Atria Institute of Technology

Even Sem 2022-23

ABOUT US

The Department of Computer Science & 2021-22 Engineering was established in the year 2000. Department offers a wide array of research opportunities and programs of study at undergraduate and postgraduate level. The department encourages students to gain practical skills and a strong understanding of core computer science areas. It has also received funding by VGST & KSCST, Government of Karnataka and Department of Science and Technology, Government of India. Faculty and students often collaborate on projects, working side-by-side with researchers from other colleges and departments across the campus. The students get to build specialist knowledge in the field of applied computer sciences with the flexibility to follow their interest through the choice of varied optional modules, courses and electives. The vibrant academic environment and a tradition of active participation in technical events by the Computer Science & Engineering Department have resulted in publications in premier conference proceedings and leading journals

VISION

TO BE A MODEL CENTER FOR EDUCATION AND HIGHER LEARNING TO MEET THE COMPUTING CHALLENGES OF THE INDUSTRIAL DEMANDS, RESEARCH, ENCOURAGE INTERDISCIPLINARY LEARNING TO MEET SOCIETAL NEEDS.

MISSION

M1 - EMPOWER THE GRADUATES WITH THE FUNDAMENTALS IN DESIGN AND IMPLEMENTATION OF COMPUTATIONAL SYSTEMS THROUGH CURRICULUM AND RESEARCH IN COLLABORATION WITH INDUSTRIES AND INSTITUTES OF REPUTE.

M2 - TO DEVELOP A STATE-OF-THE-ART INFRASTRUCTURE AND CREATE AMBIENCE FOR EDUCATION CAPABLE OF INTERDISCIPLINARY RESEARCH AND SKILL ENHANCEMENT.

M3 - TO NURTURE FACULTY WHO HAVE ACADEMIC AND INDUSTRY EXPOSURE, TO IMPART DOMAIN KNOWLEDGE AND TO POSITION OUR STUDENTS IN THE GLOBAL IT ECOSYSTEM.

M4 - TO CARRY OUT PROFESSIONAL BRILLIANCE WITH ETHICAL AND MORAL STANDARDS

Activities conducted in JULY

Design Thinking is not an exclusive property of designers—all great innovators in literature, art, music, science, engineering, and business have practiced it. Design Thinking is a methodology which provides a solution-based approach to solving problems. It's extremely useful when used to tackle complex problems that are ill-defined or unknown—because it serves to understand the human needs involved, reframe the problem in human-centric ways, create numerous ideas in brainstorming sessions and adopt a hands-on approach to prototyping and testing. Learning about the five stages of design thinking will empower you and allow you to apply the methodology to your work and solve complex problems that occur in our companies, our countries, and across the world.

Work shop on "Fundamentals of Microsoft Cloud Computing (Azure)"

This course will introduce students to the Cloud. We will review the various types of Cloud services including IaaS, PaaS and SaaS as well as an overview of the services offered by Azure. We will examine how manage Azure from the Classic and New Portal as well as via Azure PowerShell. The content provides the pre-requisite knowledge required by all individuals who will be learning Microsoft Azure. Students who are administrators, developers, or database administrators will benefit from learning the fundamentals covered in this course and will be better prepared to take additional Microsoft Azure courses that are generally more advanced. IntelliMax offers definitive training in Microsoft Azure AZ-305 certification. As part of the training, you will be learning about architecting Microsoft Azure Infrastructure Solutions, working on real-world hands-on projects in building scalable Azure infrastructure, designing web apps, etc. You will also receive official Microsoft course material for 'Developing Microsoft Azure Infrastructure Solutions.

Cloud Computing Certification Overview

This Post Graduate Program in Cloud Computing helps you become an expert in designing, planning, and scaling cloud implementations. Our Cloud Computing course helps you master the core skill sets required to design and deploy dynamically scalable and reliable applications on three popular cloud platform providers: Microsoft Azure, AWS, and GCP.

Activities conducted in JULY

SDP on "Career & Research Applications in Data Science & AI/ML"

This course will introduce students to the Cloud. We will review the various types of Cloud services including IaaS, PaaS and SaaS as well as an overview of the services offered by Azure. We will examine how manage Azure from the Classic and New Portal as well as via Azure PowerShell. The content provides the pre-requisite knowledge required by all individuals who will be learning Microsoft Azure. Students who are administrators, developers, or database administrators will benefit from learning the fundamentals covered in this course and will be better prepared to take additional Microsoft Azure courses that are generally more advanced. IntelliMax offers definitive training in Microsoft Azure AZ-305 certification. As part of the training, you will be learning about architecting Microsoft Azure Infrastructure Solutions, working on real-world hands-on projects in building scalable Azure infrastructure, designing web apps, etc. You will also receive official Microsoft course material for 'Developing Microsoft Azure Infrastructure Solutions.

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Parent Teacher Meet

The Department of Computer Science and Engineering had organized a Parent-Teacher meet on Saturday, 23th July 2022. It was conducted in the offline mode. The purpose behind arranging this meet was to interact with parents of students and to make them aware about the Vision, Mission, PEOs of the department along with the performance of their ward at institute.

During the session there was a personal meet with Class teachers and subject teacher. Various aspects of academics and overall development of wards was discussed. Suggestions provided by parents was later put into action.

Activities conducted in JULY

Automation Testing & Artificial Intelligence

This is a collaboration between Atria Institute of Technology, TNS IF & CAPGEMINI. The MoU is one more step in reinforcing cooperation aimed at supporting the Students of final and pre-final year in placement and Skill development. We are enthusiastic that this partnership will strengthen and advance the interests and collaborative activities of both organizations to the benefit of the students and continue to promote excellence in our shared development strategies

"Digital Academy" "Trio-MOU Signing Ceremony"

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Activities conducted in AUGUST

Awareness on Importance of Computational Intelligence and IEEE Membership

Computational Intelligence (CI) is the theory, design, application and development of biologically and linguistically motivated computational paradigms. Traditionally the three main pillars of CI have been Neural Networks, Fuzzy Systems and Evolutionary Computation.

Activities conducted in September

ATAL FDP on " Internet of Things - A Roadmap to research and Product Development"

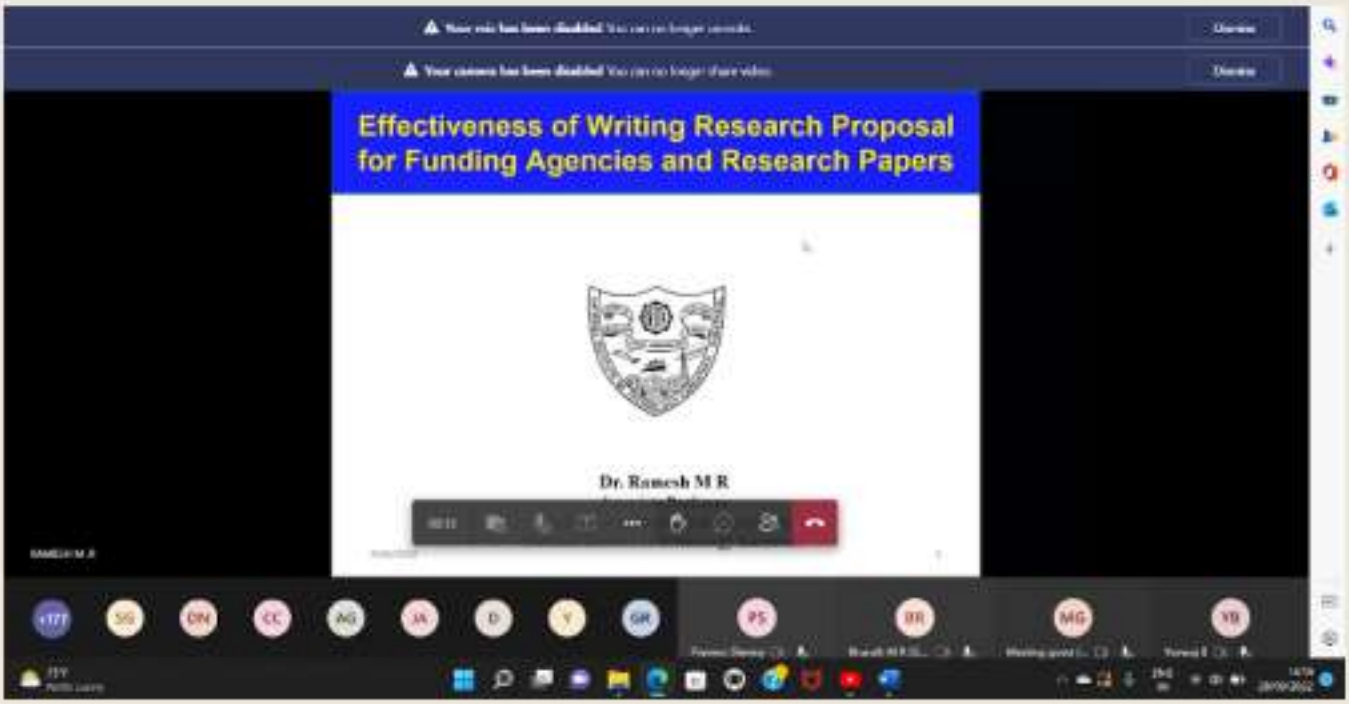
Now everywhere we are hearing the word IoT. Actually, what it is, how it works and how it simplifies our daily lives we will discuss in this article. Let's start with the definition of IoT. Multiple electronic devices which are equipped with a unique IP address and communicated with over the internet are called the Internet of Things (IoT). In multiple ways, we can define IoT but finally, in this technology, we can control the number of electronic devices through a single device with the help of the Internet. Here, the electronic devices in IoT technology should have the sensors and it should sense the signal through electrically and function according to it. And the sensed data transferred to the other device through the Internet. IoT will make our life so simple and accurate. Presently this technology has huge job opportunities and still there are many developments going on. Examples for IoT devices like a smartwatch, smart speakers, smart TV's, Amazon Alexa, Google Home devices are internet-connected devices that come under examples of IoT. This article discusses what is IoT, IoT protocols, and architectures.

Three of our faculties have participated in 15 days FDP, held at CMRIT, Bangalore.

Activities conducted in September

5 Days FDP on "Taking Research to next level"

The 5-Day FDP covered importance of Intellectual Property rights , types of IPR such as patents ,trademarks, copyright; The session also briefed on the time period or the duration of the property rights. Procedure for filling the property. The next module covered how academia's can file the IPR, what are the advantages of filling the IPR such as converting it to product, using it for start-ups.
Module 3 covered the key features of writing a good research paper. Understanding of h-Index and i-Index of your publications. Identifying good journals and tips on improvising the citations of your paper. Module 4 gave us insight into different funding agencies public and private sectors. How to approach funding agencies. Types of funds institutions can acquire. The last day covered the process of writing good proposal.



Activities conducted in October

Industrial Visit to ETHNUS

This industry visit at Ethnus quarters in Jayanagar was a 2 hour long program. It aimed at making the students realize the importance of knowing some basic programming languages and warning them about the competition out in the corporate world. The company also emphasized on the fact that the students must keep the urge to learn in them alive and always be on the lookout for opportunities. This industry visit further aimed at providing a complete in depth knowledge about the various technologies used by their company which would make the students tasks easier to get into their dream company as employees. Various new techniques and easier ways to learn and get complete knowledge about the topic were imparted. This internship included not only the technical benefits but added on to contribute further in my personal development and gave me a lifelong memory to cherish.

Activities conducted in NOVEMBER

24th ISTE Karnataka State level Faculty convention and 32nd Dr.L S Chandrakanth memorial lecture

Education is fundamental for achieving full human potential, developing an equitable and just society, and promoting national development. Providing universal access to quality education is the key to India's continued ascent, and leadership on the global stage in terms of economic growth, social justice and equality, scientific advancement, national integration, and cultural preservation. Universal high-quality education is the best way forward for developing and maximizing our country's rich talents and resources for the good of the individual, the society, the country, and the world. India will have the highest population of young people in the world over the next decade, and our ability to provide high-quality educational opportunities to them will determine the future of our country.

The global education development agenda reflected in the Goal 4 (SDG4) of the 2030 Agenda for Sustainable Development, adopted by India in 2015 - seeks to "ensure inclusive and equitable quality education and promote lifelong learning opportunities for all" by 2030. Such a lofty goal will require the entire education system to be reconfigured to support and foster learning, so that all of the critical targets and goals (SDGs) of the 2030 Agenda for Sustainable Development can be achieved. The world is undergoing rapid changes in the knowledge landscape. With various dramatic scientific and technological advances, such as the rise of big data, machine learning, and artificial intelligence, many unskilled jobs worldwide may be taken over by machines, while the need for a skilled workforce, particularly involving mathematics, computer science, and data science, in conjunction with multidisciplinary abilities across the sciences, social sciences, and humanities, will be increasingly in greater demand.

Activities conducted in DECEMBER

Session on "Cyber Security Pathways and Employment Opportunities"

The session began with the introduction of session speaker Mr. Mohan Vuppalapati by Mrs. Manjula M. Asst Prof, Dept of CSE, AIT. Mr. Mohan briefed about the different courses offered by Parkus systems to the students. He gave insight on courses offered by CISCO, AWS and Microsoft. He also focused on career planning with these courses.
The session continued with the CISCO certification course on "Introduction to Cybersecurity". Mr. Mohan gave a bird view of the course with the contents. He also discussed the lab exercises covered in the course. The quizzes of every module and the final exam procedure were also detailed.
The session concluded after the Q & A from the audience.

ISERT MOU Exchange

This MOU, for using ISERT services and adopting the digital platform to provide student, placement and education development services comprising of Internships, Mentorships, Placement and project opportunities.