Department of Computer Science and Engineering

Monthly Newsletter

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KPR Institute of Engineering and Technology

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About the Department

The Department had a humble beginning with an intake of 60 students in Under Graduate program in Computer Science and Engineering (B.E.) in the year 2010. Post Graduate program in Computer Science and Engineering (M.E.) was introduced in the year 2014 with an intake of 18 students. Today the **Department caters the needs of 720 students**. The Department has been accredited by NBA and has also been recognized as a Research Centre by Anna University, Chennai.

In our department, we have 40 highly qualified, dedicated faculty members for the upliftment of the student fraternity. The curriculum and syllabi are revised once in 6 months with the feedback of alumni and industry experts to make the students meet the industry expectation for their career and development. The syllabus is embedded with GATE curriculum that strives the students to clear **competitive exams like UPSC (IAS), GATE**. The Department has state of the art infrastructure in terms of laboratories, classroom, seminar hall, etc. The Department is stepping forward to expand its wings from the national to international area through innovative teaching practices and industry/academic collaborations. Special labs such as Mobile App Development, Data Science, Machine Learning, Augmented reality and Virtual Reality, Networks and Intelligence Computing are initiated to help the students excel in industrial environment.

The Department has signed **MoUs with Emurgo Amazon Web Services, REDHAT, EMURGO** for establishing **Center of Excellences** through which the students are benefited with International certification courses like **RHCSA, BLOCKCHAIN, ORACLE, Artificial Intelligence & Machine learning from Xebia University, C-DAC CLOUD**. To equip the students, the department offers with value added courses in Data Science and Big data analytics by Dell EMC2, Oracle, Block chain and Java. Apart from academics, the college provides platform to the students in order to showcase their unique talents through various **non- technical clubs like Dance, humor, music, food photography, Art & Craft Internet radio club** etc. Liberal arts courses like roof gardening, two-wheeler maintenance and other are also offered by various departments open to all the students.

Vision of the Department

To foster the students by providing learner centric teaching environment, continuous learning, research and development to become thriving professionals and entrepreneurs to excel in the field of computer science and contribute to the society.

Mission of the Department

1. Providing value-based education and contented learning experience to the students
2. Educating the students with the state of art technologies and cultivating their proficiency in analytical and designing skills
3. Enabling the students to achieve a successful career in Computer Science and Engineering or related fields to meet the changing needs of various stakeholders
4. Guiding the students in research by nurturing their interest in continuous learning towards serving the society and the country

FACULTY DETAILS

TEACHING FACULTY

S. NO	FACULTY NAME	DESIGNATION
1	Dr Sumathi A. C.	Associate Professor
2	Dr Balamurugan A.	Professor
3	Dr Surendran D.	Professor
4	Dr Gomathy B.	Professor
5	Dr Manoj Kumar S.	Professor
6	Dr Vignesh V.	Associate Professor
7	Dr Sivakumar T.	Associate Professor
8	Dr Suresh P.	Associate Professor
9	Dr Siva Sangari M.	Assistant Professor (Sl.G)
10	Dr Devipriya A.	Assistant Professor (Sl.G)
11	Dr Jayanthi N.	Assistant Professor (Sl.G)
12	Dr Saravanan M.	Assistant Professor (Sl. G)
13	Dr Kamaraj K.	Assistant Professor (Sl.G)
14	Ms Aswathy R. H.	Assistant Professor (Sl. G)
15	Mr Rajasekaran T.	Assistant Professor (Sr. G)
16	Mr Kandasamy S.	Assistant Professor (Sr. G)
17	Mr Sivaramakrishnan R.	Assistant Professor (Sr. G)
18	Ms Vidhya K.	Assistant Professor (Sr. G)
19	Ms Salomi M.	Assistant Professor (Sr. G)
20	Mr Vijayaganth V.	Assistant Professor (Sr. G)
21	Mr Premkumar M.	Assistant Professor (Sr. G)
22	Mr Nitin B. Raut	Assistant Professor (Sr. G)
23	Mr. Selvakumar	Assistant Professor (Sr. G)
24	Mr Naveenkumar M.	Assistant Professor

25	Ms Sri Sathya K. B.	Assistant Professor
26	Ms Geetha S. K.	Assistant Professor
27	Ms Nandhini N.	Assistant Professor
28	Ms Kiruthika J. K.	Assistant Professor
29	Ms Uma Rani M.	Assistant Professor
30	Ms. Preethi T.	Assistant Professor
31	Ms Jency A Jebamani B.	Assistant Professor
32	Ms Anchal	Assistant Professor
33	Ms Jeevitha R.	Assistant Professor
34	Ms Kanaga Priya P.	Assistant Professor
35	Ms Sasikala C.	Assistant Professor

SUPPORTING STAFF

SI.NO	Name of the faculty	Desgination
1	Mr.Thangaraj R.	Lab Technician
2	Mr.Samsundar A.	Lab Technician
3	Mr. Prakash S.	Lab Technician
4	Mr. Yogesh M.	Lab Technician
5	Mr. Vishnu K.	Lab Technician
6	Mr.Rethna Kumar S.	Lab Technician
7	Ms.Ruba P.	Senior Assistant
8	Ms.Priya.C	Junior Assistant

EVENTS ORGANIZED

National Level Webinar on Data Science for Genomics & Precision Medicine

The session started with a welcome address followed by Inaugural address which was delivered by Dr.P.Thangaraj, Director- CFRD, KPR Institute of Engineering and Technology. After a short introduction about the resource person, Dr. S. Usha,Assistant Professor, Bharathiyar University,Coimbatore started her session about “Contemporary Areas in Genomics and Data Science.” She started her session with an introduction on Data Science & Genomics and continued explaining the sub topics like expression profiling, encode, etc… She explained Genomics in terms of the 3VS framework and 4M framework. She explained technical imports of Genome Data Science, String-Processing Algorithms and Hidden Markov Models. She also showed us how to find the relationship between two genomes. Once she showed us how to find the relationship between two genomes she

continued on with the basics of network science and how it helps in genomics, deep learning, how genomics is a multi-dimensional big data science and she listed out few data science technologies that are being applied for genomics like NOSQL Database, HADOOP, SPARK, NLP and ML including DL. She also told about the issues related to data and how its impacting data in genomics. She also gave an overview of the Current Trends in Bioinformatics. Once she finished the session participants posted their queries related to the topics and she answered them solving their confusions.

No. of participants: 47 Students: 37 Faculty:10

Journal Publications by Faculty

1. Sumathi, Appasamy C., Muthuramalingam Akila, Rocío Pérez de Prado, Marcin Wozniak, and Parameshachari B. Divakarachari 2021. "Dynamic Bargain Game Theory in the Internet of Things for Data Trustworthiness" Sensors 21, no. 22: 7611. https://doi.org/10.3390/s21227611
2. S. S, A. J. P. L, V. Elangovan, N. K. M and A. S, "Mutism Guide: A Real-Time Sign Spelling Recognition using Skeleton based Improved Haar Support Vector," 2021 Smart Technologies, Communication and Robotics (STCR), 2021, pp. 1-6.
3. Devipriya, A., Prabu, P., Venkatachalam, K., Ibrahim, A. Z. (2022). Kernel Granulometric Texture Analysis and Light RES-ASPP-UNET Classification for Covid-19 Detection. CMC-Computers, Materials & Continua, 71(1), 651–666.
4. Rajendar, S., Kaliappan, V. K. (2022). Sensor Data Based Anomaly Detection in Autonomous Vehicles using Modified Convolutional Neural Network. Intelligent Automation & Soft Computing, 32(2), 859–875.
5. Rohini, M., Surendran, D. & Manoj, S.O. Prognosis of Alzheimer's Disease Progression from Mild Cognitive Impairment Using Apolipoprotein-E Genotype. J. Electr. Eng. Technol. (2021). https://doi.org/10.1007/s42835-021-00967-3

Placement Activities

- 19 of our CSE students of 2022 batch got placed in Tech Mahindra with 3.2 LPA.
- 34 of our CSE students of 2022 batch got placed in Wipro with 3.5 LPA.
- Poovizhi K C, CSE student of batch 2022 got placed in Asipre Systems with 3.6 LPA

NPTEL Certifications

Course Name: Introduction to internet of things

Deviations (if any)