

NEWS LETTER



K.S.R COLLEGE OF
ENGINEERING
(Autonomous)

*Department of
Computer Science and Engineering*

TECH EXPLORER
ACADEMIC YEAR-2022-2023

ODD SEMESTER

NEWS LETTER 2022, VOLUME 22, ISSUE NO. 1
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K. S. R. College of Engineering – Tiruchengode **Autonomous Institution**

NEWS LETTER

Vision of Institution

We envision to achieve status as an excellent educational institution in the global knowledge hub, making self-learners, experts, ethical and responsible engineers, technologies, scientists, managers, administrators, and entrepreneurs who will significantly contribute to research and environment-friendly sustainable growth of the nation and the world.

Mission of Institution

To inculcate in the students' self-learning abilities that enable them to become competitive and considerate engineers, technologists, scientists, managers, entrepreneurs, and administrators by diligently imparting the best of education, nurturing environmental and social needs.

To foster and maintain a mutually beneficial partnership with global industries and Institutions through knowledge sharing, collaborative research, and innovation.

Vision of Department

To empower students to be ethical cyber security professionals, entrepreneurs and pioneers in safeguarding the digital world.

Mission of Department

Provide comprehensive and Industry-relevant critical thinking skills to tackle emerging cyber security challenges with highest standard of cyber security education.

Enhance industry-academia collaboration, facilitate knowledge transfer with cyber security best practices through state-of-art laboratory.

Foster a culture of research and innovation in cyber security cutting-edgetechnologies, develop novel solutions and contribute to the advancement of cyber security knowledge.

The Graduates of the programme will be able to:

PEO 1 : Rational Computing: Figure out, formulate, analyze typical problems and develop effective solutions by imparting the idea and principles of science, mathematics, engineering fundamentals and computing.

PEO 2 : Professional Excellence: Competent professionally and successful in their chosen career through life-long learning.

PEO 3 : Social and Ethical Technocrats: Excel individually or as member of a team in carrying out projects and exhibit social needs and follow professional ethics.

Programs Outcomes (POs):

Engineering graduates will be able to:

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

PO2: Problem Analysis: Identify, formulate, review research literature, and analyze 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.

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 life-long learning in the broadest context of technological change.:

Program Specific Outcomes (PSOs):

PSO1: Technical competency: Develop and Implement computer solutions that accomplish goals to the industry, government or research by exploring new technologies.

PSO2: Professional awareness: Grow intellectually and professionally in the chosen field.

Chairman Message



**Thiru R. Srinivasan BBM., MISTE.,
Chairman, KSR Educational Institutions**

The Technical colleges under Aarthi Educational & Charitable Trust are the product of a vision of a dream of excellence in affordable education. The chasm to synchronize the traditional value system and the contemporary ideas of engineering and technology is increasing at an alarming pace. There is a need to build bridge between two realms to ensure progress of multitude of people in the society. The Trust has an everlasting commitment for developing professional with humane and pragmatic approach to bring change in the society.

We at K.S.R. College of Engineering stand for promoting academic excellence and rigorous discipline with sound practical exposure amongst the student community. Make yourself competent for the globalised world through tireless striving by staying focused like a rocklan angry ocean for hard work, as miles are to be covered before we all go to sleep.

With best wishes

**Thiru R. Srinivasan
Chairman,
KSR Educational Institutions**

Principal Message



Dr. P. SENTHILKUMAR, M.E., Ph.D.,

Principal, KSRCE

It is with immense pride and joy that I present to you the latest edition of our CSE Department magazine a vibrant reflection of the creativity, talent, and achievements of our students and staff.

Over the past one decade, KSRCE has served the young engineering aspirants of our nation by providing state-of-art facilities and well knowledgeable faculty members.

The Institute has held high the lighted torch of teaching and learning and has not failed in its duty in the hour of need. The students imbibe qualities of an excellent teacher and researcher to set academic standards. The last couple of years marked several milestones in the history of KSRCE.

Technology is constantly evolving, and staying up to date with the latest trends can help us stay competitive in the job market, give you access to new features and capabilities.

I congratulate the editorial team, contributors, and all those who have worked tirelessly to bring this edition to life. Let this magazine serve not only as a record of our accomplishments but also as an inspiration for the journeys yet to come.

With best wishes

Dr.P.SENTHILKUMAR

Principal

HOD Message



Dr. A. Rajiv Kannan M.E., Ph.D

Professor & Head

Department of Computer Science And Engineering

The HOD of CSE take great honor in congratulating the students who have contributed for the current year's News Letter. I really hope that this would be as useful as the last editions. Acknowledging the fact that the News letter is completely created and designed by the students I really hope this would kindle a spark in the minds of the students who are yet to contribute towards the progress of the News Letter Initiative in the upcoming years. All the best students!

With best wishes

Dr. A. Rajiv Kannan

Professor & Head CSE

EDITORIAL BOARD

Dr.V.Sharmila

Dr.E.Baby Anitha

Mr.V.Ramesh

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STUDENTS

Balamaheshwari S

Barathraj M

Aarkesh M

Soundarya S

Odd (2023- 2024)

Publication in Conference by Faculty:

1.Chandrasekar Venkatachalam, Manivannan K, Shanmugavalli Venkatachalam presented a titled Securing Data in the Cloud: The Application of Fuzzy Identity Biometric Encryption for Enhance Privacy and Authentication held at Suan Dusit University, Bangkok, Thailand and Pulchowk Campus, Institute of Engineering , Tribhuvan University, Nepal on 10 th and 11 th August.

Publication in Journals by Faculty:

1. Dr. A. Rajivkannan & S.Savitha on ‘A novel technique based on mutual information weighted feature selection to predict chronic kidney disease’, Journal of Intelligent Fuzzy Systems, volume –45.PageNo:491–504,2July 2023.
2. E. Baby Anitha Tenaw Tilahun Asmamaw M. Javed Idrisi ‘The Predictions of Noncollinear Equilibria Positions in ER3BP with Yukawa-Like Corrections’, Advances in Astronomy, Volume No – 2023,Page No – 1 to 6, 25 th July 2023.

Publication in Book/Manual by Faculty:

1. Dr C Anand, Dr E Baby Anitha , Mr.V Ramesh , Mr. P.Palanisamy published a book titled ‘Foundations of Data Science’ with Charulatha Publications, Chennai. In June 2023, The ISBN No - 978-93-5577-540-5
2. Mrs.K.Sudha, Mr.M.Azhagesan published a book titled ‘Distributed Computing’ with Charulatha Publications, Chennai. In July 2023, The ISBN No - 978-93-5577-572-6
3. Dr. A. Rajiv Kannan, Dr. V. Sharmila, Dr. V. Vennila published a book titled ‘Machine Learning Techniques’ with Charulatha Publications, Chennai. In July 2023, The ISBN No - 978-93-5577-538-2
4. Mrs. S. Savitha, K.A. Karthick, T. Divya published a book titled ‘Networks and Security’ with Charulatha Publications, Chennai. In September 2023, The ISBN No - 978-93-5577-711-9
5. Dr.V.Chadrasekar, V.Shanmugavalli published a book titled ‘Database Management Systems’ with Charulatha Publications, Chennai. In March 2023, The ISBN No - 978-93-6260-951-9. 6. K. Kumaresan, K. Logeswaran, E. Madhorubagan published a book titled ‘Artificial Intelligence’ with Charulatha Publications, Chennai. In November 2023, The ISBN No -978-93- 5577-625-9

Faculty Contributions(Faculty Achievements & Awards):

1. Dr. V. Sharmila , Associate Professor / Head of the Computer Science and Engineering Department received a *Excellence Award* from Indian Achievers Forum On October 10,2023.



Programme Conducted by the Department

(Seminar/Webminar/Guestlecturer/Conference/FDP:

1. A Seminar titled Impacts on AR,VR,MR & amp;XR, An Awareness on Animation Industry was conducted for our students on August 17,2023.Ms.AyishaSithika, Arena Animation, Erode, graced the event as chief guest.



2. A Seminar titled Cyber Security Awareness was conducted for our students on August 21,2023. Mr. Nirmalkumar B.Tech., M.S.,Dublin,Ireland., graced the event as chief guest.



3. A Seminar titled Professional Webdesign using Python was conducted for our students on August 23,2023. Mr. M.Gowtham B.E.,IT Trainer – Technical,CADD Centre,Erode. graced the event as chief guest.

4. A Seminar titled Recent Trends in IOT was conducted for our students on September of 23,2023. Mr. V. Karuppuchamy , Assistant Professor/CSE, PSNA College Engineering, Dindugul. graced the event as chief guest.



5. A Seminar titled Java Essentials was conducted for our students on September 26,2023. S. Sangavi, B.E(CSE), Software Developer, Erode. graced the event as chief guest.

6. A FDP titled Future Trends in AI: What to Expect in the Next Decade was conducted for our students from August 7-August 12, 2023.Dr. Kiruba Karuppanan Data Scientist ELPIS IT Solutions Pvt Ltd.,Bangalore. Dr. P. Srinivasan Associate Professor School of Information Technology, Dr.N.Magesh, Assistant,Professor(SR), Dept. Of CSE, IRTT,VIT, Vellore,

Dr.R.Venkatesan,AssociateProfessorSchoolof ComputingSastraDeemedUniversityTrichy-Tanjore.Dr. S. Radha, Associate professor and Head,

Vivekanandha College of Engineering for Women(Autonomous), Tirumalaisamudram , graced the event as chief guest.

9. K.Kumaresan Assistant Professor of Computer Science and Engineering department, was participated in 6 days online on Current trends in engineering and technology conducted by Sree Sakthi Engineering College, Coimbatore from July 3,2023 to July 8,2023.

10. K.Kumaresan Assistant Professor of Computer Science and Engineering department, was participated in 15 days online on Deep Learning for NLP and Computer Vision conducted by Chaitanya Bharathi Institute of Technology (CBIT) in Collaboration with ExcelR from July 10,2023 to July 27,2023.

11. S.Ajithkumar Assistant Professor of Computer Science and Engineering department, was participated in 15 days online on Deep Learning for NLP and Computer Vision conducted by Chaitanya Bharathi Institute of Technology (CBIT) in Collaboration with ExcelR from July 10,2023 to July 27,2023.

12. M.Jayanthi Assistant Professor of Computer Science and Engineering department, was participated in 15 days online on Deep Learning for NLP and Computer Vision conducted by Chaitanya Bharathi Institute of Technology (CBIT) in Collaboration with ExcelR from July 10,2023 to July 27,2023.

13. R.Arulkumar Assistant Professor of Computer Science and Engineering department, was participated in 6 days online on Current trends in engineering and technology conducted by Sree Sakthi Engineering College, Coimbatore from July 3,2023 to July 8,2023.

14. M.Azhagesan Assistant Professor of Computer Science and Engineering department, was participated in 6 days online on Current trends in engineering and technology conducted by Sree Sakthi Engineering College, Coimbatore from July 3,2023 to July 8,2023.

15. M.Azhagesan Assistant Professor Computer Science and Engineering department, was participated in 15 days online on Deep Learning for NLP and Computer Vision conducted by Chaitanya Bharathi Institute of Technology (CBIT) in Collaboration with ExcelR from July 10,2023 to July 27,2023.

16. C.Anand Assistant Professor of Computer Science and Engineering department, was participated in 6 days online on Current trends in engineering and technology conducted by Sree Sakthi Engineering College, Coimbatore from July 3,2023 to July 8,2023.

17. R.Arulkumar

17. Assistant Professor of Computer Science and Engineering department, was participated in 5 days online on Emerging Trends in Machine Learning"conducted by Vardhaman College of Engineering, Hyderabad from July 17,2023 to July 21,2023.

7. A Seminar titled My Story – Session by Successful Entrepreneur / Start up Founder was conducted for our students on October 17,2023. Mr. S. Dinesh,CEO and Musheerabad, Hyderabad graced the event as chief guest.



Program Attended by Faculty:

8. Dr. V. Sharmila Associate Professor / Head of the Computer Science and Engineering department, was participated in 21 days online on Data Science Tools conducted by SRM Institute of Science and Technology from July 12,2023 to August 1,2023.

18. M.Azhagesan Assistant Professor of Computer Science and Engineering department, was participated in 5 days online on Emerging Trends in Machine Learning"conducted by Vardhaman College of Engineering, Hyderabad from July 17,2023 to July 21,2023.
19. Dr.V.Vennilla Associate Professor of Computer Science and Engineering department, was participated in 6 days online on Current trends in engineering and technology conducted by Sree Sakthi Engineering College, Coimbatore from July 3,2023 to July 8,2023.
20. Dr. V. Vennilla Associate Professor of Computer Science and Engineering department, was participated in 21 days online on Data Science Tools conducted by SRM Institute of Science and Technology from July 12,2023 to August 1,2023.
21. Dr. E. Baby Anitha Assistant Professor of Computer Science and Engineering department, was participated in 15 days online on Deep Learning for NLP and Computer Vision conducted by Chaitanya Bharathi Institute of Technology (CBIT) in Collaboration with ExcelR from July 10,2023 to July 27,2023.
22. Dr. S. Savitha Assistant Professor of Computer Science and Engineering department, was participated in 5 days online on Emerging Trends in Machine Learning"conducted by Vardhaman College of Engineering, Hyderabad from July 17,2023 to July 21,2023.
23. Dr. K. Venkatesh Guru Assistant Professor of Computer Science and Engineering department, was participated in 15 days online on Deep Learning for NLP and Computer Vision conducted by Chaitanya Bharathi Institute of Technology (CBIT) in Collaboration with ExcelR from July 10,2023 to July 27,2023.
24. Dr. S. Savitha Assistant Professor of Computer Science and Engineering department, was participated in 5 days online on Full Stack Development conducted by Kamraj College of Engineering & Technology, Coimbatore.from July 11,2023 to July 15,2023.
25. Mr. M. Namashivayam Assistant Professor of Computer Science and Engineering department, was participated in 15 days online on Python and IOT conducted by EXCEL R Edutech (P) from August 7, 2023 to August 28, 2023.
26. P.Vasuki Assistant Professor of Computer Science and Engineering department, was participated in 15 days online on Python and IOT conducted by EXCEL R Edutech (P) from August 7,2023 to August 28,2023.

27. M.K. Nivodhini Assistant Professor of Computer Science and Engineering department, was participated in 15 days online on Python and IOT conducted by EXCEL R Edutech (P) from August 7,2023 to August 28,2023.
28. J. Nirmala Gandhi Assistant Professor of Computer Science and Engineering department, was participated in 5 days online on Salesforce Platform Developer conducted by ICTACT - Muthayammal Engineering College, Rasipuram from August 7,2023 to August 11,2023.
29. R.Arulkumar Assistant Professor of Computer Science and Engineering department, was participated in 6 days online on Emerging Trends in Computer Science and Technology conducted by SRM Institute of Science and Technology from September 25,2023 to September 30,2023.
30. Dr. E. Baby Anitha Assistant Professor of Computer Science and Engineering department, was participated in 24 days online on training program on Fundamentals of Full Stack Development Computer Vision conducted by EXCEL R Edutech (P) Ltd from September 20,2023 to October 13,2023.
31. Dr. E. Baby Anitha Assistant Professor of Computer Science and Engineering department, was participated in 20 days online on training program on FDP on Cyber security conducted by Chaitanya Bharathi Institute of Technology (CBIT) in Collaboration with ExcelR Edtech Pvt. Ltd. from September 25,2023 to October 14,2023.
32. C.Anand Assistant Professor of Computer Science and Engineering department, was participated in 6 days offline on ATAL - Cognitive Intelligence in Data Science conducted by Muthayammal Engineering College from November 20, 2023 to November 25, 2023.
33. P.Palanisamy Assistant Professor of Computer Science and Engineering department, was participated in 6 days offline on ATAL - Cognitive Intelligence in Data Science conducted by Muthayammal Engineering College from November 20,2023 to November 25,2023.
34. M.Azhagesan Assistant Professor of Computer Science and Engineering department, was participated in 6 days offline on ATAL - Cognitive Intelligence in Data Science conducted by Muthayammal Engineering College from November 20,2023 to November 25,2023.
35. R.Arulkumar Assistant Professor of Computer Science and Engineering department, was participated in 6 days online on ATAL - Crafting and Advancing Electronic Product