



**Department of  
Computer Science and Engineering  
Monthly Newsletter**

**Volume 4 Issue 2**

**FEBURARY 2022**



**KPR Institute of  
Engineering and  
Technology**

# EDITORIAL BOARD

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**Mr. M. Naveenkumar**  
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Assistant Professor

Department of Computer Science and Engineering

## About the Department

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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**

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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**

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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	Dr 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

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### 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

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## DEPARTMENT EVENTS & ACHIEVEMENTS

KPR Institute of Engineering and Technology  
Learn Beyond (Autonomous, NAAC "A")  
Avinashi Road, Arasur, Coimbatore.

Department of Computer Science and Engineering  
Recognized by AICTE, Affiliated to Anna University - Chennai

CSI ASSOCIATION

Department of Computer Science and Engineering & CSI Students' Chapter Organizes  
Are you a good poster designer?

HURRY UP !  
This is for you

Designs are welcome till  
19.02.2022, 6pm

Scan to Submit

THEME

1. Laptop Sales
2. Audition For Dance
3. Invitation For Debate

Participate and show your design to the world

Convenor  
Dr Sumathi A C  
HOD/CSE

Faculty Co-ordinator  
Dr.Gomathy B  
Professor/CSE

Submit your design : <https://forms.gle/wB5kAgE6N67Ep3NL9>

Student Co-ordinator:  
Ms.Karthika Deepa K R  
9585262522

kpriet\_csi\_chapter

### Online quiz competition - "Poster Design Competition"

It is an online poster designer competition, organized by the Computer Science and Engineering Department in association with CSI Students' chapter, on various emerging topics was conducted on 19.02.2022 so as to improve the designing knowledge of students.

All the participants will be given participation certificate. It is an internal event open to all the departments of KPRIET. Total of 26 students attended. Outcome of the quiz competition was very informative and knowledge enriching competition for the participants. Virtual platform-based competition gives better experience to the participants.



The main objective of competition is to understand and create awareness in their visuals (posters) to enhance students' knowledge. The students actively participated with immense zeal and enthusiasm and made very beautiful posters. They selected topics like buyback of equity share, accounting cycles, Ratio and interpretation, Share and mutual funds, Decision making process etc. It was a great opportunity to watch these young minds trying to create their ideas of a better learning through posters. The competition was really enjoyed by all students.

### “Training Programme on AWS Certified Cloud Practitioner”

**KPR Institute of Engineering and Technology**  
Learn Beyond (Autonomous, NAAC "A")

**aws**

**Department of Computer Science and Engineering & Servers**  
**Amazon Web Services - Centre of Excellence**  
Organizes

Training Programme on  
**"AWS CERTIFIED CLOUD PRACTITIONER"**

**Resource Person**  
**Dr VIDHYA K**  
Assistant Professor (Sr.G)  
CSE/KPRIET

WEDNESDAY | MAR 09 2022 | 2.30 PM - 4.30 PM

**GV Laboratory (AWS CoE)**

**Student Coordinators**  
Balavashan R S/CSE  
Ananth R/CSE  
Akash G/CSE  
Devesh S/ECE  
Bharathi M/ECE

**Convenor**  
Dr Sumathi A C  
HoD/CSE

[kpriet.ac.in](http://kpriet.ac.in) /KPRIETonline

The training programme on “AWS certified Cloud Practitioner”, is organized by the Computer Science and Engineering Department in association AWS-Centre of Excellence on 09.03.2022 during 2.30 Pm to 4.30 Pm at GV Lab (AWS Centre of Excellence). The main objective of the “Training Programme on AWS Certified Cloud Practitioner” is to train the students to learn and build their carrier in the domain of AWS Cloud.

This training facilitates the students to learn the basics of AWS Cloud including the AWS Global Infrastructure; compute, storage, database, networking, security, and monitoring at a foundational level. From this base level of knowledge, the training will



expand into other role-based or domain-based areas of expertise. This training helps students for attending AWS Certified Cloud Practitioner certification exam. Based on student's interest, specifically in AWS certification course the students are encouraged to develop these technical skills and to explore the services of AWS Cloud platform. Obtaining this certification will help the students to identify and develop their talent with critical knowledge related to implementation of cloud based applications. Earning certification on 'AWS Certified Cloud Practitioner' validates cloud fluency and foundational AWS knowledge to grab good job opportunities.

## Seminar on “IoT and Wi-Fi Security”



The poster features the KPR Institute of Engineering and Technology logo at the top left, with the tagline 'Learn Beyond' and '(Autonomous, NAAC "A")'. To its right is the SA KPRIET logo. Further right are accreditation logos for C, S, and E. The main text reads: 'Department of Computer Science and Engineering & Cyber Awareness Diwas by Ministry of Home Affairs Jointly organizes Webinar on IoT & Wi-Fi Security'. A portrait of Mr. Vyshak Suresh is shown on the left. To his right, it states: 'Resource Person Mr. Vyshak Suresh Cyber Security Research Engineer for Automotive domain FEV India Pvt. Ltd, Bangalore'. The date and time are 'SATURDAY FEB 05 2022 3.00PM - 4.00PM'. A Google Meet link is provided: 'https://meet.google.com/uuf-xbjj-koq'. At the bottom left, coordinators are listed: 'Dr T Sivakumar Associate Professor/CSE' and 'Dr M Saravanan AP(SI.G)/CSE'. At the bottom right, the convener is 'Dr Sumathi A C HoD/CSE'. The website 'kpriet.ac.in' and social media icons are at the bottom.

The session is started sharply at 3.00PM on 5<sup>th</sup> Feb 2022. Ms.Tanikshaa III-ECE delivered the welcome address and Ms.Samyukthaa Bose III-CSE introduced the resource person to the students. Further, Mr.VYSHAK SURESH initiated the seminar with his educational background and experience in the domain of cyber security.

Mr.VYSHAK SURESH discussed the following aspects of as part of the cyber awareness to the students.

- ✓ Security issues and challenges in IoT
- ✓ Guidelines to use and change the passwords
- ✓ Issues in connecting with a public Wi-Fi
- ✓ Securing the home Wi-Fi

Discussion in cyber security issues in IoT and Wi-Fi devices is discussed among the students. Mr.VYSHAK SURESH countered all the clarifications raised by the students during the interactions with the students.

Ms.Sapthika Edward IV-EEE concluded the seminar with Vote of Thanks at 4.00PM.

## Webinar - “What I would differently if I get a chance to time travel to my college days?”



**KPR Institute of Engineering and Technology**  
Learn Beyond (Autonomous, NAAC "A")

**Department of Computer Science and Engineering**  
Accredited by NBA | Permanently Affiliated to Anna University - Chennai

**Office of Alumni Relations**

**ISTE**  
INSTITUTE FOR TECHNICAL EDUCATION

**Office of Alumni Relations & Department of Computer Science and Engineering**  
Organize Webinar on  
**“What I would do differently if I get a chance to time travel to my college days?”**

**Resource Person**  
**Raja Syed Abuthahir**  
Application Developer  
Thoughtworks,  
Coimbatore

**Convenor**  
**Dr.A.C.Sumathi**  
HoD/CSE

**Coordinators**  
**Dr.M.Saravanan** Alumni Coordinator - CSE  
**Dr.K.Kamaraj** AP(SLG) - CSE

12<sup>th</sup> February 2022  
3.00 pm to 4.00 pm  
Google Meet  
[meet.google.com/gec-amqp-axj](https://meet.google.com/gec-amqp-axj)

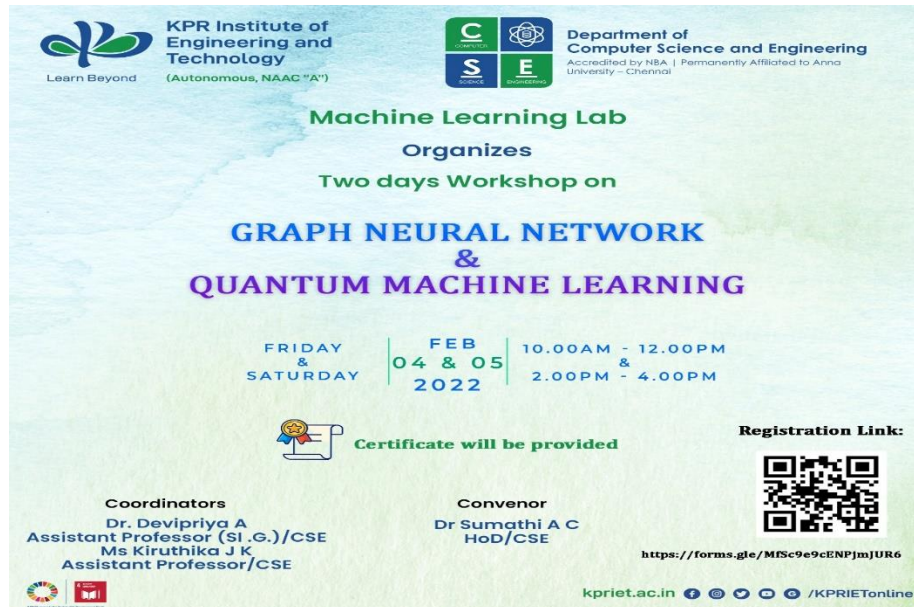
kpriet.ac.in /KPRIETonline

The programme has been organized by the Computer Science and Engineering Department in association with Office of Alumni Relations and ISTE College Chapter. It is planned for Undergraduate students.

Dr.M.Saravanan, Assistant Professor (Sl.G) gave welcome address and he delivered agenda of the program. Dr.A.C.Sumathi, Head-CSE given her felicitation address and encouraged the students participate the session interactively. The resource person Mr. Raja Syed Abuthahir, Application Developer, Thoughtworks, coimbatore addressed students starting with his introduction and his experience with the industry. He shared his expectations as a student and experience as an employee. The resource person well explained the ways of preparation for industry and expected core subjects (like Data Structures, Computer Networks etc.) by the industry.

There are total of 74 participants attended the programme. The session went fine and participants eagerly participated the programme. The vote of thanks is given by Dr.K.Kamaraj, AP(Sl.G) / CSE.

## Workshop- “Graph Neural Network and Quantum Machine Learning”



The poster features a light green and blue background with a watercolor effect. At the top left is the KPR Institute of Engineering and Technology logo with the tagline 'Learn Beyond' and '(Autonomous, NAAC "A")'. At the top right is the Department of Computer Science and Engineering logo, 'Accredited by NBA | Permanently Affiliated to Anna University - Chennai'. The central text reads 'Machine Learning Lab Organizes Two days Workshop on GRAPH NEURAL NETWORK & QUANTUM MACHINE LEARNING'. Below this, the dates 'FRIDAY & SATURDAY' and 'FEB 04 & 05 2022' are listed, along with the times '10.00AM - 12.00PM & 2.00PM - 4.00PM'. A certificate icon is shown with the text 'Certificate will be provided'. A QR code is labeled 'Registration Link:' with the URL 'https://forms.gle/MSc9e9cENPjmJUR6'. At the bottom, coordinators 'Dr. Devipriya A Assistant Professor (SI.G.)/CSE' and 'Ms Kiruthika J.K Assistant Professor/CSE' are listed, along with the convener 'Dr Sumathi A C HoD/CSE'. Social media icons for Facebook, Twitter, and YouTube are present, along with the website 'kpriet.ac.in' and the handle '/KPRIETonline'.

Department of CSE & Machine learning Special Lab Organized two days workshop on “ Graph Neural network and Quantum Machine learning”. The workshop was inaugurated by Dr.A.C.Sumathi, Head Department of Computer science and Engineering. Dr. A.Devipriya AP(SI. G)/CSE and Ms. Kiruthika J.K AP/CSE are the coordinators of the workshop. The workshop was related to graph neural network architecture and its real-time applications. Quantum machine learning is a research area that **explores the interplay of ideas from quantum computing and machine learning.**

## Webinar on “Achieving Problem-Solution Fit & Product-Market Fit

The poster is a vertical rectangular graphic with a light green and white background. At the top left is the KPR Institute of Engineering and Technology logo, which includes a stylized green leaf and the text 'KPR Institute of Engineering and Technology (Autonomous, NAAC "A")'. To its right is the Institution's Innovation Council logo, featuring a stylized human figure in blue and red, with the text 'INSTITUTION'S INNOVATION COUNCIL (Ministry of HRD Initiative)'. Further right are two small square logos: one with 'C' and 'S' and another with 'E'. Below these logos, the text reads 'Department of Computer Science & Engineering in association with Centre for Innovation Incubation & Entrepreneurship Development Organizes Webinar on ACHIEVING PROBLEM-SOLUTION FIT & PRODUCT-MARKET FIT'. A central portrait of Ms. Preethi P. is shown in a rounded square frame. To the right of the portrait, her name 'Ms. Preethi P' is written in green, followed by her credentials: 'Freelancer, Marketing Ex - The Economic Times IIM Bangalore'. Below the portrait, the date and time are listed: 'SATURDAY FEB 19 2022 3.30PM - 4.15PM'. A Google Meet link is provided: 'https://meet.google.com/hav-vfoa-qze'. At the bottom left, the coordinator is identified as 'Dr T Sivakumar Associate Professor/CSE'. At the bottom right, the convenor is 'Dr Sumathi A C HoD/CSE'. The bottom of the poster features a dark grey bar with social media icons and the text '/KPRIETonline'.

Ms. A.Pradhusa from 2<sup>nd</sup> Year CSE delivered the welcome address and further she introduced the speakers Ms.P.Preethi to the audience. Further, Ms.T. Preethi initiated the session from her academic background and experience at Intel and The Economic Times. She shared the academic learning at IIM Bangalore which provides an opportunity to work at The Economics Times.

Ms.P.Preethi addressed the life cycle of any product with respect to time and sales. She explained the process of achieving problem solution-fit and product market-fit with the case study on online ordering and delivery model of food, and goods. She addressed the growth of paytm during the demonetization. Finally, Dr.T.Sivakumar, Associate Professor/CSE concluded the session with Vote of Thanks.

## Webinar on “Journey from Student to Employee to Employer”

The poster is for a webinar organized by the Department of Computer Science & Engineering at KPR Institute of Engineering and Technology. It features the logos of KPR Institute of Engineering and Technology, the Institution's Innovation Council, and the Centre for Innovation Incubation & Entrepreneurship Development. The webinar is titled "JOURNEY FROM STUDENT TO EMPLOYEE TO EMPLOYER" and is presented by Mr. Moses Sam Paul, Co-founder of GoD LLP, Bangalore. The event is scheduled for Saturday, February 12, 2022, from 3:30 PM to 4:15 PM. The Google Meet link is provided as <https://meet.google.com/hyc-wzat-ptx>. The coordinator is Dr. T. Sivakumar, Associate Professor/CSE, and the convener is Dr. Sumathi A. C., HoD/CSE. The KPRIET logo and website information are also present at the bottom.

Ms.D.Pooja from 2nd Year CSE delivered the welcome address and Dr T Sivakumar, Associate Professor/CSE introduced the speakers to the audience. Further, Mr.Moses Sam Paul initiated the session from his journey from student life to employee as TCS & Microsoft as a Software Engineer and System Engineer respectively. The shared is experience at National University of Singapore while studying Masters in Public Policy. Again his journey starts as an employee at Heptagon, Bangalore. From 2019, as an Employer, Mr.Sam with his team has built five communities around different skill sets such as Growth Marketing, Soft Skills through Performance Arts, Quantum Computing, Quantum Hardware & Productivity and wellbeing.

He addressed the top five success factors such as Timing, Team Execution, Idea Truth, Business Model and Funding of any startup. Finally, Ms. A.Pradhusha from of 2nd Year CSE concluded the session with Vote of Thanks

### Journal Publications by Faculty

1. Rajasekaran Thangaraj, P Pandiyan, T Pavithra V.K, R Sivaramakrishnan, Vishnu Kumar Kaliappan, Jan 2022, 2021 International Conference on Advancements in Electrical, Electronics, Communication, Computing and Automation (ICAECA), Deep Learning based Real-Time Face Detection and Gender Classification using OpenCV and Inception v3, IEEE Xplore, Scopus.
2. G. Selva Mary, A. John Blesswin, S. Manoj Kumar, 18 Feb 2022, Self-authentication Model to Prevent Cheating Issues in Grayscale Visual Secret Sharing Schemes, Wireless Personal Communications, SCI

### Details of Book Chapter Publication

S.No	Name of the Faculty	Title of the Book	Chapter Name	Publications	ISBN No	Month and Year
1	R.Santhana Krishnan, A.Sangeetha, D.Abitha Kumari, <b>N.Nandhini</b> , G.Kanagarajesh, K.Lakshmi Narayanan, Y.Harold Robinson	Recent Advances in Internet of Things and Machine Learning Real-World Applications	A Secured Manhole Management System using IoT and Machine Learning	Springer Nature Switzerland AG	978-3-030-90119-6	Feb 2022



**Deviations (if any)**



*Together we will*