



# VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai. (AUTONOMOUS)  
Accredited by NAAC with 'A' Grade

## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (Accredited by NBA)

# MAGAZINE 2019-2020 TECH BUZZ





# VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous)

Accredited by NAAC with 'A' Grade

Thindal, Erode – 638 012

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

(Accredited by NBA)

## TECH BUZZ 2019-2020

### Editorial Board

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Second CSE

### MESSAGE FROM THE HOD

Learning is a continuous process and does not end with the acquisition of a degree, especially because steady and rapid advances in computing technologies shorten the life of tools and techniques prevalent today. Therefore we do not aim to make our students walking manuals of any language or package. Instead, they are given a strong foundation in computer science and problem-solving techniques, and are made adaptable to changes. Our Department has produced hundreds of professionals and has established a name for it. They have consistently excelled in the highly competitive industrial environment, Best Employer/ awards in top-ranking companies. We believe that this approach to teaching- learning, coupled with practical experience gained during Industrial Training in reputed organizations, equips our students to handle the challenges posed by the software industry.



### VISION

To produce competent professionals for a globalized technological society by preparing them to become part of the industry and research organizations in the field of science and technology and orient them towards serving the society.

### MISSION

- Strengthening the core competence in Computer Science and Engineering through analytical learning and Industry - Institute interaction.
- Providing exposure to latest tools and technologies in the core area to design solutions and conduct investigations.
- Promoting innovative research based projects / activities in the emerging areas of technology convergence.
- Inculcating professional behavior, strong ethical values, leadership abilities, entrepreneurship skills and commitment to lifelong learning

### PROGRAM EDUCATIONAL OBJECTIVES

#### Our graduates after few years of graduation will:

Preparation: Develop professional skills for a successful professional career as an engineer, scientist, technocrat, administrator or an entrepreneur.

Core Competence: Design and implement practical systems consisting of software and/or hardware components through the key principles and practices of computation, mathematics and basic principles of engineering.

Multidisciplinary: Design and apply new ideas and technologies as the field evolves, to solve real world problems in related interdisciplinary areas.

Professional Environment: Demonstrate professional attitude and ethics, effective communication, team work and managerial skills for societal, environmental and global context.

Learning Environment: Engage in continuing education and training and acquire professional competence through lifelong learning.

## **PROGRAM OUTCOMES**

### **Graduates will be able to**

**PO1:** Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

**PO2:** Problem Analysis: Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

**PO3:** Design/Development of Solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

**PO4:** Conduct Investigations of Complex Problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions for complex problems.

**PO5:** Modern Tool Usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

**PO6:** The Engineer and Society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

**PO7:** Environment and Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

**PO8:** Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**PO9:** Individual and Team Work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**PO10:** Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

**PO11:** Project Management and Finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**PO12:** Life-long Learning: Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

## **PROGRAM SPECIFIC OUTCOMES**

**PSO1.** Apply a variety of programming skills to solve business problems

**PSO2.** Apply design principles in the construction of computing systems and expert systems of varying complexity.



## MOU ACTIVITIES

- MoU was signed between department of CSE and Pantech Solutions on 07.04.2020

## PROGRAMS ORGANIZED

### CSIR SEMINAR

Dr.S.Jabeen Begum, Ms.D.Lavanya & Ms.S.Subathra has organized two days CSIR sponsored National Level Seminar on “Machine Learning for Data Science and Analytics” from 21.08.2019 to 22.08.2019 at Velalar College of Engineering and Technology, Erode. Mr.S.P.Siddique Ibrahim and Ms.D.YamunaThangam, Assistant Professors, Department of

CSE, Kumaraguru College of Technology, Coimbatore was served as Resource persons on 21.08.19. Mr.R.Bharath and Mr.G.Latchumanan from Pantech Solutions, Coimbatore was served as Resource persons on 22.08.19



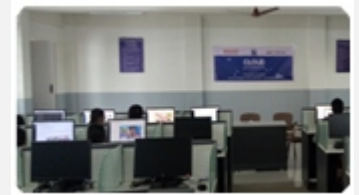
We have conducted the Technical Seminar on “FUNDAMENTALS OF CLOUD COMPUTING & AWS”, Thursday on 03.10.2019 at 2.00 pm.

CSI and ISTE organized a multimedia presentation for students on “COVID-19” on 14.05.2020

CSI meet 2020 was organized on 07.03.2020

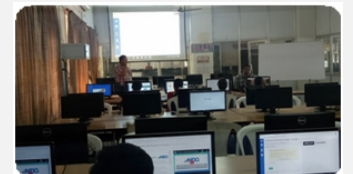
### ICT ACADEMY

We have conducted “Cloud Literacy Day’2019” in coordination with ICT Academy on 23.10.2019 and 24.10.2019 for all the first and second year UG students. The objective of this function is to know about the basics of Cloud infrastructure and to enhance the self- learning capability of the students.



- ICT Academy in association with The Hindu Group organized ‘National Communication Skill Challenge 2019-20’ programme at Velalar College of Engineering and Technology, Erode, Tamil Nadu on 20.01.2020. Around 100 students participated in the program. The program was conducted to enable students to learn and improve the communicative English skills

- ICT Academy in association with VMware IT Academy organized ‘VITA Day – 2020’ at Velalar College of Engineering and Technology, Erode, Tamil Nadu on 25.01.2020. Around 110 students participated in the program. The program was conducted to enable students to learn Software-Defined Storage Concepts through self-learning modules.



- ICT Academy in association with Automation Anywhere organized ‘BOT Unleashed’ programme at Velalar College of Engineering and Technology, Erode, Tamil Nadu on 29.01.2020. Around 300 students participated in the training programme. Robotic Process Automation is mainly used to automate repetitive tasks and manual processes by using software robots.

### FOSS Training

FOSS Training and Test programme has been conducted for the students by Ms.K.Mohanapriya

- 109 students of second year in Advanced Cpp participated.
- 105 students of third year in Blender participated.
- 99 students of final year in LaTeX participated.



## ISTE

- 19th ISTE TN Section Annual Convention of Engineering Students 2019 was organized on 18.12.2019
- Technical seminar on 'DEVOPS & Automation system' was conducted on 29.02.2020
- Dr.S.Sadash, Mr.K.Tharani and Dr.S.Gokulraj organized a five days Online Faculty Development Programme on "The Scope and Impact of Open Source Technologies" from 26.05.2020 to 30.05.2020.
- Dr.V.Latha Jothi, Ms.S.Kayalvili and Ms.K.Mohanapriya organized a five days Online Student Enrichment Programme on "Future Technologies" from 20.05.2020 to 24.05.2020.
- Dr.S.JabeenBegum, Ms.S.Ponni and Ms.S.Vishnupriya organized a one day Webinar on "Insight to future business technologies" from 13.06.2020.
- Dr.S.JabeenBegum, Ms.S.Vishnupriya, Ms.T.Dhanur Bhavidhira, Ms.S.Poovizhi, Ms.S.Nithya and Ms.S.Ponni organized a four days Students Refresher Programme on "Online Programming Skill Refresher Series on C Programming" from 15.06.2020 to 18.06.2020.
- Ms.M.MohanaSundari, Ms.K.Mohanapriya, Ms.D.Lavanya and Ms.S.Subathra organized a three days Online Hands-on training on "Data Science" from 15.06.2020 to 17.06.2020.
- Dr.V.Latha Jothi, Ms.S.Kayalvili, Ms.M.MohanaSundari and Ms.K.MohanaPriya organized a two day online workshop for students on "Python Programming" from 20.6.2020 to 21.6.2020.

## ASSOCIATE ACTIVITIES

The MAGNUMOPUS- Association of Computer Science and Engineering inaugurated on 29.07.2019. The function was honored by Mr.Mageshwaran, Project lead, Cognizant Technology Solution. He also addressed the gathering by a motivational speech.



The Association of CSE has conducted technical seminar on "CISCO – CCNA Routing and Switching" on 02.08.2019. The function was honored by Mr.R.Ranjithkumar, TCIL IT, Techwork Solutions, Erode.



The Association of CSE has conducted technical seminar on "Ethical Hacking, Network Routing and Switching" on 07.09.2019. The function was honored by Mr.R.Prabakaran, CentreHead, Live Wire, Erode.



The Association of CSE has conducted technical seminar on "Multimedia Animation" on 09.08.2019. The function was honored by Mr.G.Rajeshkumar, Regional Academic Head, Aptech Ltd, Erode.



The Association of CSE has conducted technical seminar on "Big Data Analytics" on 17.09.2019. The function was honored Ms.S.Mohana Priya, Senior Software Developer, ETS Academy Erode



The Association of Computer Science and Engineering- MAGNUMOPUS organized intra department meet on 20.09.2019 (Friday).The meet included both technical and non-technical events.



### **GUEST LECTURER**

- A Guest Lecture on 'ReactJS' was organized on 08.02.2020. Ms.S.Arthi (Alumni 2019), Assistant System Engineer, TCS Chennai was the resource person.
- A Guest Lecture on 'DBMS' was organized on 08.02.2020. Ms.S.A.Soorya (Alumni 2019), Assistant System Engineer, TCS Chennai was the resource person.
- A Guest Lecture on 'Principles of Programming' was organized on 08.02.2020. Ms.S.Swaathy, Developer, Zoho Corporation, Chennai was the resource person.
- A Seminar on 'Tableau' was organized on 19.02.2020. Ms.S.Mohana Priya, Senior Software Developer was the resource person.
- A Guest Lecture on 'Machine Learning' was organized on 21.02.2020. Dr.R.P.Ramkumar, Professor, Mallareddy Engineering College, Secunderabad was the resource person.
- A Seminar on 'Mobile Application Development using Android Studio' was organized on 07.03.2020. Mr.K.Boopathi Kumar, Full Stack Developer, Team-Lead Software Development, Appin Technology Lab, Coimbatore was the resource person.

### **TECHNICAL SEMINAR**

We had conducted the Technical Seminar on "FUNDAMENTALS OF CLOUD COMPUTING & AWS" on 03.10.2019. The function was honored by Ms. BHUVANAESHWARI SUBRAMANI, DIRECTOR ENGINEERING, Operations at Infor, Bangalore.



We had conducted the Technical Seminar on "CYBER SECURITY" on 20.12.2019. The function was honored by Mr.CHANDRAPRAKASH SANKAR, CYBER SECURITY CONSULTANT, HACKERS INFOTECH, Erode. He also delivered the lecture.

### **CLUB ACTIVITIES**

- 87 students were participated in the event "Seminar on Introduction to Data Analysis" organized by data pirates club on 12.10.2019
- 40 students were participated in the event "Introduction to Pylamp Association" held on 28.03.2020
- 38 students were participated in the event "Revisiting Tokens and Control Structures" organized by pylamp club held on 30.03.2020
- 34 students were participated in the event "Revisiting functions" organized by pylamp club held on 02.04.2020
- 33 students were participated in the event "Revisiting arrays" organized by pylamp club held on 06.04.2020
- 36 students were participated in the event "Revisiting strings" organized by pylamp club held on 09.04.2020
- 35 students were participated in the event "Capture the Flag Quiz" organized by pylamp club held on 07.04.2020
- 50 students were participated in the event "Seminar on Deep dive into Hacking" organized by pylamp club held on 10.3.22
- 92 students were participated in the event "Seminar on DNA Digital data storage" organized by data pirates club on 04.01.2020
- 42 students were participated in the event "Quiz" organized by data pirates club on 11.01.2020
- 36 students were participated in the event "TECH TALK" organized by data pirates club on 01.02.2020



## PLACEMENT ACTIVITIES

- Six students got placement in TCS Technologies
- Two students got placement in Aspire Systems
- One student got placement in Orion Private Limited
- Two students got placement in Kanini Software Solutions
- Five students got placement in Wipro Technologies
- Mr.P.Sukumar attended TalentNext Wipro Certified Faculty Programme and cleared the assessment with excellent scores on 30.01.2020
- 46 Students got placed in various IT companies

## STUDENTS ACTIVITIES , STUDENTS NPTEL

- R. Krishnaranjani, V. Kirupakaran, R. Madhu Vaishnavi of 16CS8A obtained Second prize in the Project Expo 2020 on the topic 'Edification Gateway Application', held at Velalar College of Engineering and Technology on 14.3.2020.
- B.Arthi, B.Ashish Kumar, N.Dharanidharan, V.Keerthana of 16CS8A obtained Third prize in the Project Expo 2020 on the topic 'Graphical Password Shoulder Surfing Resistance using Falsification' at Velalar College of Engineering and Technology on 14.3.2020.
- R. Krishnaranjani of 16CS8A obtained the 'Best Performer' certificate of achievement in the International Space Science Competition 2020 through ISSC-2020 Test conducted by Go4Guru.
- 12 Students of Final year has published their research paper on the reputed journals during the month of March 2020
- 33 Students of Final year has attended the conference and presented their research papers during the month of March 2020
- Oviyan G M got first prize in the event 'Picography' at Kongu Engineering College
- Brindha P, Hema Priya S, Karthika T , Keerthana R got first prize in the event 'Techno Freaks' at Kongu Engineering College
- Vasanth M got first prize in the event 'Gadget Review' at K.S.R College of Technology
- Ramani L and Rathina Sneha M got second prize in the event 'Shuffle your Minds' at K.P.R College of Engineering
- Lakshitha T got second prize in the event 'Code Debugging' at Info Institute of Engineering
- 129 students of second, third and final year presented projects 'Project Expo 2020' at Velalar College of Engineering and Technology on 14.03..2020
- 126 students of second, third and final year attended 'BOT Unleashed', Self learning programme and get certified from Anywhere Automation at Velalar College of Engineering and Technology on 29.01.2020
- Ruban kumar V, Sellakumar C, Sriram J, VijayaKumar P, Vishvakesh R L, Saathvi R participated in Smart India Hackathon 2020 'Better and faster emergency care during accidents and vehicle impact' under the domain Smart Communication and selected under the software category.
- R.Krishnaranjani, P.Karthick, M.Dharani and B.Arthi of Final year students organized four days students Refresher Programme on "Online Programming Skill Refresher Series on C Programming" from 15.06.2020 to 18.06.2020.
- 12 students of final year A section has completed various online certification courses during april to may 2020.
- 8 students of final year A section has attended the various workshops during April – May 2020
- 6 batches of students of final year A section presented a paper virtually in the "National Conference on Emerging Trends in Engineering and Technology (NCET)", held at Nandha College of Technology on 23.05.2020.
- 6 batches of students of final year A section published a paper in "International Journal Of Innovative Research In Science, Engineering And Technology(IJIRSET)" during April – May 2020
- 3 batches of students of final year A section published a paper in "International Journal of scientific Research and Engineering Development (IJSRED)" during April – May 2020

## **WORKSHOPS ATTENDED BY FACULTY**

- Dr.S.Sadesh, NPTEL SPOC one day Workshop organized by IIT Madras on 26.07.2019.
- Dr. Latha Jothi V has participated in two days National Level Workshop on “Publishing Articles in SCI indexed Journals and Filing IPR” from 25.07.2019 to 26.07.2019 at KSR Institute for Engineering and Technology, Tiruchengode.
- Dr.V.Latha Jothi has participated in UGC sponsored Workshop on ‘Objectives of ‘PARAMARSH’ and Preparation of SSR as perrevised NAAC Framework’ on 21.12.2019 at Vellalar College for Women, Erode.
- R.Kavitha has participated in one day National Level Workshop on “Intellectual property Rights and Innovations” on 28th September 2019 at Sri Vasavi College, Erode.
- Ms.S.Ponni & Ms.S.Vishnupriya attended the workshop on the topic “Machine Learning using python” held at Coimbatore Institute of Technology on 29.09.2019

## **SEMINARS ATTENDED BY FACULTY**

- Dr.S.Sadesh has participated in one day CSIR sponsored National Level Seminar on “Offloading Process for Video Orchestration in mobile edge computing” on 08.08.2019 at Velalar College of Engineering and Technology, Erode.
- Dr. Latha Jothi V , Dr.S.Sadesh has participated in two days CSIR sponsored National Level Seminar on “Machine Learning for Data Science and Analytics” from 21.08.2019 to 22.08.2019 at Velalar College of Engineering and Technology, Erode.
- Ms.S.Ponni & Ms.S.Vishnupriya attended the seminar on the topic “5G Simulator” held at Hindusthan College of Technology on 17.07.2019
- Ms.S.Ponni & Ms.S.Vishnupriya has participated in two days CSIR sponsored National Level Seminar on “Machine Learning for Data Science and Analytics” from 21.08.2019 to 22.08.2019 at Velalar College of Engineering and Technology, Erode.

- Ms.T.Dhanur Bavidhira, Mr.S.Gokulraj Ms.S.Poovizhi has participated in two days CSIR sponsored National Level Seminar on “Machine Learning for Data Science and Analytics” from 21.08.2019 to 22.08.2019 at Velalar College of Engineering and Technology, Erode.
- R.Kavitha has participated in two days CSIR sponsored National Level Seminar on “Machine Learning for Data Science and Analytics” from 21.08.2019 to 22.08.2019 at Velalar College of Engineering and Technology, Erode
- P.Sukumar attended a CSIR sponsored seminar on “APPLICATIONS OF MATHEMATICS IN ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING” organized by Department of Mathematics , VCET, erode on 10.07.2019.
- D.Nithya has attended the CSIR SPONSORED TWO DAYS NATIONAL LEVEL SEMINAR on “ Rural Transformation by Revolutionizing the future of Agriculture with smart Farming Technique using Industrial IOT, Artificial Intelligence& Big Data Analytics” conducted on 12th &13th December 2019 at Hindustan college of Engineering and Technology, Coimbatore.

## **STTP**

- Dr. Latha Jothi V has participated in five days STTP on “Data Analytics and Parallel Processing” from 26.08.2019 to 30.08.2019 at SRM Institute of Science and Technology, Kattankulathur.
- Dr.S.Sadesh has participated in Six day AICTE Sponsored Short Term Training Program (STTP) on “Pedagogy on Emotional Intelligence Skills for Career growth and Success” from 01.07.2019 to 06.07.2019 at Velalar College of Engineering and Technology, Erode.



- Ms.S.Ponni, Ms.S.Vishnupriya, Ms.S.Poovizhi, Ms.T.Dhanur Bavidhira has participated in six day AICTE Sponsored Short Term Training Program (STTP) on “Design and Development of Engineering Applications using Free/Open Source Software (FOSS)” from 25.11.2019 to 30.11.2019 at Velalar College of Engineering and Technology, Erode.

### **CONFERENCE ATTENDED BY FACULTY**

The following faculty members have presented their paper on NCICC”19-National Conference on Innovations in Communication and Computing held at SNS College of Technology on 18.03.2019.

- Ms.K.Vijaya ‘Multilevel fusion and CT and MRI Brain scan images using Machine learning and Deep learning’
- Ms. M.Sakthi “Mail Privacy Preservation”
- Mr. P.Sukumar, ‘Multi College Interdisciplinary events with notification through single website’
- Ms.K.Vijaya, “Smart Irrigation and Soil Monitoring System” at Nandha College of Technology
- Ms.C.Kotteeswari, “Enhanced Privacy in Social Network using Anonymization” at Nandha College of Technology
- Ms. M.Sakthi Meena, ‘Smart Peer Car Pooling System’, at Nandha College of Technology
- Mr. P.Sukumar, ‘An Ontology Mining with Heterogeneous Data to Telemedicine systems’ at Nandha College of Technology
- Ms. S.Vishnupriya, “Co-Review Perspective Based Mobile App Fraud Detection using Finer Cluster Algorithm”
- Ms.R.Kavitha, ‘IoT Based pH Level Monitoring and Controlling of Water Quality Systems’
- Ms. S.Vishnupriya, “Cognitive Banking Chatbot using IBM Watson Assistant”
- Ms. T.Dhanur Bavidhira, ‘The Pushcart’ at Nandha College of Technology

The following faculty members have presented their paper on Eighth International Conference on Advanced Science and Engineering Research (ASER – 2019) at Al-Ameen Engineering College on 23.03.2019.

- Ms.T.Dhanur Bavidhira, “Medical Assisting App”
- Ms. S.Vishnupriya, “Co-Review Perspective Based Mobile App Fraud Detection using Finer Cluster Algorithm”
- Ms. S.Vishnupriya, ‘Cognitive Banking Chatbot using IBM Watson Assistant’
- Ms.C.Kotteeswari, ‘Eye Movement based Cursor Control Mechanism’
- Mr. P.Sukumar presented paper on ‘An Efficient and Dynamic Semantic Aware Search Scheme over Encrypted Cloud Data Using Sent2Vec Model’ , National Conference on Computing Communication Technology and Science organized by Muthayammal College of Engineering, 06.03.2020.
- Ms.S.Kayalvili, presented paper on ‘Online digital voting system using Blockchain technology’ 6th International Conference on Engineering and Technology (ICET) organized by Selvam College of Technology , 04.3.2020 and 5.3.2020.
- Dr.Sadesh presented paper on ‘Distributed cloud data storage using fuzzy authorization framework’, 6th International Conference on Engineering and Technology (ICET) organized by Selvam College of Technology, 04.3.2020 and 5.3.2020

### **FACULTY ENABLEMENT PROGRAM**

- Dr.S.Sadesh attended six day AICTE Sponsored Short Term Training Program (STTP) on “Pedagogy on Emotional Intelligence Skills for Career growth and Success” from 01.07.2019 to 06.07.2019 at Velalar College of Engineering and Technology, Erode.

- Dr.V.LathaJothi attended five days STTP on “Data Analytics and Parallel Processing” from 26.08.2019 to 30.08.2019 at SRM Institute of Science and Technology, Kattankulathur.
- Ms.M.MohanaSundari and Ms.C.Selvi has participated in three days FDP on “Introduction to Python Programming” from 18.07.2019 to 20.07.2019 at JKK Nattraja College of Engineering and Technology.
- Seven faculty members has participated in six day AICTE Sponsored Short Term Training Program (STTP) on “Design and Development of Engineering Applications using Free/Open Source Software (FOSS)” from 25.11.2019 to 30.11.2019 at Velalar College of Engineering and Technology, Erode.
- Dr.Sadesh attended FDP on Artificial Intelligence & Machine Learning at Learning Lofts Foundation Madurai on 19.02.2020 to 20.02.2020
- Dr.Sadesh attended NPTEL SPOC Workshop at IITM, Chennai on 25.01.2020
- Fourteen faculty attended ‘BOT Unleashed’ self learning programme and get certified from Anywhere Automation at Velalar College of Engineering and Technology on 29.01.2020
- Dr.S.JabeenBegum , Ms.S. Ponni attended ‘ICT Bridge Meet’ at IITM Research Park on 26.02.2020
- Ms.C.Kotteswari attended online STTP, “Practical Approach for Data Science”, R. N. G. Patel Institute of Technology from 22.06.2020 – 27.06.2020
- Dr.V.LathaJothi, Ms.S.Kayalvili, Ms.M.MohanaSundari and Ms.K.MohanaPriya organized a two day online workshop for students on “Python Programming” from 20.6.2020 to 21.6.2020.
- Dr.Sadesh attended NPTEL SPOC Workshop at IITM, Chennai on 25.01.2020
- Fourteen faculties attended ‘BOT Unleashed’ self learning programme and get certified from Anywhere Automation at Velalar College of Engineering and Technology on 29.01.2020.
- Dr.S.JabeenBegum , Ms.S. Ponni attended ‘ICT Bridge Meet’ at IITM Research Park on 26.02.2020.

### **JOURNAL PUBLICATIONS BY THE FACULTY MEMBERS**

- Dr.S.Jabeen Begum and Dr.V.LathaJothi published a paper on "Heart Diseases Prediction Using Machine Learning Techniques",GEDRAG &Organisatie review indexed in Web of Science and Care UGC, April-June 2020.
- Ms.T.Dhanur Bavidhira published a paper on “A Distributed Discovery of Communicating Resource System Model with Encryption of Data”,International Journal of Research and Advanced Development (IJRAD),April 2020.
- Ms.T.Dhanur Bavidhira published a paper on “Fruit Putrefy Detection using Image Processing”,International Journal of Research and Advanced Development (IJRAD),April 2020.
- Ms.S.Kayalvili published a paper on “Context Aware VM Placement Optimization with Minimal Cost Based Resource Provisioning and Scheduling”,International Journal of Research and Advanced Development (IJRAD),April 2020.
- Dr.S.Gokulraj published a paper on Crowd Detection by video processing, International Journal of Scientific Research in Science and Technology, March-2020.
- Ms.M.MohanaSundari published a paper on “Pre-migration process for scheduling tasks in cloud”, International Journal of Research and Advanced Developement, April 2020.

- Ms.M.MohanaSundari published a paper on “Prediction of Brain tumor using mathematical Morphological Reconstruction”, International journal of advanced science and Engineering Research, April 2020.
- Ms.K.MohanaPriya published a paper on “Security for shared data in cloud storage using third party auditor”, International Journal of Research and Advanced Development (IJRAD), April 2020.
- Ms.K.MohanaPriya published a paper on “Hiding Medical Data in video frames by encryption and video watermarking techniques”, International Journal of Research and Advanced Development (IJRAD), April 2020.
- Ms.S.Poovizhi published a paper on “Image security enhancement with Knight’s Tour and AES technique”, International Journal Of Advanced Science and Engineering Research(IJASER), March 2020.
- Ms.S.Ponni published a paper on “Flower Pollination Based Task Scheduling With Cost Minimization Effort Using Multi Cloud Resource Provisioning”, International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), April 2020.
- Ms.S.Nithya published a paper on “GPS Controlled Robotic Vehicle for Environmental Impact Analysis”, International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET), April 2020.
- Dr.S.Sadesh published a paper on “Enhancing The Security Mechanism In Health Care Using Triple Des”, International Journal Of Engineering Research And Technology (IJERT), April 2020.
- Dr.S.Sadesh published a paper on “Distributed Cloud Data Storage Using Fuzzy Authorization Framework”, International Journal of Research and Advanced Development (IJRAD), April 2020.
- Dr.S.Sadesh published a paper on “Active Dynamic Key For Secure Data Transfer In Wireless Sensor Network”, Journal Of Mechanics Of Continua And Mathematical Sciences (Web Of Science), May 2020.
- Mr.P.Sukumar published a paper on “An Efficient Approach for Secure Cloud Data Sharing and Privacy Protection using Third Party Arbiter”, International Journal of Research and Advanced Development (IJRAD), April 2020.
- Ms.K.Vijaya published a paper on “Discriminative Authentication based Opportunistic routing in wireless sensor networks with trustworthy path mechanism”, International Journal of new technology and research (IJNTR), April, 2020.
- Ms.K.Vijaya published a paper on “Web based Interactive FM”, Gedrag & Organisatie Review - ISSN:0921-5077, April, 2020.
- Ms.D.Nithya published a paper on “Efficient Real-Time Tasks Scheduling In Virtualized Cloud Environment”, International journal of Research and advanced Development (IJRAD), April 2020.
- Ms.D.Nithya published a paper on “Detection of Diabetic Retinopathy using Binocular Convolutional Neural Network”, International journal of Research and advanced Development(IJRAD), April 2020.
- Ms.S.Vishnupriya published a paper on “Securing Cloud Aided E-Healthcare System Using SPOC”, International Journal of Scientific Research and Engineering Development, February 2020.
- Mr.S.Vivekanandan published a paper on “Gray Code Based Data Hiding in an Image Using LSB Embedded Technique”, International Journal of Advanced Engineering, Research and Science, May 2020.



- Mr.S.Vivekanandan published a paper on “Privacy aware Data Deduplication in Cloud Storage”, International Journal of Engineering Research & Technology, May 2020.
  - Mr.P.Sukumar published a paper on “An Efficient and Dynamic Semantic Aware Search Scheme over Encrypted Cloud Data using Sent2Vec Model”, International Journal of Innovative Research in Computer and Communication Engineering(IJIRCCE), March 2020.
  - Mr.P.Sukumar published a paper on “An Efficient Approach for Secure Cloud Data Sharing and Privacy Protection using Third Party Arbiter”, International Conference on Advanced Science and Engineering Research (ICASER), March 2020.
  - Ms.K.MohanaPriya published a paper on “Detection of weed in crops using image processing”, International Journal of advanced science and Engineering and Research, March 2020.
  - Ms.K.MohanaPriya published a paper on “Detection of weed in crops using image processing”, International conference on advanced science and Engineering and Research, March 2020.
  - Ms.S.Kayalvili published a paper on “Digital voting system using Blockchain Technology”, IJSRET, March 2020
  - Dr.V.LathaJothi published a paper on “Detection of Liver Cancer using Image Processing”, International Journal of Advanced Science and Engineering Research, March 2020.
  - Ms.S.Kayalvili published a paper on “Improving Product Sales on E-Commerce Websites Based on Reviewers Opinions” in the International Journal of Scientific Research in Science and Technology, June 2020.
  - Ms . Subathra S published a paper on “Sentiment Analysis of Consumer Reviews using Multi-Strategy Technique”, International Journal of Scientific Research and Engineering Trends, May-June 2020
- LECTURE\KEY NOTE ADDRESS DELIVERED**
- Dr.S.Jabeen Begum acted as a resource person for CSIR Sponsored Seminar on “Graph based algorithm for social media networks” at Velalar College of Engineering and Technology
  - Dr.S.Jabeen Begum acted as a resource person for CSIR Sponsored national Seminar on “Emerging Applications of Number theory” at Velalar College of Engineering and Technology on 18.09.2019
  - Dr.V.Latha Jothi attended the keynote address on ‘AI Based Healthcare Systems’ organized by the Department of Electronics and Communication Engineering, SSN College of Engineering, Kalavakkam on 12.06.2020.
- NPTEL CERTIFICATES**
- Dr.S.Sadesh received NPTEL and FDP certificate with ELITE tag for the course ‘Software Project Management’.
  - Dr.S.Sadesh received NPTEL and FDP certificate with ELITE + SILVER & Topper tag for the course ‘Stress Management’.
  - Dr.S.Sadesh received Active SPOC from SWAYAM-NPTEL Local Chapter for best performance of our college in Jul-Dec 2019.
- AWARDS / RECOGNITIONS**
- Dr.S.Jabeen Begum received an award ‘Cloud Champion’ for organizing and interacting with ICT Academy at IITM Research Park on 26.02.2020
  - A Centre of Excellence has been presented on the successful completion of ‘BOT UNLEASHED’ programme at IITM Research Park on 26.02.2020



- A Cloud Literate Campus Award has been presented on the successful completion of the cloud computing course on the Cloud Literacy Day 2019 at IITM Research Park on 26.02.2020
- Dr.S.Gokulraj, Ms.S.Poovizhi and Ms.S.Ponni successfully completed “Python Programming through INFYTQ Platform” course with A+ grade by Infosys Limited on 25.05.2020 to 30.05.2020.
- Ms.K.Vijaya attended TalentNext Wipro Certified Faculty Programme and cleared the assessment with excellent scores on 30.06.2020.

### BOOK PUBLICATIONS

- Dr.S.Jabeen Begum and Ms.K.Vijaya published book on, “Computer Architecture and Organization” by Lakshmi Publication, Chennai 2019 ISBN 978-93-87670-57-0
- Dr.V.Latha Jothi published book on, “Object Oriented Programming” by Lakshmi Publication, Chennai 2019 ISBN 978-93-87950-29-0
- C.Kotteswari published book on, ‘Theory of Computation’ by Suchitra publication, Chennai 2019 ISBN 978-93-87670-63-1
- Dr.S.Sadesh and Mr.K.Tharani, ‘Software Engineering’, Charulatha Publications, ISBN No: 978-93-89736-81-6, January 2020.

### AWARDS / RECOGNITIONS

- Dr.S.Sadesh received Active SPOC from SWAYAM-NPTEL Local Chapter for best performance of our college 2019.
- Mr. S.Gokulraj has completed the Doctoral Degree from Anna University, Chennai, during January 2020. His area of interest is Cloud computing. He has published many papers in National and International Journals and presented papers in various Conferences.



### STUDENT ART COLUMN



**AAKASH P K(18CSR001)**



**ROJA P(17CSR075)**



**CIBI T S(18CSR010)**



**PREMALATHA C(17CSR085)**

### **G1:MAGIC SQUARE with C code**

```
#include<stdio.h> main()
{
int i,j,row,col,size;
printf("Enter Number of
Rows in odd number\n");
scanf("%d",&size); if(size%2!=0)
{
int a[size][size];
printf("Magic Square for %d
rows is\n",size); row=0;
col=size/2; for(i=1;i<=size*size;i++)
{
a[row][col]=i; row--;
col++; if(i%size==0)
{
row=row+2;
col=col-1;
if(row==size)
row=row-size;
}
}
else
{
if(col==size)
col=col-size;
if(row<0)
row=row+size;
}
for(i=0;i<size;i++)
{
for(j=0;j<size;j++)
{
printf("%3d ",a[i][j]);
}
printf("\n");
}
}
}
```

```
printf("Please Enter Odd Number to
get Magic Square\n");
}
}
```

### **OUTPUT**

Number of Rows in odd number 5

Magic Square for 5 rows is

17	24	1	8	15
23	5	7	14	16
4	6	13	20	22
10	12	19	21	3
11	18	25	2	9

**By - DHARANI A 17CSR024**



## G2: SUDOKU

**SUDOKU**

4		6	5	2	8		9
				4			3
							5
6			8			1	
5				7			8
3		2	9		4		6
	2		6				1
				5	3	9	4
8	3			9			2

ARTHI B (16CSR009)

## SPOT THE DIFFERENCE:

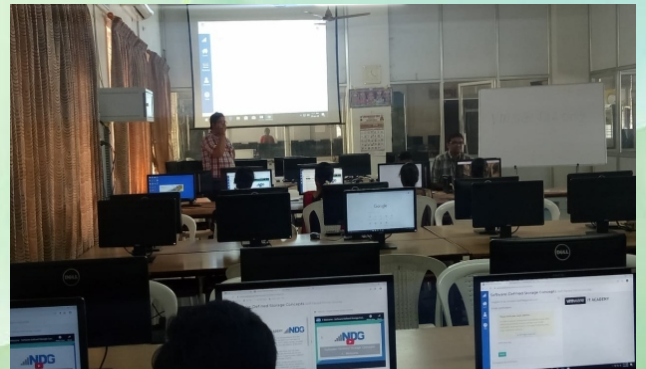
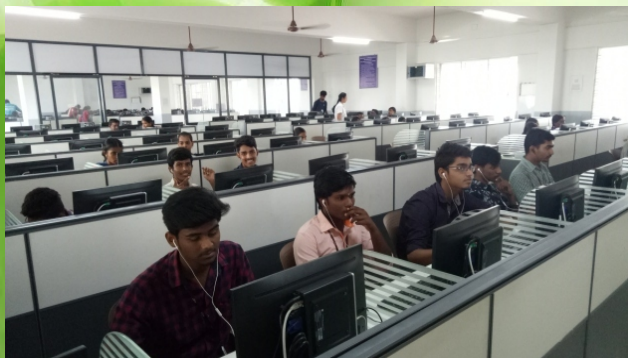


DEEPANA S(18CSR013)



DHARANI A 17CSR024





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# VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY

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