

**NEWS LETTER**



**K.S.R** COLLEGE OF  
ENGINEERING

**(Autonomous)**

*Department of  
Computer Science and Engineering*

**TECH EXPLORER**

**ACADEMIC YEAR-2022-2023**

**EVEN SEMESTER**

**NEWS LETTER 2023, VOLUME 23, ISSUE NO.2  
JAN-JUNE 2023**

# K. S. R. College of Engineering – Tiruchengode

Autonomous Institution

## NEWS LETTER

### **Vision, Mission of Institution**

#### **Vision:**

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:**

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, Mission of Department**

#### **Vision:**

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

#### **Mission:**

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.

## DEPARTMENT VISION & MISSION:

### Vision 01

**DV:** To create ever green professionals for software industry, academicians for knowledge cultivation and researchers for contemporary society modernization.

### Mission 02

**DM1:** To produce proficient design, code and system engineers for software development

**DM2:** To keep updated contemporary technology and fore coming challenges for welfare of the society.

### 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 :** career through life-long learning. Competent professionally and successful in their chosen

**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:** engage in independent change.: Recognize the need for, and have the preparation and ability to 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 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**

**Ms.R.Keerthana**

## **STUDENTS**

**A.ranjith Kumar**

**R.Sakthivel**

**M.Jana**

**S.Sanjana**

### **ision 01**

To create ever green professionals for software industry, academicians for knowledge cultivation and researchers for contemporary society modernization.

### **Mission 02**

To produce proficient design, code and system engineers for software development

### **1. Achievements**

#### **2. Staff Contributions(Staff Achievements & Awards):**

Dr. V. Sharmila , Associate Professor of the Computer Science and Engineering Department received a Academic Excellence Award from Technical Research Publications On July, 2022.

#### **3. Programme Conducted by the Department**

##### **(Seminar/Webinar/Guest lecturer/Conference/FDP):**

A Seminar titled Cloud Computing and its Applications in AWS, was conducted for our students on 14 September, 2022.

A Seminar titled How to do On-premise Networking was conducted for our students on 20 September, 2022. A Seminar titled Latest Technology Stack in Industries, was conducted for our students on 29 September, 2022.

A Guest lecturer given by Mrs.J.Nirmala Gandhi in the topic Python Programming at Bharathidasan University(K.S.R. College of Engineering) on 21 July 2022.

A Guest lecturer given by Ms .R. Keerthana in the topic Trending Modules along with Files and Exception Handling in Python at Vivekanandha College of Engineering for Womens on 2 July 2022.

##### **Program Attended by Staff:**

Dr. V. Sharmila , Associate Professor of the Computer Science and Engineering department,was participated in 5 days online workshop on Designing and Modeling of IoT,AI and ML systems conducted by AICTE,ATAL Academy,ARM Education STMicroelectronics from August 1,2022 to August 5,2022.

M.Azhagesan , Assistant Professor of Computer Science and Engineering department, was participated in 5 days online workshop on Designing and Modeling of IoT,AI and ML systems conducted by AICTE,ATAL Academy,ARM Education STMicroelectronics from August 1,2022 to August 5,2022.

M.Namashivayam , Assistant Professor of Computer Science and Engineering department, was participated in 10 days online International FDP on Computer Vision and Natural Language Processing conducted by Eswari Engineering College from August 8,2022 to August 18,2022.

M.Namashivayam , Assistant Professor of Computer Science and Engineering department, was participated in 3 days online FDP on Foundations of Data Science conducted by St Joseph Institute of Technology, Chennai from August 4,2022 to August 6,2022.

M.Namashivayam , Assistant Professor of Computer Science and Engineering department, was participated in 1 day online FDP on Science Festival (Vigyan Utsav) - Intellectual Property Rights conducted by Tamilnadu State Council for Science and Technology, on August 4,2022.

P.Vasuki, Assistant Professor of Computer Science and Engineering department, was participated in 10 days online International FDP on Computer Vision and Natural Language Processing conducted by Eswari Engineering College from August 8,2022 to August 18,2022.

M.K. Nivodhini , Assistant Professor of Computer Science and Engineering department, was participated in 10 days online International FDP on Computer Vision and Natural Language Processing conducted by Eswari Engineering College from August 8,2022 to August 18,2022.

M.Azhagesan , Assistant Professor of Computer Science and Engineering department, was participated in 10 days online International FDP on Computer Vision and Natural Language Processing conducted by Eswari Engineering College from August 8,2022 to August 18,2022.

C.Anand , Assistant Professor of Computer Science and Engineering department, was participated in 10 days online International FDP on Computer Vision and Natural Language Processing conducted by Eswari Engineering College from August 8,2022 to August 18,2022.

K.Kumaresan , Assistant Professor of Computer Science and Engineering department, was participated in 10 days online International FDP on Computer Vision and Natural Language Processing conducted by Eswari Engineering College from August 8,2022 to August 18,2022.

P.Palanisamy , Assistant Professor of Computer Science and Engineering department, was participated in 10 days online International FDP on Computer Vision and Natural Language Processing conducted by Eswari Engineering College from August 8,2022 to August 18,2022.

P.Palanisamy , Assistant Professor of Computer Science and Engineering department, was participated in 5 days online workshop on Designing and Modeling of IoT,AI and ML systems conducted by AICTE,ATAL Academy,ARM Education STMicroelectronics from August 1,2022 to August 5,2022.

R.Arulkumar , Assistant Professor of Computer Science and Engineering department, was participated in 10 days online International FDP on Computer Vision and Natural Language Processing conducted by Eswari Engineering College from August 8,2022 to August 18,2022.

R.Arulkumar , Assistant Professor of Computer Science and Engineering department, was participated in 3 days online FDP on Foundations of Data Science conducted by St Joseph Institute of Technology, Chennai from August 4,2022 to August 6,2022

S. Vadivel , Assistant Professor of Computer Science and Engineering department, was participated in 3 days workshop on “FinFET, Nano-Sheet cell design , Now & Road Ahead” ; An educational perspective conducted by NI Logic, Pune from 14 September to 16 September 2022.

S. Vadivel , Assistant Professor of Computer Science and Engineering department, was participated in 2 days workshop on “Deep Visual Data Analytics and Futuristic Research Directions” conducted by SRM Insitutie of Science and Technology from 1 September to 2 September 2022.

Dr. K. Venkatesh Guru , Assistant Professor of Computer Science and Engineering department, was participated in 6 days FDP on “Amzon Webseries” conducted by Nehru Institute of Technology from August 22,2022 to August 27,2022.

J. Nirmla Gandhi , Assistant Professor of Computer Science and Engineering department, was participated in 6 days FDP on “Amzon Webseries” conducted by Nehru Institute of Technology from August 22,2022 to August 27,2022.

R.Keerthana , Assistant Professor of Computer Science and Engineering department, was participated in 5 days FDP on “Advanced Tools and Techniques for Best Research” conducted by RV Institute of Technology and Management from 26 September to 30 September ,2022.

S. Ajithkumar , Assistant Professor of Computer Science and Engineering department, was participated in 30 days Workshop on “Digital Marketting Professional” conducted by V-Guru Institute of Information Management from 6 July to 6 August , 2022.

N.S Nithya , Assistant Professor of Computer Science and Engineering department, was participated in 2 days workshop on “Deep Visual Data Analytics and Futuristic Research Directions” conducted by SRM Insitutie of Science and Technology from 1 September to 2 September 2022.

Dr. V. Vennilla , Professor of Computer Science and Engineering department, was participated in 5 days FDP on “Advanced Tools and Techniques for Best Research” conducted by RV Institute of Technology and Management from 26 September to 30 September ,2022.

Dr. E. BabyAnitha , Assistant Professor of Computer Science and Engineering department, was participated in 5 days FDP on “Advanced Tools and Techniques for Best Research” conducted by RV Institute of Technology and Management from 26 September to 30 September ,2022.

P.Vasuki , Assistant Professor of Computer Science and Engineering department, was participated in 5 days FDP on “Advanced Tools and Techniques for Best Research” conducted by RV Institute of Technology and Management from 26 September to 30 September ,2022.

M.Jayanthi , Assistant Professor of Computer Science and Engineering department, was participated in 1 day Workshop on ‘Outcome Based Education-Recent Developments in Quality Assurance’ conducted by K.S.R. College of Engineering on 12 October 2022.

V.Shanmugavalli , Assistant Professor of Computer Science and Engineering department, was participated in 1 day Workshop on ‘Outcome Based Education-Recent Developments in Quality Assurance’ conducted by K.S.R. College of Engineering on 12 October 2022.

M. Azhagesan , Assistant Professor of Computer Science and Engineering department, was participated in 1 day Workshop on ‘Outcome Based Education-Recent Developments in Quality Assurance’ conducted by K.S.R. College of Engineering on 12 October 2022.

S.Ajithkumar , Assistant Professor of Computer Science and Engineering department, was participated in 1 day Workshop on ‘Outcome Based Education-Recent Developments in Quality Assurance’ conducted by K.S.R. College of Engineering on 12 October 2022.

R. Arulkumar , Assistant Professor of Computer Science and Engineering department, was participated in 1 day Workshop on ‘Outcome Based Education-Recent Developments in Quality Assurance’ conducted by K.S.R. College of Engineering on 12 October 2022.

K.S. Manojee , Assistant Professor of Computer Science and Engineering department, was participated in 1 day Workshop on ‘Outcome Based Education-Recent Developments in Quality Assurance’ conducted by K.S.R. College of Engineering on 12 October 2022.

M.Namashivayam , Assistant Professor of Computer Science and Engineering department, was participated in 1 day Online Course on ‘HTML 5 The Language’ conducted by Infosys Springboard on 1 October 2022.

C. Anandh , Assistant Professor of Computer Science and Engineering department, was participated in 2 days Seminar on “The Importance of Outcome Based Education ina Modern Educational Setup” conducted by Hindusthan Institute of Technology from 21 September to 22 September ,2022.

M. Jayanthi , Assistant Professor of Computer Science and Engineering department, was participated in 5 days FDP on “Recent trends in Artificial Intelligence and Machine learning” conducted by Siddartha Institute of Science and Technology from 26 September to 30 September ,2022.

S. Ajithkumar , Assistant Professor of Computer Science and Engineering department, was participated in 5 days FDP on “Recent trends in Artificial Intelligence and Machine learning” conducted by Siddartha Institute of Science and Technology from 26 September to 30 September ,2022.

M. Azhagesan , Assistant Professor of Computer Science and Engineering department, was participated in 5 days FDP on “Recent trends in Artificial Intelligence and Machine learning” conducted by Siddartha Institute of Science and Technology from 26 September to 30 September, 2022.

K. Kumaresan , Assistant Professor of Computer Science and Engineering department, was participated in 5 days FDP on “Recent trends in Artificial Intelligence and Machine learning” conducted by Siddartha Institute of Science and Technology from 26 September to 30 September,2022.

M. Azhagesan , Assistant Professor of Computer Science and Engineering department, was participated in 2 days Workshop on “Creating Employment Generation opportunities For Students” conducted by National Institute of Technical Teachers Training and Research Chandigarh from 6 September to 7 September ,2022.

M. Azhagesan , Assistant Professor of Computer Science and Engineering department, was participated in 1 day Workshop on “National IP Awareness Mission” conducted by Intellectual Property Office, India on 19 October 2022. Dr.

R.Banupriya , Assistant Professor of Computer Science and Engineering department, was participated in 5 days FDP on “Recent Trends In Web Application Development for Industry 4.0” conducted by GMR Institute of Technology from 18 October to 22 October ,2022.

R. Keerthana , Assistant Professor of Computer Science and Engineering department, was participated in 1 day Workshop conducted by Naan Muthalvan Faculty Training program, India on 26 October 2022.

### **Faculty Participation**

1. MANOJEE K.S participated in the The Art of Proposal Writing: Road Map seminar at K S R Institute for Engineering and Technology, conducted on May 15, 2023 (1 Day).
2. MANOJEE K.S participated in the Pandas in Python webinar at Marudhar Kesari Jain College for Women, Vaniyambadi, conducted on April 5, 2023 (1 Day).
3. MA NOJEE K.S participated in the "Art of writing a research paper" webinar at MIC Groups, conducted on June 30, 2023 (1 Day).
4. ARULKUMAR R participated in the The Art of Proposal Writing: Road Map seminar at K S R Institute for Engineering and Technology, conducted on May 15, 2023 (1 Day).
5. ARULKUMAR R participated in the AICTE Recognized Faculty Development Programme on Energy Efficient and Decarbonisation Technologies at NITTTR, conducted from June 5 to June 9, 2023 (5 Days).
6. ARULKUMAR R participated in the Advancement of Artificial Intelligence in cyber security program at Ajay Kumar Garg Engineering College, conducted from June 19 to June 23, 2023 (5 Days).
7. O.K.Gowrishankar participated in the Innovation & Entrepreneurship Development Programme at Sona College of Technology, conducted from September 15 to September 17, 2022 (3 Days).

8. O.K.Gowrishankar participated in the "Self Design Of Post Retirement" workshop at K.S.R College of Engineering, conducted on November 4, 2022 (1 Day).
9. O.K.Gowrishankar participated in the "Natural Language Processing" seminar at K.S.R College of Engineering, conducted on September 28, 2022 (1 Day).
10. ARULKUMAR R participated in the Data Analyst program at APSSDC and Collaboration With ExcelR, conducted from June 19 to June 23, 2023 (5 Days)

*Patent by faculty*

<i>S.No</i>	<i>Applicant's Name</i>	<i>Title</i>	<i>Application No &amp; Patent Filed Date</i>	<i>Status(Granted/ Published/ Filed)</i>	<i>Country</i>
1.	Dr.J.Preetha, Dr.V.Sharmila, Ds.S.Vijayaragavan ,Dr.E.Punerselvan, Dr.V.Vennila, Dr.M.Somu, Dr.K.Kumaresan, Mr.M.Azhagesan, Dr.C.Anand ,Dr.N.Saravanan, Mr.K.Steephen, Mr.K.Bashkaran	Health Monitoring System	369586- 001 (Design patent) (23.08.202 2)	Granted (05.01.2023)	India

3.	S.Krithika M.Bharathi P.Devi Dr.M.Vijayalakshmi Dr.N.Saravanan N.Santhiya M. Gomathi V. Kalaivani R.Arulkumar K.S.Manojee M. Namasivayam	Robot for carrying goods powered by Arduino for industrial applications	202341002 697 A (13.01.2023)	Published (17.02.2023)	India
4.	1 . Dr. M. Ramesh Kumar 2 . M. Saravanan 3 . Dr. P. RupaEzhilArasi 4 . Dr. R. Prakash 5 . K. Vijayalakshmi 6 . P. Venkateswari 7 . Dr. P. Deepa 8 . Dr. G. Sumathi 9 . P. Palanisamy 10 . V. Ramya	Application of artificial intelligence in agriculture weather management	202341007 252 A (04.02.2023)	Published(10.02.2023)	India
5.	1 . Dr. A. Rajiv Kannan 2 . Dr. N. Vasuki 3 . Dr. C. Anand 4 . Dr. V. Vennila 5 . Mr. E. Kannan 6 . Mr. V. Ramesh 7 . Dr. R. Banupriya 8 . Ms.M. Jayanthi	Detection of fake news using machine learning algorithms	202341012 483 A (23.02.2023)	Published (17.03.2023)	India
6.	1 .Dr.P.Renukadevi 2. Dr. A. Rajiv Kannan 3. Dr. V. Vennila 4. Dr. D.Banumathy	Design System of Covid-19 Prediction Enhancement Using an Enhanced Grasshopper Optimization Algorithm Based on Linear Factors and Ensemble Learning	202341039 764 (10.06.2023)	Published (30.06.2023)	India

#### **4. Research Publications**

##### ***(Journal/conference/Patents/Books/book chapter) Format***

##### ***Journal/Conference Publications (Scopus Indexed/UGC care Journals Only)***

T1. The Method and Apparatus for Face Recognition Using Artificial Intelligence, patented (Application No. 202221053962) by Dr. E. Baby Anitha, Dr. George Chellin Chandran J, Dr. Arun Korath, Ms. K. Veena, Dr. Venkata N. Inukollu, Mrs. Radha Seelaboyina, and Dr. Nimmy John T, introduces an AI-powered system for highly accurate facial recognition in real-time environments.

T2. The Robot for Carrying Goods Powered by Arduino for Industrial Applications, patented (Application No. 202341002697) by Arulkumar R., Manojee K.S., and Namasivayam M. along with their team, proposes an efficient goods transportation robot system for industries using Arduino.

T3. The Application of Artificial Intelligence in Agriculture Weather Management, patented (Application No. 202341007252) by P. Palanisamy, Dr. M. Ramesh Kumar, M. Saravanan, Dr. P. Rupa Ezhil Arasi, and others, uses AI to manage and forecast weather conditions critical to farming decisions.

T4. The Detection of Fake News Using Machine Learning Algorithms, patented (Application No. 202341012483) by Dr. A. Rajiv Kannan, Dr. N. Vasuki, Dr. C. Anand, Dr. V. Vennila, Mr. E. Kannan, Mr. V. Ramesh, Dr. R. Banupriya, and Ms. M. Jayanthi, applies machine learning to combat misinformation in digital media.

T5. The IoT-Based Traffic Control and Monitoring System to Avoid Accidents and Smart Spacing for Ambulance Service, patented (Application No. 202241070705) by O.K. Gowrishankar, Dr. G. Singaravel, Dr. K. Balamurugan, and team, enhances traffic management and emergency response using IoT-based technology.

T6. The IoT-Based Autonomous Firefighting Drone, patented (Application No. 398156-001) by M.K. Nivodhini, Dr. R. Banupriya, P. Vasuki, Dr. S. Vadivel, and S. Maheshwari, uses IoT technology and advanced sensors to autonomously detect and extinguish fires.

#### **5. Publication**

1. The paper titled "Hybrid Neural Network and Long Short-Term Memory Approach for Facial Expression Recognition", authored by M. N. Kavitha and A. RajivKannan, was published in January 2023 in Intelligent Automation & Soft Computing, Volume 35, Issue 1, pages 689–704. The journal is indexed in Scopus and SCI, with an impact factor of 3.401.

2. The paper titled "Analyzing and Detecting the Boundary in Medical Images and Utilizing Big Data", authored by Mr. Thangarasan T, Dr. Ramasamy S, Ms. Keerthana R, and Mr. Periyasamy P N, was published in March 2023 in the International Journal of All Research Education and Scientific Methods, Volume 11, Issue 3, pages 989–992. This Web of Science-indexed journal holds an impact factor of 7.429. The paper titled "Image Enhancement by Matrix Based Computation Analysis Using
3. Gaussian Mixture Model", authored by Dr. S. Vadivel, Mr. R. Bharath Kishore, Mr. K. Ganesan, and Ms. S. Keerthana, was published in February 2023 in the Journal of Xi'an University of Architecture & Technology, Volume 15, Issue 2, pages 72–91. This journal is Scopus-indexed with an impact factor of 3.79.
4. The paper titled "An Image Contrast Enhancement by Using Two-Dimensional Discrete Wavelet Transform", authored by Dr. S. Vadivel, Mr. R. Praveenth, Mr. J. Samuvel, and Mr. N. Siragirivelan, was published in the same journal and issue as above, Journal of Xi'an University of Architecture & Technology, Volume 15, Issue 2, pages 121–129. It is Scopus-indexed an impact factor of 3.79.
5. The paper titled "Hybrid Artificial Bee Colony Based Neural Network and Dynamic Threshold Technique for Predicting Moving Vehicle Location and Co-located Objects", authored by E. Baby Anitha, S. Sivaprakash, S. Velmurugan, and S. Saranya, was published on 17th April 2023 in Sādhanā – Indian Academy of Sciences, Volume 48, Article 68, pages 2–9. This SCI and Scopus-indexed journal has an impact factor of 1.347. The paper titled "Modern Artificial Intelligence
6. Approach With Its Role On Challenges In Human Resource Management And Employee Engagement Based Applications For Organizational Commitment And Development", authored by A. Syed Musthafa, R. Ramya, Fathima, T. Vadivel, and Arulkumar R, was published in May 2023 in the Journal of Data Acquisition and Processing (JCST), Volume 38, Issue 3, pages 856–870. This journal is Scopus-indexed.

### ***7. NPTEL Achievements By Faculty***

1. J. Nirmlala Gandhi completed the Affective Computing course (January – April 2023, 12 weeks) and earned an Elite certification.
2. Nirmlala Gandhi completed the Affective Computing course (January – April 2023, 12 weeks) and earned an Elite certification.
3. K. Venkatesh Guru completed the Affective Computing course (January – April 2023, 12 weeks) and earned an Elite certification.

4. V. Sharmila successfully completed the Compiler Design course (January – April 2023, 12 weeks) with an Elite certification.
5. V. Vennila earned an Elite certification in the Introduction to Artificial Intelligence course (January – April 2023, 12 weeks).
6. M. Jayanthi received an Elite + Silver certification for completing the Cloud Computing course (January – April 2023, 12 weeks).
7. S. Ajithkumar completed the Cloud Computing course (January – April 2023, 12 weeks) with a Successfully Completed grade.
8. C. Anand earned an Elite grade for the Compiler Design course (January – April 2023, 12 weeks).
9. M.K. Nivodhini earned an Elite certification in the Cloud Computing course (January – April 2023, 12 weeks).
10. Keerthana R completed the Cloud Computing course (January – April 2023, 12 weeks) with a Successfully Completed grade.
11. E. Baby Anitha successfully completed the Computer Networks and Internet Protocols course (January–April 2023, 12 weeks).
12. R. Banupriya earned an Elite certification for the Database Management Systems course (Jan–March 2023, 8 weeks).
13. Keerthana R completed the Cloud Computing course (January – April 2023, 12 weeks) with a Successfully Completed grade.

#### **Book Publication:**

1. In June 2023, K. Deepa Thilak, K. Kalaiselvi, Dr. Lalitha Devi, Mrs. B. Ananthi, and Dr. K. Kumaresan published Introduction to IoTs and its Applications through Deccan International Academic Publishers, providing insights into IoT fundamentals, architecture, and its diverse applications
2. R.Arulkumar, V. Shanmugavalli, P. Palanisamy, and M. Namasivayam authored the book Machine Learning Techniques, published by Kiara Publications on 18th November 2022, which provides a solid foundation in various machine learning methods and their real-world applications.
3. Another significant contribution titled Improving Ecommerce Performance by Dynamically Predicting the Purchased Items Using FUP Incremental Algorithm was published in 2023 in the conference proceedings of Smart Trends in Computing and Communications by K. Kalaiselvi, K. Deepa Thilak, S. Saranya, T. Rajeshkumar, M. Malathi, M. Vijay Anand, and K. Kumaresan, focusing on enhanced e-commerce predictions using data mining techniques .

## 6. Internship:

<i>SNo</i>	<i>Student name</i>	<i>Organization name</i>
1	Harish R	Codingmart technologies
2	Sivasuriya V R	Lucid imaging
3	Dhanasri A	Acmegrade pvt ltd
4	Mohamed kalifa S	Acmegrade pvt ltd
5	Babu shankar pawar	Abs pvt ltd

## 7. Placement:

<b>S No</b>	<b>Name of the Company</b>	<b>Student Count</b>
1	AMBLESOFT INC	1
2	ASPIRE SYSTEMS	7
3	AVEON	1
4	BLACK FLUX	1
5	CODING MART TECHNOLOGIES	6
6	COGNIZANT TECHNOLOGY SOLUTIONS	17
7	IVYMOBILITY	2
8	KARR TECHNOLOGIES	2
9	MAHINDRA WHEELS	1
10	MAVENTIC INNOVATIVE SOLUTIONS	3
11	QUICK ZEAL	1
12	SANMINA SCI	1
13	SHIASH INFO SOLUTIONS PRIVATE LIMITED	3
14	STRATEGIC SOLUTION	1
15	TCS	2
16	TCS	
17	TCS NINJA	2
18	THINK N SOLUTIONS	1
19	VINSINFO	8
20	VIRTUSA	12
21	VIRTUSA AIMS	3
22	VIRTUSA AMBASSADOR	1
23	VOLANTE TECHNOLOGIES	7
24	ZILOGIC SYSTEMS	1
25	ZOHO CORPORATION	3
26	ZUCI SYSTEMS	1

## 8.Moc

1	ExcelR Solutions, Bangalore	K.S.R College of Engineering	24.03.2023	Two Years
2.	RedFowl Infotech Private Limited, Namakkal	K.S.R College of Engineering	28.12.2022	Five Years
3.	One Yes Infotech Solutions, Chennai	Department of CSE, K.S.R College of Engineering	24.09.2022	Five Years