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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 2020-2021

TECH BUZZ





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(Autonomous)

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Thindal, Erode – 638 012

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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TECH BUZZ 2020-2021

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MESSAGE FROM THE HOD

Computer Science serves as the foundation for various technological advancements that the world sees today. The field has grown by leaps and bounds. The future innovations that it brings along never seem to slow down. Yet another beauty of computer science is that it finds a place in many interdisciplinary fields as well. With these, there also comes a necessity to keep up to the global demand of finding highly skilled engineers and scientists. We the Department of Computer Science and Engineering align our goals towards the same and the start-ups, expert engineers produced by us stand testimony to it. The department provides state-of-the-art computing facilities to the students enabling them to stay a step ahead. They are exposed to various opportunities such as inplant training, internships, and workshops during their course of study. The department also hosts a number of workshops and student managed symposiums. The department also encourages innovative projects and quality research in various interrelated domains. The department is involved in major research on which faculty members and students work on several areas such as Networks, Database, Theoretical Computer Science, Multimedia, Image Processing, Software Engineering, Data Mining, Big Data, Machine Learning and Internet of Things.



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

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.

GRANTS RECEIVED

- Dr.S.Jabben Begum, Ms.K.Vijaya received a grant from AICTE under MODROB scheme for Rs. 11,52,941 to establish Advanced Computer Graphics (CG) and Virtual Reality (VR) Laboratory.

- Dr.S.Jabeen Begum, Dr.V.Latha Jothi, Dr.S.Kayalvili received a grant from AICTE for Rs. 3,36,667 to conduct STTP on 'Internet of Things with Blockchain – Applications and Challenges'

- Dr. S. Gokulraj received a grant from AICTE - ATAL Rs.93000.A five day AICTE sponsored Training and Learning



Faculty Development Program on Augmented Reality (AR)/Virtual Reality (VR) was conducted from 07.12.2020 to 11.12.2020.

MOU ACTIVITIES

- MoU was signed between department of CSE and Imarticus Limited on 16.12.2020

PROGRAMS ORGANIZED

- Dr.S.Jabeen Begum, Dr.V.Latha Jothi, Dr.S.Kayalvili organized Series I of the AICTE sponsored STTP on "IoT with Blockchain - Applications and Blockchain" from 30.11.2020 to 05.12.2020.

- Dr.S.Jabeen Begum, Dr.V.Latha Jothi, Dr.S.Kayalvili organized an AICTE sponsored STTP on "Internet of Things with Blockchain – Applications and Challenges" for Rs. 3,36,667 from 04.01.2021 to 09.01.2021 (Series – 2) and from 01.02.2021 to 06.02.2021 (Series – 3)

CSI

- A Workshop on 'Adobe Photoshop' was organized on 27.02.2021. Mr.S.Thanigai Singaravelan and Mr.R.Vidyakaran, members of CSI Student Branch was the resource persons.
- CSI Student Branch conducted 'IntraCSI Meet' on 24.03.2021 and members of CSI actively participated in the events and won prizes.
- A Workshop on '3D Animation' was organized on 31.03.2021. Ms.Vathula V A , Ms. Dharani sri S and Ms.Karunambika S P, members of CSI Student Branch was the resource persons.
- 64 Students from CSE and IT enrolled for CSI Student Branch membership.
- A webinar 'GUI BOLSTER APPS via PyQt5' is conducted on 10.04.2021 and Ms.Karthika S, Alumni of IT, was the resource person.
- A CSI meet was conducted on 14.05.2021 and many CSI members of CSE and IT actively participated and won the prizes.

ISTE

- A multimedia event on 'COVID – 19' was held on 14.05.2021

VALUE ADDED COURSES

- Department of Computer Science and Engineering have conducted a 5 days Value Added Course on 'PHP Programming' from 03.06.2021 to 07.06.2021. Totally 109 students from second year, CSE department were benefitted from this course.
- Department of Computer Science and Engineering have conducted a 5 days Value Added Course on 'User Interface Technologies' from 03.06.2021 to 07.06.2021. Totally 87 students from Third year, CSE department were benefitted from

ASSOCIATION ACTIVITIES

WEBINAR

- The Webinar was conducted on 'Data Analytics' on 03.08.2020, Monday at 2.00 PM. The function was honored by Mr. AHAMED KHALID, Vice president, Imarticus Learning and delivered the lecture on 'Opportunities in Data Analytics for freshers.'

THE WEB-DEV BATTLE

- The WEB DEVELOPMENT BATTLE was conducted from 09.10.2020, 12.01am Friday to 17.10.2020, 9.00 pm Saturday. Nearly 45 students have registered and participated actively. In this contest the students have to create minimum 3 pages of websites based on the given templates using any available web development tools.

- We have conducted the Webinar on Google Analytics on 30.01.2021, Saturday at 10.00 AM. The function was honored by Mr.P.KARTHICK, Technical lead, Wipro Technologies, London



The Department of Computer Science and Engineering & Pantech e Learning jointly organizing the two Days' Workshop on ARTIFICIAL INTELLIGENCE on 02.02.2021 & 03.02.2021, at 11.00 am.



- We have conducted the Webinar on "Non Programming Skills in IT Infra Services" on 13.02.2021, Saturday at 10.00 a.m.



The function was honored by Mr. D. ARUN PARANTHAMAN (Alumus), Senior Storage Admin, Capgemini, Bangalore.

TECHNICAL QUIZ

The Technical quiz on 'C Programming language' was conducted on 15.08.2020, Saturday through Google meet at 3.00 pm.



We have conducted the Technical Quiz on DATA STRUCTURE on 27.02.2021, Saturday at 03.15 pm.



CODING CONTEST

The Coding contest was conducted on 29.08.2020, Saturday through Google meet at 10am. The contest consists



of three basic programming questions with default test cases to be passed. This helps the students to exhibit their technical skills. At the end, top three performers were rewarded and appreciated by the head of the Department.

We have conducted the CODE-O-PHILIA, a coding event on 14.02.2021, Sunday at 5.00pm. The students are provided with a python program and asked to solve it with simple code. Later the answer for the program is discussed in common platform.



TECHNICAL WEBINAR

- We have conducted the Webinar on how Data Science is changing the world? on 03.03.2021, Wednesday at 11.00 AM.



The function was honored by Ms. S. DEEPA, Data Scientist, Rubix Technologies Pvt. Ltd, Bangalore.

The Department of Computer Science and Engineering of Velalar College of Engineering and Technology have conducted the Webinar on BLOCKCHAIN TECHNOLOGY on 06.03.2021, Saturday at 10 AM. The function was honored by MR. G. Sanjaydeep, Associate Software Engineer, Accenture, Chennai.

SKILL DEVELOPMENT PROGRAMME

- The Department of Computer Science and Engineering of Velalar College of Engineering and Technology has conducted the Webinar on Career Awareness & Skill Development Programme on 13.03.2021, Saturday at 9.30 AM.



- The Association of Computer Science and Engineering organized a workshop on Video & Poster Designing on 08.05.2021. Executive members of association acted as a resource person to guide their juniors.
- The Department of Computer Science and Engineering organized the Valediction of MAGNUMOPUS- Association on 11.06.2021, Friday at 03:00 pm.

CLUB ACTIVITIES

- 46 students participated in “Tech Talk On Data Security” organized by data pirates club on 26.02.2021
- 24 students participated in “Quiz contest on Database management systems” organized by data pirates club on 11.05.2021

INAUGURAL FUNCTION

MAGNUMOPUS - Association of Computer Science and Engineering was inaugurated on 28.09.2020, Monday at 10:00 Am. The function was honoured by Mr.Sundar Muthusamy, Platform Manager for AW/FW Execution, Intel Corporation, Austin, Texas, USA.

PLACEMENT ACTIVITIES

- KARTHIK NANNEPAMULA got selected in Hexaware Technologies.(got offer letter on 26.09.2020) (CTC Offered 3,50,000 Per annum, Designation Graduate Engineer Trainee (GET)).
- 11 students got placed in DXC Technologies, 6 students got placed in TCS, and 3 Students got placed in CTS.
- Baby R, Ilakya T, and SankarGanesh B got selected in “Cognizant Technology Solutions India Pvt. Ltd (CTS)”, for the position of Programmer Analyst Trainee , CTC Offered 4,00,000 Per annum.
- Premalatha.C got selected in “WIPRO Technologies”, Chennai, for the position of Project Engineer, CTC Offered 3, 50,004 Per annum.
- Meenakshi Sundaram.P.R got selected in “MSC Technology”, Chennai, for the position of Junior Developer – Biztalk, CTC Offered 3,50,000 Per annum.

- Usha.U got selected in “Iamneo”, Coimbatore, for the position of Product Developer, CTC Offered 3, 00,000 Per annum.
- Anton Joe A, & Hari Sudhan S got selected in “FACE prep”, Coimbatore, for the position of Placement mentor, CTC Offered 3,06,000 Per annum.
- Vasanth.M got selected in “VinsInfo pvt Ltd”, Chennai, for the position of Associate Developer, CTC Offered 2, 14,000 Per annum.
- 11 students got selected in “DXC Technologies”, Chennai, for the position of Associate Professional Engineer, CTC Offered 3, 60,000 Per annum.
- Three students got placed in Infosys limited
- One student got placed in Mindtree limited (A Larsen & Turbo Group Company)
- One student got placed in SpringFive Consulting Service

STUDENTS ACTIVITIES

PAPER PRESENTED

The following students presented their paper in National Conference on Communication & System Design conducted by Dhaanish Ahmed Institute of Technology on 03.4.2021.

- Ajitha A, Akkshaya.S, V.Janupriya ‘An efficient security model for privacy enhanced distributed data mining using cloud Federation approach’
- Anoordhivyavarthini.S, Bhoornisha A K, O.M.Madhusuthanan ‘IoT Based Smart Shopping Cart’
- Anton Joe A, Kousalya.P, Kaviya.C ‘Scable Learning For Identifying and Ranking PrevelentT News Topics using Social Media Factors’
- Anusuya.M, ‘CAD Diagnosis Using Classified Machine Learning Methods’
- S.Bhuvaneswaran, Dharani A, Gokila K ‘Secured Passive Video Integrity Verification’
- Karthik Nannepamula, Karthikeyan G ‘Virtual Teacher-The New Era Of Teaching’

- Kavinpriyaa K, Lavanya G, 'A Secure Cryptographic Method using ECC in Networking'
- K.Keerthana, R.Manju Priya 'Weather Forecasting Using Cumulative Sum Average MapReduceAlgorithm'
- J.Mahimaa, K.M.Manju 'Secured Data Sharing Inference Analysis Under Green Communication'

The following students presented their paper in International Conference On Advanced Science And Engineering Research conducted by Al-Ameen Engineering college on 16.04.2021.

- Ayesha M M, S. Bharathipriya, Divya Dharshini M 'A study on Covid-19 Future Forecasting Using Classification and Regression Techniques'
- S.Gowtham, R.Harini, Kavary G 'Space time block coded structural inflection technique using MIMO'
- Lakshitha T, Barkavi B 'Fake Product Identification System Using Block Chain'
- Manoj Kumar C, Pavithra Devi.R, Siva Priya.K 'A Medical Data Privacy Protection Schema Based on BlockChain'
- Meiyanaand.D, Nandhitha.V, Vijayabaalan V C 'A Review on Diabetic Maculopathy Detection Methodology'
- Nandini.V, Samuktha P, Vinodhini S 'Discovery of Fooling Attacks in WLAN-Based Locating Systems Using WIFI Hotspot Tags'
- Sneha.K, Suresh.M, Sampathkumar.S 'Fruit Disease Identification Using CNN'
- Ramya Vardhini S, Shalini E 'Predicting Personality Of Students using Answers to Open-Ended Interview Questions'
- Sujeeth.S, Varadharaj J, Roja P 'An Efficient Approach For Multi Document Summarization Using LDA and Fuzzy Logic Techniques'
- Saruga C, Yogeswaran, Rajalaxmi K 'Lung Cancer Prediction System Using Data Mining'

The following students presented paper in International E-Conference on Recent Advances In Computation, Communication, Internet of Things And Artificial Intelligence by M.Kumarasamy College of Engineering on 01.04.2021.

- R.Baby, Janani E 'Secure File Storage Using Hybrid Cryptography'
- Sreesanthya R M, Selvapriya K 'An Efficient Resource Allocation for Cloud Computing using KNN with Naïve Bayes Algorithm'

The following students presented paper in Seventh National Conference On Advancements In Mechanical, Environmental, Safety And Health Engineering conducted by Knowledge Institute of Technology on 08.05.2021.

- Nivedha A, Priyanka.S 'An Efficient Approach for Load Balancing and Scheduling in Cloud Computing'
- Premalatha C, 'Detecting Sceptical file Relocation and duplication Avoidance in the Cloud'
- Priyadharshini.S, Savitha D, Ananthi J 'Two Level QRFIE Code for Private Message Sharing' in National Conference On Communication & System Design conducted by PSG Institute of Technology and Applied Research on 03-04-2021.
- Saktheswaran M S, Sharmila S, Ramhitha R 'Privacy Preserving Shortest Distance Queries On Encrypted Graph Data Using Adversary Models And Encrypted Graph Schemes' in International Conference On Innovation And Technological Developments In Electronics, Computers And Communication conducted by SRM Institute of Science and Technology on 17.5.21 to 18.5.21.

STUDENTS NPTEL

- 11 students successfully completed the course 'Principles of Management' in NPTEL during April 2021
- 9 students successfully completed the course 'English Language for Competitive Exams' in NPTEL during April 2021

- 2 students successfully completed the course 'Emotional Intelligence' in NPTEL during April 2021
- 2 students successfully completed the course 'Introduction to Industry 4.0 and Industrial Internet of Things' in NPTEL during April 2021
- 1 Student successfully completed the course 'Data Base Management System' in NPTEL during April 2021
- 1 Student successfully completed the course 'Data Science for Engineers' in NPTEL during April 2021

WORKSHOP ATTENDED BY FACULTY

- Dr.V.Latha Jothi attended a 'Five Day online Workshop on Java' organized by Vellore Institute of Technology, Chennai from 24.05.2021 to 28.05.2021
- Mr.P.Sukumar attended a online workshop on 'Intellectual Property Rights (IPR) and Patenting: An Overview and Implications in Engineering Field' organized On 29.06.2021.

SEMINARS/WEBINARS ATTENDED BY FACULTY

- Dr.S.Kayalvili attended an online National level webinar on 'NEP 2020: Vision to Action' on 13.05.2021 organized by IIIT, Kalyani.
- Mr.P.Sukumar attended an online National level webinar on 'Patent Filing and its Importance' on 20.05.2021 organized by Dr. N.G.P. Institute of technology, Coimbatore.
- Ms.S.Nithya attended an National Level Webinar on 'Ant Colony Optimization Algorithm in Artificial Intelligence' organized by Vellore Institute of Technology, Chennai, on 27.05.2021.
- Ms.S.Ponni attended a National Level Webinar on 'Ant Colony Optimization Algorithm in Artificial Intelligence' organized by Vellore Institute of Technology on 27.05.2021.
- Ms.S.Ponni attended a Webinar on 'Cognitive Radio' organized by Pantech E Learning on 03.06.2021.

- Ms.S.Ponni attended a Webinar on 'Toycathon' organized by SCADCET in association with IIC on 14.06.2021.
- Ms.S.Ponni attended a Webinar on 'Wireless Charging for Electric Vehicle Applications' organized by Pantech E Learning on 03.06.2021

TRAINING DETAILS

- CTS Training is going on right now from 05.10.2020.
- DXC Training is given by six phrase from 24.08.2020 to 14.09.2020
- Wipro PRP training is given from 23.06.2020 to 04.10.2020

CLUB ACTIVITIES

- 85 students participate in "Workshop on Refresher course on SQL queries" organized by data pirates club on 01.10.2020
- 97 students participated in "Seminar on Principles of Cyber security" organized by data pirates club on 11.11.2020
- 46 students participated in "Tech Talk On Data Security" organized by data pirates club on 26.02.2021
- 24 students participated in "Quiz contest on Database management systems" organized by data pirates club on 11.05.2021

FDP PROGRAMS ATTENDED BY FACULTY

- Dr.S.Jabeen Begum, Dr.V.Latha Jothi, Dr.S.Kayalviliparticipated in the AICTE Sponsored Two Weeks Online Faculty Development Programme on "Ideas and Innovations in Blockchain Architecture, Technology and its Research Applications (Phase – II)" organized by the Department of Computer Science and Engineering, Syed Ammal Engineering College, Ramanathapuram from 14.12.2020 to 27.12.2020.
- Dr.S.Gokulraj participated in the online Short Term Training Programme on 'Data Science Technologies', from 23rd to 28th November organized by Dept of CSE,Paavai Engineering College,Namakkal

- Dr.V.Latha Jothi and Dr.S.Kayalvili participated in the AICTE Sponsored Online Short Term Training Programme Series - 1 on "Challenges and Applications of Cyber Physical System" organized by KSR Institute for Engineering and Technology from 19.10.2020 to 24.10.2020.
- Dr.V.Latha Jothi and Dr.S.Kayalvili participated in the AICTE Training And Learning (ATAL) Academy Online FDP on "Block chain" from 07.12.2020 to 11.12.2020 at Karpagam College of Engineering.
- M.Mohanasundari , K.Mohanapriya, C.Kotteeswari, S.Vishnupriya, S.Ponni, S.Poovizhi and S.Nithya participated in the AICTE Training And Learning (ATAL) Academy Online FDP on "Augmented Reality (AR)/ Virtual Reality (VR)" from 07.12.2020 to 11.12.2020 at Velalar College of Engineering and Technology.
- Sukumar.P participated in the AICTE sponsored Short Term Training Program(Virtual Mode) on "Robotic process Automation Tools & Techniques" from 07.12.2020 to 12.12.2020 at Rajalakshmi Engineering College, Chennai.
- Sukumar.P participated in the AICTE sponsored Short Term Training Program(Virtual Mode) on "IoT with Blockchain- Applications and Challenges" from 30.11.2020 to 05.12.2020 at Velalar College of Engineering and Technology.
- Sukumar.P participated in the Faculty Development Programme on "End-to-End Processes in Data Analytics" from 02.11.2020 to 06.11.2020 at SSN College of Engineering, Kalavakkam.
- M.Mohanasundari, C.Kotteeswari participated in the Faculty Development Program on "Blockchain, Innovation, Industry AI Solutions & Application Security to DevSecOps" conducted by IBM subject matter experts in Dec 2020.
- K.Mohanapriya participated in the Faculty Development Program on "Blockchain, Innovation, Industry AI Solutions & Application Security to DevSecOps" conducted by IBM subject matter experts in Dec 2020.
- Dr.V.Latha Jothi, Dr.S.Kayalvili, Ms.S.Ponni has participated in AICTE Training and Learning (ATAL) Academy Online FDP on "Quantum Computing" from 04.01.2021 to 08.01.2021 at K.S.Rangasamy College of Technology, Tiruchengode
- Ms.K.Mohanapriya and Ms.S.Ponni has participated in Train the Trainer programme on "Android Development with Kotlin" from 01.04.2021 to 06.04.2021 conducted by Google Developers organized by ICT Academy.
- Ms.D.Lavanya and Ms.S.Subathra has participated in AICTE Training and Learning (ATAL) Academy Online FDP on "Block chain Technology – Future of Cyber Security " from 18.01.2021 to 22.01.2021 at Excel Engineering College, Namakkal.
- Dr.S.Kayalvili has attended AICTE sponsored two weeks online FDP on 'IoT Applications with Blockchain Technologies' from 19.02.2021 to 04.03.2021, organized by Mahendra Engineering College, Namakkal.
- Dr.S.Kayalvili has attended one week online FDP on 'Essentials of Outcome Based Education' from 15.03.2021 to 19.03.2021, organized by Dr.M.G.R Educational and Research Institute, Chennai.
- Dr.V.Latha Jothi, Dr.S.Kayalvili attended a four day online Faculty Development Programme on 'Revised NAAC accreditation framework perceptions' organized by G.T.N. Arts College, Dindigul from 12.05.2021 to 15.05.2021
- Dr.V.Latha Jothi, Dr.S.Kayalvili attended a five day online Faculty Development Programme on 'Recent Research Trends in Computing' organized by Indra Ganesan College of Engineering from 31.05.2021 to 04.06.2021
- Dr.V.Latha Jothi, Dr.S.Kayalvili attended a one week National level online Faculty Development Programme on 'Online Teaching Tools for Educators' organized Murugappa Polytechnic College, Chennai from 14.06.2021 to 20.06.2021

- Dr.S.Sadesh attended a Five day online Faculty Development Programme on 'Open Source Tools for Data Analytics' organized by Sri SAI RAM Engineering College, Chennai from 24.05.2021 to 28.05.2021
- Ms.D.Lavanya, Ms.S.Subathra attended a ATAL online Faculty Development Programme on 'Role of Augmented Reality (AR) & Virtual Reality (VR) in Real – Time Applications' organized by Karunya Institute of Technology and Sciences from 07.06.2021 to 11.06.2021.
- Ms.D.Lavanya, Ms.S.Subathra attended a Faculty Development Programme on 'Introduction to Python Programming (Online Live FDP)' organized by ICT Academy from 24.05.2021 to 28.05.2021.
- Mr.P.Sukumar attended a Faculty Development Programme on 'IoT over Edge & Cloud Computing 1.0 (IECC-1.0)' organized by Northern India Institute of Technology, Lucknow from 14.06.2021 to 19.06.2021.
- Mr.P.Sukumar attended a Faculty Development Programme on 'Block Chain Technology' organized by Lokmanya Tilak College of Engineering from 17.06.2021 to 19.06.2021.
- Mr.P.Sukumar attended a Faculty Development Programme on 'Innovations enabling Industry 4.0' organized by Lokmanya Tilak College of Engineering from 28.06.2021 to 30.06.2021.
- Ms.S.Nithya attended a ATAL online Faculty Development Programme on 'Cyber Security' organized by Anand Institute of Higher Technology from 07.06.21 to 11.06.21.
- Ms.S.Ponni attended a National Level five days FDP on 'ML/DL by using COLAB and KNIME-RoadMaps' organized by CMR Engineering College from 01.06.2021 to 05.06.2021.
- Ms.S.Ponni attended a National Level five days FDP on 'Multidimensional Skillset of Current Generation of Teaching Professionals' organized by Prathyusha Engineering College from 14.06.2021 to 18.06.2021.

- Ms.S.Ponni participated in 'Train the Trainer Program on Java Programming' organized by Infosys Limited from 16.06.2021 to 18.06.2021.

LECTURE / KEY NOTE ADDRESS DELIVERED

- Dr. S. Jabeen Begum acted as a resource person of AICTE STTP 'Effective and Innovative Teaching, Best Practices and Learning Strategies – Series 1& 2' organized by Dept of IT, Velalar College of Engineering and Technology, Erode.
- Dr. S. Jabeen Begum acted as a resource person of AICTE STTP 'Deep Learning Applications and challenges in Big Data Analytics – Series 1' organized by Dept of ECE, Velalar College of Engineering and Technology, Erode .
- Dr. V. Latha Jothi delivered a lecture on "Overview of Machine Learning" at Velalar College of Engineering and Technology in AICTE sponsored STTP on 'Deep Learning Applications and Challenges in Big Data Analytics- series 1' on 17.08.2020
- Dr. V. Latha Jothi acted as a resource person of AICTE sponsored STTP on 'Deep Learning Applications and Challenges in Big Data Analytics – Series 3' organized by Dept of IT, Velalar College of Engineering and Technology, Erode from 05.10.2020 to 10.10.2020.
- Dr. S. Devi Suganya acted as a resource person of AICTE STTP 'Effective and Innovative Teaching, Best Practices and Learning Strategies – Series 1 &2' on 'Evolution of Deep Learning Algorithms' organized by Dept of IT, Velalar College of Engineering and Technology, Erode
- Dr. S. Jabeen Begum acted as a resource person of AICTE STTP 'Effective and Innovative Teaching, Best Practices and Learning Strategies – Series 2' organized by Dept of ECE, Velalar College of Engineering and Technology, Erode.

- Dr.S. Kayalvili acted as a resource person of AICTE STTP 'Effective and Innovative Teaching, Best Practices and Learning Strategies – Series 2' on 'Interactive Classroom' organized by Dept of ECE, Velalar College of Engineering and Technology, Erode on 24.09.2020.
- Dr.V.Latha Jothi acted as the chair person in the Virtual International Conference on Green Energy and Smart Technologies in Engineering organized by JP College of Engineering on 24.04.2021

CONFERENCE ATTENDED BY FACULTY

- Dr.S.Jabeen Begum, Dr.V.Latha Jothi, Dr.S.Kayalvili, Dr.S.Gokulraj presented a paper on "Survey on Forecasting the Vulnerability of Covid-19 in Tamilnadu" in the AICTE sponsored International E-conference on Data Analytics, Intelligent Systems and Information Security (ICDIIS'20) held from 11.12.2020 - 12.12.2020 organized by Dr.Mahalingam College of Engineering and Technology, Pollachi
- Dr.S.Kayalvili presented the paper "A Survey on keyword search over graph database" in the AICTE sponsored International Conference on Current Trends and Challenges in Health care Informatics and Technology organized by KSR College of Engineering from on 10.12.2020
- Dr.V.Latha Jothi presented the paper "A Survey on Online Shoppers' Purchase Intention" in the AICTE sponsored International Conference on Current Trends and Challenges in Health care Informatics and Technology organized by KSR College of Engineering on 10.12.2020
- S.Vishnupriya and S.Ponni presented the paper "Enhanced Crow Search Algorithm for Task Scheduling in Cloud Computing" in the International Virtual conference on Robotics, Automation, Intelligent Systems and Energy (IVC-RAISE 2020) organized by Kongu Engineering College on 15.12.2020

- Dr.S.Kayalvili presented a paper titled "An efficient resource allocation for cloud computing using KNN with Naive Bayes algorithm" in International E-Conference on Recent Advances in Computation, Communication, Internet of Things and Artificial Intelligence, M.Kumarasamy College of Engineering on 31.03.2021
- Dr.S.Gokulraj presented a paper titled "Secure File Storage Using Hybrid Cryptography" in International E-Conference on Recent Advances in Computation, Communication, Internet of Things and Artificial Intelligence organized by Department of Electronics and Communication Engineering , M.Kumarasamy College of Engineering, 31.03.2021.

The following faculties have presented their papers in International E-Conference on Recent Developments in Engineering and Technology organized by Dhaanish Ahmed Institute of Technology on 03.04.2021.

- Dr.S.Jabeen Begum , 'Virtual Teacher – The New Era of Teaching'
- Dr.S.Sadesh, 'Scalable Learning for Identifying and Ranking Prevalent news topics using social media factors'
- Mr.P.Sukumar, 'An Efficient Security Model for Privacy Enhanced Distributed Data Mining Using Cloud Federation Approach'

The following faculties have presented their papers in the 10th International Conference on Advanced Science and Engineering Research (ASER – 2021) organized by Al-Ameen Engineering College on 16.04.2021.

- Dr.V.Latha Jothi, 'Predicting Personality of Students using Answers to Open-Ended Interview Questions' in
- Dr.S.Sadesh, 'Fruit Disease Identification using CNN'
- Mr.P.Sukumar, 'An Efficient Approach for Multi Document Summarization Using LDA and Fuzzy Logic Techniques'

- Dr.S.Gokulraj has presented a paper titled 'Detecting Sceptical file Relocation and duplication avoidance in the cloud' in national Conference on AMESHE organized by, Knowledge Institute of Technology-Salem held on 08.05.2021.
- Ms.S.Nithya presented a paper on Seventh National Conference AMESHE-2021 titled 'An Efficient Approach for Load Balancing and Scheduling in Cloud Computing' on 08.05.2021 at Knowledge Institute of Technology.
- Ms.S.Ponni presented a paper on National Conference on Communication and System Design titled 'Two Level QRFIE Code for Private Message Sharing' on 03.04.2021 at PSG Institute of Technology and Applied Research.

NPTEL CERTIFICATES

- Ms.S.Vishnupriya and Ms.S.Ponni successfully completed the course "Effective Engineering Teaching in Practice" in NPTEL with Elite certificate during March 2021.
- Dr.V.Latha Jothi, successfully completed the course 'An Introduction to Programming through C++' in NPTEL with Elite + Silver certificate during Jan-April 2021.
- Dr.V.Latha Jothi, successfully completed the course 'Cloud computing' in NPTEL with Elite + Silver certificate during Jan-April 2021.
- Dr.V.Latha Jothi, successfully completed the course 'Introduction to Internet of Things' in NPTEL with Elite + Silver certificate during Jan-April 2021.
- Mr.P.Sukumar, successfully completed the course 'NBA Accreditation and Teaching –Learning in Engineering (NATE)' with Elite + Silver certificate during Jan-April 2021.
- Ms.S.Ponni, successfully completed the course 'Effective Engineering Teaching In Practice' in NPTEL with Elite certificate during Jan-April 2021.
- Ms.S Vishnupriya, successfully completed the course 'Effective Engineering Teaching In Practice' in NPTEL with Elite certificate during Jan-April 2021.

JOURNAL PUBLICATIONS BY THE FACULTY MEMBERS

- Dr.V.Latha Jothi published a paper "Crop Yield Prediction using KNN Model" in International Journal of Engineering Research and Technology, 2278-0181, Volume 8, Issue 12, pp.4 – 7, Aug-20
- Dr.S.Sadesh published a paper "Designing User-Centered IoT Middleware Solutions for Small and Mid-Scale Farmers for Precision Agriculture using Cloud Computing" in International Journal of Advanced Trends in Computer Science and Engineering, 2278-3091, Volume 9, Issue.4, July – August 2020
- Dr.S.Sadesh published a paper "Fine-grained request approval with truth form over encrypted spatial data in cloud storage" in International Journal of Intellectual Advancements and Research in Engineering Computations, 2348-2079, Volume 8, Issue 4, 2020
- Dr.S.Gokulraj published a paper "Infant Health Care Monitoring System Using IoT" in Aegaeum Journal (UGC), 0776-3808, Volume 8, Issue 7, Jul-20
- Ms.K.Vijaya published a paper "Cyberbullying-A Threat To Children And Their Psycho-Social Ambience" in PSYCHOLOGY AND EDUCATION, 0033-3077, Volume 57, Issue 9, 1106-1109, Nov-20
- Ms.K.Vijaya published a paper "Canning of Statements in IOT Using Arduino Uno" in International Journal of Engineering Research And Management, 2349- 2058, Volume 7, Issue 8, Aug-20
- Ms.K.Vijaya published a paper "Ransomware Deployment and Analysis" in International Journal of Research and Advanced Development, 2581-4451, Volume 4, Issue 2, Aug-20
- Ms.K.Vijaya published a paper "Multi-Level Privacy Authentication in Distributed M-Healthcare using Blockchain" in International Journal of Research and Advanced Development, 2581-4451, Volume 4, Issue 3, pp. 10-13, Aug-20

- Ms.K.Mohanapriya published a paper “Hiding Medical Data in Video Frames by Encryption and Video Watermarking Techniques” in International Journal of Research and Advanced Development, 2581-4451, Vol 4, Issue 3, pp. 14-18,,Aug-20
- Ms.D. Lavanya published a paper “Adverse Drug Reaction Analysis Using Support Vector Machine Model” in International Research Journal of Modernization in Engineering Technology and Science, 2582-5208, Vol 2, Issue 8,Aug-20
- Ms.D.Nithya published a paper “Efficient Real-Time Tasks Scheduling in Virtualized Cloud Environment” in International Journal of Research and Advanced Development, 2581-4451, Vol 4, Issue 3, pp. 6-9,Aug-20
- Ms.S.Poovizhi published a paper “Geo Tracking System Using Xamarin Approach” in International Journal of Scientific & Technology Research, 2277-8616, Vol 9, Issue 9,Sep-20
- Ms.S.Vishnupriya published a paper “An Iterative Mapreduce based Frequent Subgraph Mining Algorithm with Load Balancing” in International Journal of Engineering Research & Technology, 2278-0181, Vol 8, Issue 12,Aug-20
- Dr. S. Jabeen Begum, Dr.V.Latha Jothi, Dr.S.Kayalvili, Dr.S.Gokulraj presented a paper “Survey on Forecasting the vulnerability of Covid 19 in Tamil Nadu” in Journal of Physics: Conference Series, doi:10.1088/1742-6596/1767/1/012006,, Feb-21
- Dr.V.Latha Jothi, Dr.S.Jabeen Begum presented a paper “Epidemic Model Simulation for Corona Pandemic in Tamil Nadu” in Annals of R.S.C.B, 1583-6258, Volume 25, Issue 5, pp 3737 - 3747, May 2021
- Dr.V.Latha Jothi presented a paper “Adaptive KNN based Intention Prediction” in Journal of Xi'an University of Architecture & Technology, , Volume 13, Issue 6, 2021
- Dr.S.Sadesh presented a paper “Scalable learning for identifying and ranking prevalent news topics using social media factors” in International Journal of Advanced Research in Basic Engineering Sciences and Technology, 2456-5717, Volume.7, Issue.4, Apr-21

- Dr.S.Sadesh presented a paper “Fruit disease identification using CNN” in International Journal of Advanced Science and Engineering Research, 2455-9288, Volume 6, Issue 01, May 2021
- Dr.S.Kayalvili presented a paper “Blockchain integrated IIOT – Future of IOT” in Materials Today : Proceedings , <https://doi.org/10.1016/j.matpr.2020.12.1051>, , Feb-21
- Dr.S.Kayalvili presented a paper “Spectral analysis of ischemic stroke detection using machine learning” in Journal of Huazhong University of Science and Technology, 1671-4512, Volume 50, Issue 5, May 2021
- Dr.S.Kayalvili presented a paper “An efficient resource allocation in cloud computing using KNN and Naive bayes algorithms” in International Journal of Advanced Research in Computer and Communication Engineering, 2278-1021, Volume 10, Issue 5, May 2021
- Ms.M.Mohanasundari, Ms.C.Kotteeswari, Ms.K.MohanaPriya presented a paper “Trust Appraisal of Cloud Services using Cloud - Analytic Hierarchy Process” in Annals of R.S.C.B., 1583-6258, Volume. 25, Issue 4, Pp.8375 - 8385, Apr-21
- Ms.M.Mohanasundari presented a paper “Secure Data Sharing ECC Approach” in International Journal of Advanced Research in Basic Engineering Sciences and Technology, 2456-5717, Volume.7, Issue.4, Pages. 245-49, Apr-21
- Ms.M.Mohanasundari presented a paper “Secured Passive Video Integrity Verification” in International Journal of Advanced Research in Basic Engineering Sciences and Technology, 2456-5717, Volume.7, Issue.4, Pages. 25-34, Apr-21
- Ms.K.Vijaya presented a paper “Smart Intravenous Fluid Monitoring System” in Annals of R.S.C.B, 1583-6258, Volume. 25, Issue 5, Pp. 199-209, May-21

- Ms.K.Vijaya presented a paper “Multi-Level Privacy Authentication in Distributed M-Healthcare using Blockchain” in International Journal of Research and Advanced Development, 2581-4451, Volume 4, Issue 3, pp. 10-13, Aug-20
- Ms.C.Kotteswari presented a paper “A review on diabetic maculopathy detection methodology” in International Journal of Advanced Science and Engineering Research, 2455-9288, Volume: 06, Issue: 01, May 2021
- Ms.C.Kotteswari presented a paper “CAD Diagnosis using Classified Machine Learning Methods” in International Journal of Advanced Research in Basic Engineering Sciences and Technology, 2456-5717, Vol.ume7, Issue.4, April 2021.
- Mr.S.Vivekandhan presented a paper “Space time block coded structural inflection technique using MIMO” in International Journal of Advanced Science and Engineering Research, 2455-9288, Volume: 06, Issue: 01, May 2021
- Mr.S.Vivekandhan presented a paper “Implementation of cloud decoy file using sassy intrusion detection algorithm” in International Journal of Advanced Research in Computer & Communication Engineering, 2319-5940, Vol. 10, Issue 4, April 2021.
- Mr.S.Vivekandhan presented a paper “A block chain-based access control framework for big data” in International Journal of Advanced Research in Computer and Communication Engineering, 2319-5940, Vol. 10, Issue 4, April 2021.
- Ms.K.Mohanapriya presented a paper “Smart ration card system” in Journal of Huazhong University of Science and Technology, 1671-4512, Vol 50, Issue 4, Apr-21
- Ms.K.Mohanapriya presented a paper “IoT Based Smart Shopping Cart” in International Journal of Advanced Research in Basic Engineering Sciences and Technology, 2456-5717, Vol.7, Issue.4, Apr-21

- Ms.D. Lavanya presented a paper “A medical data privacy protection schema based on blockchain” in International Journal of Advanced Science and Engineering Research, 2455-9288, Vol 6, Issue 1, May 2021
- Ms.D. Lavanya presented a paper “Secure bank transactions using rsa” in International Journal of Advanced Science and Engineering Research, 2455-9288, Vol 6, Issue 1, May 2021
- Ms.D. Lavanya presented a paper “A study on Covid-19 future forecasting using classification and regression techniques” in International Journal of Advanced Science and Engineering Research, 2455-9288, Vol 6, Issue 1, May 2021
- Mr.P.Sukumar presented a paper “An Efficient Security Model for Privacy Enhanced Distributed Datamining Using Cloud Fedaration Approach” in International Journal of Advanced Research in Basic Engineering Sciences and Technology (IJARBEST), 2456-5717, Vol.7, Issue.4, Apr-21
- Ms.S.Subathra presented a paper “Discovery of fooling attacks in wlan-baesd locating systems using wifi hotspot tags” in International Journal of Advanced Science and Engineering Research, 2455-9288, Vol 6, Issue 1, May 2021
- Ms.P. Kiruthiga, Ms.D.Nithya presented a paper “Contemporary PCA and NBA based Hybrid Cloud Intrusion Detection System” in EAI Endorsed Transactions on Energy Web, doi: 10.4108/eai.19-2-2021.168727,, Feb-21
- Ms.D.Nithya presented a paper “Intelligence Car Parking System Using Internet Of Things” in International Journal of Advanced Research in Computer and Communication Engineering, 2278-1021, Vol 10, Issue 3, Mar-21
- Ms.S.Vishnupriya, Ms.S.Ponni presented a paper “Enhanced Crow Search Algorithm for Task Scheduling in Cloud Computing” in IOP Conference Series: Materials Science and Engineering, doi: 10.1088/1757-899X/1055/1/012102, , Aug-21

- Ms.S.Vishnupriya presented a paper “Weather forecasting using cumulative sum average mapreduce algorithm” in International Journal of Advanced Research in Management, Architecture, Technology and Engineering, 2454-9762, Vol 7, Issue 4, Apr-21
- Ms.S.Vishnupriya presented a paper “Lung cancer prediction system using data mining” in International Journal of Advanced Science and Engineering Research, 2455-9288, Vol 6, Issue 1, May-21
- Ms.S.Nithya presented a paper “Secured data sharing inference analysis under green communication” in International Journal of Advanced Research in Basic Engineering Sciences and Technology, 2456-5717, Vol.7, Issue 4, Apr-21
- Ms.S.Ponni presented a paper “Trusted Cloud based Storage and Retrieval Process using Symmetric Searchable Encryption” in International Journal of Engineering Research & Technology, 2278-0181, Vol 8, Issue 12, pp.30 - 34., Jul-21
- Ms.S.Ponni presented a paper “Two Level QRFIE Code for Private Message Sharing” in International Journal of Innovative Research in Science, Engineering and Technology, 2319-8753, Volume 10, Issue 5, May 2021

PATENT

- Ms.K.Vijaya has filed and published a patent (Application Number:202041040688) on the title “Management of Temple Collection Box using Sensors and Cloud Data Storage”
- Dr.S.Sadesh&Dr.S.Gokulraj Published a patent (Application Number:202041036326) in ‘Methane Gas Measuring device in food waste using raspberry-pi,MQ-4 Sensor’.
- Dr.S.Sadesh&Dr.S.Gokulraj Published a patent (Application Number:202041026105) in ‘A Low-Cost 4G Smart Phone Detector and Jammer System GSM - 900 MHZ and 1800 MHZ for using Matlab Simulink’.

- Dr.S.Jabeen Begum has filed and granted a patent(Application Number: 2020103027) on the title “Staggered Short Transmission (SST) protocol for routing during energy saving through WSN”.
- Ms.K.Vijaya has filed and published a patent((Application Number: 2020102441) on the title “Secure communication among IoT Devices through IoT Coin Operation System”
- Dr.V.Latha Jothi, Dr.S.Kayalvili, Ms.D.Lavanya and Ms.S.Subathra published a patent (Application No.202041055413) in ‘CLOUD COMPUTING BASED E-LEARNING PLATFORM’.
- Ms.C. C.Kotteeswari, Ms.M.MohanaSundari, Ms.S.Vivekanandan, Ms.K.MohanaPriya published a patent (Application No. 202141003350) on the title “Hybrid phase change material embedded over glove for better comfort with AI assistance”.
- Ms.S.Vishnupriya, Ms.S.Nithya and Ms.S.Ponni filed and published a patent (ApplicationNumber: 202041057559) on the title “Recommendation of Doctors Based on the Ratings and Tracking Status of Doctors Availability to Handle the Pandemic Situations.
- Dr.S.DeviSuganya published a patent (Application number:202041054268 A) in ‘Virtual Labs using Cloud Computing’.

COPYRIGHT

- Ms.K.Vijaya has received a copyright for “ARCOR:Authenticated Redundancy Checking Opportunistic Routing Protocol for Wireless Sensor Networks” (4489/2020-CO/L)
- Dr.S.Gokulraj has received a copyright for “Multi Objective Firefly and Raindrop Optimization for Cloud Service Provisioning” (4355/2020-CO/L)
- Dr.S.Jabeen Begum, Ms.K.Vijaya has received a copyright for “QR based vehicle tracking APP” (3967/2020-CO/SW)
- Dr.S.Sadeesh has received a copyright for “Automatic clustering based updation of user behavioral profiles for personalized search result on web” (4106/2020-CO/L)

BOOK PUBLICATIONS

- Dr. S.Sadesh, published a book titled 'Knowledge Management' published by Charulatha Publishers, Chennai, ISBN: 978-81-933409-7-4
- Dr. S.Sadesh, published a book titled 'Information Retrieval Techniques' published by Charulatha Publishers, Chennai, ISBN: 978-93-86532-08-4
- Ms. K.Vijaya, published a book titled 'Cyber Forensics' published by Charulatha Publishers, Chennai, ISBN: 978-93-90967-11-7
- Ms.M.Mohanasundari and Ms.K.Mohanapriya, published a book titled 'Service oriented Architecture' published by Lakshmi Publication, Chennai, ISBN: 978-93-87950-55-9
- Dr.V.LathaJothi and Ms.Sangeethaa Gunganathan, published a book titled 'Human Computer Interaction' published by Suchitra Publications, Chennai, ISBN: 978-93-87670-15-0

AWARD OF PHD

- Ms.S. Kayalvili has completed her Doctoral Degree from Anna University, Chennai, on 7.09.2020. Her research title is 'Improving Quality of Service for Resource Allocation in Double Auction Mechanism using Modified Heuristic Techniques'. She has published 4 research papers in National and International Journals.



Student Art Column

GAMING WITH JAVA CODE

```
Import java.util.Scanner;  
import java.util.Random;  
public class Player {
```

```
public static void main(String[] args) { Scanner sc  
= new Scanner(System.in);  
// 0 for stone 1 for paper 2 for scissor  
System.out.println("0 for stone, 1 for paper, 2 for  
scissor"); int player = sc.nextInt();  
Random random = new Random();  
int computerinput = random.nextInt(3);  
if (player == computerinput)  
{  
System.out.println("-->Draw");  
}  
else if (player == 0 && computerinput == 2 || player  
== 1 && computerinput == 0  
|| player == 2 && computerinput == 1)  
{  
System.out.println("-->You won");  
}  
else {  
System.out.println("-->computer win");  
}  
if (computerinput == 0)  
{  
System.out.println("Computer=Stone");  
}  
else if (computerinput == 1)  
{  
System.out.println("Computer=paper");  
}  
else if (computerinput == 2)  
{  
System.out.println("Computer=scissor");  
}  
}  
}
```

OUTPUT:

0 FOR STONE, 1 FOR PAPER, 2 FOR SCISSOR
ARULESH P P 19CSR014

Which number replaces the question mark?

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

GOWTHAM S 17CSR032

If

9	8	7	7263127
6	5	4	302449
3	2	9	62731
8	7	6	564897

5	4	3	201531
2	9	8	181625
7	6	5	423571
4	3	2	?

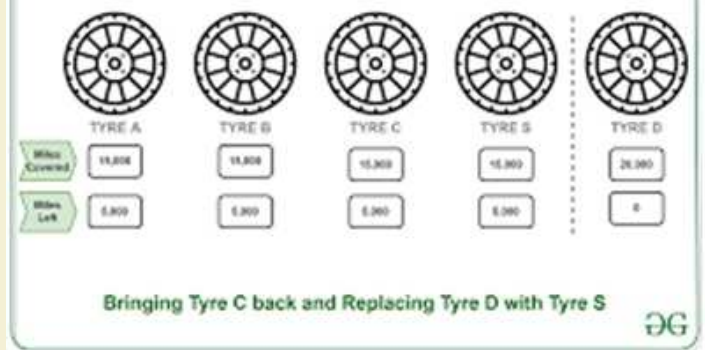
SWATHI G 18CSR102

Which letter replaces the question mark?

E	M	H
N	O	A
I	?	D

HARINI P 6CSR027

Distance travelled: 20,000 kms



SRIRAM J 18CSR099

MATH Crossword Puzzle

Fill in the blanks of each crossword puzzle to make the multiplication equations true.

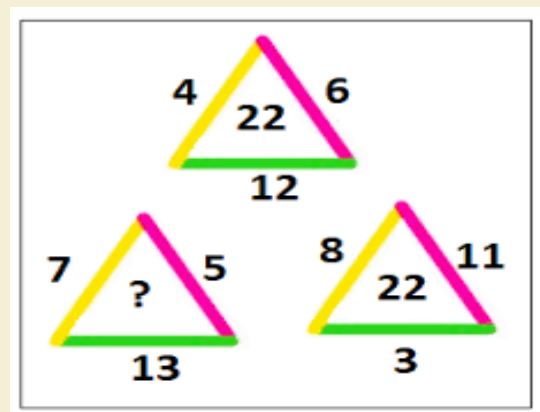
2	x		=	6
			x	
	x	1	=	
			=	
	x	24	=	

	x	7	=	
x			x	
11		5	x	
=			=	
22		42		

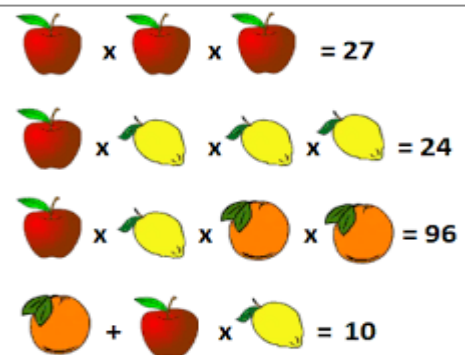
By – Harin R (17CSR035)

First Letter	Middle Letter	Last Letter
Z	1	A
X	2	D
V	6	G
T	21	J
R	88	M
P	445	P
?	?	?

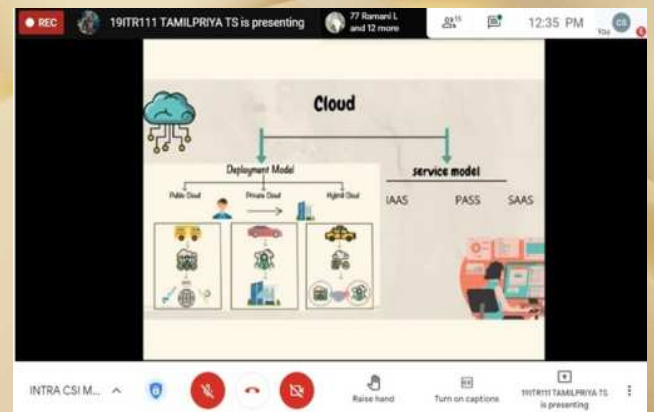
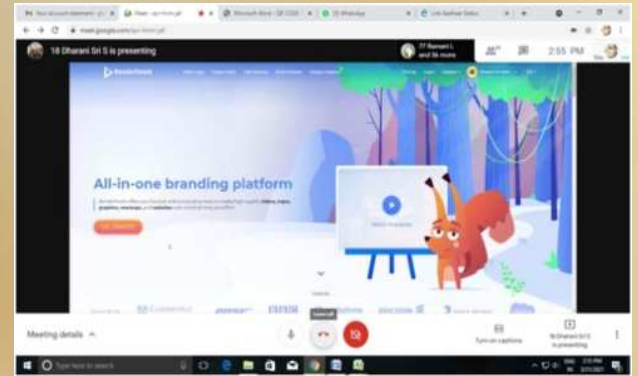
By – Kevin G (17CSR046)



By – Nivetha A (17CSR075)



By- Janani E – (17CSR038)



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VELALAR COLLEGE OF ENGINEERING AND TECHNOLOGY

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Accredited by NAAC with 'A' Grade