



## CSE

## NEWSLETTER

### COMPUTER SCIENCE ENGINEERING



### VISION

CREATING ETHICAL LEADERS  
THROUGH QUALITY

PROFESSIONAL EDUCATION WITH EMPHASIS ON  
HOLISTIC EXCELLENCE

### MISSION

- TO EMERGE AS AN INSTITUTION PAR EXCELLENCE OF GLOBAL STANDARDS BY IMPARTING QUALITY ENGINEERING AND OTHER PROFESSIONAL PROGRAMMES WITH STATE-OF- THE-ART FACILITIES.
- TO EQUIP THE STUDENTS WITH APPROPRIATE SKILLS FOR A MEANINGFUL CAREER IN THE GLOBAL SCENARIO.
- TO INCULCATE ETHICAL VALUES AMONG STUDENTS AND IGNITE THEIR PASSION FOR HOLISTIC EXCELLENCE THROUGH SOCIAL INITIATIVES.
- TO PARTICIPATE IN THE DEVELOPMENT OF SOCIETY THROUGH TECHNOLOGY INCUBATION, ENTREPRENEURSHIP AND INDUSTRY INTERACTION.

### CORE VALUES

FAITH IN GOD AND MAN

LOVE OF FELLOW BEINGS

BELIEF IN UNIVERSAL CITIZENSHIP

MORAL INTEGRITY

SOCIAL COMMITMENT.

### DEPARTMENT VISION

CREATING ETHICAL  
LEADERS IN THE DOMAIN OF COMPUTATIONAL  
SCIENCES THROUGH QUALITY PROFESSIONAL  
EDUCATION WITH A FOCUS ON HOLISTIC  
LEARNING AND EXCELLENCE



### DEPARTMENT MISSION

- TO CREATE TECHNICALLY COMPETENT AND ETHICALLY CONSCIOUS GRADUATES IN THE FIELD OF COMPUTER SCIENCE AND ENGINEERING BY ENCOURAGING HOLISTIC LEARNING AND EXCELLENCE.
- TO PREPARE STUDENTS FOR CAREERS IN INDUSTRY, ACADEMIA AND THE GOVERNMENT.
- TO INSTILL ENTREPRENEURIAL ORIENTATION AND RESEARCH MOTIVATION AMONG THE STUDENTS OF THE DEPARTMENT.
- TO EMERGE AS A LEADER IN EDUCATION IN THE REGION BY ENCOURAGING TEACHING, LEARNING, INDUSTRY AND SOCIETAL CONNECT.

### PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

1. THE GRADUATES SHALL HAVE SOUND KNOWLEDGE OF MATHEMATICS, SCIENCE, ENGINEERING AND MANAGEMENT TO BE ABLE TO OFFER PRACTICAL SOFTWARE AND HARDWARE SOLUTIONS FOR THE PROBLEMS OF INDUSTRY AND SOCIETY AT LARGE.
2. THE GRADUATES SHALL BE ABLE TO ESTABLISH THEMSELVES AS PRACTICING PROFESSIONALS, RESEARCHERS OR ENTREPRENEURS IN COMPUTER SCIENCE OR ALLIED AREAS AND SHALL ALSO BE ABLE TO PURSUE HIGHER EDUCATION IN REPUTED INSTITUTES.
3. THE GRADUATES SHALL BE ABLE TO COMMUNICATE EFFECTIVELY AND WORK IN MULTIDISCIPLINARY TEAMS WITH TEAM SPIRIT DEMONSTRATING VALUE DRIVEN AND ETHICAL LEADERSHIP.

### PROGRAMME OUTCOMES

STUDENTS IN THE PROGRAMME AT THE TIME OF THEIR GRADUATION ARE EXPECTED TO POSSESS THE FOLLOWING CAPABILITIES :

1. ABILITY TO APPLY THE KNOWLEDGE OF MATHEMATICS, SCIENCE, ENGINEERING FUNDAMENTALS, AND AN ENGINEERING SPECIALIZATION TO THE SOLUTION OF COMPLEX ENGINEERING PROBLEMS.
2. ABILITY TO IDENTIFY, FORMULATE, REVIEW RESEARCH LITERATURE, AND ANALYZE COMPLEX ENGINEERING PROBLEMS REACHING SUBSTANTIATED CONCLUSIONS USING FIRST PRINCIPLES OF MATHEMATICS, NATURAL SCIENCES, AND ENGINEERING SCIENCES.
3. ABILITY TO 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.
4. ABILITY TO 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.
5. ABILITY TO CREATE, SELECT, AND APPLY APPROPRIATE TECHNIQUES, RESOURCES, AND MODERN ENGINEERING AND IT TOOLS INCLUDING PREDICTION AND MODELING TO COMPLEX ENGINEERING ACTIVITIES WITH AN UNDERSTANDING OF THE LIMITATIONS.
6. ABILITY TO 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.
7. ABILITY TO UNDERSTAND THE IMPACT OF THE PROFESSIONAL ENGINEERING SOLUTIONS IN SOCIETAL AND ENVIRONMENTAL CONTEXTS, AND DEMONSTRATE THE KNOWLEDGE OF, AND NEED FOR SUSTAINABLE DEVELOPMENT.
8. ABILITY TO APPLY ETHICAL PRINCIPLES AND COMMIT TO PROFESSIONAL ETHICS AND RESPONSIBILITIES AND NORMS OF THE ENGINEERING PRACTICE.
9. ABILITY TO FUNCTION EFFECTIVELY AS AN INDIVIDUAL, AND AS A MEMBER OR LEADER IN DIVERSE TEAMS, AND IN MULTIDISCIPLINARY SETTINGS
10. ABILITY TO RECOGNIZE THE NEED FOR, AND HAVE THE PREPARATION AND ABILITY TO ENGAGE IN INDEPENDENT AND LIFE-LONG LEARNING IN THE BROADEST CONTEXT OF TECHNOLOGICAL CHANGE.



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11. ABILITY TO 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.
12. ABILITY TO RECOGNIZE THE NEED FOR, AND HAVE THE PREPARATION AND ABILITY TO ENGAGE IN INDEPENDENT AND LIFE-LONG LEARNING IN THE BROADEST CONTEXT OF TECHNOLOGICAL CHANGE.

## DEPARTMENT ACHIEVEMENTS

1. The department of Computer Science & Engineering in association with Computer Society Of India (CSI) conducted an online five day Faculty Development Programme on "AI and its Applications in Research" from December 27<sup>th</sup> to 31<sup>st</sup>, 2021.

## FACULTY ACHIEVEMENTS

1. Dr. Vinith R published a paper "JP-DAP: An Intelligent Data Analytics Platform for Metro Rail Transport Systems" in IEEE Transactions. Dr. Vinith R published a paper in Neural Computing and Applications for Kochi Metro-DST research project.



2. Dr. Saju P John led sessions as a speaker on the topic "Trust Based Approaches for Secure Mobile Edge Computing Environment" on 11/8/2021 at Sathyabama Institute of Science and Technology.



3. Dr. R vijayakumar joined as Professor in CSE Department.



4. Ms. Aswathy Wilson authorised a paper titled COVID-19 CASE PREDICTION USING DIFFERENT LSTM MODELS AND COMPARISON OF EFFECTIVENESS OF DIFFERENT MODELS submitted to the 4th International conference on Big data and cloud computing organized by the Dept. of CSE, Karunya Institute of Technology and Sciences during 20, 21st August 2021. Ms. Aswathy Wilson and her team has been selected to compete in the regional level techfest organized as part of TECHFEST-2021 of KSCSTE. Under her guidance, S-Box was selected for the project proposal in FOUNDATION FOR ADVANCEMENT OF EDUCATION AND RESEARCH (FAER) and the proposal is published in the technical compendium with a certificate. S-Box was selected for the Bronze prize. Prize consists of Rs. 10,000/- as cash award and certificate to the student team and the mentor. Under the guidance of Ms. Aswathy Wilson, "Deep Fake Detection using Machine Learning" was selected for the project proposal in FOUNDATION FOR ADVANCEMENT OF EDUCATION AND RESEARCH (FAER) and the proposal is published in the technical compendium with a certificate.



5. Dr. Swapna B Sasia authorised a paper titled COVID-19 CASES PREDICTION USING DIFFERENT LSTM MODELS AND COMPARISON OF EFFECTIVENESS OF DIFFERENT MODELS submitted to the 4th International conference on Big data and cloud computing organized by the Dept. of CSE, KARUNYA Institute of Technology and Sciences during 20, 21st August 2021



6. Mr. Anil Antony led sessions as a speaker on the topic "Innovations and Entrepreneurship" on 04/11/2021 at GVHSS Vattenad, Palakkad. Organized



by NSS unit, in the role of IEDC Nodal officer in Jyothi Engineering College.

7. Ms. Lufiya George C has successfully Completed three AICTE 12 week course of National Initiative for technical Teachers training from Online Swayam Platform. She presented research paper in international conference on Dec 16 in topic: A survey on Arrhythmia disease detection using Deep Learning methods.



8. Ms. Sobha Xavier p presented research paper in international conference on Dec 16 in topic: Pre and Post operative Brain Tumor segmentation and classification for Prolonged survival



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## UNIVERSITY RESULT TOPPERS

1. In S2 M.Tech University exams, toppers are Divya Stephen, Jeena, Neeraja .



2. From S8 B.Tech toppers are Niva Dileep , Amala K.S-, Nova Dileep.



3. From S6 B.tech toppers are Anugraha, Ann tereza Shaji, Annit Mary.



## STUDENTS ACHIEVEMENTS

1. Maneesh Manoj, Sangeetha C P , Sangeetha Prathapan, AvinJoseph, Bibin-Thomas, Binwin C Viju, Rashi M, Amala K S, AleenaShaji and Cecilia Joe of S8 CSE got placement in Infosys.



2. JOEL JAMES KARIKKANDATHIL has been selected as the new Lead of the Google Developer Students Club - Jyothi Engineering College Chapter(DSC Lead - JEC) for the tenure 2021 - 2022 by Google.



3. Vani Choyyan from S7 CSE- B have been awarded a GHC Student Scholarship to attend the 2021 Virtual Grace hopper celebration.



4. Ideas Elite Ideathon was an event conducted as a part of their fest UberTech 21 by SRM VDP. The event was conducted on Sep 22 , 2021. Event consisted of 2 rounds .Top 9 teams were selected from Round 1 to compete in the finals(i.e. Round 2). Amongst those 9 teams our team UnicornDev was given the Special Mention Prize in EdTech domain.

Team Members - Sidharth S Unnithan (Team Lead - S4 CSE B), Sidharth P (S4 CSE B), Deo Saju (S4 CSE A).





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## UNIVERSITY RESULT TOPPERS

5. "Deep Fake Detection using Machine Learning" was selected for the project proposal in FOUNDATION FOR ADVANCEMENT OF EDUCATION AND RESEARCH(FAER) in association with McAfee 2020-2021 under the guidance of Ms. Aswathy Wilson Ap, CSE Department were the finalists out of 30 teams nationwide. The proposal is published in the technical compendium with a certificate. Group members are Karthik P C, Adithya Vijayan, Sanjana S, Thushara P .



6. S-Box was selected for the project proposal in FOUNDATION FOR ADVANCEMENT OF EDUCATION AND RESEARCH(FAER) in association with McAfee 2020-2021 under the guidance of Ms. Aswathy Wilson Ap, CSE Department were the finalists out of 30 teams nationwide. The proposal is published in the technical compendium with a certificate.

(Raphel K Moyalan, Shelmy Babu, Tiya Thomas, Tomson Pavoo P)



7. Project entitled S-Box has been selected to compete in the regional level techfest organized as part of TECHFEST-2021 of KSCSTE. The students from S6 CSE- B Raphel K Moyalan, Shelmy Babu, Tiya Thomas, Tomson Pavoo P were guided by Aswathy Wilson.



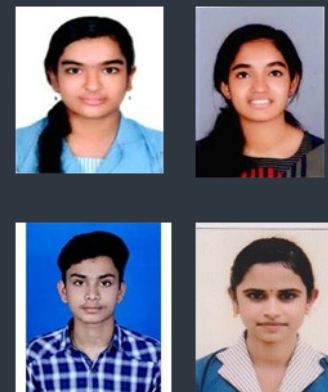
8. Our students Shafna, Amal Sebastian, Adithya Haridas, JeswinJojoy of S7 CSE got placed in QUEST.



9. Team UnicornDev was given the Special Mention in EdTech domain as a part of Ideas Elite - Ideathon #Ubertech '21 at SRM, VDP.



4. From S3 B.tech toppers are Aiswarya K, Ausni Elizebath, Sai Hari, Shelna George.



5. From S1 B.tech toppers are Dhinoo, Praveen kumar, Sruthi P.A.



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10. Team UnicornDev won the 1st Runner-Up in the T-Hacks 4.0 HACKathon conducted as a part of Technorax v7.0. Students are Sidharth S. Unnithan, Sidharth P, Amal Shibu, Deo Saju.



11. Under the guidance of Ms. Aswathy Wilson, S-Box was selected for the Bronze prize. Prize consists of Rs- 10000/- as cash award and certificate to the student team and the mentor.



12. Vani from S7 CSE completed NPTEL online course in Introduction to Internet of Things.



13. Our student of S3 M. Tech Divya placed at TCS



14. Marlabs placed students from S7 CSE - Amal Sebastian, Harsha, Shafna, Edwin T Joy.



15. Our students of S7 CSE Kevinvarghese, Kailasanath, K Ajishkumar, Nithin Madhu, Jeswin, Srelakshmi, Tiya, Shiza, Shafna, Midhun, Amal Sebastian, Anugraha, Alen Varghese, Alan George, Gokul Das, Adarsh, Delicia, Adithya Haridas, Ann theresa got placed in TCS.



16. Our students of S7 CSE Amal Sebastian, ashrul, jissy, jumana, kevin, rachael, rockson, sarath, shafna, shiza, tiya, gayathri got placed in IBS.





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17. Adithya krishna, amalsebastian, anitmary, annthereza, edwin t joy, ramgopal, jumana, ajishkumar, kevin, nitin, rachael, rockson, shafna, shiza got placed in WIPRO.



18. Harsha K S From S7 CSE got placed in Technologies Global Pvt. Ltd., Bangalore.



19. Our students from S7 CSE Akhil Azeez, Aravindh S, Harsha ,Jissy, Sourav, Vaishnav got placed in Poornam Info Vision



20. Our students from S7 CSE Akhil Azeez, Aravindh S, Harsha ,Jissy, Sourav, Vaishnav got placed in Poornam Info Vision

21. Our students from S7 CSE amalsebastian, edwin t joy, jissy, vani prakashan, adarshkumar, Ajishkumar, anitmary, athira k p, harsha k s, jeswinjojoy, kailasanath, midhun, sarathsasi, shafna, sijo george, sreehari, vaishnav are placed in Cognizant.

