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# 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 2018-19 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 2018 – 2019

### Editorial Board

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### MESSAGE FROM THE HOD

Computer Science is the real "Rocket Science" for every one that dreamt of becoming a scientist in any walk of life using computers to solve problems. Here, you will study and apply your knowledge in understanding what computers are, as how to program them, tools to write a program, the rules when converting the written program understandable by the computers, the interface between the computer and users, the computer graphics, computer networking, managing the software database, software engineering and testing them efficiently and more. Now computers are used everywhere to reduce the manpower requirements, ease of the efficiency. So the scope of computer science is endless. Computer Science and Engineering students are in high demand as far as industry recruiters are concerned. Depending upon the interest of the student, he/she may choose to go for higher studies or if employed can choose to do research, development, design production, application, testing or management in the Information Technology 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.

Multi Disciplinary: 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**

**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.



## INDUSTRIAL VISIT

- Second year students of CSE underwent an industrial visit to ATEES, Thrissur on 04.01.2019
- Third year students of CSE underwent an industrial visit to Infosys Private Ltd, Mysore on 08.01.2019

## CONFERENCE ORGANIZED

- The National conference on 'Trends in Engineering Applications' had been organized on 02.03.2019. Chief guest Thiru.S. Karthikeyan, Deputy General Manager, JSW Energy Ltd, Karnataka delivered inaugural address. His valuable speech was a eye-opener on the present day opportunities for the students. The Jury for the session is Dr. S.Rajalakshmi, Professor & Vice Principal, Cheran College of Engineering, Karur.



## PROGRAMS ORGANIZED

- We have conducted 'Cloud Literacy Day 2018' in coordination with ICT Academy on 12.10.2018 for all the first and second year UG students. The function is to know about the basics of Cloud infrastructure and to enhance the self-learning capability of the student.
- We have conducted in 'Introduction to R programming 2018' coordination with ICT Academy on 27.11.2018 and 28.11.2018 as Faculty Development Programme for faculty. The objective of the FDP is to provide a deep knowledge about R programming which enhances the career growth of faculty.



## CSI

- CSI student branch inaugural function was organized on 26.09.2018. The function was honoured by Dr.M.Sundaresan, Professor & Head, Department of Information and Technology, Bharathiar University, Coimbatore.
- Intra CSI Meet-[Paper Presentation, Multimedia & Code Debugging] was organized on 14.03.2019.

## ISTE

- ISTE - Staff and Student Chapter- Teachers' Day & Engineers' Day Celebration was conducted on 15.09.2018.
- ISTE-Student Chapter- National Conference was organized on 02.03.2019. The function was honored by Mr. S. Karthikeyan, DGM, JSW Energy Ltd., Bellary, Karnataka.
- ISTE - Student Chapter-ISTE TN Section Annual Convention of Engineering Students 'Best Students Awards 2018' was conducted on 01.03.2019. The function was honored by Ms.S.A. AFRAALMAS

## MOU ACTIVITIES

- The MOU was signed between department of CSE and Red Hat India Private Limited on 10.09.2018
- The MOU was signed between department of CSE and Neophron technologies on 19.12.2018
- The MOU was signed between department of CSE and Experts hub industry skill development center on 01.11.2018

## ASSOCIATION ACTIVITIES

- MAGNUMOPUS- Association of Computer Science and Engineering was conducted on 27.07.2018, Friday at 03:10 pm. The function was honoured by Mr.Karthick Subramanian, Augusta hi-tech soft solutions.



## MAGNUMOPUS-INTRADEPARTMENT MEET

The Association of Computer Science and Engineering- MAGNUMOPUS organized intra department meet on 01.09.2018 (Saturday).The meet included both technical and non-technical events. The following events were conducted to bring out the brilliance of the students:

- Technical Quiz
- Fun events

In the Technical Quiz the participants proved their knowledge over the various fields like technical, general knowledge etc.,

Fun events helped us to test the critical thinking of our students and they proved that they are second to none.

Prizes were announced for the students who topped the score list. Students from our department tirelessly participated in all the events.



## TECHNICAL SEMINAR

• The Technical Seminar on Advanced PHP Programming was conducted on 13.08.2018, Monday at 03:00 pm. The function was honored by Mr.N.Prabhu, ETS Academy. He also delivered the lecture. He gave very suitable examples for various applications.



• The Technical Seminar on Graph Theory and its Applications was conducted on 24.09.18 and 25.09.18, Monday and Tuesday at 09.00 am. The function was honored by Dr.K.K.Myithili ASP & Head/Mathematics, VCW Thindal. She also delivered the lecture.



• The Technical Seminar on Raspberry Pi was conducted on 25.09.18, Tuesday at 09.00 am. The function was honored by Mr.S.V.Abisek, Director, ZelightRobotics. He also delivered the lecture.



• A Technical Seminar on Software Engineering was conducted on 25.09.18, Tuesday at 01.30 pm. The function was honored by Ms.G.Deepa, System Analyst, ZelightRobotics. She also delivered the lecture.

• 15th National Level Students' Technical Symposium was conducted on 29.09.18, Saturday at 09.00 a.m. The function was honored by Mr.S.Sathya Prakash, Vice President-HR, Amtex Software Solutions pvt Ltd, Chennai. He also delivered the lecture.

• A Technical Seminar on 'Soft Skills' was organized on 28.12.2018. Mr.M.Thiagarajan Thirunavukkarasu, Director, T.I.M.E was the resource person. He delivered a speech in improving the soft skills that enhances the confidence and career growth of the students.



• A Technical Seminar on 'Career Development Skills' was organized on 29.12.2018. Ms.Ashvathy, IIM Bangalore was the resource person. The chief guest delivered a lecture to encourage the students to think about the career and also thereby providing various useful tactics which may be useful in cracking the interviews.

• A Technical Seminar on 'Digital Marketing' on 05.01.2019 was organized. The function was honored by Mr.M.Logeshkumar, CCube Technologies, Coimbatore. He also delivered the lecture. He gave very suitable examples for various applications.



- A Technical Seminar 'Hands on training on IOT' was conducted on 04.02.2019. The function was honored by Mr.S.Natesh Kannan, IOT Developer, IOT Automation Pvt. Ltd, Chennai. He also delivered the lecture. He gave very suitable examples for various applications.



- A Technical Seminar 'Java Programming & Android' was organized on 06.02.2019, Wednesday at 9:30 am. The function was honored by Mr.R.Ranjithkumar, Technical Trainer Networking, TCIL IT Education & Training. He also delivered the lecture. He gave very suitable examples for various real time applications.



### **GUEST LECTURE**

- A Guest Lecture on Android, was conducted on 01.09.2018, Saturday at 10:00 am. The function was honored by Mr.V.RajaKumareswaran, Admire Solutions, He also delivered the lecture.



- Hands on training on IoT was conducted 15.09.2018, Saturday at 09:30am. The function was honored by Mr.R.Anbarasan, Project Development Engineer, Crescent Info Tech Pvt. Ltd. He also delivered the lecture.



- A Guest Lecture on Study in Abroad Canada, Europe was conducted on 18.07.2018, Monday at 10:00 am. The function was honored by Mr. Osama Sayed, Business Development Consultant, Mumbai. He also delivered the lecture.



- A Guest Lecture has conducted on 'Study in Abroad Canada, Europe' on 01.02.2019. The function was honored by Mr.Osama Syed, Business Development Consultant, Staar Uniadvise Pvt. Ltd, Mumbai. He also delivered the lecture.



### **SOCIAL ACTIVITIES**

- The association of CSE organized 'Mega Passport Service Camp' on 06.03.2019 at Second Floor Conference Hall. The camp was conducted by Airlink Travels, Erode. Students from all the years were allowed to take part and benefit from the same. Various students have applied for the passport and some of them applied for renewal of passport.



- The association of Computer Science and Engineering – MAGNUMOPUS in associate with DORCAS Club planted trees at Government Higher Secondary School, Thindal on 08.03.2019. The office bearers of DORCAS club provided awareness on computer to school children.

- The association of Computer Science and Engineering – MAGNUMOPUS & DORCAS Club visited N.L. Karunai Illam, Rengampalayam on 09.03.2019. Students from second, pre-final and final year visted and donated grocery items to the old age peoples in the home.





### **INTRA DEPARTMENT MEET**

The Association of Computer Science and Engineering- TECHIE CLUMP organized intra department meet on 09.02.2019. The meet included technical events. The events such as Multimedia Presentation and Paper Presentation were conducted to bring out the brilliance of the students. Prizes were announced for the students who topped the score list. Students tirelessly participated in all the events.



The Department of Computer Science and Engineering of Velalar College of Engineering and Technology have organized a senior junior interactive session on 13.03.2019.

### **ALUMNI INTERACTION**

The Alumni Interaction regarding Placement had been organized on 18.03.2019



### **DEPARTMENT VALEDICTORY**

The Valediction of MAGNUMOPUS - Association of Computer Science and Engineering had been organized on 21.03.2018, Thursday. Dr.M.Jayaraman, Principal gave his felicitation to the gathering. Prof.L.Peter Stanley Bebington (Dean Academics) presided over the function and spoke about the current scope of IT field in which in coming years all will be placed in reputed companies. Dr.S.JabeenBegum, HOD, welcomed the gathering. The secretary of MAGNUMOPUS, P.Ananthi presented the summary for this academic year 2018-2019 and the Treasurer in charge of MAGNUMOPUS, N.Varsini, gave the vote of thanks on behalf of the Association of Computer Science and Engineering.



### **PLACEMENT ACTIVITIES**

- Six students in our department were placed in Tata Consultancy Services (TCS) during the period of July to September 2018.
- Afra Almas of Final year CSE placed in Wipro Technologies.
- S.Malliga of Final year CSE placed in Infosys Ltd.
- V.Deepika of Final year CSE placed in Vinayak Infotech Ltd.
- 31 students has been placed in various companies

### **STUDENTS ACTIVITIES**

- B.Arthi and M.Dharani from third year received NPTEL certificate with successfully completed and received ELITE tag for the course 'Programming in C++'.
- M.Manju Parkavi from third year received NPTEL certificate successfully completed the course 'Python Programming'.
- Four students from third year received NPTEL certificate with ELITE tag for the course 'Database Management Systems'.
- V.S.Sanchana and M.Gowtham from third year received NPTEL certificate with successfully completed tag for the course 'Database Management Systems'.
- Five students from second year attended the in-plant training on 'Web Development' organized by CodeBind Technologies, Coimbatore.
- Nine students from second year attended In-Plant training organized by UNIQ technologies, Coimbatore.

- Karthik Nannepamula of second year, has won second prize in Paper Presentation, at Gnanamani college of Technology on 30.08..2018.
- Karthik Nannepamula of second year, has won Third prize in Code Debugging, at Gnanamani college of Technology on 30.08.2018.
- Karthik Nannepamula of second year, has won First prize in Code Ninja, at Kongunadu college of Engineering and Technology on 18.08.2018.
- Manju Parkavi M, Mithra A and Gokula Priya S of Third year, has won the first prize in Project Expo held at Velalar College of Engineering and Technology on 02.03.2019
- Arthi V, Aarthi S and Kishore G of Final year, has won the second prize in Project Expo held at Velalar College of Engineering and Technology on 02.03.2019
- Mohansanjay P, Sreesanthiya R.M and Selva Priya K of Second year, has won the second prize in Project Expo held at Velalar College of Engineering and Technology on 02.03.2019
- Karthik Nannepamula of second year, has first won prizes in Code Debugging, Paper Presentation and Just a Minute contest held at Velalar College of Engineering and Technology.
- Karthik Nannepamula of second year, has won second prize in Paper Presentation conducted by Association of CSE, at Velalar College of Engineering and Technology on 09.02.2019.
- Afra Almas has been selected as 'Best Outgoing Student' of CSE for the academic year 2018-19.
- 22 students were completed NPTEL course successfully

#### WORK SHOP ATTENDED BY FACULTY

- Dr.S.Sadesh acted as instrumental role as SPOC, 'Swayam NPTEL Local Chapter' held at Velalar College of Engineering and Technology, Erode.
- Ms.D.Lavanya and Ms. S.Subathra, attended one day workshop on 'Block chain Technology' at PSG College of Technology, on 13.10.18.
- Mr.P.Sukumar, Ms.T.Dhanur Bavidhira and Ms.S.Nithya, attended two days workshop on 'Advanced Python Programming' at Excel Engineering College, on 16.11.2018 & 17.11.2018.
- Ms.C.Kotteeswari organized a faculty development Programme 'Introduction to R Programming', conducted on 27.11.2018 and 28.11.2018 held at Velalar College of Engineering and Technology, Thindal, Erode.
- Nine faculty members attended the faculty development programme 'Introduction to R programming', held at Velalar College of Engineering and Technology, Thindal on 27.11.2018 and 28.11.2018
- S.Vishnupriya attended a workshop on "Artificial Intelligence and Deep Learning" organized by leadingIndia.ai, a nationwide initiative by Bennett University, Greater Noida, India, held at Kongu Engineering College, Perundurai, Erode, Tamilnadu from 28/07/2018 to 30/07/2018.
- T.Dhanur Bhavidhira has attended ICMR sponsored One Day National Level seminar on "Advanced Cermet Cermaics Composites for Medical Applications" organized by VCET on 02.06.2018
- S.Poovizhi has attended a two days workshop on "Artificial Intelligence and Deep Learning" from 23.06.2018 to 24.06.2018 organized by PSG College of Technology in association with IIT, Roorkee
- Ms. S.Subathra, attended one day workshop on 'Block chain Technology' at PSG College of Technology, on 13.10.2018
- T.Dhanur Bavidhira, Two days workshop on "Advanced Python Programming" at Excel Engineering College, on 16.11.2018 & 17.11.2018 Sponsored by CSIR



- S.Nithya, Two days workshop on “Advanced Python Programming” at Excel Engineering College, on 16.11.2018 & 17.11.2018 Sponsored by CSIR
- Dr.S.Sadesh attended one day workshop on ‘NPTEL SPOC’ at IIT Madras on 19.01.2019.
- Ms. D.Lavanya and Ms .S.Subathra attended workshop on ‘Enterprise full stack development using AngularJS, Spring and MongoDB’ at Dr.Mahalingam College of Engineering and Technology on 15.02.2019 and 16.02.2019.
- Dr.S.Sadesh attended two day workshop on ‘Machine Learning and Deep Learning’ at Anna University, Chennai on 08.02.19 and 09.02.2019
- Ms.S.Nithya, Ms.S.Vishnupriya and Ms.S.Ponni attended one day workshop on ‘Cyber Security’ at Kumaraguru College of Technology, Coimbatore on 04.02.2019

### **SEMINARS ATTENDED BY FACULTY**

- Three of faculty members attended CSIR sponsored one day National Seminar on ‘Applications of Mathematics in Cryptography and Network Security’, Department of Mathematics, Velalar College of Engineering and Technology on 22.03.2019.

### **FACULTY ENABLEMENT PROGRAM**

- Mr.P.Sukumar attended an ICT Academy Faculty Development Programme on ‘Introduction to Python Programming’ at Kongu Arts & Science, Erode.
- Ms.T.Dhanur Bavithra, Ms.S.Poovizhi, Ms.S.Nithya has participated in 2 Day Faculty Development Program on Introduction to Python Programming conducted by ICT acadamy on 26.06 2019 to 27.06.2019 at velalar college for women.
- Mr.P.Sukumar has participated in 12 Weeks Faculty Development Program on Introduction to Internet of Things conducted by NPTEL

### **LECTURE / KEY NOTE ADDRESS DELIVERED**

- Ms.S.Kayalvili acted as a resource person and delivered a lecture on ‘Workshop on Python’ at Velalar College for Women on 25.02.2019 and 26.02.2019.

### **CONFERENCE PRESENTED**

- Dr. S. JabeenBegum presented a paper on the International Conference on Science, Engineering and Management(ICSTEM’19) on ‘Binary Bat Algorithm for Feature Selection to identify Parkinson’s Disease’ at Kalaingar Karunanidhi Institute of Technology, Coimbatore on 22.03.2019.
- Dr. S. JabeenBegum presented a paper on Eighth International Conference on Advanced Science and Engineering Research (ASER – 2019) on ‘Savior for Saichen Soldiers on IoT’ at Al-Ameen Engineering College,Erode on 23.03.2019.

The following faculty was presented their paper in 6th National Conference on Emerging Trends in Engineering and Technlology conducted by Nandha College of Technology, Erode on 16.03.2019.

- Ms. C.Selvi, ‘Machine Learning Based Students Performance Prediction Model’
- Ms.K.Vijaya, ‘Smart Irrigation and Soil Monitoring System’
- Ms.C.Kotteswari, ‘Enhanced Privacy in Social Network using Anonymization’ .
- Ms. M.Sakthi Meena, ‘Smart Peer Car Pooling System’
- Ms.R.Kavitha, ‘IoT Based pH Level Monitoring and Controlling of Water Quality Systems’
- Mr. P.Sukumar, ‘An Ontology Mining with Heterogeneous Data to Telemedicine systems’

- Ms. T.Dhanur Bavidhira, 'The Pushcart'
- Ms. S.Vishnupriya, 'Cognitive Banking Chatbot using IBM Watson Assistant'
- Ms.S.Poovizhi, 'Smart Grievance Redressal For VCET'
- Ms. S.Ponni, 'Students Monitoring System'
- Ms. K.Mohanapriya, 'Secured transmission of medical data using encryption and watermarking'
- Ms.D.Lavanya, 'Application Development for Bus Searching', 'Factual News Portal', 'An Efficient Ranked Multi-Keyword Search on Mobile Cloud'
- Dr.S.Sadesh, 'Implementation of Multi language Compiler for College using smart lab system'
- Mr.K.Tharani, 'E-Farmer Self Service' at Nandha College of Technology'

The following faculty was presented their paper in Eighth International Conference on Advanced Science and Engineering Research (ASER – 2019) conducted by Al-Ameen Engineering College on 23.03.2019.

- Dr.S.Sadesh, 'Effective Prediction for Rock Burst dataset using classification Algorithms with particle swarm'
- Ms. S.Nithya, 'Textile Pattern depicter and manufacturing order tracking portal', 'Effective Taxi Recommendation system for Road Network Using Rough Routing Model'
- Ms. S.Vishnupriya, 'Cognitive Banking Chatbot using IBM Watson Assistant', 'Co-Review Perspective Based Mobile App Fraud Detection using Finer Cluster Algorithm'
- Ms.T.Dhanur Bavidhira, 'Medical Assisting App'
- Ms.C.Kotteswari, 'Eye Movement based Cursor Control Mechanism'
- Ms.K.Vijaya, 'Arduino based Smart irrigation system using IoT'
- Ms.S.Kayalvili, on 'Brain Tumour Identification using Sobel Edge Detection'

The following faculty was presented their paper in International Conference on Emerging Trends in Computing, Communication and Automation Technology (ICETCCAT) conducted by Sri Vidhya College of Engineering and Technology, Virudhunagar on 09.03.2019.

- Ms. C.Selvi, 'Vehicular Social Networks with Fuel Charging Mechanism for Taxi Suggestion'
- Ms.S.Kayalvili, 'Privacy and Security Enhancement using Attribute Group Based Access Control in Hybrid Cloud'

The following faculty was presented their paper in NCICC"19-National Conference on Innovations in Communication and Computing, conducted by SNS College of Technology on 18.03.2019.

- Ms. K.Mohanapriya, 'Effective classification for medical dataset to improve KD-TREE algorithm'
- Mr. P.Sukumar, 'Multi College Interdisciplinary events with notification through single website'
- Ms. M.Sakthi Meena, 'Mail Privacy Preservation'
- Ms. C.Selvi presented a paper on 'Big-Data Analytics for Cyber Intelligence and Defence on Cyber Crime against Women by National Commission for Women (NCW)', at Bannari Amman Institute of Technology, Sathyamangalam on 27.03.2019.

## **NPTEL COURSE**

- Ms. K.Mohanapriya received NPTEL certificate with successfully completed tag for the course 'Programming in C++'.
- Ms.C.Kotteeswari received NPTEL certificate with ELITE tag for the course 'Programming, Data Structures and Algorithms using Python'.
- Dr. V.Latha Jothi received NPTEL certificate with ELITE+GOLD tag for the course 'The Joy of Computing using Python'.
- Dr.S.Sadesh received NPTEL and FDP certificate with ELITE tag for the course 'Software Engineering'.
- Ms.K.Vijaya and Mr. M.N.Kathirvel received NPTEL and FDP certificate successfully completed the course 'Software Engineering'.
- Ms.C.Kotteeswari and Ms.M.Mohanasundari received NPTEL and FDP certificate with ELITE tag for the course 'Digital Image Processing'.
- Four faculty members received NPTEL certificate with ELITE tag for the course 'Outcome based pedagogic principles for effective teaching'.
- Dr.S.Jabeen Begum and Mr. M.N.Kathirvel received NPTEL certificate with successfully completed tag for the course 'Outcome based pedagogic principles for effective teaching'.

## **NPTEL CERTIFICATES**

- P.Sukumar has Completed 12 Weeks NPTEL Online certification course on Introduction to Internet of Things and certified with ELITE + GOLD with a consolidated score of 100 %.

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

- Ms. Mohanasundari M, 'A Survey on Tumor Node Detection in PET/CT image based on Image Fusion', International Journal of Scientific Research in Computer Science, Engineering and Information Technology, ISSN 2456-3307, Vol3, Issue 7, October 2018.
- Ms.C.Selvi, published a journal on 'Demand-Supply Oriented Taxi Suggestion System for Vehicular Social Networks with Real Time Charging Advisor: Survey', in 'International Journal of Research and Advanced Development (IJRAD)', 2581-445, Volume 02, Issue 04, pp. 51-56, October-2018
- Ms.S. Kayalvili, published a journal on 'Survey on Dual Encryption with Attribute Authority in Cloud Computing', in 'International Journal of Research and Advanced Development (IJRAD)', 2581 4451, Volume 02, Issue 04, pp. 57-63, October-2018
- Dr.S.Sadesh, published a journal on 'Effective Prediction for Rock Burst Dataset using Classification Algorithms with Particle Swarm', in 'International Journal of Research and Advanced Development (IJRAD)', 2581-4451, Volume 02, Issue 05, pp. 72-80,, December-2018
- Ms.P.Suganthi Malarvizhi, published a journal on 'Frequent Itemsets Mining with Differential Privacy: A Survey', in 'International Journal of Research and Advanced Development (IJRAD)', 2581-4451, Volume 2, Issue 5 pp. pp 81-85, December-2018



- Ms.R.Kavitha, published a journal on 'Improve Cloud Base Wi-Fi Network using Load Base Mobile Cloud Computing Mode', in 'International Journal of Research and Advanced Development (IJRAD)', 2581-4451, Volume 2, Issue 5 pp. pp 86-91, December-2018
- Dr. S. Jabeen Begum, published a paper on 'A Survey for identifying Parkinson's disease by Binary Bat Algorithm', in 'International Journal of Scientific Research in Computer Science and Engineering', ISSN: 2320-7639, Vol.7 , Issue.2 , pp.17-23, April-2019
- Ms. C.Selvi published a paper on 'Demand Supply Oriented Taxi Suggestion System for Vehicular Social Networks with Fuel Charging Mechanism', International Journal of Scientific Research in Computer Science ,Engineering and Information Technology, ISSN 2456-3307, Vol 5, Issue 1, February 2019, Impact factor- 4.032.
- Ms.S.Kayalvili published a paper on 'Improvement of Privacy and Security in Hybrid Cloud with Attribute Group Based Access Control', International Journal of Scientific Research in Computer Science, Engineering and Information Technology, ISSN 2456-3307, Vol 5, Issue 1, pp 57-62, February 2019.
- Ms. R.Kavitha published a paper on 'Improvement of Privacy and Security in Hybrid Cloud with Attribute Group Based Access Control', International Journal of Scientific Research in Computer Science, Engineering and Information Technology, ISSN: 2456-3307, Vol 5, Issue 1, pp 171-179.
- Ms.M. Mohanasundari, published a paper on 'Optimal Tumor Segmentation for Pet and CT Images using Neuro Fuzzy Contour let Transform Technique', in 'International Journal for Research in Applied Science & Engineering Technology (IJRASET)', ISSN: 2321-9653, Volume 7 Issue IV& 1208-1211, April-2019
- Ms.D.Lavanya, published a paper on 'Trust Based Reliable routing Protocol for Manets', in 'International Journal of Innovative Technology and Exploring Engineering (IJITEE)', 2278-3075, Volume-8, Issue-6, PP 1595-1598, April-2019
- Dr.S.Sadesh published a paper on 'Effective Prediction for Rock Burst dataset using classification Algorithms with particle swarm' International Journal of Scientific Research in Computer Science, Engineering and Information Technology, ISSN 2456-3307, Vol 5, Issue 1, February 2019.
- Mr.K.Tharani published a paper on 'Discovering high utility itemsets from transactional database' International Journal of Scientific Research and Review, ISSN 2279-543X, Vol 7, Issue 3, March 2019.

## **BOOK PUBLICATIONS**

- Dr.V.Lathajothi, Ms.S.Kayalvili published a book on 'Cyber Forensic', with ISBN no: 978-93-87670-26-6 and published by Suchitra publications.
- Ms.C.Kotteeswari, Ms.S.N.Sangeethaa published a book on 'Database Management Systems', with ISBN no: 978-93-87670-44-0 and published by Suchitra publications.
- Dr.S.Sadesh, Ms.K.Vijaya published a book on 'Design and Analysis of Algorithms, with ISBN no: 978-93-88335-56-0 and published by Charulatha publications.

## **AWARDS / RECOGNITIONS**

- Ms.C.Kotteeswari, has won the Cloud Champion Award in Cloud Literacy Month 2018 in the coordinator category.

## STUDENT ART COLUMN



Baby R(17CSR014)



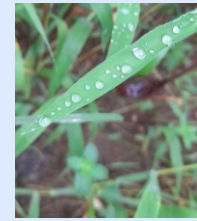
Gokila K(17CSR030)



Mahima J(17CSR060)



Poornima S(16CSR073)



Saravanan S(16CSR079)



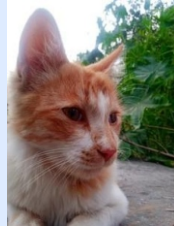
Janaki M



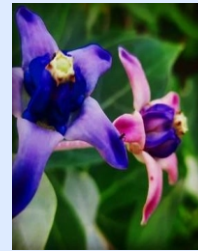
Pavithra D(17CSR082)



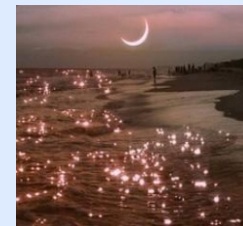
Shalini M(17CSR104)



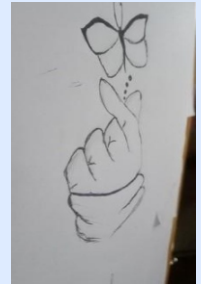
16CSR015(Deepika R)



Vigensh K B(16CSR111)



Divya V



Bharathkumar A



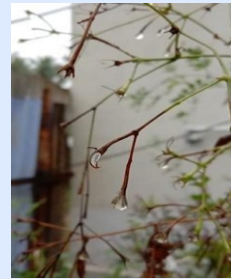
Kavery G (16CSR035)



Mohan P (16CSR055)



Naveen G(16CSR051)



Keerthi P



SowmiyaJ (17CSR109)

### GUESS THE NUMBER with C code

```
#include <stdio.h>
```

```
main()
```

```
{
int i,num=51,flag=1,guess,count=0;
```

```
printf("Guess the number\n");
```

```
scanf("%d",&guess);
```

```
do
```

```
{
if(num==guess)
```

```
{
flag=0;
```

```
}
else if(guess<num)
```

```
{
flag=1;
printf("Your guess is lower than the
number\n");count++;
```

```
}
else
```

```
{
```

```
flag=1;
```

```
printf("Your guess is greater than the number\n");
count++;
```

```
}
```

```
if(flag==1)
```

```
{
printf("Sorry! Please guess it again\n");
scanf("%d",&guess);
```

```
}
```

```
}
```

```
while(flag);
```

```
printf("Congrats! You guessed the
number%d\n",num);
printf("Number of trails: %d\n",count);
```

```
}
```

By – Lavanya R (16CSR044)

## Aptitude Questions

1) In an election between two candidates, one got 55% of the total valid votes and got 20% of the invalid votes. At the end of the day when the total number of votes was counted, the total number was found to be 7500. So what was the total number of valid votes that the other candidate got, was:

- a) 2400
- b) 3100
- c) 3400
- d) 2700

**Answer: d**

Since 20% of the votes were invalid, 80% of the votes were valid = 80% of 7500 = 6000 votes were valid. One candidate got 55% of the total valid votes, then the second candidate must have 45% of the votes =  $0.45 * 6000 = 2700$  votes.

2) A whole number  $n$  which when divided by 4 gives 3 as remainder. What will be the remainder when  $2n$  is divided by 4?

- a) 0
- b) 1
- c) 4
- d) 2

**Answer: d**

3) Raju, Ramu and Razi can do a piece of work in 20, 30 and 60 days respectively depending on their capacity of doing work. If Raju is assisted by Ramu and Razi on every third day, then in how many days will Raju complete the work?

- a) 12 days
- b) 15 days
- c) 16 days
- d) 18 days

**Answer: b**

4) What is the smallest number which when decreased by 8 is divisible by 21, 27, 33, and 55? a) 1490

- b) 10405
- c) 15490
- d) None of the above

**Answer: d**

5) A tap can fill a bucket in 6 hours. After half the bucket is filled, three more similar taps are opened. What is the total time taken to fill the bucket completely?

- a) 3 hrs 15 min
- b) 3 hrs 45 min
- c) 4 hrs 25 min
- d) 4 hrs 15 min

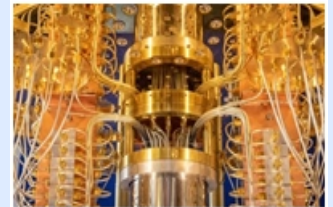
**Answer: b**

By – MithraA (16CSR054)

## Quantum Computing

### What is Quantum?

The quantum in "quantum computing" refers to the quantum mechanics that the system uses to calculate outputs. In physics, a



quantum is the smallest possible discrete unit of any physical property. It usually refers to properties of atomic or subatomic particles, such as electrons, neutrinos and photons.

### What is a Qubit?

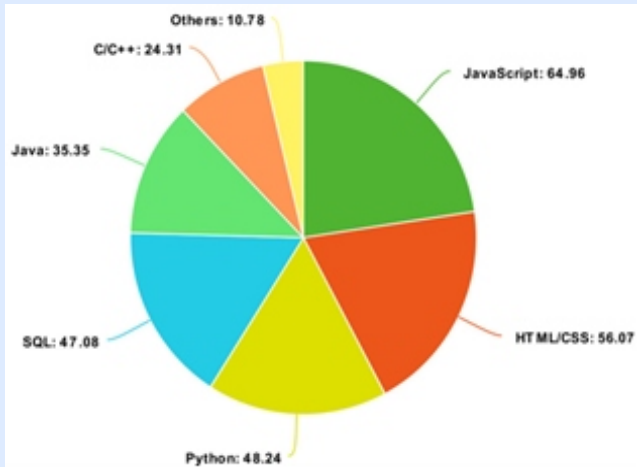
A qubit is the basic unit of information in quantum computing. Qubits play a similar role in quantum computing as bits play in classical computing, but they behave very differently. Classical bits are binary and can hold only a position of 0 or 1, but qubits can hold a superposition of all possible states.

### What is Quantum Computing?

Quantum computers harness the unique behaviour of quantum physics-such as superposition, entanglement and quantum interference-and apply it to computing. This introduces new concepts to traditional programming methods.

Most used programming languages among developers worldwide, as of 2021





**OUTPUT :**

**Guess the number 45**

Your guess is lower than the number Sorry!  
Please guess it again 56

Your guess is greater than the number Sorry!  
Please guess it again 47

Your guess is lower than the number Sorry!  
Please guess it again 54

Your guess is greater than the number Sorry!  
Please guess it again 50

Your guess is lower than the number Sorry!  
Please guess it again 52

Your guess is greater than the number Sorry!  
Please guess it again 51

Congrats! You guessed the number 51 Number of trails: 6

If the alphabets are written in the sequence of a, bb, ccc, dddd, eeeee, fffff, .... What will be the 120th letter?

**Answer: O**

6) Coding has over 700 languages If the alphabets are written in the sequence of a, bb, ccc, dddd, eeeee, fffff, .... What will be the 120th letter?

**Answer: O**

By – Preetha R (16CSR078)

**Word puzzle**

**FOOD**

K	V	C	T	L	R	F	E	P	E	A	C	H	N	R	T	C
N	R	H	T	E	Q	B	R	E	A	D	C	H	E	E	S	E
V	T	E	A	M	S	F	Q	Z	P	K	J	Q	E	Q	A	R
P	Z	E	N	O	U	B	F	T	O	M	A	T	O	L	A	E
W	O	S	X	N	G	N	C	C	T	O	N	I	O	N	O	A
S	D	E	C	A	A	C	Z	O	P	P	Q	A	B	Z	M	L
O	T	B	O	D	R	B	W	F	X	I	P	P	A	I	D	O
D	V	U	O	E	S	Q	A	F	Q	Z	W	P	N	J	E	R
A	K	R	K	U	A	O	B	E	P	Z	B	L	A	L	P	A
G	M	G	I	E	V	G	S	E	O	A	C	E	N	C	J	N
U	Z	E	E	T	A	C	O	N	T	S	K	C	A	A	M	G
F	P	R	B	V	L	N	U	Y	A	M	D	V	C	R	I	E
H	A	M	B	U	R	G	E	R	T	K	O	M	O	R	L	T
S	T	Q	S	O	U	P	U	O	X	I	H	I	O	K	B	
E	R	H	L	K	S	A	N	D	W	I	C	H	T	T	C	V
Z	Y	X	U	U	T	R	M	A	Y	O	N	N	A	I	S	E
V	L	D	B	L	E	T	T	U	C	E	B	U	T	T	E	R

TOMATO	TEA	TACO	SUGAR
SOUP	SODA	SANDWICH	POTATO
PIZZA	PEACH	ORANGE	ONION
MILK	MAYONNAISE	LETTUCE	LEMONADE
HAMBURGER	COOKIE	COFFEE	CHEESEBURGER

By SHURUTHI S(16CSR096)

**Sudoku puzzle**

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

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

By PRIYANKA S(17CSR088)



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