



Aryabhatta

A Quarterly Publication of Department of Computer Science & Engineering Volume V, Issue 4, October-Dec 2021







About the Department of Computer Science and Engineering

Department of Computer Science was established in the year 2005 with an intake of 60 students which has been rose to 120 per year, with the objective of imparting quality education in the field of Computer Science Engineering.

The department has also achieved prestigious NBA (National Board of Accreditation) and aims to be the Centre of Excellence in providing international standard education and consultation in the field of computer science and thus targets to produce globally competent and self disciplined computer engineers.

To Keep pace with rapidly evolving technology and continuous need for innovation in year 2020, the department has also started B.Tech. in "Artificial Intelligence" with an intake of 60 students, we always aim to produce quality professionals, holding important positions in information technology industry in India and abroad.

The Department of Computer Science and Engineering offers B.Tech course, lays emphasis on deep understanding of fundamental principles and knowledge of Computing Devices, logic, circuits, and computer architecture. The department is fully equipped with laboratories, along with advanced software's like MATLAB, Oracle, j meter and Selenium under the supervision of well-qualified Professors with Ph. D. and M. Tech. from reputed institutes like IITs, NITs, etc.

From Editor's Desk



Department of Computer Science & Engineering is accredited with NBA.The Department executes 4 year B.Tech. Course in "Computer Science Engineering" since 2005 and in "Artificial Intelligence" since last year. It has stateof-the-art & world class facilities, with clear aim to be known as the best department in Computer Science & Engineering among all other Indian Colleges of repute. As a wealth, the department has a strong team of faculty members with high dedication towards the commitment. The pass out students of the department are performing extremely well in almost all the leading organizations and making the name of the department sparkle bright. Here at IIMT we are committed to provide not only technical education to our students but also the leadership qualities through which they can create employment for others.

Sincerely,
Dr (Prof.)K.Rama Krishna
Chief Editor & HOD Dept. of CSE(Font Style)

"QUOTE FOR THE QUARTERLY"

Cyberattacks have become a permanent fixture on the international scene because they have become easy and cheap to launch. Basic computer literacy and a modest budget can go a long way toward invading a country's cyberspace.

Faculty Corner

Mr. Rajat Kishore Varshney of IIMT College of Engineering has successfully attended the IPRworkshop under the Faculty Development and Training Programme on 23 Oct 2021. Dr. Upasana Dohare has successfully attended Cyber Security Workshop at JNU under the Faculty Development and Training Programme from 6 to 10 Dec 2021. Mr. Anupam Saini has successfully attended the Online workshop on Fog and Edge Computing Challenges & research directions under the Faculty Development and Training Programme from 26 to 30 Oct 2021.

Faculty development/training activities/STTPs by Faculty Member in Year **Department of Computer Science & Engineering** Title of Faculty NAME OF Faculty S.No. development/training VENUE DATE **FACULTY** ID activities/STTPs **RAJAT KISHOR GALGOTIAS** 1 3639 **IPR WORKSHOP** 23-Oct-21 **VARSHNEY** UNIVERSITY Dr. Upasana 2 3691 **Cyber Security** JNU, New Delhi 6-10.Dec 2021 Dohare Fog and Edge Computing 3 3638 Anupam saini AICTE, New Delhi 26-30, Oct 2021 Challenges & Research directions Trending Technologies in Computer **Educational &** 4 3638 Anupam saini 18-22, Oct 2021 Science Research Institute











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AICTE Training and Learning (ATAL) Academy

Certificate

This is certified that Upasana Dohare, Associate Professor of HMT participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "Cyber Security" from 06/12/2021 to 10/12/2021 at Jawaharlal Nehru University.



Advisor-I, ATAL Academy Mamta Rani Agarwal





Dr. Karan Singh Coordinator









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AICTE Training and Learning (ATAL) Academy

Certificate

This is certified that Anupam Kumar Saini, Assistant Professor of HMT Greater Noida participated & completed successfully AICTE Training And Learning (ATAL) Academy Online Advanced FDP on "Fog and Edge Computing Challenges and Research Directions" from 26/10/2021 to 30/10/2021 at National Institute of Technology Sikkim.



Advisor-I, ATAL Academy Mamta Rani Agarwal





RESEARCH ABSTRACT

Published by: ICAC3N-21

Paper ID: 1127

Paper Title: K-NN based Data Reduction Technique in String Space via Space Separation.

Mr. Rajat Kishore Varshney has published a paper "K-NN based Data Reduction Technique in String Space via Space Separation" under IEEE which was accepted on 15 November 2021 alongwith the acceptance information from the journal. Herewith, we are pleased to inform you that paper mentioned above has been accepted by the IEEE ICAC3N-21 and the revised final paper after revision and formatting will be published in the IEEE.

Dear Mr/Ms/Dr/Prof. RAJAT KISHOR VARSHNEY, Sanjay Pratap Singh Chauhan,

Greetings from ICAC3N-21!!!

Paper ID: 1127

Paper Title: "A K-NN based Data Reduction Technique in String Space via Space Separation"

*********CRC Submission
Guidelines for 3rd IEEE ICAC3N21********

Congratulations for the acceptance of your paper to 3rd IEEE ICAC3N-21!!!

As a subsequent process you need to prepare and submit the final Camera-Ready Copy (CRC) of your paper. You have to follow the following guidelines while submitting the CRC.Use the

		IIMT CO	LLEGE OF ENGINE	ERING, GREATER NOIDA		
		DEPARTIV	IENT OF COMPUTE	R SCIENCE & ENGINEERIN	NG	
			Faculty Publication Report 2020-21			
S.no	Name of the faculty	Name of the Paper	Name of the Journal	Conference with ISSN No.	Month - Ye Volume/Issue No.	
1	Shivani Sharma	recent steps involved in rap[id prototyping:A reviem	Conference world	975-93-91535-14-8	22 - December2 021	5011
2	Hridesh Gupta	A Systematic Literature Survey on Generative Adversarial Network Based Crop Disease Identification	ICTAI 2021(IEEE)	978-1-6654-2087-7/978-1-6654- 2088-4	10-Nov-21	
3	Bhupendra ram	Watermarking	IJSR	23197064	Dec-21	
4	RAJAT KISHOR VARSHNEY	A K-NN BASED DATA REDUCTION TECHNIQUE IN STRING SPACE VIA SPACE SEPARATION	IEEE	ICAC3N2021	Dec-21	17/12

- Ms. Shivani Sharma has published a paper "Recent steps involved in rapid prototyping" under the journal Conference world on 22 December 2021.
- Mr. Hridesh Gupta has published a paper "A Systematic Literature Review Survey on Generative Adversarial Network Based Crop Disease Identification" under the journal ICTAI2021 (IEEE) on 10 November 2021.
- Mr. Bhupendra Ram has published Watermarking under the journal IJSR on 21 December 2021.

Student Corner

Two students, Ramneek Kaur and Md.Kaif from the CSE4thyear, wereplaced in blackNgreen with handsome package of Rs.4.00 LPA.



Alumni Connect Program

Alumni Connect Report (Computer Science & Engineering)

Name of Alumni: Anurag Kumar(CSE 2021 Pass out)

Current Profile: Windmoller & Hollscher(i.e Germany Based

Company)

Event Title: "ALUMNI CONNECT"

Event Date & Time: 18-Nov-2021(11:30 A.M to 12:30 P.M.)

No. of Attendees: 150

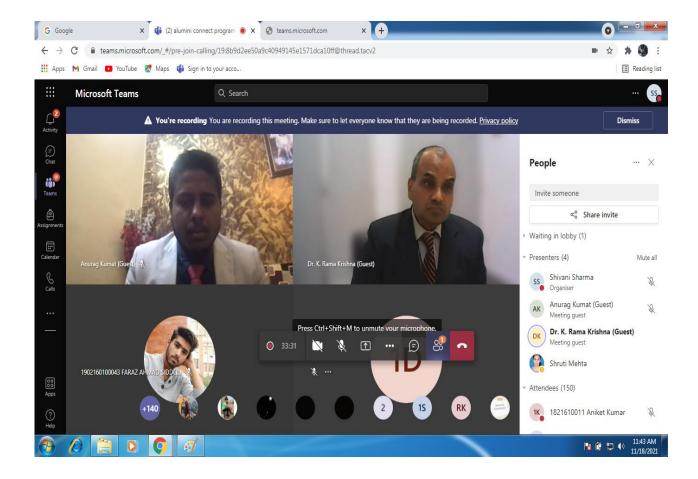
Description: An"Alumni Connect", online event organized by department

of computer science &; Engineering on 18-Nov 2021at IIMT college of

Engineering.

The guest speaker of this event was Mr Anurag Kumar(Alumni of CSE 2021pass out batch), shared his valuable knowledge to our students about "The Existing & Existing & Generation of IT World". He shared his knowledge about current tools and technologies with students that impact on students to establish their goal in right manner. The students was very pleased to hear him, learn new tools and technologies in coming IT World. Student know C,C++,Java Basics,SQL,Flutter,HTML and CSS,Visual Basics.he has received job from Windmoller & Hollscher(i.e Germany Based Company) for the position of Jr. Software Developer at Delhi.My goal is to list my own IT Company(CBO INFOTECH PVT.LIMITED) in list of TOP 100 IT companies of World.My dream is to become Business Tycoon.





DEPARTMENTAL ACTIVITIES

Workshop on Python

The CSE department organized an online "Workshop on python" that was held on12 October2021. The speaker for the workshop was Mr Saurabh Patel. He started his session by introducing students to the concept of using Python. Moreover the chief guest of the event delivered his viewpoints on what is data data science, Steps to initiate data acquisition , best ways to impart statistical aspects in data science using Tableau, Case study about data sets , Issues and challenges in data selection and training.

The event was attended by more than 200 participants, students and faculties. The workshop had a significant focus on Knowledge booster about the methods and practices regarding TABLEAU usage, Key features for statistical data sets, Data acquisitions and Training methods over data sets being applied. He tried to cover many topics from the competition viewpoint and discussed all issues briefly by showing their implementation. In the end, few questions were discussed related to the session. The session was full of knowledge and motivation for all the spectators.



SESSION ON

"My story- Motivational Session by Successful Entrepreneur"

A lecture was jointly organizedon 24thNOV2021by Department of CSE and Moe-IIMT Engineering Innovation Cell Gr.Noida Campus. The event co-ordinator Mr Shekhar Tyagi and Mr Praveen Tomar, Assistant Professor, Department of Computer Science & Engineering, IIMT College of Engineering invited an eminent and distinguished learned personality Mr. Sonu Prakash, CEO of Appwars Technologies Pvt Ltd Noida, a specialist in the field of Entrepreneurship to deliver on the topic "My story-Motivational Session by Successful Entrepreneur". Moreover the chief guest of the event discussed his viewpoints on Meaning of Entrepreneurship, his life journey, how he started as an Entrepreneur and the current status of his venture, also he address the issues and challenges in being an Entrepreneur, the methods and policies / frameworks required for initiating an IT startup which was a very informative concepts for the students.

The workshop had a significant focuson properly described the vital needs for Startups and its benefits, described the methods adopted by early startups, understand the issues and challenges in running a Startup, identify the different kinds of model used in the process of being an Entrepreneur. In the end, few questions were discussed related to the session. The session was full of knowledge and motivation for all the spectators.



SESSION ON

"Problem Solving and Ideation Workshop"

A lecture was jointly organizedon 25th NOV 2021by Department of CSE and Moe-IIMT Engineering Innovation Cell Gr.Noida Campus in Uttar Pradesh. The event co-ordinator Mr Shekhar Tyagi and Mr Praveen Tomar, Assistant Professor, Department of Computer Science & Engineering, IIMT College of Engineering invited an eminent and distinguished learned personality Mr. Varun Gupta, Software Architect Dexterous Web Tech LLP, a specialist in the field of Web development and SEO to deliver a Workshop on the topic "Problem Solving and Ideation Workshop". Moreover the chief guest of the event discussed his viewpoints on Framing up a Case study on the issues in SEOs, drafting a proper way plan to sort out this issue, ongoing algorithmic tools and techniques to be utilized for this task, detailed elaboration of Ad blocks, recent scripts for optimizations, about the methods and cutting edge technological advancements to be utilized for this. SEO helps you rank higher in search results and garner more visibility online, making potential customers more likely to click over to your site and convert, so this workshop seems to have a perfect blend of case study incorporating detailed knowledge about a problem in SEO with its planup forwarding for action. In the end, few questions were discussed related to the session. The session was full of knowledge and motivation for all the spectators.



Idea Competition on

"Developing Online Repository of Ideas Developed & Way Forward Plan"

The department of ECE/CSE organized an Idea Competition on "Developing Online Repository Of IdeasDeveloped & Way Forward Plan" under TI through the IIMT Innovation Cell on **30th November 2021**. The Idea Competition is designed to facilitate the development of great ideas and help those ideas find fulfillment. Participants compete for prizes that include cash, mentoring, and engagement in the incubator process to help develop those ideas.

In this event around 47 student participate from ECE/CSE department and students gives idea on different topics like sensorearphone, Wi-FiConnection, Automated alarm system using GPS, "Climate Change, Hotel Management Android Project, Vaccine counter, Special ability people not getting facilities made for them and going on wrong hands and gas sensing monitoring device etc.

Topics was related to all the fields like social, environmental and technical. All topics were new and students gave very innovative solution to solve the current issues. The winner of Event were:

- (i) Tanya Raj -AI second Year -First Position
- (ii) Aman Kumar ECE Third Year Second Position
- (iii) Aryan Kumar CSE final year- Third Positions

The aim of the event was to motivate students to think about accessibility issues and to include accessibility in their creation of social and technological innovations now and in the future. To develop cost-effective, practical and innovative concepts, programs, initiatives or designs that address everyday accessibility issues. The session was full of knowledge and motivation for all the spectators.



SESSION ON

"Difference Between a Good invention and Bad Invention"

A lecture was jointly organizedon9th DEC2021 byDepartment of CSE and Moe-IIMT Engineering Innovation Cell Gr.Noida Campus in Uttar Pradesh. The event co-ordinator Mr Shekhar Tyagi and Mr Praveen Tomar, Assistant Professor, Department of Computer Science & Engineering, IIMT College of Engineering invited an eminent and distinguished learned personalities Mr. Steven David & Mr. Tushar, CEO & MD of Rudra Robotics PVT. LTD., a specialist in the field of Entrepreneurship to deliver on the topic "Difference between a good invention and bad invention". Moreover the chief guest of the event discussed his viewpoints on implementation of drones as pros and cons associated with their usage, about various applications of drones in various domains, various measures to check for imparting safety from negative usage, issues and challenges in drone developments, types of drones in usage with their varied applications.

The workshop had a significant focuson properly described Properly describing the difference between positive and negative applicability of drones, to understand the issues and challenges in determining the security threats, to identify the different kinds of model used in selecting application of drones. In the end, few questions were discussed related to the session. The session was full of knowledge and motivation for all the spectators.



Session On

"Seminar on detecting IPR potential from early stage of your innovation"

A lecture was jointly organised on 20thDEC2021 by Department of CSE and Moe-IIMT Engineering Innovation Cell Gr.Noida Campus in Uttar Pradesh. The event co-ordinator Mr Shekhar Tyagi and Mr Praveen Tomar, Assistant Professor, Department of Computer Science & Engineering, IIMT College of Engineering invited an eminent and distinguished learned person Ms. Vandana Tiwari, an specialist in the field of IPR to deliver on the topic "Seminar on detecting IPR potential from early stage of your innovation".

During the event the chief guestdelivered on the following:

- IPR recognizing and reward inventors for their commercially-successful inventions. As such they serve as an incentive for inventors to invent.
- When a new technology comes onto the market, society as a whole stands to benefit both directly, because it may enable us to do something that was previously not possible, and indirectly in terms of the economic opportunities (business development and employment) that can flow from it.
- The revenues generated from commercially successful patent-protected technologies make it possible to finance further technological research and development (R&D), thereby improving the chances of even better technology becoming available in the future.
- An IPR effectively turns an inventor's know-how into a commercially tradable asset, opening up opportunities for business growth and job creation through licensing and joint ventures.

The workshop had a significant focuson properly describedProperly describing the importance of IPR in constructing business, to described the methods adopted to design the parameters concerning Innovation for an IPR, to understand the issues and challenges in determining the IPR for early modules, to identify the different kinds of IPRs and their implementations needed. In the end, few questions were discussed related to the session. The session was full of knowledge and motivation for all the spectators



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