INSTITUTE OF ENGINEERING & TECHNOLOGY (UCC Autonomous)

(Accredited by NAAC, Approved by AICTE & Permanently Affiliated to JNTUH)

SPECIAL POINTS OF INTEREST:

- Technology Trends in 2020
- Department Events
- Technical Interview questions
- Student Articles

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Department of cse

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About College

Vision & Mission

Vision

To be a center of excellence in engineering and management education, research and application of knowledge to benefit society with blend of ethical values and global perception.

Mission

- To provide world class engineering education, encourage research and development.
- To evolve innovative applications of technology and develop entrepreneurship.
- To mould the students into socially responsible and capable leaders

About Department

Vision

To meet the emerging trends in computer Science and Engineering, strive for self-reliance enabled through high end research by adapting a futuristic approach.

Mission

- •To impart qualitative education, prepare students refurbish their latent talents and aspire for a pragmatic career in Computer Science and Engineering.
- •To provide an ambiance to develop strategic areas of advance study with perception to foster industry centric education in computer science and Engineering.

•To inculcate self-learning among students to make them self-reliant and socially responsible.



DECEMBER 2020

Sri. J.V.Krishna Rao HRA (USA) -Secretary J.B. Educational Society

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Dr Putti Srinivasa Rao. Ph.D Hod Department of CSE

> "And just like any company that blissfully ignored the Internet at the turn of the century, the ones that dismiss the Internet of Things risk getting left behind

HOD Message

It is my immense pleasure to head the department of computer science and engineering. The department has consistently maintained an exemplary academic record. The greatest asset of the department is its highly motivated faculty and learned faculty.

The objective of the department is to prepare students for successful career in industry, research and academics to meet the needs of growing technology.

"We are what our thoughts have made us. So take care about what you think. Always be a part of solution, don't be the part of problem. Always try to update your knowledge otherwise you will be outdated. If you want successs do all things you are supposed to do then you need not search for shortcuts".

Technology trends in 2019

Internet of Things(IoT)

The IoT (Internet of Things) is a network of devices that are connected to each other. Their devices can interact and share data with each other. These devices may be connected via WiFi, and they share data about their environments and how they are being used. These devices have a computer chip that facilitates this exchange. It is predicted that more than 41 billion devices powered by IoT will be used by 2025.

IoT benefits

- Monitor their overall business processes;
- Improve the customer experience (CX);
- Save time and money;
- Enhance employee productivity;
- Integrate and adapt business models;
- Make better business decisions;
- Generate more revenue.

IoT frameworks include the following:

- Amazon Web Services (AWS) IoT
- Arm Mbed IoT
- Microsoft's Azure IoT Suite
- Google's Brillo/Weave
- Calvin is an open source IoT platform released by Ericsson



Faculty Achievements

Research paper - related activity done:

- Dr.Niraj Upadhayaya Published Child Monitoring Device to Protect Failing into Abandoned Deep Bore Well in India IPR Journal on 21 Aug 2020
- Dr.Niraj Upadhayaya Published Wireless Mouse System with Power saver Technology in India IPR Journal, on 01 Aug 2020
- Dr. P.SrinivasaRao Published Wireless Mouse System with Power saver Technology in India IPR Journal, Published on 01 Aug 2020
- Dr. P.SrinivasaRao Published A Methodology for Leveraging Domain Expert Knowledge and Temporal Data for the Design of an IOT System, in Aegaeum Journal, ISSN NO: 0776-3808, Volume 8, Issue 7, August 2020
- Dr. G. Arun Sampaul Thomas published Real-Time Health System (RTHS) Centered Internet of Things (IoT) in Healthcare Industry: Benefits, Use Cases and Advancements in Book Chapter at Springer's Multimedia Technologies in the Internet of Things Environment (Scopus Indexed) pp 83-93, 29 Sept 2020

(Conference / Patent / Paper / Book Publication Etc.,)

Patent

- Dr.Niraj Upadhayaya applied for IP on A Robotics Based Muscular Spasm Relief Device in Australian Innovation Patent Application number – 2020102322 dated 18.09.2020
- Dr.Niraj Upadhayaya applied for IP on An IoT and Artificial Intelligence Based System For Wheel Chair Control in Australian Innovation Patent Application number 2020101765 dated 02.09.2020
- Patent was granted to Dr.Niraj Upadhayaya on A Robotics Based Muscular Spasm Relief Device by Australian Innovation Patent Application number – 2020102322

One Week / 3 (or) 2 Days FDP:

- Dr. R. Vijayanand attended Faculty Development program on VLSI and Embedded system design on Aerospace and Defense Application organized by Sri Venkateswara Institute of Science and Technology, Kadapa in Aug 2020
- Dr. R. Vijayanand attended IEEE sponsored Faculty Development Programme on Deep learning networks and applications, organized by Kalasalingam Academy of Research and Education, Tamilnadu in Aug 2020
- Dr. G. Arun Sampaul Thomas attended Faculty Development Programme on "DevOps Engineering Practices" organized by St. Joseph College of Engineering, Chennai in Aug 2020
- Mr.K.Ramakrishna attended National Level Online FDP Organised by Department of Computer Science and Engineering, MGIT in association with TASK from 10-14 August 2020, Hyderabad
- Mr. Abhay Kumar attended Emerging Trends In Computer Science & Engineering And Their Applications / Department Of Computer Science & Engineering, Nawab Shah Alam Khan College Of Engineering & Technology, Hyderabad in Aug 2020
- Mr. Abhay Kumar attended Cyber Hygiene Practices And Digital Signatures / C-Dac Bangalore As Part Of Information Security Education And Awareness (Isea) Project Funded By Ministry Of Electronics And Information Technology, Govt. Of India in Aug 2020
- Dr.Niraj Upadhayaya attended Faculty Development Programme on "Outcome based Education" organized by Vasavi College of Engineering, Hyderabad from 10-16 Sept 2020
- Dr. G. Arun Sampaul Thomas attended Faculty Development Programme on "Cyber Security in Practical Aspects" organized by Vasavi College of Engineering, Hyderabad from 01-05 Sept 2020
- P.Prem Kumar attended Faculty Development Programme on "Cyber Security in Practical Aspects" organized by Vasavi College of Engineering, Hyderabad from 01-05 Sept 2020

Student Achievements

The following students of IV CSE are placed in the following companies

S.No	Roll No	Name	Company Name
1	16671A0509	BANDIKATLA GAYATHRI	Miraki Technologies
2	16671A0531	MALLELA ADITYA	Miraki Technologies
3	16671A0540	P HARDEEP SINGH	Miraki Technologies
4	16671A0516	GOGINENI DEEVESH CHOWDARY	NIIT Technologies
5	16671A0547	SAI KRISHNAM RAJU BHUPATHI RAJU	Tata Consulting Services
6	16671A0598	NIYATHI AIELLA	Infosys
7	16671A0561	A SUMASRI CHOWDARY	Infosys
8	16671A0575	DAMPURI KRISHNA VAMSHI	NIIT Technologies
9	16671A05B7	G.SAI SREE	EUTHISSA CARE TECHNIOL- OGY
10	16671A0576	E MONICA	Tata Consulting Services
11	16671A0554	VADDI ABHILASH REDDY	Multiplier Solutions
12	16671A0557	VISHWANTH REDDY MUCHANTULA	Multiplier Solutions
13	16671A0558	ҮАНҮАА	COGNIZANT
14	16671A0586	KOSURU SESHA UDIT	COGNIZANT
15	16671A0524	KOTAKONDA MEGHANA	COGNIZANT
16	16671A0535	MUSHAM VINAY	Creator Technologies
17	16671A0580	K ANIL REDDY	EUTHISSA CARE TECHNIOL- OGY
18	16671A0587	KUCHADI VISHAL RAO	EUTHISSA CARE TECHNIOL- OGY
19	16671A0546	RALLAPALLI SRI VENKATA SAI TEJASWINI	Infosys
20	16671A0553	THUMMALA MAHENDER REDDY	KTREE COMPUTER SOLU- TIONS PVT LTD

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Student Achievements

The following students of IV CSE are placed in the following companies

S.No	Roll No	Name	Company Name
21	16671A0523	KAMIREDDY PRAVEEN KUMAR	Multiplier Solutions
22	16671A0571	BOMMANPAD SAI SUMANTH	NIIT Technologies
23	16671A05B8	L.JYOTESH	NIIT Technologies
24	16671A0570	BOBBALA SATHVIKA REDDY	Packet Prep
25	16671A0515	DORNALA SAIRAMREDDY	QSPIDERS
26	16671A0519	GURRAM MANASWI	Rythmos
27	16671A0513	DACHANI KARTHEEK REDDY	Tata Consulting Services
28	16671A0538	N ARUN SANDILYA	Tata Consulting Services
29	16671A05A4	RAHUL GUNDAPANENI	Tata Consulting Services
30	16671A0570	BOBBALA SATHVIKA REDDY	Coign Consulting Pvt Ltd
31	16671A05B5	JULURI GANESH	Coign Consulting Pvt Ltd
32	16671A0564	ANUMOLU VARSHINI	Coign Consulting Pvt Ltd



What is Edge Computing?

Edge Computing allows computing resources and application services to be distributed along the communication path, via decentralized computing infrastructure.

Computational needs are more efficiently met when using edge computing. Wherever there is a requirement of collecting data or where a user performs a particular action, it can be completed in real-time. Typically, the two main benefits associated with edge computing are improved performance and reduced operational costs, which are described in brief below.

Advantages of Using Edge Computing

Improved Performance

Besides collecting data for transmission to the cloud, edge computing also processes, analyses, and performs necessary actions on the collected data locally. Since these processes are completed in milliseconds, it's become essential in optimizing technical data, no matter what the operations may be.

Transferring large quantities of data in real-time in a cost-effective way can be a challenge, primarily when conducted from remote industrial sites. This problem is remedied by adding intelligence to devices present at the edge of the network. Edge computing brings analytics capabilities closer to the machine, which cuts out the middle-man. This setup provides for less expensive options for optimizing asset performance.

Examples of Edge Computing

The best way to demonstrate the use of this method is through some key edge computing examples.

Here are a few scenarios where edge computing is most useful:

Autonomous Vehicles

Self-driven or AI-powered cars and other vehicles require a massive volume of data from their surroundings to work correctly in real-time. A delay would occur if cloud computing were used.

Streaming Services

Services like Netflix, Hulu, Amazon Prime, and the upcoming Disney+ all create a heavy load on network infrastructure. Edge computing helps create a smoother experience via edge caching. This is when popular content is cached in facilities located closer to end-users for easier and quicker access.

