Department of Computer Science and Engineering

Monthly Newsletter

Volume 4 Issue 4

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KPR Institute of Engineering and Technology

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Department of Computer Science and Engineering

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	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)

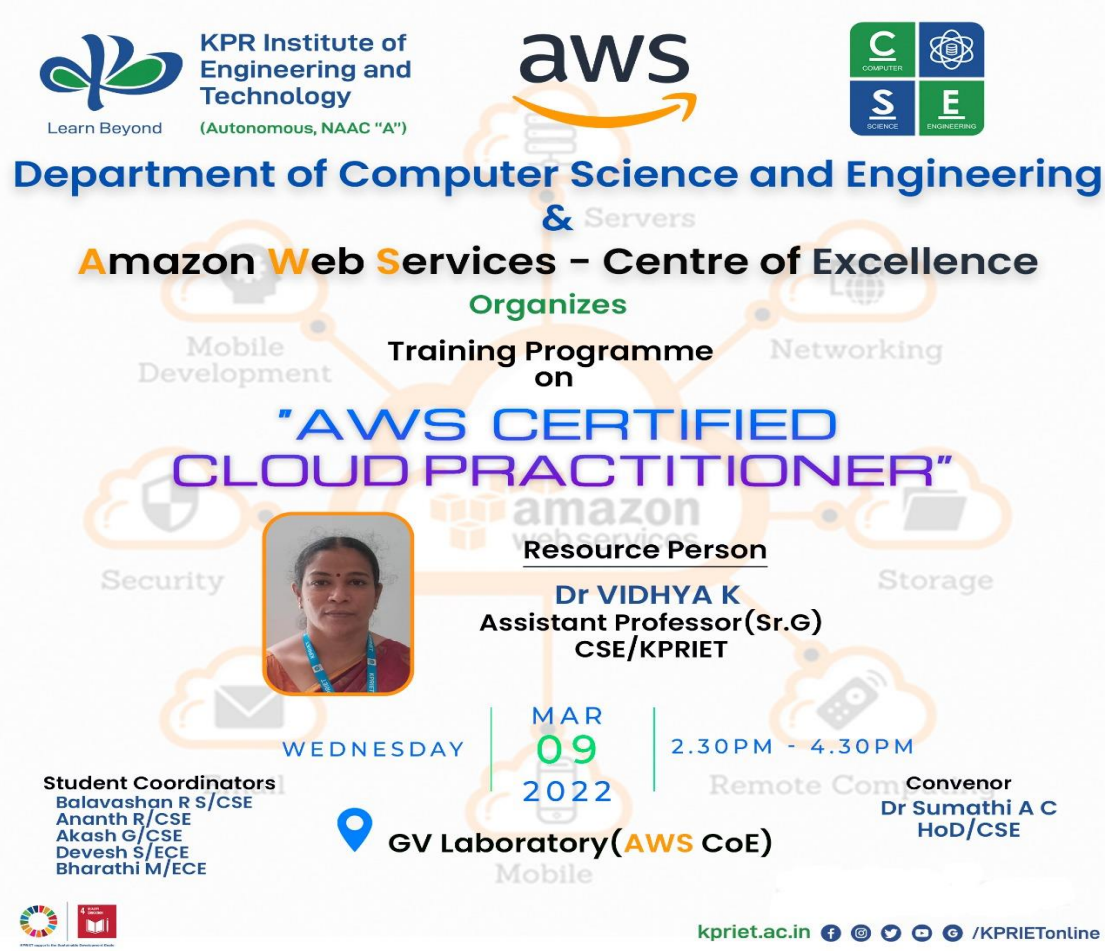
24	Mr Naveenkumar M.	Assistant Professor
25	Ms Sri Sathya K. B.	Assistant Professor
26	Ms Geetha S. K.	Assistant Professor
27	Ms Nandhini N.	Assistant Professor
28	Ms Kiruthika J. K.	Assistant Professor
29	Ms Uma Rani M.	Assistant Professor
30	Ms. Preethi T.	Assistant Professor
31	Ms Jency A Jebamani 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

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

DEPARTMENT EVENTS

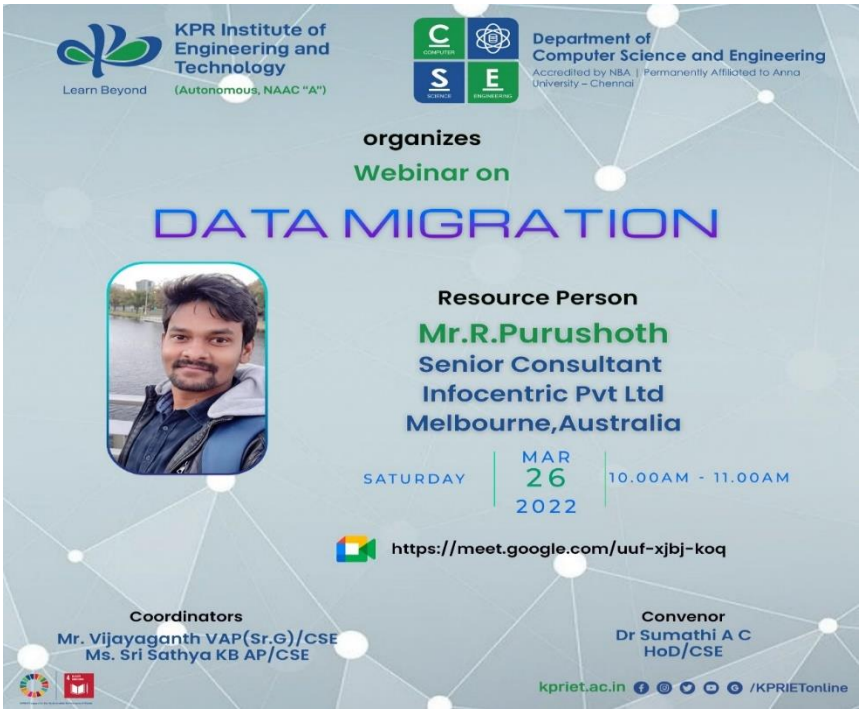
“Training Programme on AWS Certified Cloud Practitioner”



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.

International Webinar - "DATA MIGRATION"



Department of Computer Science and Engineering organized an International Webinar titled "Data Migration". The Program was coordinated by Mr.V.Vijayaganth and Ms.K.B.Sri Sathya. The Objective of the Program is to make the students understand the importance of Data Migration .The Speaker (Mr.R.Purushoth) explained the importance of data Migration. Migrating data from on premises to cloud analytics will improve the productivity of business. He explained the below topic in data migration,

- Data
- Data migration
- Analytical data architecture
- Cloud services

The students from various departments from KPRIET and other colleges participated in the event. There are total of 60 participants attended the programme. The session went well and participants eagerly participated the programme. The resource person clarified their doubts as well.

Seminar on "Human Computer Interaction: From Concept to Prototype"

The seminar was intended for the third year students who enrolled **"Human Computer Interaction"** as an elective course. The session started at 9:30 AM on 23rd April 2022. Dr.R.H.Aswathy, AP(Sl.G)/CSE delivered the welcome address and introduced the resource person to the participants. Further, Mr.K.S.Agilan initiated the seminar with the importance of Human Computer Interaction, and the use of UI/UX design.

Mr.K.S.Agilan discussed the following aspects as part of the UI/UX design on the theme: **"Human Computer Interaction: From Concept to Prototype".**

- Information Architecture

- User Interface design
- Visual Design
- Wireframing
- Prototyping
- UI/UX Design in Real world example
- Digital Art

Further, Mr.K.S.Agilan discussed the importance of UI/UX design and the real world examples. Dr.R.H.Aswathy, AP(Sl.G)/CSE concluded the seminar with a vote of thanks at 11.30 AM. A total of 28 students (3rd year) and a faculty member are benefited from the seminar.

Workshop - "Data Visualization using Power BI"

The program was organized by the Department of Computer Science and Engineering department in association with ISTE Faculty Chapter on 27.04.2022 from 09.00 AM to 4.30 PM. The objective of the program is to give basic knowledge and awareness about Data Science and one of the data visualization tools Power BI. Our resource person Dr Devipriya A gave brief introduction about Data and Data Science and the need to visualize it. She also introduce the tool Power BI and its components. Ms Jency A Jebamani delivered the session on how to install Power BI and how to import and visualize data on it. The afternoon session is engaged as hands-on session and make all the participants to install Power BI in their laptop and visualize the sample dataset. Total of 42 participants attended the program. The workshop was successfully completed with Q&A session and feedback session.

Seminar on "Online Identity theft and identity management system"

Resource Person:

Resource Person 1 : Ms.Hemasree
Corporate trainer , Bangalore

Resource Person 1 : Mr.Moses sam Paul
Cofounder,GoD LLP,Bangalore

Resource Person 1 : Mr.king prakatheesh
Cyber security consultant,
Ernst &youngLLP,bangalore

Department of CSE jointly in association with the CSI student chapter association conducted a workshop event on “online identity theft and identity management system”.

Lecture Series on Recent Trends in Networking

It is an online webinar, organized by the Computer Science and Engineering Department in association with CSI Students’ chapter, on Recent Trends in Networking which was conducted on 12.04.2022 so as to improve the basic knowledge of students.It is an internal webinar open to all years of the CSE department of KPRIET. Total of 39 students have attended the webinar. Outcome of the webinar was very informative and knowledge enriching for the participants.

The main objective of webinar is to understand and create awareness in the basic concepts of networking to enhance students' knowledge. The students actively participated with immense zeal and enthusiasm. The resource person related the networking concepts with the recent trends with live example. The students interacted well and the resource person clarified the doubts raised by our students. Machine leaning, Deep learning, Cyber security etc were related with the networking concepts with the real time examples. The entire webinar was interesting and really enjoyed by all students.

Journal Publications by Faculty

1.G.Mani, T.Shanthi, N.R.Nagarajan, Bharatiraja, P.Suresh, March 2022, Intrusion detection system for big data analytics in IoT Environment, Tech Science Press – CSSE, Vol.43, No.1, 2022, pp.381-396, doi:10.32604/csse.2022.023321, SCI.

2. Srithar S, Pavan Kumar, Nandhini N, S. Alagumuthukrishnan, C. Ashok Kumar, March 2022, Fisher Friend: An Intelligent Identity Spreader System Using Request-Response Model, 2022 International Conference on Computer Communication and Informatics (ICCCI) IEEE Xplore, Scopus.

3. S. Karthic, S. Manoj Kumar, April 2022, Wireless Intrusion Detection Based on Optimized LSTM with Stacked Auto Encoder Network, Techscience Intelligent Automation & soft computing, Vol.34, No.1, 2022, pp.439-453, doi:10.32604/iasc.2022.025153.

4. M Manicka Raja, S Manoj Kumar, May 2022, Aggregated PSO for Secure Data Transmission for WSN Using Fog Server, International Journal of Intelligent Automation & Soft Computing, Vol.34, No.2, 2022, pp.1017-1032, doi:10.32604/iasc.2022.025665.

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, N.Nandhini, G.Kanagarajesh, K.Lakshmi	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

	Narayanan, Y.Harold Robinson					
2	Mr.T.Rajasekaran	Artificial Intelligence based Fault Diagnosis and Predictive Maintenance	Photovoltaic Systems			March 2022

Placement Activities

- 71 of our students get placed in virtusa of package 5.5 to 7 LPA
- 12 of our students get plaved in Divum of package 3.5 to 4.6 LPA

Deviations (if any)