

SRI VENKATESWARA COLLEGE OF ENGINEERING



NEWSLETTER
ACADEMIC YEAR: 2019-2020
(VOL. 2, ISSUE 1)

DEPARTMENT
OF
COMPUTER SCIENCE AND ENGINEERING



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

CSE-BYTES

NEWSLETTER ACADEMIC YEAR: 2019-2020

> VOLUME 2, ISSUE 1 (JUNE 2019 - NOV 2019)





DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

NEWSLETTER

CHIEF PATRON

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PRESIDENT

Dr. R. ANITHA HOD/CSE

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ABOUT THE COLLEGE

Since its inception in 1985, Sri Venkateswara College of Engineering has taken long strides and grown in stature and reputation in the province of engineering education. The College is in its 34th year. In these thirty four years of the journey it has progressed a lot.

It has gained the reputation of offering exceptional engineering education as proven by the scholarly accomplishment of its students. It has also made certain remarkable contributions to engineering education.

Learning, at SVCE, has never been limited to the classroom, learners are exposed to a variety of activities – curricular and extra-curricular – that help them to hone their skills and develop rounded personality, receive a career-focused education and earn a name for themselves and for their alma mater.

ABOUT THE DEPARTMENT

The Department of Computer Science and Engineering was established in the year 1985. Over the past few years, the department has acquired national and international importance. This has been achieved by the collective and responsive effort of the faculty, the supporting staff and the students. The department is well equipped with excellent computing facilities, and has highly qualified faculty specialized in areas like Cloud Computing, Artificial Intelligence, Data Analytics, Networking, Data Mining etc.

Programmes offered by the department are

- B.E. Computer Science and Engineering
- M.E. Computer Science and Engineering
- Ph.D. Computer Science and Engineering



ABOUT THE DEPARTMENT



To excel in providing education and research in the field of computer science and engineering in the cutting edge technology so as to produce competence professional at global level.



- Competent and trained faculty enriching the aptitude of the student to generate innovative and effective problem solving skills with professionalism
- Providing strong research and state of the art facility to the students to face dynamic challenges of industry and society
- Educating the students to be successful, ethical and lifelong learners

MESSAGE FROM HOD





I would like to express my sincere appreciation for all the tremendous efforts put forth by the newsletter team in the academic year 2019-2020. This Newsletter 'CSE-BYTES' is a forum to expose the events, happenings, and achievements in the department as well as provide a platform to exhibit the talents of the budding engineers and the faculty as well.

It also helps in building up teamwork among the students, which is very much important in this competitive world. I hope the students can make use of this opportunity to develop their inherent talents and actively contribute the same to the newsletter.

This newsletter will definitely create an impact in the minds of readers by providing a wider visibility and new dimension to the learning community. I hope that this culture of releasing newsletter will continue forever with the support from both the students and the faculty.

Achievements of the second of

STUDENT ACHIEVEMENTS

Ms.Dhivya C, II CSE won the Rs. 2000 in SSN Math Club from organized by SSN College of Engineering.

Barath G , HareedaranBharathi , Janani V , RaahulKalyaan J of 3rd year CSE A - Section has participated in the finals of Syndicate Bank's Synd Innovate a National Level Hackathon on Sep 28th and 29th, 2019 in Bangalore and ranked among top 7 all over India and received Rs 10,000 as consolation prize for the same.

Ms.AdelaFlorence, Ms.Brammi and Ms.R.Dhivya completed the project titled "Design an Insurance Voice BOT to sell insurance products" for ITMR(Division of Mamta Trust) during July 2019 to December 2019.

Ms.C.Sushmitha and Ms.Subhashree completed the project "Sentiment Analysis" for ITMR(Division of Mamta Trust) during July 2019 to December 2019.

Ms.Anusha, Ms.AnuPriya and Elakkkiya.Pcompleted the project "Design a Mobile App" for ITMR(Division of Mamta Trust) during July 2019 to December 2019.

Mr.Balaji J, of IV CS/A has Secured First Place in the Event Code Collision Conducted by the Department of Computer Science at Chennai Institute of Technology on 06.09.2019.

Ms.Nandhini, Ms.Nivetha and Ms.N.Rajsricompleted the project titled "Design an Insurance Voice BOT to sell insurance products" for ITMR(Division of Mamta Trust) during July 2019 to December 2019.

Ms.T.SruthiVandhana,Ms.S.SriVibhusha na and Mr.K.Sidharthcompleted the project "Web Scrap a tabular data" for ITMR(Division of Mamta Trust) during July 2019 to December 2019.

Mr.Kailash,Mr.Jeeva and Mr.Rajadurai completed the project "Create a a mobile app for Google ssistant" for ITMR(Division of Mamta Trust) during July 2019 to December 2019.

Ms.Aishwarya, Ms.Aparajitha and Mr.Ajay Adithya completed the project "Cursive handwriting" for ITMR(Division of Mamta Trust) during July 2019 to December 2019.

Ms.Abinaya and Ms.Bargavi created a PHP based plug-in for ITMR(Division of Mamta Trust) during July 2019 to December 2019.

Mr.Balaji J, of IV CS/A has Secured First Place in the Event Scrapyard War Conducted by the Department of Computer Science at St Joseph's College of Engineering on 21.09.2019.

STUDENT ACHIEVEMENTS

Mr.Balaji J, of IV CS/A has Secured First Place in the Event Blind Coding Conducted by the Department of Computer Science at Kings Engineering College on 28.09.2019.

Mr.Balaji J, of IV CS/A has Secured Second Place in the Event Deal or No Deal Conducted by the Department of Information Technology at Kings Engineering College on 28.09.2019.

Ms. J Renuka, of IV CS/C has participated in One day Workshop on Brain-Computer Interface organized by department of Computer Science and Engineering, SVCE on 17/09/2019.

Mr.Sudharshan B of First year CS- C has won II prize in the BLOCK AND TACKLE (Debate) event at the Enactus Carnival'19 organized by Enactus,Rajalakshmi Engineering College on 23/09/2019 Chennai.

Arjun Aravind and Divya.G of IV year - CS/A was awarded 'The Best UI' award in YAH! 2k'19, an inter college, 24-hour hackathon conducted by SVCE ACM Student Chapter held on the 21st and 22nd of September 2019 at Cove, Kotturpuram.

Mr.S. SahariKrithik,I / CS , won I place in Gaming-COD conducted at INVENTE 4.0 - A National Level Techfest organized by SSN College of Engineering on September 13 & 14,2019.

Mr.Siddharth J and Ms Sweta K S, featured "a tale as old as time" theatre play production as a part of curtain call svce on 12th october 2019.

Mr.Sudharshan B of First year CS- C has won II prize in the CARPE DIEM(paper presentation) event at the Enactus Carnival'19 organized by Enactus,Rajalakshmi Engineering College on 23/09/2019 Chennai.

Varun Suresh, of CSE- C 3rd Year, and Arjun Arvind, of CSE-A 4th Year, won the third prize at the 'Stars and Stripes' quiz organised by the United States Consulate at Women's Christian Nungambakkam on College, September, 2019. The quiz was an initiative conducted as part of the outreach program of the Department of State. As prizes, the students were given trophies, merchandise and one-year α complementary membership to the US Consulate Library. The theme of the quiz was 'US history, politics, current affairs and culture'.

Hayagreev and Abhinav Krishna of III year CS/A have won a cash prize of Rs.1000 in CYBER INQUEST 2019 conducted on 19.09.2019 SRI OF **VENKATESWARA** COLLEGE ENGINEERING by Ms.SalaiAaviyamma Director of Rex Cyber Solutions and Mr.Bala,, Security Analyst of Rex Cyber Solutions.

Vishnu Priya II Year CS C attended a workshop on "Introduction to Machine Learning" on 25th September 2019 at Sri Venkateswara college of Engineering

Vishnu Priya II Year CS C attended a workshop on "Brain Computer Interface" on 17th September 2019 Sri Venkateswara college of engineering

STUDENT ACHIEVEMENTS

Mr.Nandhakumar A and Mr. Praveen T P of II Year CSE B section students have secured FIRST place with a cash prize of Rs.2000 in the technical competition "TECHIE TECHIE RUMBA" in 11th National Level Intercollegiate Technical and Management Fest conducted by Department of Technology, Information Saveetha Engineering College on Sep 6th, 2019.

Mr.S.Abishek and Mr.R.Aravind of II Year / CS- A won the I prize in Hackers Asylum conducted invente - 4.0 - A National Level Techfest organized by SSN College of Engineering on 13th and 14th September 2019.It carries a cash award of Rs.3000.

Mr.Sudharshan B of First year CS- C has won SPECIAL MENTION (first place) with a cash prize of Rs.2000 in Model United Nations Conference 2019 for his meritorious performance as USA-

Vishal Goel II Year CS-C has attended a workshop on Brain Computer Interface on17 September 2019 at Sri Venkateswara College of Engineering

Mr.BalajiJ,of IV CS/A has Secured First Place in the Event Developers Date Conducted by the Department of Computer Science at Chennai Institute of Technology on 06.09.2019.

Vishnu Priya II Year CS C attended a workshop on "Introduction to Machine Learning " on 25th September 2019 at Sri Venkateswara college of Engineering

Ms.Pojaa RS, III year CSE 'B' Section student has participated in ACM IDEATHON EVENT at SVCE on 06-09-2019 DELEGATE in UNSC at WCCMUN'19 organised by the Department of Corporate Economics on 6th & 7th of September 2019 at WOMEN'S CHRISTIAN COLLEGE, Chennai.

Shwetha R (II yr CS 'C') and her team from SVCE have won third place in Anna University Chess Tournament Zone – 2 held at Rajalakshmi Institute of Technology on 3-Sep-2019. The team members are Divyashree S, Shweta.R,Gayathri J, Jaswanthi B and Jaya Varshini P.

Mr. S. Kailash, IV CS/B has received Schwag Box (A gift box contain a clock and T-Shirt contain Google Cloud Logo) from Google Developers. This is awarded to Mr.S. Kailash for his excellent performance in qwiklabs (12+labs & 10-Quests) on Data Engineering.

Mr.S.Abishek and Mr.R.Aravind of II Year / CS have attended a workshop titled "Who wants to be a Data Scientist?" organized by SSN College of Engineering on 13th September 2019.

Mr. Nandhakumar A and Mr. Praveen T P of II Year CSE B section students have secured FIRST place with a cash prize of Rs.2000 in the technical competition "TECHIE TECHIE RUMBA" in National Level Intercollegiate Technical and Management Fest conducted by Department Information Technology, Saveetha Engineering College on Sep 6th, 2019.

Ms.Abinaya and Ms.Bargavi created a PHP based plug-in for ITMR(Division of Mamta Trust) during July 2019 to December 2019

STUDENT ACHIEVEMENTS

Ms.Sarjhana R , secured a position among top 10 winners of SRM Hackathon on 12th October,2019.

Mr.Sivakumar M, won 1st prize in Ideathon on 6th September 2019 organized by ACM, SVCE.

Mr.Varun S, secured 3rd place in stars and stripes challenge quiz conducted by American consulate on September 2019.

Mr. Rasswanth S, III year CSE 'B' Section student has participated inCompetition conducted by ATHENIUM quiz club at SVCE on 04-09-2019

Mr SooryaPrakash and Mr Shriram S G, secured second place in fandom quiz conducted by quiz club, SVCE on 04/09/2019.

Mr Soorya Rajkumar secured 3rd place in Technical quiz conducted by ACM and Quiz club held on 1st Oct 2019

Sree Vishal R II year CS-C has completed December of algorithm conducted by ACM.

Sree Vishal R II year CS-C got 2nd prize in Know your code conducted by Know I club of SVCE.

Sree Vishal R II year CS-C got 6 stars in problem solving in Hackerrank

Mr. J.Balaji, IV CS/A has secured first place in Streak Coding, National Level Technical Symposium organized by the Department of CS, SRM Institute of Science and Technology, Vadapalani held during 30th and 31st August, 2019

Sree Vishal R II year CS-C has been certified as an educator at Hatch India.

Ms.Pavithra S, Ms.Ramya K, Ms.Reethika S, III year CSE 'B' Section students has participated in INTERRUPT project presentation at SVCE on 24-09-2019

Ms.A.Harini,Ms.DivyaLekha and Ms.G.Divya created "Driver Signature "for ITMR(Division of Mamta Trust) during July 2019 to December 2019

Mr.Rusendran V, Mr. RASSWANTH S, III year CSE 'B' Section students has participated in Power bi workshop at SVCE from 26-09-2019 to 27-09-2019

Mr.Riyazkhan S, Mr.Ramprasath J, Ms.Ramya K, III year CSE 'B' Section students has participated in Hackathon conducted by IT department at SVCE on 11-10-2019

Mr.Ramanathan K, III year CSE 'B' Section students has participated in Artifix Symposium at SVCE on 27-09-2019

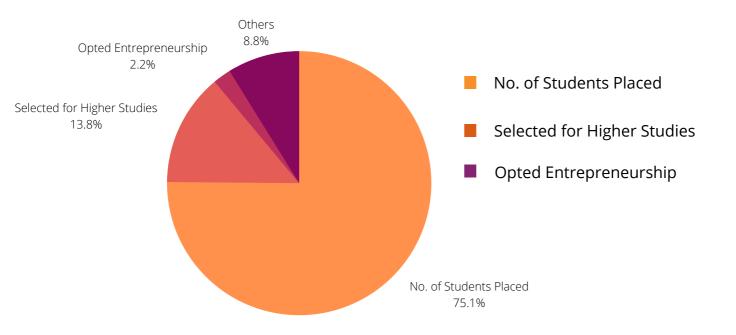
Mr.Ramnarayanan S, Mr.Saiharshith K R, Mr.Prasannakumar P, III year CSE 'B' Section students has participated in SRM HACKATHON at SRM on 11-10-2019

Ms.Athmaja.R, Mr.Kabilesh.R. Mr. Bharath Aakash L.A of III CS/A (Team: "Kill a Watt") has won first place in the "IOT India Congress pop91 competition" event conducted by IET India Services Private Limited("Company") in association with the Skillenza held at The Lalit Ashok (Banglore), during 22th & 23st August 2019.It carries a cash award of Rs.100000/-

Racement Echievements

PLACEMENT ACHIEVEMENTS

Year	Total No. of Students	No. of Stude nts Gradu ated	No. of Students Placed	Selected for Hhigher Studies	Opted Entrepreneurship	Placement Ratio(Z/N)
2019- 2020	181	179	136	25	4	91.16





INDUSTRIAL VISIT

Industrial Visit at Sansbound Solutions Pvt.Ltd

Conducted on 20th and 21st August 2019

The Department of Computer Science and Engineering, Sri Venkateswara College of Engineering organized an Industrial Visit at Sansbound Solutions Pvt.Ltd, Chennai on 20th and 21 of August 2019.

Sansbound Solutions Pvt.ILtd gives training for various networking, Server and Security courses. The students of III year CSE has gone for the Industrial Visit to gain practical knowledge in Networking and to know the latest technologies used by the companies. During the HR talk the students can able to understand the latest trends and industrial expectations from fresh graduates. Around 120 Students and 4 Faculty members have undergone the visit.

The overall feedback regarding the visit from the students is that the training was useful as they demonstrate the networking concepts in practical manner.







CLUB EVENTS

Association of Computing Machinery (ACM)

CO-ORDINATORS: Dr.R.Anitha, Mr T.Rajasekaran.

ACM- Women chapter has organized a workshop on "Web development" especially for Women students of the department on 09/09/2019 by SVCE-ACM Students chapter members.

Yet Another Hackathon!-2k'19-Hackathons are where crazy ideas turn into reality. In collaboration with SVCE alumni association and SVCE-ACM Students chapter organized a national level 24 hours hackathon on 21/09/2019 to 22/09/2019 at The COVE, Chennai. Industrial Experts namely, Mr.Srivatsan Padmanabhan, Director, Accenture Technology Solutions, Mr.Parivalanmanoharan, Exeter Technologies, Mr.Russo Tamilarasan, Wipro Technologies are arrived as a chief guests and acted as a jury members.

ASS-G runs weekly workshops for students from all departments across the college to equip them with Advanced Python Development skills for their career ability. Our net participation count is 300 students.

- OCSE 2nd year August, 2019 December, 2019
- ECE 3rd year January, 2019 Present
- O Automobile 3rd Year January, 2019 Present

CLUB EVENTS

Association of Computer Engineers (ACE)

CO-ORDINATORS: Ms.G.Janakasudha, Mr.K.Srinivasan, Ms. R.Iyswarya

Inauguration of ACE

The Association of Computer Engineers for the academic year 2019-20 was inaugurated by Mr.Jigar doshi, Co-founder, Cheeni labs Pvt. Ltd., Chennai on 8th August, 2019.

Guest Lecture

A guest lecture on "Recent trends in collecting data for learning" was given by Mr.Jigar Doshi, Co-founder, Cheeni labs Pvt. Ltd., Chennai on 8th August, 2019.

Technical Quiz

The Association of Computer Engineers organised 'Technow Quiz', a technical quiz event, for the second and third year students on 29th August, 2019.

Mini project

ACE organised a semester-long mini project event for second and third year students mentored by the final year students who had experience in similar projects.

Game of tags

ACE conducted 'Game of Tags', a front-end web designing event on 20th September, 2019 for second and third year students.

Interrupt'19

A National Level Technical Symposium, "Interrupt'19" was conducted as a part of ACE on 25th September, 2019.

CLUB EVENTS

Association of Computer Engineers (ACE)

Guest Lecture

A guest lecture was given by Ms. Rathna Kamakshi, Head of Product Management at K7 Computing Pvt. Ltd., Chennai, on "Excellence" during the inauguration of Interrupt'19 on 25th September, 2019.

Workshop on "Introduction to Machine Learning"

A hands-on technical workshop on "Introduction to Machine Learning" by Mr.Ajay.R, Research intern at Indian Institute of Technology, Madras, was conducted on September 25th, 2019 by ACE.

CLUB EVENTS

KNOW-I Club

CO-ORDINATORS: Dr.K.S.Gayathri, Ms.T.Padmavathy

1. Inauguration

Inauguration of KNOW-I (Artificial Intelligence) research club for the Academic year 2019 - 2020 on 13 th August 2019 followed by a Guest Lecture on 'Process for Technology Innovation by Dr.Nalinkanth V Ghone, Professor, Dept of Chemical Engineering, SVCE.

2.Guest Lecture

Guest Lecture on Industrial Adoption and Applications of Artificial Intelligence on 21 st August 2019 was taken by Mr. Jayakumar Gopalan, Vice President of Technology, Netomi (formerly msg.ai).

3.Workshop

Brain Computer Interface Workshop on 17 th of September was taken by Mr. Abhishek Panda, Project Associate at Center for Brain Research, IISc Bangalore.

4.Coding Contest

"Know Your Code" was a 3-Week Online event conducted by the Know-I club under the Computer Science Department of SVCE during the weekends of September 2019. The Online event was hosted on the Hackerearth website.

CLUB EVENTS

United Intelligence Club

CO-ORDINATORS:

Dr.R.Anitha, Ms.P.Vinothiyalakshmi and Mr.C.S.Sanoj

PALS Activities: Coordinator: Dr.C.JayaKumar

1.Executive Committee Meeting On 28th June 2019 At The IIT Alumni Club Chennai.

- Pals Requirement: 2 No. from SVCE
- Participation Details: 100% participation by SVCE
- Dr C.Jayakumar, Prof/CSE and Dr Kumararatharan Prof/ECE attended the meeting.
- Topic Discussed:
- Academic year 2019-20 started with Executive committee meeting. Pals people addressed the new events in the PALS calendar.

2.Student Leader Workshop Held at IIT Alumni Club On 31.07.19.

- Pals Requirement: 2 No. from SVCE
- Participation Details: 100% participation by SVCE
- Our college Pals student leader Ms. Anusuya Narayanan (3rd Year Biotech) and Sri Karthick B (3rd year EEE) has attended the same and knows the pals events planned and how to convey the information to our students.

CLUB EVENTS

United Intelligence Club

3.PALS Aspire Lecture at Alpha College of Engineering on 6.8.19.

- Pals Requirement: 30 students from cluster college
- Participation Details: 73.33% participation by SVCE (because of next day of cat exam) EEE: 2, Auto: 3, CS: 3, IT: 3, ECE: 4, Mech: 3, Civil: Nil, Chemical:1 Biotech: nil
- Topic Discussed: Machine learning- Introduction by Mr. Vallabha Deevi, Senior Data Scientist, Tiger Analytics,
- Attitude overcomes altitude by Mr. G.Ramkumar, Executive Director, IOCL

4.Pal's Aspire Lecture at Loyola ICAM College of Engineering and Technology, Chennai on 7th August 2019 at 9.30 Am

- Pals Requirement: 5 students from non cluster college
- Participation Details: More than 100% participation by SVCE
- Auto: 3, cs: nil,IT:1, EEE:Nil,ECE:2, MEch:4 (management related activity), Chemical: Nil, Civil: Nil
- Topic Discussed:
- Single Piece Flow cell manufacturing system for Business growth case study by Mr. Krishnakumar, Former senior VP, Lucas Ltd
- Challenges faced by freshers in First job and how to overcome them by T.hariraj, Chief executive officer, Voltech manufacturing limited

5.PALs online guiz held on 12th July 2019 at SVCE

- Pals requirement : More participation from 2 nd 3 rd Year
- Participation Details: 290 students
- Auto: 65 students from third year and 15 students from second year Automobile Engineering, 35 from Chemical, CS: 11, CE:27, Biotech:16, EEE:27, INT:55, ECE:18, MECh:12,
- Feedback: Students benefited by knowing various domain knowledge

CLUB EVENTS

United Intelligence Club

6.Pals Acquire Lecture at Saveetha Engineering College, Chennai on 8th August 2019

- Pals requirement: 30 students
- Participation Details: 50% Participation (registration link closed during cat time)
- Note: Auto: 3, cs: 1, IT: 3, EEE: 3 ,mech: Nill ece:5 civil: Nil chemical: Nil
- About the Lecture: Emerging Technologies future proofingbyMr.Muralisundaram,
- Technology consultant at NPedia Technlogies.

7.PALS Analyze event at DR. M. G. R Educational & Research Institute, Chennai On 23rd July 2019

- Pals requirement : 12 students
- Participation Details: ECE: 2
- About the Event : Case Study event hosted by Ms Anuradha Shankar , Pals champion, Mr. Krishna kumar, Pals champion

8.IITMAA "Reimagining India in 2030" on 23/07/2019

- Pals requirement: Any students of our college
- Participation Details: 30 ECE students participated in a survey
- About the Event :Sangam is the flagship event of the IIT Madras Alumni Association (IITMAA), which represents about 50,000 alumni of IIT Madras across the globe.
- Sangam 2019 will deliberate the theme "Reimagining India in 2030". As the late Prof. C.K. Prahalad suggested, we will explore ways in which India can assert its economic, technological and moral leadership in the world. The questionnaire on how we can
- shape and envision a new India in the next decade mentioned in the survey.

CLUB EVENTS

United Intelligence Club

9. IITMAA Hackathon held at IIT madras on 03/08/2019

- Pals requirement: open to Machine Learning enthusiasts
- Participation Details: 3 students from ECE participated
- About the event: ML developers of the country can grab this
 opportunity to work in the Sangam Hackathon involving a
 proprietary time-series pollution data set that the IIT Madras
 project will unveil for the first time.

10. Theory to Practice (T2P) Lecture at IIT Madras on 19th August, 2019

- Pals Requirement: 10 Nos
- Participation Details: AUTO: 4, Mech : 1 (as the Lecture was based on automobile department other departments didn't participate.) OLecture Topic : Engineering Research Solutions to Bio and Thermal Problems by Prof. Arunn Narasimhan, Professor, Mechanical Engineering Department, IITM.
- Abstract of talk: Engineering solutions translate scientific understanding into appropriate technologies to transform society.

 Research solutions for engineering problems in thermal and biological systems discussed

11. Pals Acquire Lecture at KCG College of Technology 18 th September 2019

- Pals Requirement: 4 members in a team and each college should produce 3 teams. So totally 12 participants from each college.
 And audiences were also asked to arrange from each of the colleges.
- Participation Details: 100% participation from our college.

CLUB EVENTS

United Intelligence Club

12.PALS Analyse At SVCE, CHENNAI on 28th of august 2019

- Participation Details: 100% participation from our college.
- AUTO:6 CSE:2 EEE: 5 ECE:7 MECH:10 CHEM:6 + 5 students as audience from each department mentioned in this event.
- Feedback by IT student: III year IT B student Rahul R K has participated in this event and he is in the team called "TEAM VIPERS". He had a new experience in interdomain projects.

13. Thinkathon at HIT, CHENNAI on 29th August 2019

- Pals Requirement: Selected students in the online quiz and the student leaders.
- Participation Details: 100% participation from our college.
- CHEM: 2 ECE: 2 EEE:1 IT: 5 CSE:2 BIO: 2 AUTO:0 CIVIL: NIL.

14. Visit to IIT Madras Research Park, Chennai on 19.08.2019

- Pals Requirement: 20 participants from each college.
- Participation Details: EEE:1 AUTO:1 CIVIL:1 BIO:1 CSE:1 IT: 1 CHEM: 1, ECE:1
- Faculty: Dr C.JAYAKUMAR/CS
- About the visit: CEOs from various domain explained the strategy adopted in their company and the internship requirements.

15. Pals Aspire Lecture at VIT Chennai on 9th September 2019

- Pals Requirement:10 No
- Participation Details: AUTO 2 CSE:3 CHEM:3 ECE:4 EEE:NIL IT:3 AUTO:NIL CIV:NIL, Mech; 1
- About the event: Connected Things by Mr.Vijay Karthick kumbeswaran,
- President& CEO,ConcinnatePartners, Recentinnovationin waste management-life cycle concepts by Dr Indhumathi Nambi, Professor, Department of Civil, IIT madras

CLUB EVENTS

United Intelligence Club

16. Pals Residential Student Workshop at IIT Madras

- PALS requirement: Selected students from Thinkathon.
- Participation Details: EEE:1 BIO: 1, ECE:1,INT:2
- Feedback from the participant(Winner)
- Lecture on "Engineering Inspired from Art" by Dr. Sathiya Seelan was very interesting. "Appreciating and Creating Music" by Mr. N Sridar was a very fun filling session. Ms. Anuradha Shankar's "Problem Statement Discussion and Creative Thinking" was a very helpful session. We learnt how a problem should be approached
- and how a solution can be found by having group discussions. Prof. Sivakumar Srinivasan's Lecture on "Engineering Sense" made us to think how to implement our engineering principles practically. "Biomimetics Design" by Prof. Prabhu Rajagopal was an eye opener to all nature lovers, he told us how we can use all the nature's ideas into robotics. Lab visits was the best part, we were able to observe many new innovations and inventions.

17. Tinkathon Web Launch Event on 09.07.2019.

- 1 student from ECE attended in IIT-M Campus
- Event 17: PALS T2PLecture AT IIT MADRAS ON 12th September 2019
- PALS requirement: 10 No
- Participation Details: MECH:9
- About the Lecture: Braking of Road vehicle by Prof C.S.Shankar Ram, Professor, Department of Engineering Design, IIT madras, & Mr. Nedunuri Kartheek, Lead Engineer(Vehicle validation-auto division), Mahindra Research valley, Mahindra & Mahindra Itd.

CLUB EVENTS

Cyber Hub

Mr.K.Kumanan and Mr.Suresh Kumar Assistant Professors organized a four-day webinar series titled Cyber Security and Networking" as a part of Cyber Hub.

CLUB EVENTS

Quiz Club

ABOUT THE CLUB

The Athenium Club has remained one of SVCE's premier organizations due to its vast outreach and wide exposure. The club has managed to fulfill the interests of all department students and has consistently witnessed an overwhelming response from the student community. Every year, the club has managed to widen its outreach by conducting events that embrace the inquisitiveness of the overall student body and this year was no different. The club began the year, with a primary goal, which was to drive a positive change not only amongst the quiz community but to also

encourage the general student body to involve themselves and get a head start into the challenging world of quizzing by organizing events that allow students to work and expend their grey cells.

FANDOM QUIZ

As part of the club's motive to engage more students by creating an active social media presence, The Club conducted a survey on its Instagram handle asking the student community for suggestions for the club's first event. After receiving a unanimous response, the preparation for the FANDOM quiz was set in motion. The quiz featured topics ranging from Box Office Movies to TV Shows. The quiz was met with widespread acclaim with a staggering 120+ students applying for the preliminary round. The event was

conducted across two days with the preliminary round conducted on 03/09/2019. Out of the 120+ applicant pool, six teams of two students each were selected to progress to the final rounds which was conducted on 04/09/2019. The sheer vigor and passion expressed by the participants stood testimony to the success of the event.

TECH QUIZ

The Tech Quiz was conducted on 01/10/2019 in collaboration with the SVCE ACM Student Chapter exclusively for the students of the Computer Science and Engineering Discipline. With an application pool of over 60+ students, the vigorous battle of wits was conducted across two rounds, with six teams qualifying for the final round. The final round featured four segments namely Abstract Poster Round, Connect the dots, logo identification and Debugging. The event was witnessed by the students of the ACM SVCE-Chapter and the Speaker's Forum of SVCE.

CLUB EVENTS

Quiz Club

UNARTIFICIAL INTELLIGENCE

After the overwhelming response received for the Tech Quiz, the Athenium Club decided to organize a quiz in collaboration with the Know-I Club, a technical club under the Computer Science and Engineering Department for Artificial Intelligence enthusiasts. The quiz featured over 40 students from the Computer Science Discipline actively participating in this one of a kind quiz.

The finals featured 8 teams of two students each, In addition to the above events, we are also in the process of organizing a number of other events as well. The Conundrum 2020 Student Quiz is targeted at 9th-12th Grade school students and provides them an opportunity to get their feet wet in the world of quizzing.

We strive to keep the student community zestful by organizing an array of funfilled quizzes, each aimed to bolster the knowledge of students, all while cultivating an inclusive and supportive community for those interested in the realm of quizzing.



RESEARCH SUPERVISORS



Dr. R.Anitha



Dr. C.Jayakumar



Dr. J.M.Gnanasekar



Dr. N.Rajeswari

RESEARCH ACTIVITIES

- Research Activities
- Research centre status of the department: Recognized as a research centre on 28 January 2010.
- Number of faculty in the Department: 33
- Number of faculty with Ph D qualification: 8
- Number of faculty pursuing Ph D : 11 (SVCE research centre AU) +5 (External)
- Number of supervisors: 4
- Number of research scholars (FT/PT) in the department research centre: 15



Publications Details

Publications in Journal

- C. Muralidharan, R. Anitha wrote on the topic, "Risk Analysis of Cloud Service Providers by Analyzing the Frequency of Occurrence of Problems using E-Eclat Algorithm", which is featured in the International Journal of Wireless Networks, Springer, ISSN 1022-0038, DOI 10.1007/s11276-019-02191-4, Nov 2019. (Annexure I) Impact factor 2.65.
- Subbaih Swaminathan, K.Naresh, K.Kumanan wrote on the topic, "An Enhanced Load Balancing In Cloud Environment Using ANT Colony Optimization(MLB-ACO) Algorithm", which is featured in the Journal of Green Engineering, Vol 10. Issue 6, Page No. 2995-3005.
- E. Subramanian, C. S. Sanoj wrote on the topic, "Replication of Quantum Computing Towards an Unconventional Environment using QuIDE", which is featured in the International Journal of Recent Technology and Engineering (IJRTE) ISSN:2277-3878, Volume-8 Issue-4, pp. 9461-9464, November 2019.
- P. Vinothiyalakshmi, R. Anitha wrote on the topic, "Workload Mining in Cloud Computing using Extended Cloud Dempster-Shafer Theory (ECDST)", which is featured in the International Journal Wireless Personal Communications, ISSN 0929-6212, DOI 10.1007/s11277-020-07368-1, Springer Annexure I impact factor (1.9).
- A. C. Santha Sheela, C. Jayakumar wrote about, "Efficient Semantic Based Web Page Duplicate Detection Using SWP-RMA", featured in the Life Science Journal, Mitteilungen Klosterneuburg 69, 13-25, Feb 2019.
- S. Jancy, C. Jayakumar wrote about, "Sequence Statistical Code Based Data Compression Algorithm for Wireless Sensor Network", featured in the Wireless Personal Communications, pp. 971–985, Springer, April 2019. (Scopus Indexed).
- B. Praveen Kumar, D. Paulraj wrote about, "An Efficient Algorithm for Mining Frequent Itemsets in Large Databases", featured in the Journal of Applied Mathematics and Information Sciences, vol 13, Issue 6, Nov 2019,pp 913-921. doi:10.18576/amis/13060ISI Impact Factor: 1.232.(Annexure I 2018).
- S. Gokulakrishnan, J. M. Gnanasekar wrote about, "Data Integrity management for detection of redundancy and recurrence patterns in cloud", featured in the Journal of Ambient Intelligence and Humanized Computing, Springer. Oct 2019. IF: 1.91 ISSN 1868-5137 (Annexure I).



Publications Details

Publications in Journal

- S. Gokulakrishnan, J. M. Gnanasekar wrote about, "Efficient and Privacy for Data Integrity and Data Replication in Cloud Computing", featured in the International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-8 Issue-12, October, 2019.
- T.Rajasekaran, Dr.Sumathi Eswaran, Dr.A.Rengarajan, Dr.T.V.Ananthan published about, "Traffic sign and Obstacle detection in Vehicular Ad-Hoc Network (VANET) using HOG and Haar Classifier Techniques", featured in the International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN:2278-3075, Vol-8, Issue-10, August 2019.
- T.Rajasekaran, Dr.Sumathi Eswaran, Dr.A.Rengarajan, Dr.T.V.Ananthan published about,
 "Active Safety with Traffic Sign Recognition System in Vehicular Ad-Hoc Network (Vanet) using Classifier Techniques", featured in the International Journal of Recent Technology and Engineering (IJRET), ISSN:22773878, Vol-8, Issue-2, July 2019.
- T. Padmavathy and R. Anitha, "Categorization of Virtual Machine in Cloud SDN Environment using ELM A Discriminative Classifier", International Conference on Information and Communication Technology for Competitive Strategies (ICTCS 2019), 13-14 Dec 2019, Bhupal Nobles' University, Udaipur.



Publications Details

Publications in Conferences

- S. Harish and K. S. Gayathri, (2019), "Smart Home based Prediction of Symptoms of Alzheimer's Disease using Machine Learning and Contextual Approach," 2019 International Conference on Computational Intelligence in Data Science (ICCIDS), Chennai, India, pp. 1-6, Publisher IEEE. doi: 10.1109/ICCIDS.2019.8862163.
- Abishaik Mohan, R. Deepak Raju, Dr. P. Janarthanan, presented a paper titled "Animal Disease Diagnosis Expert System using Convolutional Neural Networks", International Conference on Intelligent Sustainable Systems (ICISS 2019) pp.453-458.
- NipatJongsawat, S. Appavu Alias, N. M. Balamurugan, presented a paper titled "Internet of Things and Big Data Mining based Smart Real Time Water Management System for Housing Societies and Precision Agriculture", in the 1st RMUTT Food Innovation and Smart Farm International Conference, July 5-6, 2019 held at Rajamangala University of Technology Thanyaburi, Thailand.
- Rohini A & Anitha R, R. Arthi, S. Asha Rani, K. Keerthi, presented a paper titled "JUNO A Juvenile Utility Robot", Proc. in the "International Conference on Innovative and Emerging Trends in Engineering and Expert Technology", pp.245-252, 2019.
- Sakthivel E & Anitha R (2019), presented a paper titled "Designing A 5G Network-An SDN-NFV Approach Using Cost Optimal Models For Heterogeneous Network", Proc. in the "International Conference on Innovative and Emerging Trends in Engineering and Expert Technology", pp 293-299, 2019.
- Madhuvanti M & Anitha R (2019), published a paper titled "Comparison of Breast Cancer Multi-Class Classification Accuracy" based on Inception and Inception ResNet Architecture", in the Proc. Lecture Notes on Data Engineering and Communication Technologies, Springer, pp. 455-462. ISSN: 2367-4512
- Sakthivel E & Anitha R (2019), published a paper titled "Detracting TCP SYN Flooding Attacks in Software Defined Networking Environment", in the Proc. Lecture Notes on Data Engineering and Communication Technologies, Springer, pp. 194-204. ISSN: 2367-4512.

Publications Details

Publications in Conferences

- Hemavathy M & Anitha R (2019), published a paper titled "Green Aware Based VM-Placement in Cloud Computing Environment using Extended Multiple Linear Regression Model", in the Proc. Lecture Notes on Data Engineering and Communication Technologies, Springer, pp.1548-1556. ISSN: 2367-4512
- Rajalakshmi V, Sasikala D and Kala A. (2019) "A Predictive Analysis for Heart Disease Using Machine Learning" International Conference on Recent Advances in Communication, Energy and Sensors(RACES-2019), Sathyabama University in association with University of DERBY, 13th-15thNovember, 2019.

FACULTY PARTICIPATION

Dr.R.Anitha and Ms.S.Poorani organized a Two Days workshop on "Multitudinal Databases" at SVCE from 16/10/2019 to 17/10/2019.

Dr. P.Janarthanan, Assoc.Prof, Mr.K.Srinivasan, Ms.R.Bhuvaneswari Assistant Professors organized webinar on "Tips to Succeed in Workplace".

Dr.P.Janarthanan, Assoc.Prof/CS, and Mr.K.Srinivasan, Asst.Prof/CS organized a Two days workshop on "Data Analytics using POWER BI" at SVCE from 26/09/2019 to 27/09/2019

The Association of Computer Engineers, Department of Computer Science and Engineering, organized a National Level Technical Symposium - Interrupt'19 on 25/09/2019 at Function Hall. Ms. K.Rathna Kamakshi, Head Development, K7 Antivirus,

The department of Computer Science and Engineering organized a One day Industry based hands on workshop on "Selenium Automation Testing" on 29th August 2019. The event was coordinated by Mr.K. Kumanan, Mr.C.S. Sanoj and Mr.B. Praveen Kumar.

The Know-I (Artificial Intelligence) research club. Department Computer Science and Engineering, organized a one day workshop on "Brain Computer Interface" on 17th September 2019. Mr. Abhishek Panda, Project Associate at the Centre for Research, IISc Banaalore handled the day long workshop where 75 students and 8 faculty participants present. The event coordinated by Dr.K.S.Gayathri, Ms.T.Padmavathy and Dr.N.Rajeswari.

Dr. R.Anitha, Prof/CS, Ms. S.Poorani, Ms. Muthunagai, Ms. R.Iyswarya, AP/CS organized two-days Industry Based Hands on Workshop on Recent Trends Driving the Future in IT industry" on 13th and 14th August, 2019.

Dr. R.Jayabhaduri, Assoc.Prof/CS and Ms. V.Rajalakshmi AP/CS organized a national workshop titled "Internet of Things/No SQL Databases" on 30thAugust, 2019.

Dr.K.S.Gayathri, Associate Professor, organized a Industry Academia interaction program with Cognizant for CSE and IT faculty members at SVCE on 23-Jul-2019

EXPERT LECTURES DELIVERED IN OTHER COLLEGES

Ms. S.Rajalakshmi, AP/CS, conducted a workshop on "Python" on 01.06.2019 and 15.06.2019 for the computer faculties of Shree Niketan Matric Higher Secondary School, Thiruvallur.

Dr.R. Jayabhaduri, Associate Professor/CS, Conducted a Practical Session on "Lists, Tuples and Dictionaries in Python" in Anna University co-sponsored 6-Daya FDP on "GE8151 - Problem Solving and Python Programming" at SSN College of Engineering(13th June 2019)

EXPERT LECTURES SVCE

Dr.R.Anitha, Prof&HoD/CS

Acted as Resource person for Two Days workshop on "Multitudinal Databases", SVCE, from 16/10/2019 to 17/10/2019.

Acted as resource person in the 3-days National level workshop on Industry 4.0, SVCE.

Acted as resource person in AICTE sponsored short term training program in "Instrumental Methods of Analysis" 4th Nov 2019 to 9th Nov 2019.

Acted as Resource person for "10-Days workshop on Automotive Embedded Systems with IoT and Cloud Computing" from 17/06/2019 to 28/06/2019.

Acted as a Resource person in National level workshop on Industry 4.0 held on 29th August to 31st August 2019, conducted by the Department of Mechanical Engineering, SVCE, Sriperumbudur.

Reviewed a Book chapter published by Springer - "Towards Connected and Autonomous Vehicle Highway: Technical, Security and Ethical Hacking.



EXPERT LECTURES SVCE

Dr.N.M.Balamurugan, Associate Professor, CSE

Handled a session on "Classification and Clustering" during two days National Workshop on "Deep Learning Simplified" organized by the department of Computer Science and

Dr.K.S.Gayathri, Associate Professor

Presented a technical talk on 'Fuzzy expert systems' in FDTP in Soft Computing Techniques and their applications on June 12, 2019.

Delivered "Internet of Things: Trends, Applications and Research Directions" for National Workshop on "Internet of Things | NoSQL Databases" organized by the department of Computer Science and Engineering, Sri Venkateswara College of Engineering on August 30,2019

Ms.S.Rajalakshmi Asst.Prof

Delivered a lecture on the topic "Supervised Learning" in Six days Faculty Development Program (FDP) on "Machine Learning & Cyber Security" December 9th - 14th 2019 at CSE Dept., SVCE.

Ms. R.Gayathri, Asst.Prof

Acted as a resource person for Two Days workshop on "Multitudinal Databases", SVCE, from 16/10/2019 to 17/10/2019.

Ms.P.Vinothiyalakshmi, Asst.Prof

acted as a resource person for Two Days workshop on "Multitudinal Databases", SVCE, from 16/10/2019 to 17/10/2019.

Acted as a resource person for "10-Days workshop on Automotive Embedded Systems with IoT and Cloud Computing" from 17/06/2019 to 28/06/2019.

Ms.D.Sasikala, Asst.Prof

Delivered a talk "Working with files, Numpy, Scipy and Pandas" titled on 09/12/2019 during Six- Day FDP on Machine Learning and Cyber Security from 09/12/2019-14/12/2019.

Ms. V.Rajalakshmi, Asst.Prof

Delivered a lecture on the topic "NoSQL Databases" in Two days Hands on Workshop on Multitudinal Databases during October 16th – 17th, 2019 at CSE Dept., SVCE.

Dr.N.Rajeswari, Associate Professor

Delivered Talk on "Perceptron Learning algorithm and Support Vector Machines" in 6- days FDP on "Machine Learning and Cyber Security" during December 9-13, 2019.

Reviewer for International Journal of Cloud Computing (IJCC), Inderscience publishers.

FACULTY PARTICIPATION

Dr. R. Anitha, Prof/CS completed

- Cloud Computing conducted by NPTEL during November 2019.
- 4 weeks course on The 3D Printing Revolution conducted through Coursera.
- 3. 4 weeks course on AI For Everyone conducted through Coursera
- 4. 4 weeks course on Introduction to Augmented Reality and ARCore conducted through Coursera.
- 5. 4 weeks course on Basic Data Descriptors, Statistical Distributions, and Application to Business Decisions conducted through Coursera.
- 6. 3 weeks course on Introduction to Big Data conducted through Coursera.
- 7. 4 weeks course on Leadership and Emotional Intelligence conducted through Coursera.
- 8. 4 weeks course on Introduction to Data Science in Python conducted through Coursera.
- 4 weeks course on Data Science
 Math Skills conducted through
 Coursera
- 10. 4 weeks course on Foundations of Everyday Leadership conducted through Coursera

- 11. 4 weeks course on Introduction to the Internet of Things and Embedded Systems conducted through Coursera.
- 12. 4 weeks course on Introduction to Self-Driving Cars conducted through Coursera
- 13. 12 weeks course on Machine Learning conducted through Coursera
- 14. 4 weeks course on Making Successful Decisions through the Strategy, Law & Ethics Model" conducted through Coursera
- 15. 4 weeks course on Matrix Algebra for Engineers conducted through Coursera
- 16. 4 weeks course on Neural Networks and Deep Learning conducted through Coursera

<u>Dr. C.Jayakumar ASP/CS, completed</u>

1. Completed 6 Month course on "Deep Learning " by Padhai , IIT madras Initiative.

FACULTY PARTICIPATION

<u>Dr. P.Janarthanan ASP/CS,</u> <u>completed 6 courses offered by</u> Coursera:

- 1. Introduction to HTML 5
- 2. Foundations of Everyday Leadership
- 3. Machine Learning for All
- 4.Programming for Everybody (Getting Started with Python)
- 5. Python Data Structures
- 6. Al For Everyone

Dr. K.S.Gayathri ASP/CS completed

"The Data Scientist's Toolbox" offered by Coursera

Dr.N.Rajeswari, ASP/CS completed

- 1. PadhAI- Deep Learning conducted by One Fourth Labs during December 2019.
- 2. Dr.N.Rajeswari, Assoc.Prof/CS completed Introduction to Japanese Language and Culture conducted by NPTEL, IIT Kanpur during July-October 2019.

Ms. J.Buvana AP/CS completed

- "Programming for everybody" offered by Coursera
- 2. "Introduction to HTML 5" offered by Coursera

- 3. Sequence Models offered by Coursera
- 4. Neural Networks and Deep Learning offered by Coursera
- 5. Mathematics for Machine Learning: Multivariate Calculus offered by Coursera

Ms.V.Rajalakshmi, Asst.Prof/CS completed

- 1. Python for Data Science conducted by NPTEL,IIT Madras during September 2019.
- Programming for Everybody (Getting Started with Python) offered by Coursera
- 3. Al For Everyone offered by Coursera

Ms.G.Janakasudha, Asst.Prof/CS completed

- 1. Python for Data Science conducted by NPTEL,IIT Madras during September 2019.
- 2. Deep Learning Part 1 offered by NPTEL, IIT during October 2019

FACULTY PARTICIPATION

MS.T.Padmavathy, Asst.Prof/CS

- 1. Completed Getting started with Al using IBM Watson conducted by IBM by Coursera during November 2019.
- 2. Completed Introduction to Genomic technologies conducted by John Hopkins University by Courseera during November 2019.

Ms. P.Vinothiyalakshmi, AP/CS, completed

- 1. Programming for Everybody offered by Coursera
- 2. Python Data Structures offered by Coursera
- 3. Introduction and programming with IoT Boards offered by Coursera
- 4. Using Python to access web data offered by Coursera

Ms.S.Poorani, Asst.Prof/CS

- 1. Completed "Introduction to AI" by course era.
- 2. certified for online course authorized by university of Illinois at urbana-Champaign and offered by coursera titled "Cloud Computing Applications -Cloud Systems and Infrastructure" on Mar2019.
- 3. "Cloud Computing Applications:
 Part1Cloud Systems and
 Infrastructure" organized by
 Coursera

Ms. S.Rajalakshmi AP/CS completed

- Data Science Math Skills offered by Coursera
- 2. The Science of Well-Being offered by Coursera
- 3. Programming for Everybody offered by Coursera
- 4. The Data Scientist's Toolbox offered by Coursera
- 5. Everyday Parenting: The ABCs of Child Rearing offered by Coursera
- 6. Curanderismo: Traditional Healing of the Body offered by Coursera

Mr.B.Praveen Kumar, Asst.Prof/CS

1. Completed "Introduction to AI" by course era.

Mr.T.Rajasekaran AP/CS completed 3 courses offered by Coursera:

- 1. Programming for Everybody
- 2. Excel Skills for Business Essential
- 3. Predicting House Price with Regression using Tensor Flow

Mr.P.Selvamani AP/CS completed the following courses offered by Coursera

- 1. Al for Everyone
- 2. Programming for Everybody
- 3. Cloud Computing Applications

FACULTY PARTICIPATION

Ms.Sasikala.D, Asst.Prof/CS completed

- 1. Python for Data Science conducted by NPTEL,IIT Madras during September 2019.
- 2. "Introduction to Clinical Data Science" offered by Coursera
- 3. "Al For Everyone " offered by Coursera
- 4. "Neural Networks and Deep Learning", offered by Coursera

Ms.S.Senthamizhselvi AP/CS completed

- "Al For Everyone" , offered by Coursera
- 2. "Neural Networks and Deep Learning" offered by Coursera
- 3. "Improving Deep Neural Networks: Hyper parameter tuning, Regularization and Optimization" offered by Coursera
- 4. "Sequence Models" offered by Coursera
- 5. "Python 101 for Data Science" offered by Cognitive Class

Mr.C.S.Sanoj AP/CS completed the following courses offered by Coursera

- 1. Introduction to Machine Learning
- 2. Introduction to Virtual Reality
- 3. Business Analytics for Decision Making
- 4. The Data Scientists' Toolbox
- 5. AWS Fundamentals Going Cloud Native
- 6. AWS Fundamentals Building Server less Applications
- 7. AWS Fundamentals Migrating to the Cloud
- 8. AWS Fundamentals Addressing Security Risk
- 9. Excel Skills for Business Essentials
- 10. Agile Planning for Software Products
- 11. Data Analytics for Lean Six Sigma, and Al For Everyone

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

NEWSLETTER

Prepared By

Dr. N. RAJGANESH, ASP/CSE Mr. S. D. NANDAKUMAR, AP/CSE Ms. R. POORNI, AP/CSE Ms. P. KAVIYA, AP/CSE

CORE TEAM

NIYAS HAMEED R.F
AADESH VIJAYARAGHAVAN
THEJASWINI S.R
PAVADHARNI SHANMUGAM
SIBI MUGHIL T
SHRUTHIKA S
PRIYANKA ANANTH

