 28, Issue 9, pp. 286-295 ISSN: 2005-4238	2019	0.410	Scopus Indexed

Sl. No.	Name of the Author(s)	Designation	Name of the Journal	Title of the paper	Vol. No and Page nos.	Year	Impact Factor	Indexed
20.	Ms.MayuriKundu	Assistant Professor	Advanced Science, Engineering and Medicine American Scientific Publishers	Throughput Analysis of Energy Efficient Combined PC-APC Scheme in Two State Scenarios	Vol. 11.Issue 12 pp. 1279-1282 ISSN: 2164-6635	2020	0.39	Scopus Indexed
21.	Ms.MayuriKundu	Assistant Professor	International Journal of Research in Pharmaceutical Sciences	SARS-CoV-2/2019 Novel Corona Virus: An Epidemic to Pandemic.	11. SPL1 (2020): 37-42.	2020	0.122	Scopus Indexed
22.	Dr. M.Sakthivel Dr.R. Kamalraj Mr. J.Uday Kumar	Associate Professor Associate Professor Assistant Professor	International Journal of Recent Technology and Engineering	Spectrum and delay efficient routing protocol for Mobile Cognitive Adhoc Networks	Vol. 8.Issue 5 pp. 3529-3533 ISSN: 2277-3878	2020	6.04	Scopus Indexed
23.	Dr. V. V. Ramaprasad	Professor	International Journal of Communication Networks and Information Security (IJCNIS)	A Study on Intrusion Detection System in Wireless Sensor Networks	Vol.12.No.1 April 2020 ISSN: 2076-0930	2020	--	SCOPUS INSPEC EBSCO
24.	Dr. V. V. Ramaprasad	Professor	EAI Endorsed Transactions on Pervasive Health and Technology	A Novel Random Split Point Procedure Using Extremely Randomized (Extra) Trees Ensemble Method for Human Activity Recognition	Vol.6, Issue 22, May 2020 ISSN 2411-7145	2020	--	DOAJ, Proquest, EBSCO DBLP PORTICO

Sl. No.	Name of the Author(s)	Designation	Name of the Journal	Title of the paper	Vol. No and Page nos.	Year	Impact Factor	Indexed
25.	Dr. K.Reddy Madhavi	Associate Professor	International Journal of Advanced Science and Technology (IJAST)	Automatic Colorization with Colourfulness metric using Deep Neural Networks	Vol 29, No-06, PP.6591 – 6600 ISSN: 2005-4238 (Print), 2207-6360 (Online)	2020	0.410	Scopus Indexed
26.	Mr. M Ganesh Karthik	Assistant Professor	International Journal of Advanced Science and Technology (IJAST)	Parallel Best Attack Mitigation Algorithm (PBAMA) based DDoS Attack Detection in Internet of Things (IoT)	Vol. 29, No. 5S, March 2020, Pages: 978-986, ISSN 2005 - 4238.	2020	0.410	Scopus Indexed

Papers Presented by faculty in Conferences:

Sl.No.	Title of Paper	Name(s) of the Author(s)	Details of Proceedings (in IEEE format)
1.	Graph based Segmentation Methods: A Survey	Dr.G.Sunitha, Dr.K.G.Suma, Ms.K.Ghamya.	International Conference on Applications of MEMS, Nano and Smart Materials (ICMNSM - 19) organized by National MEMS Design Center (NMDC) at Sree Vidyanikethan Engineering College, Tirupati ,12 th -14 th December 2019
2.	A Hybrid Model on Child Security and Activities Monitoring System using IoT	Dr. R. Kamalraj, Dr. M. Sakthivel	Proceedings of the International Conference on Inventive Research in Computing Applications, IEEE Xplore organized by RVS College of Engineering, Coimbatore,2019.
3.	Deep Learning model for Identifying Snakes by using Snakes bites Marks	Dr. R. Kamalraj Ms. K. Ghamya Ms. V. Bhargavi	4 th IEEE International Conference on Computing Methodologies and Communication, March 2020. (Scopus Accepted)
4.	Efficient Data Aggregation in multihop wireless sensor networks using PSO Techniques	Ms.S. Vatchala	National Conference on – Smart Intelligent Computing and applications (NCSICA' 2020) DhanalakshniSrinivasan Engineering College, Perambalur on 13 th March 2020

5.	A Hybrid End to End Security Mechanism with Efficient Trace Representation on Open Stack Cloud	Ms.S. Vatchala	National Conference on - Smart Intelligent Computing and applications (NCSICA' 2020) DhanalakshniSrinivasan Engineering College, Perambalur on 13 th March 2020
6.	Forecasting of Wind Power using LSTM Recurrent Neural Network	Dr.V. Anantha Natarajan	International Conference on Advances in Computing and Information Technology (ICACIT-19) organized by FEAT, Annamalai University, Annamalainagar, Tamilnadu, 24 th -25 th September 2019.
7.	A Hybrid Recommendation Systems for Agriculture	Dr. A. V. Sriharsha	AICTE Sponsored International Conference on Smart Computing and Control of Systems (ICSCCS) organized by SVEC, Tirupati, 17 th -19 th October 2019.
8.	Prediction of Diabetes Disease using Data Mining and Deep Learning Techniques	Dr. K. S. Kannan	AICTE Sponsored International Conference on Smart Computing and Control of Systems (ICSCCS) organized by SVEC, Tirupati, 17 th -19 th October 2019.
9.	Optimization of Network Coverage and Lifetime in WSN based on Pareto Optimization using NSGA	Mr. S. Sreenivasa Chakravarthi	9 th World Engineering Education Forum 2019 organized by ITC Grand Chola, Chennai, 11 th - 16 th November 2019.
10.	Estimation of Precipitation using Convolutional Neural Networks	Dr. A. V. Sriharsha	International Conference on Advances in Science, Engineering and Technology (ICASSET-2019) organized by Institute for Engineering Research and Publication at KSRM College of Engineering, Kadapa, 19 th - 20 th December 2019.
11.	On Statistical Parameter Privacy	Dr. A. V. Sriharsha	International Conference on Green Power Technology in Power Grid: Issues, Challenges & Control organized by SVU College of Engineering, SVU, Tirupati, 19 th - 21 st December 2019.
12.	Segmentation of Nuclei in Histopathology images using Fully Convolutional Deep Neural Architecture	Dr. V. Anantha Natarajan Dr. M. Sunil Kumar Dr.K. Suresh	International Conference on Computing and Information Technology, IEEE Saudi Arabia Section University of Tabuk, SA (Accepted)
13.	Studies of Optimization of Throughput: Combining Receiver Diversity in Hybrid ARQ Scheme over Fading Channel	Ms.MayuriKundu	Emerging Technologies in Data Mining and Information Security organized by NIT Yupia, Jan 2020.

14.	Analysis of Dielectric and Temperature Impact on Co-axial CNTFET Characteristics Using NEGF	Ms. Mayuri Kundu	NANO 2020 (Considered for Elsevier Materials Today Publication Scopus) By Mangalam by IEEE Photonics Society & Mangalam College of Engineering, Kerala, India. Accepted (21-22 April 2020 rescheduled to 23-24 July 2020 due to Covid 19)
15.	Advanced Safety Analysis and Modeling of Control Software in Implantable Medical Devices	Dr. B. Uma MaheswaraRao	International Conference on Information System Design and Intelligent Applications (INDIA-2019), 1 st to 2 nd November 2019.
16.	Review on Spatio Temporal Clustering Methods Classification	Mr. D. Ganesh Mr. B. Sreedhar	International Conference on Advances in Computing and Information Technology (ICACIT'19) organized by Department of CSE, FEAT, Annamalai University, Annamalainagar, Tamilnadu, 24 th to 25 th September, 2019.
17.	Open Issues in Requirement Engineering with Machine Learning Approaches	Dr. M. Sunil Kumar	International Conference on Advances in Computing and Information Technology (ICACIT'19) organized by Department of CSE, FEAT, Annamalai University, Annamalainagar, Tamilnadu, 24 th to 25 th September, 2019.
18.	Business Process Re-Engineering: Issues and Challenges	Dr.M.Sunil Kumar Dr. V. Anantha Natarajan Dr.K. Suresh	Poornima Institute of Engineering & Technology, Jaipur., Springer Book Series: "Algorithms for Intelligent Systems (AIS)- Springer" (ISSN: 2524-7565), Springer. 20-21 March 2020
19.	Applications of Artificial Intelligence techniques for cognitive networks	Mr. D. Ganesh	Poornima Institute of Engineering & Technology, Jaipur., Springer Book Series: "Algorithms for Intelligent Systems (AIS)- Springer" (ISSN: 2524-7565), Springer. 20-21 March 2020
20.	Survey on renewable energy forecasting using different machine learning techniques	Dr. V. Anantha Natarajan	IEEE 2 nd International Conference on Power and Embedded Drive Control ICPEDC- 2019, SSN College of Engineering, Chennai, 21 st to 23 rd August, 2019.
21.	Multicast Routing Protocols in Mobile Ad Hoc Networks: Issues, Challenges and Applications	Mr. N. Papanna	International conference on Computing Communications and Electrical Technologies (ICCCET-2019)" organized by G.Narayanamma Institute of Technology and Science (for women), Hyderabad, Telangana, August 2019.

Research Talks

- Dr. V. Anantha Natarajan, Associate Professor, delivered a Research Talk on **Machine Learning in Image and Text Processing** at SRM University on 17.09.2019
- Dr. V. Anantha Natarajan, Associate Professor Delivered a Lecture on **Deep Learning** at SV College of Engineering, Tirupati on 03.10.2019
- Dr. B. Narendra Kumar Rao, Professor , delivered a Talk on **Grand Challenges Scholars** Program at SV Engineering College, Tirupati on 18.10.2019
- Dr. B. Narendra Kumar Rao, Professor Delivered a Lecture on **Software Testing** at Narayana Engineering College, Gudur on 03.10.2019
- Mr. D. Ganesh , Assistant Professor Delivered a Lecture on **Discrete Mathematics** at Narayana Engineering College, Nellore on 05.11.2019

FDP/Workshops attended by faculty:

- Dr. B. Narendra Kumar Rao Professor Attended a Workshop on **IUCEE LEADERSHIP SUMMIT** 2019 organized by IUCEE, International centre, Goa. During 11.07.2019 to 13.07.2019
- Dr. B. Narendra Kumar Rao, Dr. A.V. Sriharsha, Dr. J. Avanija has attended **Teacher Development Program on Venture for Creation** in collaboration with Columbia Business School, USA during 16.09.2019 to 17.09.2019
- Dr. B. Narendra Kumar Rao Professor Attended a Workshop on **Sensitizing Higher Education Institutions to Promote Quality Assurance for Nation Building- Opportunities and Challenges** at SV University during 09.11.2019 to 10.11.2019
- Mr. D. Ganesh Assistant Professor attended a workshop on **Cyber Security** at KSRM Engineering College, Kadapa during 11.11.2019 to 23.11.2019
- Mr. K. Jeevan Pradeep Assistant professor attended a workshop on **Internet of Things** NITK, Surathkal during 21.11.2019 to 26.11.2019
- Dr. K. Suresh, Associate Professor attended a workshop on **Artificial Intelligence and Machine Learning Applications** at NITK, Surathkal during 09.12.2019 to 14.12.2019
- Mr. S. Bavaji & Mr. J. Uday Kumar attended a FDP on **Artificial Intelligence** at JNTUA College of Engineering at Pulivendula during 02.12.2019 to 06.12.2019

Online Certifications

- ✓ Mr. D. Ganesh, Assistant Professor completed Coursera Online Certification successfully for the course "**Machine Learning with 95.3%**" (12 week course).
- ✓ Dr. K. Suresh, Associate Professor of CSE has successfully completed the **MATLAB Onramp self-paced** training course on 5th December, 2019.
- ✓ Mr. T.M. Jaya Krishna, Assistant Professor of CSE has successfully completed the **MATLAB Onramp self-paced training** course on 5th December, 2019.
- ✓ Dr. M. Sunil Kumar, Professor of CSE and Mr. D. Ganesh, Assistant Professor of CSE completed Course Online Certification successfully for the course "**MATLAB Onramp with 100%**" on 16th December, 2019.
- ✓ Mr. B. Sreedhar, Assistant Professor of CSE completed Course Online Certification successfully for the course "**Deep Learning with 100%**" on 14th December, 2019.

FDP/Workshops Organized:

A One Week Faculty Development Programme on "Design Thinking"

(Sponsored by JNTUA, Ananthapuramu under The Directorate of Faculty Development & IQAC)

The Department of Computer Science and Engineering, Sree Vidyanikethan Engineering College organized a One Week Faculty Development Programme (FDP) from 20th to 25th January 2020 sponsored by JNTUA, Ananthapuramu under The Directorate of Faculty Development and IQAC.

The core idea of the programme was to enhance knowledge and capabilities among the participants in design thinking and make use of design thinking process as a tool to create innovative products. The programme is aimed at faculty and research scholars of all engineering disciplines. A total of 42 members attended the programme. Dr. Balachandar Ramadurai, Professor NPTEL, Co-Founder TRIZ Innovation India, Adjunct Professor at Symbiosis Institute of Business Management, Pune was the chief guest and Dr. Shankar Venugopal, Vice President Mahindra & Mahindra, Head of Technology Innovation, Knowledge Management and Mahindra Technical Academy was the guest of honor for the inaugural function of the programme.

Dr. G. Sunitha, Professor & BoS Chairperson and Coordinator of the programme, Department of CSE, SVEC delivered welcome note and briefed about the sessions of the workshop. Dr. K. Delhi Babu, Professor & Dean (Placement and Training), Department of CSE, welcomed the participants and highlighted the importance of Design Thinking in product development.

20.01.2020 – On Day One forenoon session, Dr. Balachandar Ramadurai introduced the design thinking process. During afternoon session, Dr. Shankar Venugopal discussed on the importance of Human centered design process continued with session by Dr. Balachandar Ramadurai focusing on the Empathize phase of Design Thinking with active exercise for Customer Journey Mapping (CJM) and How Might We (HMW) scenarios.

21.01.2020 – On Day Two forenoon sessions, Dr. Shankar Venugopal focused on innovative design thinking through Combine, Rearrange, Enhance, Adapt, Turnaround, Eliminate (CREATE) tool. During afternoon sessions Dr. Balachandar Ramadurai discussed the importance of ideation phase in design thinking process.

22.01.2020 – On Day Three, Dr. Srinivasan Narayanan, Assistant Professor (Senior Grade), Department of Manufacturing Engineering, School of Mechanical Engineering, VIT University, Vellore, discussed about the product specification development and quality function deployment with some case study samples during the forenoon sessions. Dr. S. Renold Elsen, Associate Professor, Department of Design and Automation, School of Mechanical Engineering, VIT University, Vellore, focused his discussion on prototyping during the afternoon sessions.

23.01.2020 – On Day Four, Dr.Srinivasan Narayanan focused his discussion on Product design with design thinking perspective in the forenoon sessions. During afternoon sessions,Dr.RenoldElsen conducted hands-on session for the participants on prototyping and digital design tools such as TinkerCad, Figma and MarvelApp.

24.01.2020 – On Day Five, Mr.Vineesh U Sathianathan, Program Manager and Delivery Manager,Wipro Limited, Mysore, focused his discussion on Design for Servicesduring the forenoon sessions. During the afternoon sessions, Dr.Noor Mahammad SK,Assistant Professor (Senior Grade),Indian Institute of Information Technology,Design and Manufacturing (IIITDM) Kancheepuram, Chennai discussed about Kitch, Pasthise and Retro Information Evolution.

25.01.2020 – Finallyon Day Six, Mr.Vineesh U Sathianathan discussed about Design Innovation and Business with case studies in the first session followed with sessions by Dr.P.Chenna Reddy, Professor of CSE, JNTUA, Ananthapuramu discussed about the Design Thinking Curriculum Design. The faculty development programme concluded with the valedictory function in the honored presence of Dr. P. Chenna Reddy and Dr. K. G. Suma proposed a vote of thanks.

Outcomes of the Programme:

- The participants gained insights on user-centric approach through empathy, ideation, prototyping and testing in order to understand people’s unarticulated needs and identify opportunities for solutions.
- The members of faculty acquired skills about the various aspects of design thinking process such as user-centric design, collective idea generation methods and practice in modern context.



Inaugural Function



Dr. Srinivasan Narayanan delivering session on Product Specification Development



Dr. RenoldElsen delivering session on Prototyping



Dr. Noor Mahammad SK delivering session on Kitch, Pasthise and Retro Information Evolution



Mr. Vineesh U Sathianathanddelivering session on Design for Services



Dr. P. Chenna Reddy delivering session on Design Thinking Curriculum Design



Dr.P.Chenna Reddy distributing Certificates to Participants

A Five Day Workshop on "Effective Teaching (IIEECP Phase-I)"

The Department of Computer Science and Engineering, Sree Vidyanikethan Engineering College in association with IUCEE organized a five day workshop on "Effective Teaching (IIEECP-Phase-I)" from 9th to 13th December 2019.

The core idea of the programme was to promote learner centric, effective teaching-learning pedagogy among the participants. The programme aimed at faculty of all engineering disciplines. A total of 40 members attended the programme. Dr.Claire Komives, Fullbright Nehru Scholar, Professor, Chemical and Materials Engineering, San Jose State University, California, USA was the chief guest for the inaugural function. She spoke about the importance of using active learning methods in classroom.

Inaugural function was organized on 09.12.2019 and addressed by Principal, Director(Q&D), HoD, CSE along with Dr.Claire Komives, Fullbright Nehru Scholar, Professor, Chemical and Materials Engineering, San Jose State University, California, USA, she handled all the sessions for the upcoming days.

09.12.2019 – Day-ONE focused on methods to teach critical thinking skills with active exercise for cooperative note taking process.

10.12.2019 – Day-TWO discussed the importance of using concept map to organize the core concepts of learning, learning styles for 21st century learners with think pair share exercise.

11.12.2019 – Day-THREE focused discussion on course planning using outcomes in instruction, design of rubrics, project based learning, designing activities for higher level outcomes and methods for effective lecture delivery such as flipped classroom, inductive teaching.

12.12.2019 – Day-FOUR About problem solving strategies using active learning, design thinking principles and assessment tools for evaluation.

13.12.2019 – Day-FIVE on incorporating professional skills in curriculum, design of experiments and revealed the importance of controlling plagiarism.

Outcomes of the Programme:

- The participants gained knowledge about the different active teaching methods that can be used in their classroom teaching.
- The members of faculty acquired skills about the learner centric approaches of teaching through different activities.



Inaugural Session



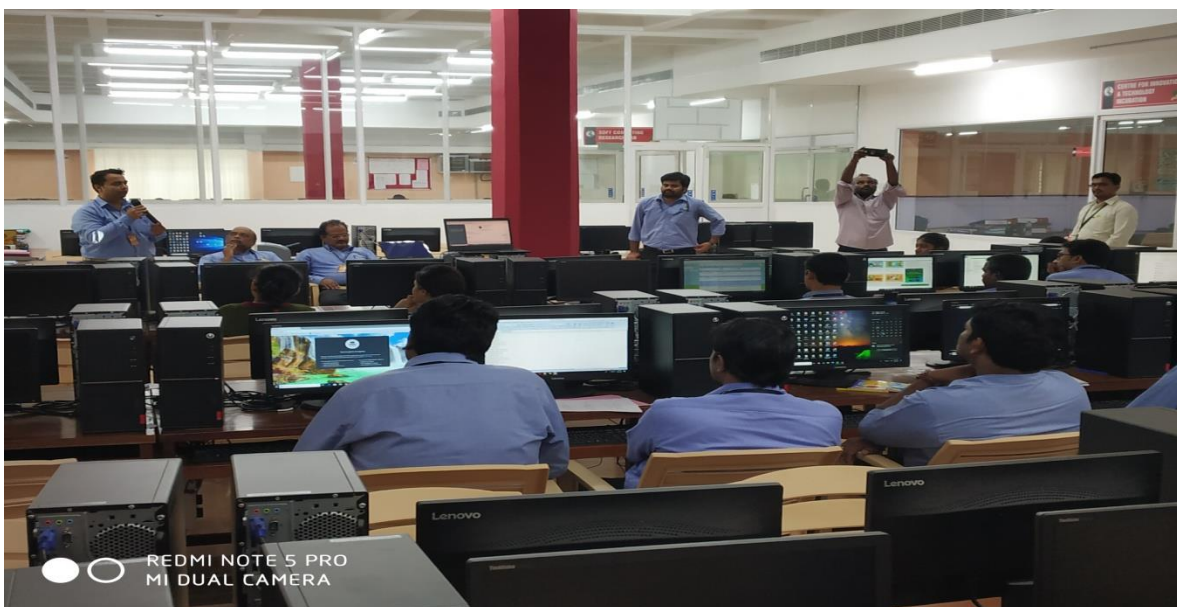
Dr. Claire Komives delivering the Session on Methods to Teach Critical Thinking Skills



Workshop Group Photo

One Week Faculty Development Programme on Advanced Python Programming during 05th – 09th August, 2019

A One week Faculty Development Programme (FDP) on Advanced Python Programming was organized by department of CSE in association with Bennett University, Greater Noida. The FDP addressed the advanced concepts of Python Programming and promoted student centric effective teaching-learning pedagogy among the participants. This programme aimed at faculty handling Python Programming for various disciplines of engineering. A total of 31 participants attended the programme. Dr. K Delhi Babu, Professor and Dean Placements, SVEC was the Chief Guest for the inaugural function. He spoke about the evolution of Python Programming from the industry perspective. Dr. C Madhusudhana Rao, Professor of CSE inaugurated the programme. During the inaugural address, he stressed upon the transformations happening in IT industry and the importance of learning Python Programming in current context. Dr. B Narendra Kumar Rao, Professor & Head, Dept. of CSE, SVEC welcomed the participants and briefed about the initiatives of the department in this regard and collaboration with different agencies for promoting python programming.

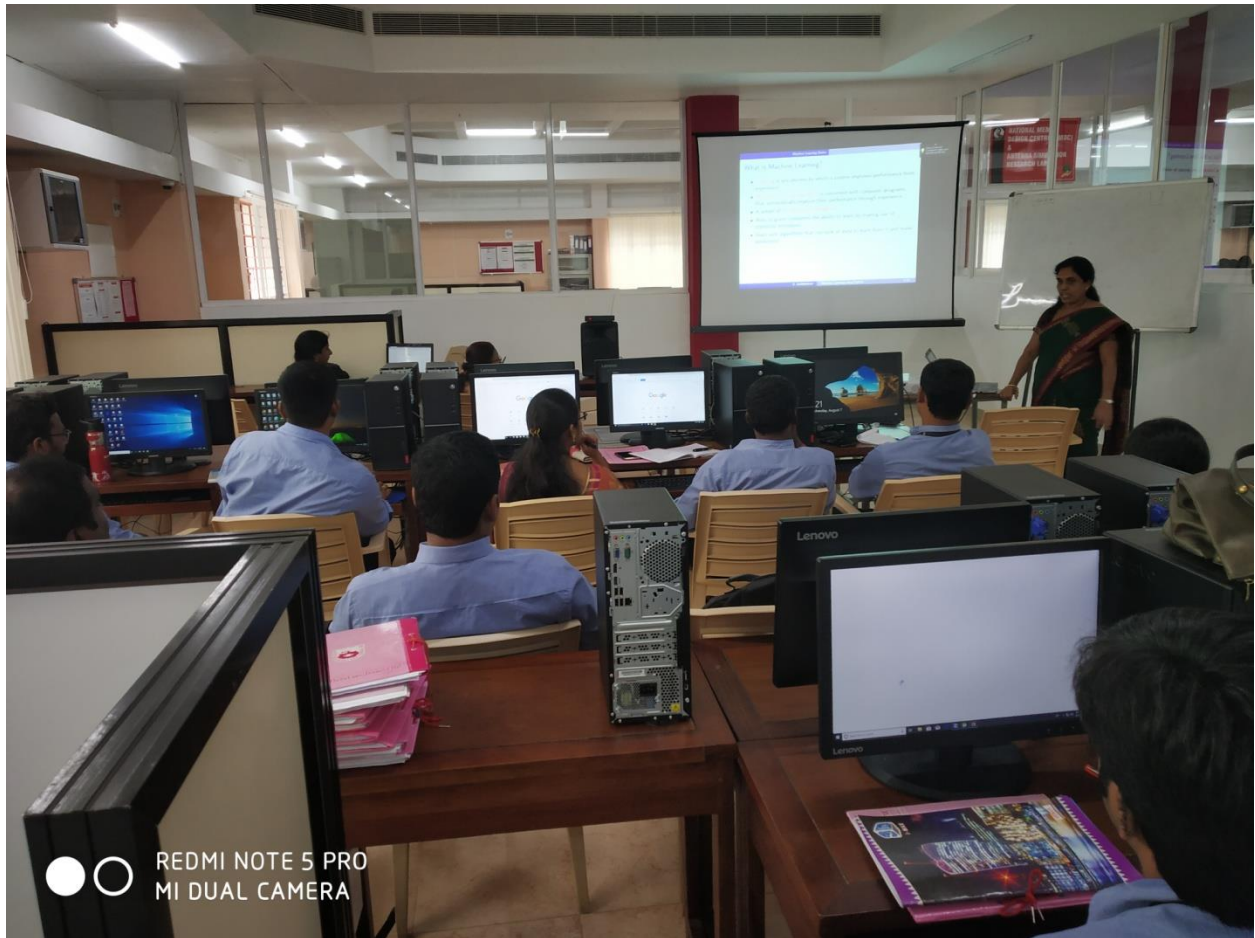


Resource Persons from reputed academic institutions like Bennett University, Greater Noida and Annamalai University, Tamil Nadu having expertise in the different relevant areas related to the programme delivered the lectures in this Faculty Development Programme.

In the first and second technical session of the first day of the programme, Dr Sridhar Swaminathan from Bennett University, Greater Noida spoke on Large Scale Text Analytics. This session focused on the basics of the neural architecture and deep neural models followed by Hands-on sessions.



The second day of the programme was focused on Image Classification and Segmentation using Convolutional Neural Network and its variants. The session was handled by Dr. V Ananatha Natarajan, Associate Professor Dept of CSE, SVEC. The participants were given hands on practice session on Azure Notebook (cloud environment). On the third day of the programme, Dr. S Jothilakshmi Professor, Dept. of IT, Annamalai University delivered a lecture on the Machine Learning algorithms and programming in Python language. The participants practiced to solve classification and regression problems using Machine Learning algorithms in Python language. The technical sessions of the fourth day was handled by Mr. I Reddy Sekhar Reddy and Mr. S Bavaji and on advanced Data Structure (TRIE Data structure) and algorithms. On the last day of the programme Dr. Asadi Srinivasulu Professor, Dept. of IT, SVEC gave lecture on Spark Programming with Python.



The important aspect of the event was that more than 50% of the total time spent during the programme was devoted to the hands-on sessions and demonstration. Participant's feedback also revealed that the programme was a perfect blend of technical knowledge on the advances in Python programming and its allied technologies. This Faculty Development Programme (FDP) fulfils its prime objectives to bring the faculties of different engineering departments on a single platform to update with the latest advances in the Python Programming and its applications for conducting effective research and teaching learning practices.

Research Grants:

Sl. No.	Name of the Faculty	Dept	Date Applied	Scheme	Reference No.	Title of the Project	Funding Agency	Amount (Rs. In lakhs)
1.	Dr. V. Anantha Natarajan	CSE	30.12.2019	RPS Scheme	-	Early Detection of Pests, Disease and Weed in Agriculture Land from Drone Captured MultiSpectral Images using Deep Learning Techniques	AICTE	11.2 Lakhs

Project Proposals submitted:

Sl. No.	Name of the Faculty	Dept.	Date Applied	Reference No.	Title of the Project	Funding Agency	Amount (Rs. In lakhs)
1.	Dr. Suresh Kallam	CSE	07.03.2020	CRG/2020/005070	"Design and Development of IoT based Out-of-pile version of Instrumented Capsule for Fast Breeder Reactor in India Industry 4.0".	SCIENCE & ENGINEERING RESEARCH BOARD (SERB)	34,65,000
2.	Dr. B. Narendra Kumar Rao(CO-PI)	CSE	05.03.2020	TPN/47250	Design and Development of Organic Footwear for underprivileged people	SEED-DST	25,58,391

Aalochana- Readers' Club 27th July 2019

On 27th July 2019 Department of CSE organized book review session of readers club "Aalochana." This club is the brain child of the honorable Prof. T. Gopala Rao, Professor, Emeritus, SVEI and is entirely student driven.

One of the Faculty mentor, Ms. Mayuri Kundu welcomed the gathering and provided insights about the Aalochana's inception, objectives and outcomes.



HoD, Dept of CSE addressing the gathering



Ms. Mayuri welcoming the gathering

Dr. B. Narendra Kumar Rao, Professor & HOD, CSE, recalled his college days when life was gadget free and recreation means only reading good books. He also advised students to read books as it is pure source of knowledge. He also mentioned reading autobiography of legendary people can motivate students in their path of life.



Mr. Chaitanya presenting his review



Mr. Naveen presenting his review

Students of III CSE came forward to present their perception and views about recently read books. Mr. Chaitanya, III CSE 'A' reviewed the book "**Who Moved My Cheese**" by *Spencer Johnson*, followed by Mr. Naveen's, III CSE 'A' review on "**The Power of Subconscious Mind**" by *Joseph Murphy*. Next Mr. TejaSai, III CSE 'B' presented a review on "**Psycho Cybernetics**" by Maxwell Maltz.

All members of faculty of CSE Department were present during the event. The programme revealed many aspects of book reading to the students. The function successfully ended by vote of thanks.



Audience keenly listening to the review



Mr. TejaSai presenting his review

SKILL DEVELOPMENT PROGRAMS:

A Three-Day Workshop on "Game Development Using Buildbox" Mr. Sk. Gouse Peer and Mr. C. Satish Kumar APSSDC, Govt. of Andhra Pradesh 02nd to 07th March,2020

A Three-Day Workshop on "**Game Development Using Buildbox**" was organized by department of Computer Science and Engineering of Sree Vidyanikethan Engineering College for II B.Tech CSE students from 02nd to 4th March 2020 (Batch-1) and 05th to 7th March 2020(Batch-2) in collaboration with APSSDC.

The objective of the workshop is to acquire knowledge on developing 2D games by using Buildbox application that does not require any programming language. Students have learnt how to install, configure and the Standard Operating Procedure (SOP) of the software and its supporting resources. Students have learnt

- About inserting Characters
- Updating action animations
- Character game plays Settings
- Inserting Objects

The software offers 26 platforms that enable to create different varieties of game environments. Student have practiced and demonstrated applying Effects, Logic, Labels, Light, Transform, Default Font, Trial, Portal, Flag, Gate-Kepper, Particle, Path, Mirror, Menu Jump, Action, Inserting Coins, Powerups, Reward Coins, Editing Menu Page, Mapping the user interfaces using menu editor.

Program was organized in two batches consisting of 68 students and it was coordinated by **Dr. M. Sakthivel**, Assoc. Professor, **Ms. K. Vidhyavathi**, Asst. Professor and **Mr. N. Bala Krishna**, Asst. Professor, Department of Computer Science and Engineering.

The resource persons are experienced trainers from APSSDC, Govt. of Andhra Pradesh. They interactively demonstrated, taught and inculcated to the students the working with the application. The feedback from participants has been taken to understand and analyze the resource persons' domain knowledge, content delivery, and interaction during the workshop, can enable the department to organize such workshops in future. Overall, the event was successful.



Mentors clarifying doubts and Students developing 2D Games



Participants and Faculty organizers with Mentors

ACM Student Convention on "Current and Emerging Technologies in Engineering" 21st January,2020

ACM Student Convention on **"Current and Emerging Technologies in Engineering"** was organized by Department of CSE in Association with SVEC-ACM Students Chapter on 21st January, 2020. A Total of 150 II, III & IV B.Tech students from ECE,EEE, CSE, IT, CSSE and CIVIL students attended for the Program. The Events Organized in the Convention is Paper Presentation, Poster Presentation, Model Presentation, Hackathon and Coding Events.

Among all the Events 50 Paper Presentations, 05 Poster Presentations, 05 Model Presentations and 50 Teams Participated in Coding and Hackathon Events. ACM Student Chapter in SVEC has been successfully conducting various events and the main objective of this is to give exposure to students regarding team work, make them aware of the needs of industry 4.0 and prepare them to face the challenges ahead. The winners of all the events received prizes from the dignitaries.



Participants in the ACM Students Convention



Paper Presentation by Students



Model Presentation by Students



Alumni As Judges in the Convention



Students Demonstrating in Convention



COURSE CONTENT DELIVERY BY INDUSTRY EXPERT ON "MOBILE APPLICATION DEVELOPMENT"

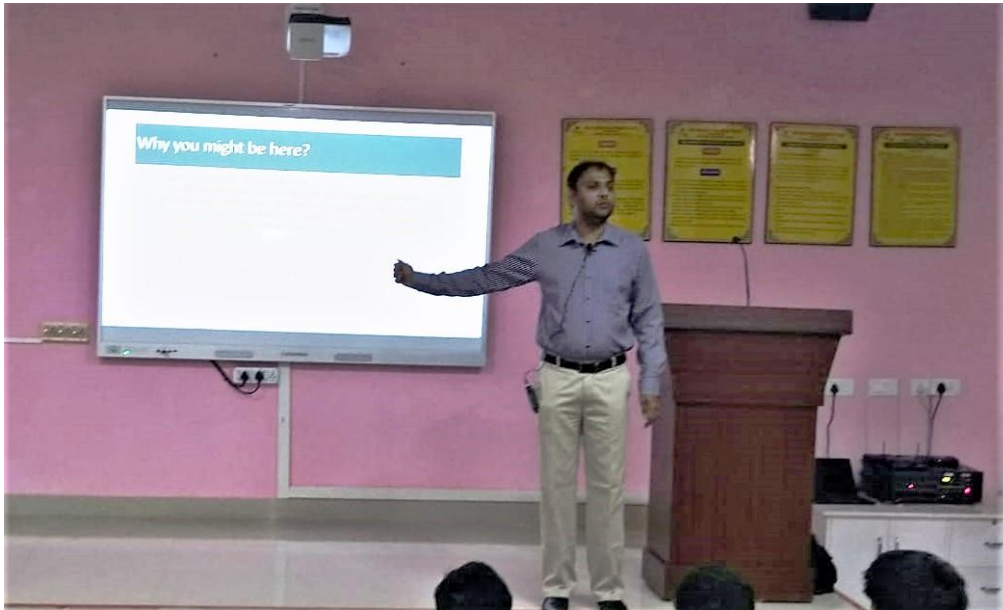
Mobile app development is the process by which a mobile app is developed for mobile devices, such as personal digital assistants, enterprise digital assistants or mobile phones. These applications can be pre-installed on phones during manufacturing platforms, or delivered as web applications using server-side or client-side processing (e.g., JavaScript) to provide an "application-like" experience within a Web browser.

Application software developers must consider a long array of screen sizes, hardware specifications, and configurations because of intense competition in mobile software and changes within each of the platforms. Mobile app development has been steadily growing, in revenues and jobs created.

In this connection, **Mr.Jaya Prakash Arjarapu, Senior Principal Consultant, Oracle India Pvt Limited, Hyderabad**, is about to deliver a series of lecture session on Mobile application Development Course(16BT71202) being offered to III B.Tech II Semester B.Tech CSE students as a Program Elective under SVEC-16 regulations from 20.12.2019. As part of this it was agreed by the Industry expert shall deliver TWO units of course contents comprising of **"Introduction and Mobile User Interface Design"** and **"Activities, Intents and Android User Interface Design"**. Nearly 130 students attended the session in Seminar Hall of SVEC. The first session of the lecture series for the subject was delivered for TWO hours from 9.00 AM to 11.00 AM at SVEC campus. Further, the session is planned to be delivered by the expert online during coming days during their classwork until 07th February of 2020. A Total of 16-20 hours of delivery is expected to be taken up by the expert on the course that will also be in paprallel dealt byfaculty in consultation with the expert.

Outcomes of the Event:

- Latest industry tools and platforms being introduced to students.
- Principles of Mobile User Interface design will be discussed.
- Hands-on session on Android Studio being introduced to students.
- Faculty interacting with industry expert and introducing effective pedagogy for students.



Industry Expert Mr.A.Jaya Prakash, delivering Lecture



Students listening to Session on Mobile Application Development by Industry Expert

AWS Awareness and Accounts Creation Cloud Computing with AWS **27thAugust 2019**

An awareness program on Amazon Web Services was conducted by a team from **APSSDC** for **II and IV B. Tech** CSE Students. In this regard **Mr. Gopi Krishna** from APSSDC team gave a keynote on importance and opportunities to the students in the field of cloud computing with AWS.



Mr. Gopi Krishna addressing the students



Expert Assisting students



Mr. Sarath is assisting the students in account creation process

STUDENT ACHIEVEMENTS:

CETA – COMPUTER ENGINEERS TECHNICAL ASSOCIATION:

CETA CONSOLIDATED WINNERS LIST FOR ODD SEM 2019-20

S. No	Name of the Event	Date	Target Group	Number of Participants	Winners
1	ABC... (Any Body Can Code)	24.07.2019	II B.Tech	63	Winner: M.Gowtham Kumar(5D8)
					Runner: T Umesh Chandra Reddy(5N2)
2	Code Buster-1	27.07.2019	III B.Tech	160	Winner: ONGOLU SUNIL (514)
					Runner: YELLANTI PAVANCHAND (5N5)
3	CINE 'MATH'TRICKS	31.07.2019	II & III B.Tech	80	Winner: A. Ananth Sai(515) B. Sai Charan 522) D.Naveen (553)
					Runner: B.Bharath Kumar(536) B.Uday Kiran(533) C.Jaideep(543)
4	Code Buster-2	03.08.2019	III B.Tech	125	Winner: B.M.Chaitanya(519)
					Runner: M.Manoj Kumar(5D1)
5	WWF (Who Wins First)	06.08.2019	II B.Tech	80	Winners: K Kavyasree(5C2) K Bhuvaneshwari(5C4) M Vaishnavi(5E3)
					Runners: M Tarun Emmanuel(5M9) S Charanya(5L1) V Roopa(5P1)
6	PAYTM (Programming any time)	13.09.2019	II B.Tech	126	Winners: S. Harshavika (5L0)
					Runners: S. Yashitha (5L7)
7	Brain Train (Changing the Way People Think)	20.09.2019	II B.Tech	110	Winners: M.Tarun Emmanuel(5M9) K.Mamatha(19125A0506)
					Runners: K. Maithri(597) R. Abubakr(5B7)

**CETA CONSOLIDATED WINNERS LIST FOR
EVEN SEM 2019-20**

S. No	Name of the Event	Date	Target Group	Number of Participants	Winners
1	Tech whiz	30.12.2019	II B.Tech	124	Winner: 1. V. Naveen Kumar (5N4) Runner: 1. T. Maharshi Reddy (5M8)
2	FUN-TASK-TIK	30.12.2019	III&IV B.Tech	72	Winners: 1.G.Rishitha(569) 2. K Rashmi(5B0) 3. K.keerthi Koumidi(5C0) Runners: 1.L.Divya Lalitha (5C8) 2.M.Puja Priya (5D4) 3.M R.Chandana(5D5)
3	Technocrat s'20	03.01.2020	II B.Tech	69	Winner: 1.N.Gowtham Kumar(5D8) 2.M.Mohith(5F7) Runner: 1.P.Harish(5H7) 2.V. Naveen Kumar(5N4)
4	Cricket	04.01.2020 & 05.01.20	II,III&IV B.Tech	90	Winners(II Year) M TEJA THARUN REDDY(5F0) M VENKATA JAYANTH REDDY(5F4) MULLA ATHAULLA(5F5) N VENKATA PAVAN KUMAR(5G5) RSANDEEP(5K3) MAGHAM GOWTHAM KUMAR(5D8) M SUMANTH SAI CHAITANYA(5D9) SEELAM BHARATH REDDY(5L6) V NAVEEN KUMAR(5N4) V PAVANTEJA REDDY(5N9) Y PRATHYUSH KUMAR(5P5) YERUKULA RAGHAVENDRA(5Q0) D HARSHAVARDHAN REDDY(5Q8) B PRUDHVI (LE-502) M PRASHANTH REDDY(LE-507)

				<u>Runners(IV Year)</u> BASIREDDY JAGADISH REDDY(525) B MOHAN KUMAR(537) CHAVUTURU CHARAN KUMAR(541) CHINTAMANI DARUSSALAM(547) G VISHNU VARDHAN(570) JJAYASAI KIRAN (590) P REDDY PRASWANTH KUMAR(5G6) SAMUNURI SATHISH(5K4) SHIK NIRUGANTI AHMED IYAZ(5L5) TATIPARTHI RAMUKUMAR(5M4) THOMALA OM PRAKASH(5M9) BELLALA REDDY SEKHARA (LE-501)
--	--	--	--	--

THANK YOU