TeKZine

2022-23

Department of Information Technology, Jaipur Engineering College and Research Centre

INDEX

From the Desk

Shri Arpit Agarwal
(Vice Chairperson)

I am extremely privileged to lead the institute which has been an undisputed pioneer in the field of education and research, but also in a global arena.

We at JECRC continuously strive hard to reach the benchmark through the latest teaching tools, world-class training modules, and exploration of new research avenues to meet ever-changing corporate and education scenarios. One such feature added to the crown was the launch of "E-MAGAZINE" by the Information Technology department.

All the students and faculties have perfectly groomed this magazine which depicts the confidence, creativity, and innovation of our gems. "E-MAGAZINE" is a milestone that marks our growth, unfolds imagination, and gives life to our thought and aspirations, Information Technology department has done a cherished work that had its root in persuasion. The communication will also establish a trend of acquaintance with our alumni who are doing wonders across the world and raising the flag of JECRC higher and higher, for which JECRC owes a lot to them.

Aristotle once said, "Educating the mind without educating the heart is so no education at all".

I am overwhelmed by the team of hard-working staff and learned faculty who have made me proud by creating such a masterpiece in the form of a magazine. I once again congratulate the entire team for their hard work and dedication. Best wishes and Happy Reading!!

From the Desk

Dr. V.K. Chandna (Principal)

JECRC stands tall on the foundation of its excellence vision and mission being continuously achieved by its committed and deeply knowledgeable faculty and diverse student community that has a burning desire to make new paths of its own.

There is no longer a single pathway to that end but whatever paths our students choose must be filled with effort, dedication & relationships. "E-MAGAZINE "by the Information Technology Department of JECRC is indeed a great success giving out all the insights into the different activities in college as well as in the Information Technology Department.

This initiative was taken by the department will facilitate the students' necessary information, and record-keeping as well as increase student capabilities through active participation.

This magazine is the result of our creative & innovative team of students & faculties, we believe that engineering should be the experience of a lifetime. These experiences set the stage later in life and provide a lifetime of positive memories for our students.

May we continue to give our students strong roots like the Banyan tree and stronger wings to conquer the world!! I congratulate the team for their endless & sincere efforts in bringing out the publication & wish all readers an enriching journey through the pages of "E-MAGAZINE". Happy reading!!

From the Desk

Dr. Smita Agrawal
Head Of Department (IT)

It gives me immense pleasure to lead the Department of Information Technology. Our college is one of the premier institutions, unique like a prism that reflects the manifold shades of learning and co-curricular activities.

With our issue of "E-MAGAZINE", we put forward a distinctive blend of offerings in the areas of engineering & technology in the form of different activities throughout the year.

The very motto of our department is to provide quality education. The process of learning is extremely important in life. What you learn, how you learn, and where you learn plays crucial roles in developing one's intellectual capability, besides career. Information Technology is a scene in today's world. We are committed to providing not only technical education to our students but also leadership qualities through which they can create employment for others.

I congratulate the Editorial Board for their tireless efforts in bringing out this publication. I also extend my sincere thanks to the persons who have contributed to the issue and enhanced its perfection & beautification through the article, poems, inspiring stories, etc. I wish all the students and faculty a great academic career.

Vision & Mission
of college

VISION

To become a renowned centre of outcome based learning, and work towards academic, professional, cultural and social enrichment of the lives of individuals and communities.

MISSION

M1: Focus on evaluation of learning outcomes and motivate students to inculcate research aptitude by project based learning.

M2: Identify areas of focus and provide platform to gain knowledge and solutions based on informed perception of Indian, regional and global needs.

M3: Offer opportunities for interaction between academia and industry.

M4: Develop human potential to its fullest extent so that intellectually capable and imaginatively gifted leaders can emerge in a range of professions.

Vision & Mission
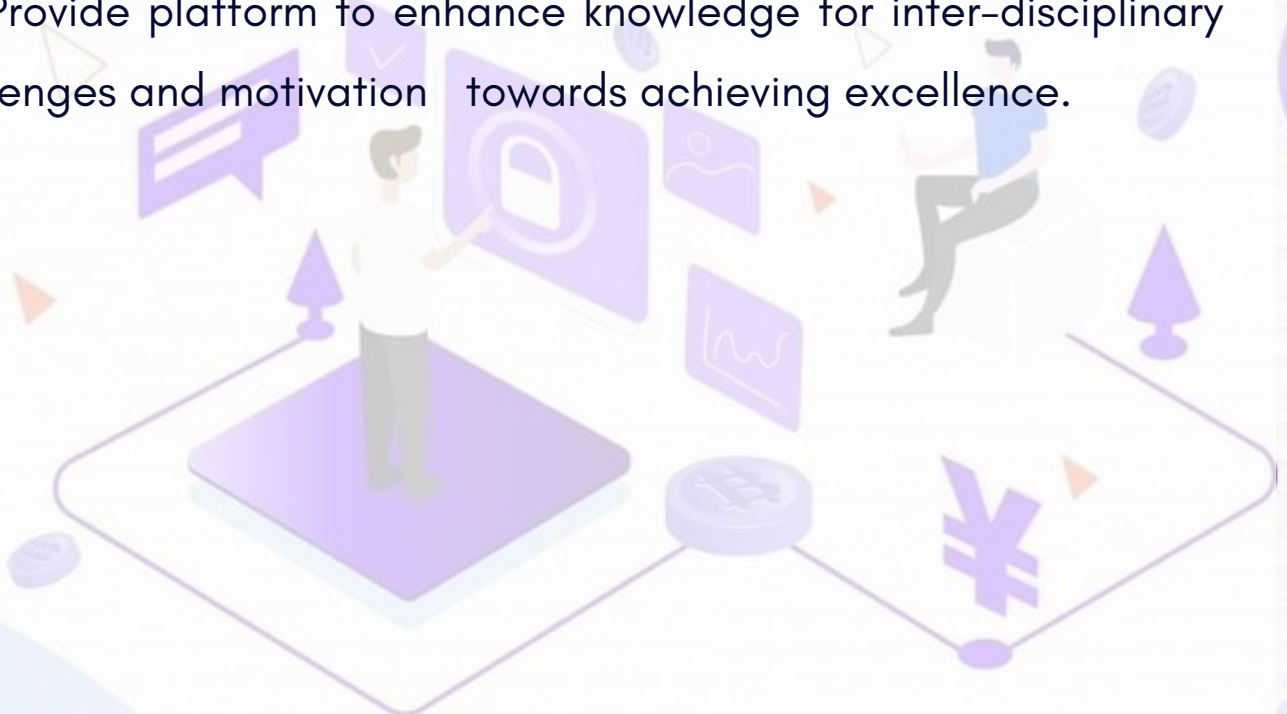## of IT Department

VISION

To be recognized as Centre for providing outcome based education and prepare students to take challenges as per present technological scenario.

MISSION

M1: Practice OBE for professional accomplishment of graduate attributes.

M2: Provide platform to gain knowledge and solutions as per social needs and requirement.

M3: Provide platform to enhance knowledge for inter-disciplinary challenges and motivation towards achieving excellence.

Program Outcomes

PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex electronics and communication engineering problems

PO2: Problem analysis: Identify, formulate, research literature, and analyze complex electronics and communication engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3: Design/development of solutions: Design solutions for complex electronics and communication engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4: Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6: The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional electronics and communication engineering practice.

Program Outcomes

PO7: Environment and sustainability: Understand the impact of the professional electronics and communication engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the electronics and communication engineering practice.

PO9: Individual team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: Communication: Communicate effectively on complex electronics and communication engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11: Project management and finance: Demonstrate knowledge and understanding of the electronics and communication engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12: Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Educational Objectives

PEO1: To strengthen students with fundamental knowledge of effective computing, problem-solving, and communication skills and enable them to have a successful career in Information Technology.

PEO2: To enable students in acquiring Information Technology's latest tools, technologies, and management principles to give them an ability to solve mutidiscipilanary engineering problems.

PEO3: To impact students with ethical values and commitment towards sustainable development in collaboration mode.

PEO4: To reinforce students with research and innovative approaches which help them to identify analyze, formulate and solve real-life problems and motivate them for lifelong learning.

PEO5: To empower students with leadership quality and team-building skills that prepare them for employment, and entrepreneurship, and to become competent professionals to serve societies and global needs.

Program Specific Outcome

PSO1: Ability to interpret and analyze network specific and cyber security issues, automation in real word environment.

PSO2: Ability to apply the knowledge of cloud computing, artificial intelligence, machine learning and deep learning under realistic constraints.

Department of Information Technology

EVENTS

SESSION 2022-2023

One week Short Term Course on "Cyber Threats and Security Measures"

Organized By:

Department of Information Technology,

JECRC, Jaipur

Event Details

NITTTR FDP CYBERSECURITY report aims to discuss the Five days Short Term Courses on "Cyber Threats and Security Measures" scheduled from 25/07/2022 to 29/07/2022 at NITTTR, Chandigarh coordinated by Dr. Maitreyee Dutta through video conferencing.

In this event along with JECRC Foundation, other participants from other institution also. On the very first day there was an inaugural session followed by full-fledged information, regarding following point are covered during the STC are as below:

• Basics of Cyber Threats and Security Measures
• Setting up the Virtual Environment for Ethical Hacking
• The Art of Social Engineering
• Password Security Auditing using John-the-Ripper Tool
• Open-source Firewall Implementation
• Intrusion Detection and Prevention System
• Performing Cyber Threats using Cain & Abel Tools
• Performing Windows Malware Analysis with Open Source Tools
• Implementing Cryptography Algorithms using Cryptool and VeraCrypt
• OWASP Top 10 Vulnerabilities
• Vulnerability Assessment and Penetration Testing
• Performing Digital Forensics with Data Carving and Registry Analyzer Tools
• Implementing Cyber Forensics using Cyber Check Suite
• A Quiz on Cyber Threats and Security Measures
• Valediction/Feedback

Event Details

About JECRC

JECRC Foundation is a pioneer in higher education in the state of Rajasthan, established in the year of 2000, an AICTE approved and NBA accredited engineering college. Through establishments, JECRC Foundation achieved tremendous milestones in the field of engineering and research areas. JECRC Foundation is a very prominent name in technical institutions of North India, among top listed engineering colleges by the Rajasthan Technical University, Kota.

The institutions of JECRC Foundation are amongst the top engineering colleges in Jaipur and currently have over 10000 students enrolled across various disciplines. Today, JECRC has earned respect as one of the most preferred engineering colleges in India as clearly represented by the JEE admission trends, year after year. JECRC Foundation is an institute whose highly qualified & experienced faculty, advanced infrastructural set-up and full-edged hostels offers a comprehensive learning environment for its students. The Foundation encourages all-round personality development through extra-curricular activities and competitive events. Students have also benefited from the Foundation's strong industry linkages and secured training & career opportunities with leading organizations.

JECRC has got very strong corporate connect resulting into over 90% of students getting placed every year. Scores of funded projects are undertaken worth crores of rupees every year. There are several centers of excellences and research centers such as makers club with 3D printers, CNC machines with CAD CAM software, Cadence or CAD software, Tanner tools, SPSS software and so on. There is a very strong Entrepreneurship Development and Incubation Centre resulting into big number of entrepreneurs and startups. Almost all the students get the chance for National/International Internship training for six months during their studies. The course curriculum of the University is updated six monthly through Board of Studies with academic excellence and industry experts. With a strong base sports and games, students compete and win National/International awards. Through numerous clubs of the Foundation uplifts the technical skills, cultural activities and social responsibilities of every individual student.

About Jaipur

Jaipur, popularly known as the "Pink City", and "Paris of India", is the capital of Rajasthan state, India. Jaipur is worldwide famous for unique Architecture, Vastu, Astrology, Forts, Monuments, Palaces, Art and Craft, Culture and last but not least for unique Food. Jaipur is renowned on international tourism map as one vertex of Golden Triangle of Indian tourism. Many scripts and poems have been written on the beauty of Jaipur city by domestic tourists as well as foreign tourists. Countless documentary movies have been made on Jaipur in last 250 years.

Department of Information Technology

Vision: To be recognized as Centre for providing outcome based education and prepare students to take challenges as per present technological scenario.

Mission:

M1: Practice OBE for professional accomplishment of graduate attributes.

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M3: Provide platform to enhance knowledge for inter-disciplinary challenges and motivation towards achieving excellence.

It is one of the oldest departments of the institute, offering a fine blend of experience and innovation in teaching in UG. The department provides a life-long learning experience, through its state of art laboratories, vast courses, and industry-orientation. A vast collaborative framework with reputed universities world over, the department offers ample opportunities for individual growth.

Jaipur Engineering College and Research Centre Jaipur

Information Technology Department, JECRC In association with

NITTTR, Chandigarh

is

Organizing

ICT based Short Term Course

on

"CYBER THREATS AND SECURITY MEASURES"

25/07/2022 to 29/07/2022

Patron
Mr. O.P. Agarwal, Chairman
Mr. Amit Agarwal, Director
Mr. Arpit Agarwal, Director
Mr. M.L. Sharma, Vice Chairman

Head of Institute
Prof. Dr. V.K. Chandna
Principal, JECRC Foundation, Jaipur

Head of IT Department
Dr. Smita Agrawal
Professor & Head Of The Department
Department of Information Technology
JECRC Foundation, Jaipur

Course Coordinators
Ms. Kusum Yadav & Ms. Shikha Srivastava
Assistant professor IT, JECRC JAIPUR
Department of Information Technology
JECRC JAIPUR. 0141-2770232/120 (O)

Event Details

About Jaipur

Jaipur, popularly known as the "Pink City", and "Paris of India", is the capital of Rajasthan state, India. Jaipur is worldwide famous for unique Architecture, Vastu, Astrology, Forts, Monuments, Palaces, Art and Craft, Culture and last but not least for unique Food. Jaipur is renowned on international tourism map as one vertex of Golden Triangle of Indian tourism. Many scripts and poems have been written on the beauty of Jaipur city by domestic tourism as well as foreign tourism. Countless documentary movies have been made on Jaipur in last 250 years.

Objectives of the Course

Understand institution as a system, world class institution and its characteristics, concept and process of NBA accreditation.

- Understand parameters, criteria and proforma for institutional accreditation.
- Understand accreditation of curriculum of engineering programmes.
- Understand norms and standards for engineering programmes.
- Understand process of ISO 9001 certification and its comparison with accreditation done by NBA.
- Understand important consideration for institutional preparation for accreditation.
- Understand NBA accreditation concept and importance.
- Understand Accreditation process of NBA.

Target Audience

The program is targeted towards the faculty/ Administrative Staff of Engineering Colleges and Polytechnics.

Resource Person:

Faculty from NITTTR, Chandigarh, experts/academicians from IITs & NITs.

Jaipur Engineering College and Research Centre
Jaipur
IQAC Cell
Is
Organizing
Short Term Course on

"NBA Accreditation through Outcome based Education"
21/02/2022 to 25/02/2022

Registration Form

Full Name: _____
Designation: _____
Organization: _____
_____
Qualification: _____
Specialization: _____
Mailing
Address: _____
_____
Pin Code: _____ Phone(M): _____
(O): _____ Email: _____

Details of Registration

On first come – first serve basis (limited seats available)
No registration fee
No TA/DA will be paid

Date: _____

Signature of Participant
The applicant will be permitted to participate in this STC, if selected.

Signature and stamp of the Head of the institution
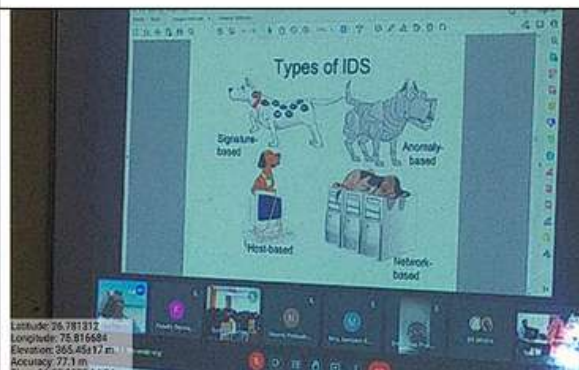(Please mail your completely filled registration)

Advisory Committee

Shri Manish Sharma, Deputy Director

Dr Ram Kumar Mangal, Registrar

Dr Sanjay Gour, HOD, CSE

Dr Sandeep Vyas, HOD, ECE

Dr Prerak Bhardwaj, HOD, EE

Dr Krishan Kant Saini, HOD, CE

Ms Manju Vyas, HOD, AI& DS

Dr Smita Agarwal, HOD, IT

Dr Ruchi Mathur, Dean I Year

Organizing Committee

Dr Vineeta Mathur, Associate Professor, JECRC

Dr Parul Tyagi, Associate Professor, JECRC

Dr Bhuvnesh Bhardwaj, Associate professor, JECRC

Ms Kusum Yadav, Assistant Professor, JECRC

Mr Jay Shankar Sharma, Assistant Professor, JECRC

Ms Priya Jyotiyana, Assistant Professor, JECRC

Dr Vijeta Kumawat, Associate Professor, JECRC

Mr Neeraj Kr Srivastava, Assistant Professor, JECRC

Mr Sumit Soni, Assistant Professor, JECRC

Ms Nishi Agarwal, Assistant Professor, JECRC

Mr Sudarshan Jain, Assistant Professor, JECRC

Ms Mamta Rani, Assistant Professor, JECRC

Mr Narendra Siyora, Assistant Professor, JECRC

Mr Abhishek Kumar, Assistant Professor, JECRC

Ms Jisha Varghese, Assistant Professor, JECRC

Glimpses of Event

Event Details

Speaker's Profile
Mr. Peeyush Sanam
(Director Technology – Upflairs Private Limited)

Technical Summary:

Application Level: Python Scripting, Flask & Django (Framework), Flutter (Mobile Apps), Embedded C++

Data Science & ML: Data Analysis, Machine Learning, Deep Learning, Neural Networks, BigData, Tableau, Python- Spark, Hadoop (Python-MapReduce /Sqoop /Kafka Hortonworks), R (Entry Level)

Project Management: GITLAB, BitBucket, JIRA, ASANA, Azure Portal

AI & Computer Vision: Image Processing, Video Processing, Object Detection/Recognition, OpenCV

Database: MySQL, PostgreSQL, CosmosDB, Snowflake, HiveQL, MongoDB (Entry Level)

Cloud & Server: Azure Functions, Big Data Ingestion, AWS EC2
Internet of Things: Wi-Fi/RF/Bluetooth/nRF/ ZigBee/HTTP/MQTT, Mobile/Data Analysis

Embedded Systems: AVR/ARM (STM32) MCUs, Peripherals (ADC/Timer/Counter/Interrupts/RTC), Communication Protocols (USART/SPI/I2C/CAN/USB/GSM/GPS/RFID),Sensors (Digital/Analog), IDEs (Keil/AVR Studio/IAR), Simulation (Proteus), PCB Designing (ARES/Eagle), Raspberry Pi, Arduino, nVidia JETSON, RTOS.

Event Details

Work Experience

1. Training
   - Corporate Training

o Indian Air-Force, Bangalore

o Dot Square, Jaipur

o Ebay.in

o Reliance Jio, Jaipur

o Ericsson Jaipur and many more

- Trained over 20,000 students from prestigious institutes like IITs, NITs, BITS Dubai, Amity, VIT Vellore and many more Delivered workshop on various topics like AI, Machine Learning, Data Science, Internet of Things, Robotics & Embedded Systems in various colleges and universities pan India.

2. Development
   - Python API Development

o API Development using Azure Functions with Python (Client - Glorifi)

o Cosmos DB & Postgres DB used for Database Management

o Financial Solution Application for Banking, Insurance and Loans Management for Middle Class People in USA

o More than 100 APIs were built, tested or handled Natural Language Processing Model

o Reporting platform for farm/field intelligence

o Natural Language Processing based real-time question network building and recommending

o Python with Flask Web Framework

o API Development for Front-end requirements

Event Details

o Snowflake and Postgres DB over RDS were used
o Code Quality Control using Pylint and
o Code Coverage testing (unit testing) with Pytest

- Data Engineering

o Deployment & Development of AI based systems including NLP and Computer Vision Technologies
o Python Scripting for Machine Learning/Deep Learning Models
o Data Analysis & Visualization for Big Data Problems using Hadoop and Hortonworks
o Real-time Car Auction Data Scrapping for Analytical & Prediction Modelling (Client – Cars24)
o Smart Tutor Chatbot
o Tourism Package Prediction for targeted audience
o Stock Market Strategy Planner
o Computer Vision based Vehicle Parking System Assistant with Automatic Vehicle Registration
o Body Movement Identification using Artificial Neural Networks
o Bank Customer Segmentation
o Used-Car Price Prediction Models

- Mobile Applications

o E-Commerce Application for Art n Crafts (Android – Flutter)
o Mobile Link (MOLI) Application (Android – Flutter) (available on Google Play Store)
o IoT Umbrella (Android – Flutter)
- Mobile Application (Flutter)
- Server-Side Backend Configuration (PHP & MySQL)
o Smart Farm Mobile App (Android –Flutter)

Event Details

- Autonomous Bottle Filling and Packaging Channel
- 3D Scanning Robotic Machine (Jaipur Wax Museum)
- Real-Time Temperature Monitor & Alert (JCB, Jaipur)
- Gas Valve Controller & Monitoring System (Vedanta, Bokaro)
- Vision Based Smart Virtual Wall Switch (Application Level)
- Heat Exchanger Model for Conservation of Energy in Indoor Farming using PID Controller (Research)
- IoT Based Smart Health Care Monitoring System for Remote Places (Hardware Level)
- Automation System for Domestic Appliances using IoT (Application-Hardware-Network Level)
- Gesture Controlled Robotic Arm (Scholarship by DST) - (Hardware Level)
- Gesture Controlled Robotic Chair (Application-Hardware Level)
- Academic Projects (Application Level):

o Price Prediction Model,

o Ethical Character Identification using NLP,

o Vision based Smart Attendance System,

o Real-time object detection model,

o Face Recognition Model,

oSmart Traffic Rule Monitoring System with Number Plate Recognition using OCR,

o Facial Expression Recognition System

Event Details

- Countless Academic Projects in Hardware:
  - o Vision based Traffic Light Controlling System;
  - o Voice Controlled Robot;
  - o Car Security System using with SMS Alerts
  - o Spy RADAR Robot
  - o Smart Irrigation Systems,
  - o Wireless Servant Robot

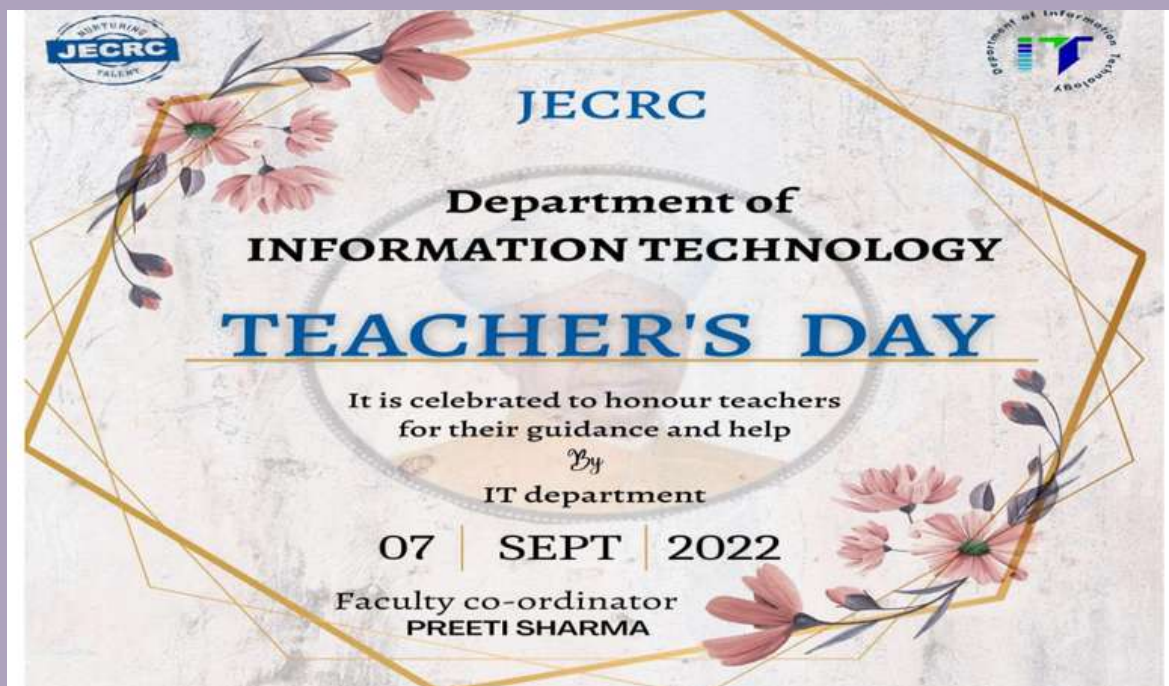# Glimpses of event

Glimpses of event

HAPPY TEACHER'S DAY!

Teacher's Day Celebration

WE APPRECIATE YOU

Organized By:

Department of Information Technology,
JECRC, Jaipur

Event Details

The influence of teachers extends beyond the classroom, well into the future." Teachers provide the power of knowledge and education and create possibilities for a better future. Recently, the Information technology department of JECRC College celebrated teachers' day with great zeal and enthusiasm in the college campus. The whole event was meticulously planned by the IT department.

The programmer commenced with an interactive session between all faculties of the department where they shared their experiences and aspirations. It was a great view as all faculty members were ecstatic and proud to be a part of the teaching fraternity. All members shared their life stories and achievements with one another and had a great time together.

The HOD of the IT dept. in her address urged the teachers to add value to their pedagogy through experiential learning and appreciated the efforts put in by the teachers but at the same time exhorted them to gear up to face the change of online to offline learning.

The programme unfolded with a cake cutting and thanks giving ceremony where all teachers were appreciated for the priceless impact they make in every students' life.

All teachers cheered and motivated their colleagues with a wide smile and warm aura. The entire programme was applauded by everyone present and will always remain a beautiful memory in the hearts of one and all present.

Event Details

He also stated that AI and ML technologies have been game-changers in every sphere of business, revolutionizing every function, from planning to organizing, operating, and controlling.
Mr. Sanam elaborated these two domains in detail which include its importance and scope.

Machine learning is the field of study that gives computers the ability to learn without being explicitly programmed. The algorithms that give computers the ability to learn from data, and then make predictions and decisions. The primary aim is to allow the computers to learn automatically without human assistance and perform actions accordingly. ML is a computer able to learn from experience without being specifically programmed.

During the Seminar, students learned about Cores of Data Analytics & Data Science with Learning Techniques. Machine Learning & Deep Learning are explained with Robust Algorithms.Various Libraries like numpy, pandas, matplotlib, seaborn etc. were discussed. Data is an asset for any organization/ industry, the confidentiality of data and network security always remains a priority and tremendous increase in e-commerce eventually increases the demand of professionals in this field.

Glimpses of event

Glimpses of event

हिन्दी दिवस

14th Sept, 2022

Organized by:-
Department of Information Technology
JECRC, Jaipur

Event Details

Hindi got an exalted status in India on September 14, 1949, when it was adopted as the official language of the country. Since then September 14 is celebrated as Hindi Diwas to pay tribute to the official language of India. Today, Hindi enjoys the status of RashtraBhasha. In today's highly commercialized environment, where people are forgetting their roots, Hindi Diwas plays a significant role. The celebration of Hindi Diwas stands as a patriotic reminder to Indian population of their common roots and unity.

On Hindi Diwas was celebrate the popularity of Hindi throughout the nation, Hindi Diwas is celebrated on 14th September each year .Hindi Diwas was celebrated by the Information Technology Department of JECRC Jaipur on 14 September 2022. Ms. KusumYadav was the Event Coordinator of Department (IT),as a part of the Hindi Diwas, the IT Department organized Poster making Competition .Dr.Barkha Shrivastava(Deputy Dean of I Year) Department of Chemistry(Head) grace and Judge the event. She also motivated the students about importance of Hindi Diwas in India. The winners of these events were awarded on this occasion. A total of 12 students of IT department participated in the event. In the competition Ms.Niharika of II year (III SEM) Secured 1st position and Mr.Devesh Swami of II year (III SEM) Secured 2nd position and Ms.Krishna Bansal Secured III Position in the Poster making competition and Remaining Participants were awarded with consolation prizes.

At the end the HOD of department "Mrs. Smita Agarwal" gave her presidential speech thanking everyone for their active participation and also the organizers, and everyone who worked for making this a success. She appreciated the judging panel and also all the participants for sharing their views with us.

Event Details

The competition was a huge success and was successfully completed with the help of Mrs. Kusum Yadav (Faculty Coordinator) and Ms Krishna Bansal, Ms.Krati Mathur and Ms.Jyoti Mishra are the (Student Coordinator) under the guidance of Dr. Smita Agarwal(HOD, IT Department).
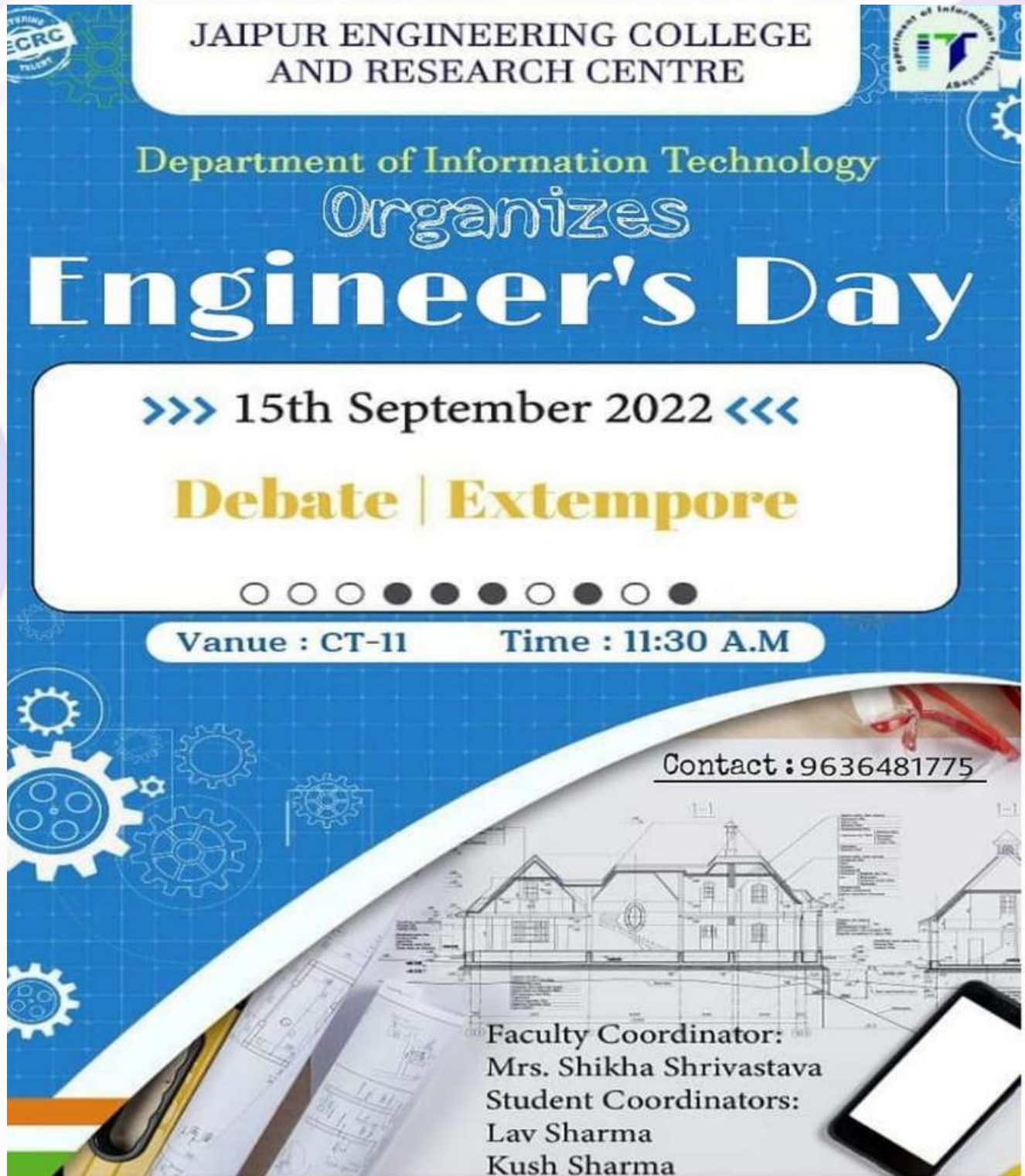
Glimpses of Event

15th Sept, 2022

Engineer's Day Celebration

Organized by:
Department by Information Technology
JECRC, Jaipur

Event Details

The department of Information technology celebrated the Engineers day with full of enthusiasm on 15th September, 2022. We organized the "War of Words" competition to increase the oratory skills in the students of JECRC Foundation.

This is a competition conducted to bring out the talents in the students and to take it to the next level. All the necessary arrangements for the participants were arranged in the college where the competition was held.

The competition involved an active participation of students where an individual shared their thoughts to effectively convince a judge that their side of a resolution or topic is, as a general principle, more valid. All the participants were extraordinarily skilled and they gave a tough fight to each other. One could actually see the future leaders in the contestants.

There were so many notable points presented by each individual but the point presented by the winner was the game-changer.

The competition was judged by Dr. Krishna Kumar Saini (Hod, CE) and Ms. Sonia Khoobchandani (Asst. Professor, English Department). The competition was held in CT-11, C Block. All participants' points presented were accepted by the spectators with cheers and claps.

Glimpses of Event

Glimpses of Event

9 th-10th
November 2022

Workshop
On
"Security Issues in
Cloud Computing"

Organized By:
Department of Information Technology,
JECRC, Jaipur

Event Details

This 2-day workshop is on cloud computing that includes Amazon web services as it's main platform which has gained most popularity till now. We will learn some fundamentals of cloud.

User Case:

Why Disney+Hotstar never fails to live more than 2 cr. People while IND vs PAK cricket match?

Why all the servers run smoothly even with these large no. of users live on their platform?

Let's learn how:

We are covering below services of AWS to learn this scenario: –

Day 1: –

- Elastic cloud computing
- Servers

- Volumes
- Website hosting

Day 2: –

- Load balancing

- Auto scaling

Outcome of day 1: –

1. We learn about how a server is created using compute resources like RAM, Operating system, Storage, and all those
things which are necessary to create a virtual pc.

2. We learn about multiple types of volumes used for different purposes.

3. We learn about how to access a virtual server created by us.

4. We learn about multiple operating systems to be used in vServer.

Outcome of day 2: –

1. We learn about their performance.

2. We learn how to control traffic.

3. We learn about how we route traffic on multiple servers.

4. We learn about, how servers are auto scaled for better performance.
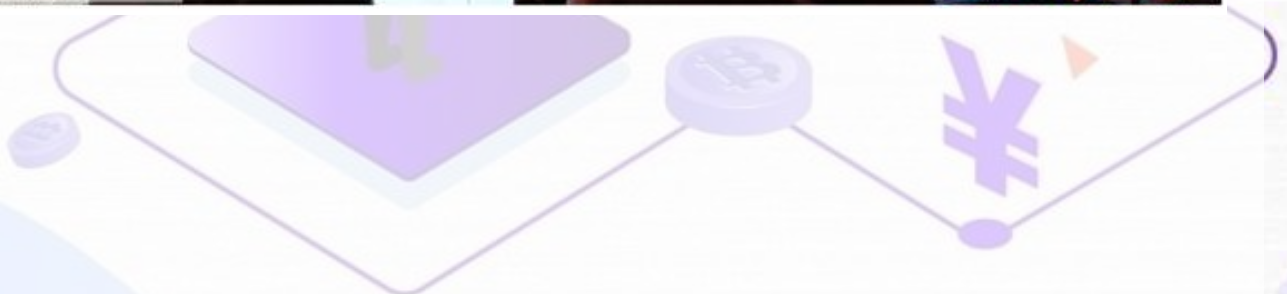
Speaker's Profile

Mr. Ashutosh Singhal

An epistemophilic by nature, interested in broadening the horizons in the field of Computer Science and Information Technology by offering advanced knowledge of Cloud designing, Solution Architect, and software deployment support shown over three years of related experience.

Working Experience

- Chief information officer & Cloud Trainer
- REGex Software Services
- Cloud Architect, Manager 3Handshake Innovation Pvt. Ltd
- Solution Architect Engineer Amazon Web Services
- Cloud Sales Engineer
- Redington (India) pvt. Ltd.
- Corporate Trainer

Event Gallery

Latitude: 26.781101
Longitude: 75.819191
Elevation: 388.65±24 m
Accuracy: 3.7 m
Time: 09-11-2022 10:35
Note: JECRC 501

Powered by NoteCam

Latitude: 26.781141
Longitude: 75.819164
Elevation: 388.35±24 m
Accuracy: 3.9 m
Time: 09-11-2022 10:35
Note: JECRC 501

Powered by NoteCam

Event Gallery

8th Dec. 2022

Expert Talk
On
"Non-linear Data Structures"

Organized By:
Department of Information Technology,
JECRC, Jaipur

Event Details

The session started at 10:00 am by welcoming the guest Dr. Prakash Ramani. In the session Dr. Prakash Ramani gave a brief introduction about Data Structures and its types. After introduction, discussion about linear and non-linear data structure was done. The major part of discussion was focused on non-linear data structure i.e. Tree. The session was comprised of Binary Tree

definition and types. Moving forward Dr. Ramani made clear differentiation between Binary Search Tree and AVL Tree. All the rotations to make AVL balanced tree were discussed. The honored Professor solved many examples to help students. The session was very interactive and knowledgeable.

Faculty Coordinators:
1. Dr. Smita Agrawal [HoD(Information technology), JECRC Jaipur and Event Coordinator]
2. Dr. Prakash Ramani [Guest Speaker of the Event]
3. Ms.Shikha Shrivastava [Faculty Coordinator]

Student Coordinators:
1. Jyoti Mishra [II Year Student]
2. Neha Khandelwal [II Year Student]

Event Gallery

Expert Talk
on
"Android Development"

Organized By:
Department of Information Technology,
JECRC, Jaipur

Speaker's Profile

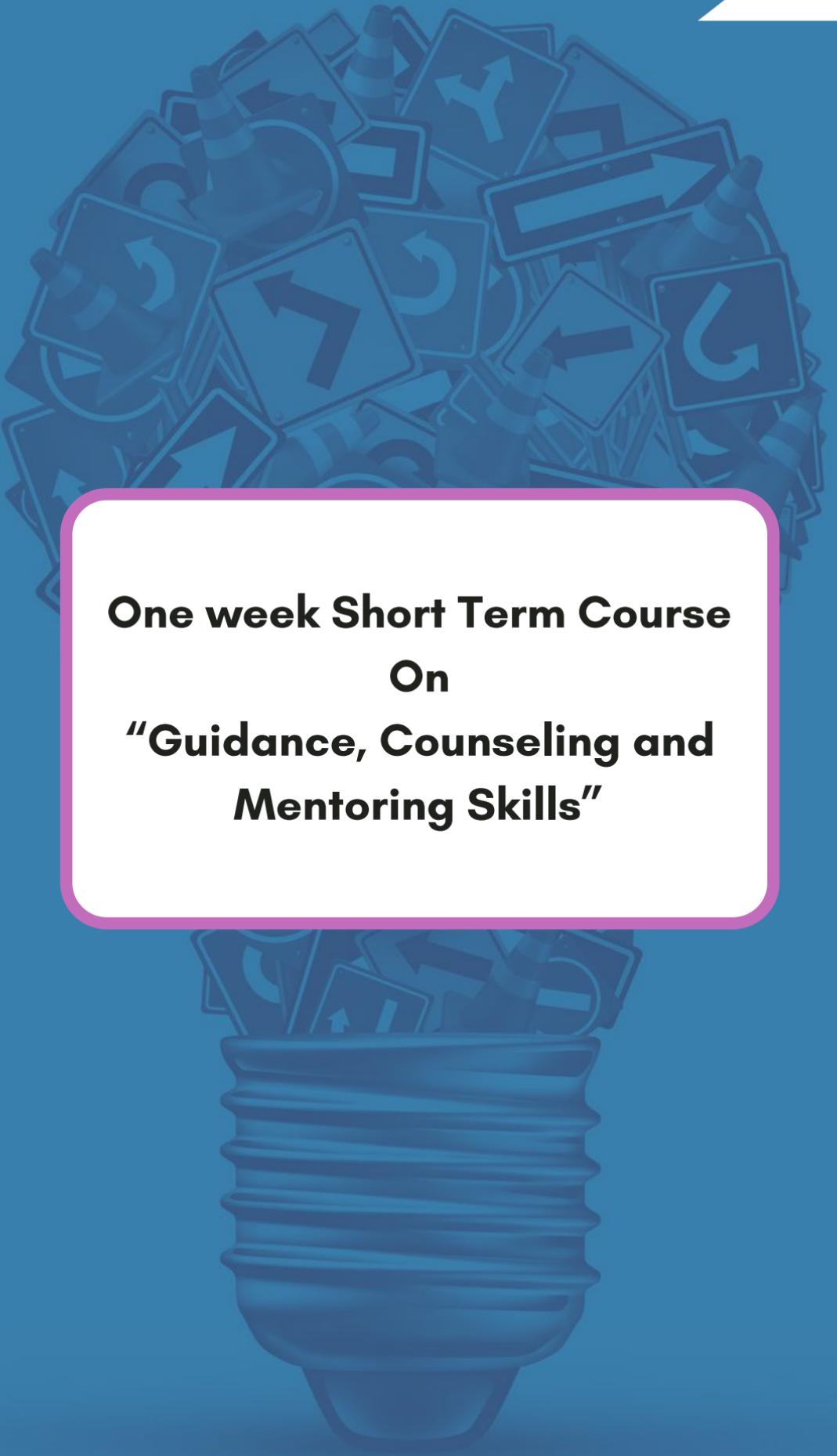

Mr. Gajendra badra

Sr. Developer
Training and development

He is from Kaizen Innovation, Jaipur. Kaizen Innovation is a concept that renders you CAD/CAM/CAE aspirations. Our services include consulting, designing & training in variegated disciplines of engineering. Understanding young prerequisites, our professionals come up with solutions based on modern approach & demand. Domains included in our training programs are: Civil Engineering, Mechanical Engineering, Electrical Engineering, Computer Science & Information Technology. Our interactive courses assure better learning and understanding with hands-on training & 100% job assistance. Our Designing & Consultancy facilities embrace Architectural Planning with Vaastu, 2D/3D Architectural Designing and Construction guidance. We assist in b/w the process of your dream & its construction.

Event Gallery

One week Short Term Course On
"Guidance, Counseling and Mentoring Skills"

Organized By:
Department of Information Technology,
JECRC, Jaipur

Event Details

Target Audience:

The program is targeted towards the faculty/ Administrative Staff of Engineering Colleges and Polytechnics.

Resource Persons:

Faculty from NITTTR, Chandigarh, experts/academicians from IITs & NITs.

This report aims to discuss about the Five days Short Term Course on "Guidance, Counseling and Mentoring Skills" scheduled from 27/03/2023 to 31/03/2023 at NITTTR, Chandigarh coordinated by Prof. Parmod Kumar Singla through contact mode as well as online mode. In this FDP many institutions participated along with JECRC Foundation.

On the very first day there was an inaugural session followed by full-fledged information, regarding following point are covered during the STC are as below:

Guidance and Counseling – Concept and Significance

- Developing Placement Skills
- Roles of Mentor and Mentees in an Institute
- Guidance and Counseling – Tips for Faculty
- Ethics and Values
- Emotional Intelligence
- Health and Happiness
- Effective Communication
- Inter-Personal Relations
- Stress Management
- Motivating Self and Others
- Positive Attitude
- Time Management
- Valediction/Feedback

Speaker's Profile

Prof. Parmod Kumar Singla

Associate Professor

Qualifications:

M.E.(Civil Engineering) from Panjab University, Chandigarh

B.E.(Civil Engineering) from Thapar University, Patiala, Punjab

Contact Detail:

Dept. of Curriculum Development,NITTTR, Chandigarh-160019

Email :

pksingla@gmail.com.

Phone No. :

0172-2759567

Fax No:

0172-2791366

Research Interests:

Curriculum, Communication Skills, Management, Appropriate Technology for Rural Development, Education And Education Management, Entrepreneurship Development, Civil Engineering, Personality Development, Soft Skills.

Speaker's Profile

Dr. U.N Roy

Professor

Qualifications:

Ph.D.(Watershed Management) from Panjab University Chandigarh
MBA(Rural Development)B.Sc.(BSc Physics Hons)

Contact Detail:

Dept. of Rural Development,NITTTR, Chandigarh-160019

Email :

unroy2000@yahoo.com

Phone No. :

:0172-2759539

Fax No. :

0172-2791366

Research Interests:

Watershed Management, Appropriate Technology, Organic Farming, Integrated Rural Development, Climate Change and Sustainable Development, Skills Promotion and Rural Artisans Development, Water and Sanitation Technologies.

Speaker's Profile

Prof. Parmod Kumar Singla

Associate Professor

Qualifications:

M.Tech.(Environmental Engg.)B.Tech.(Chemical Engg.)

Contact Detail:

EMGT Department,NITTTR, Chandigarh-160019

Email :

pksingla@gmail.com.

Phone No. :
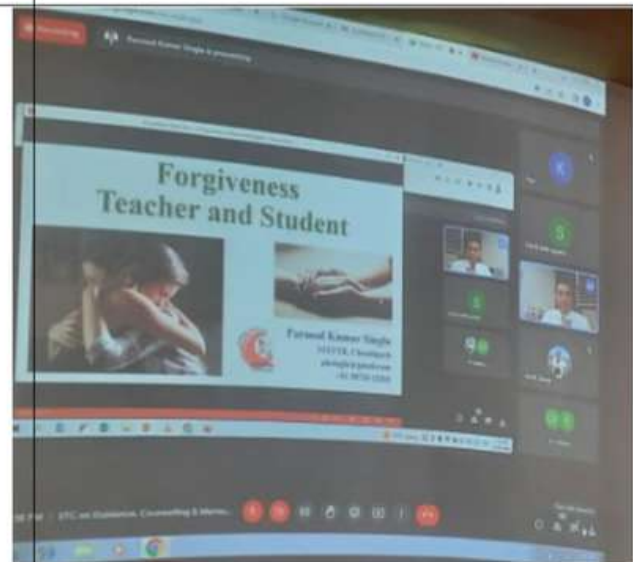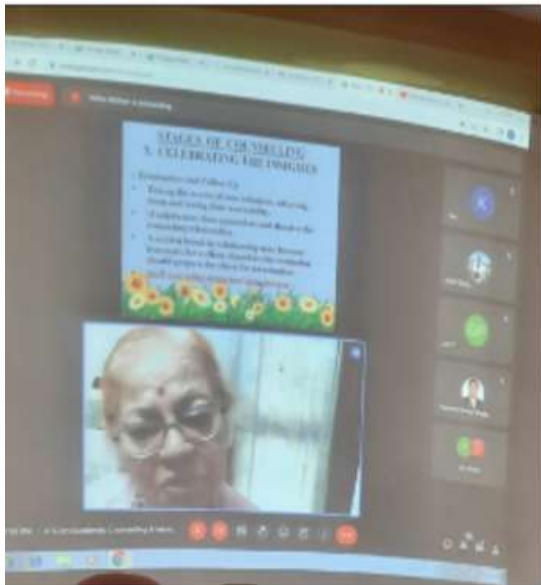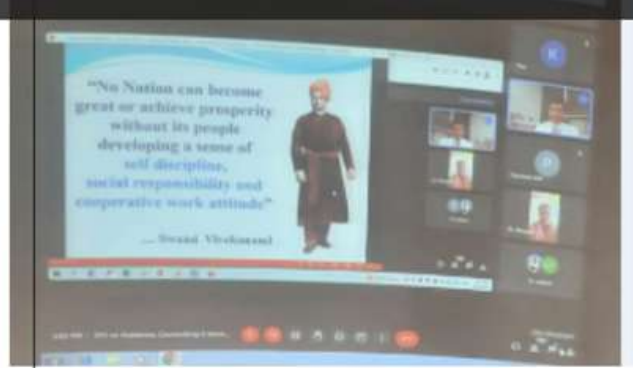
0172-2759776

Glimpses of Event

5TH National Conference on Information Technology and Security Application (NCITSA-2023)

Conference Chair -
Dr. V.K. Chandna

Conveners -
Dr. Smita Agarwal
Md. Rizwaan Khan

Co-Convener(s) -
Ms.Deepika Bansal

Organized By :
Department of Information Technology
JECRC, Jaipur

JECRC
JAIPUR ENGINEERING COLLEGE
AND RESEARCH CENTRE

Brochure

About JECRC Foundation

The National Society for Education Research and Development was set up and registered in the year 1999 in Jaipur with the major objective of providing quality education and research environment in Rajasthan. Keeping this objective in view the pioneers in the field of education implanted JECRC Foundation in the year 2000. With the remarkable success the foundation achieved within a short span of time, today it has three institutions that conducts UG, PG and Ph.D programs in several disciplines duly approved by the UGC and AICTE, Government of India with the student strength exceeding 10000. The Foundation has an active collaboration with several industries. Our alumni have been placed in industries of repute and have also been pursuing higher studies abroad at prestigious universities. The foundation has the legacy of nurturing the essence of growth in education with the prime focus being holistic development of the students, thus becoming the most preferred choice for students with a variety of academic pursuits.

About IT Department

The department of Information Technology was established in 2001. The department aims at developing the technical skills among students. To accomplish this we organized many events like Hackathon, Ideathon, SIP expo, and many different seminars and workshops to enhance the skills and overall personality of students. To enhance the entrepreneurship skills and research areas IT department has established excellence in teaching and learning. The department not only focuses on technical skill but also provides them with areas with different educational opportunities and support groups which help in developing technical as well as non-technical awareness. The fundamental aim of department is to provide students with each and every opportunity.

About Conference

NCITSA is a conference to be held in JECRC. It aims at bringing together the researchers and practitioners from academia, industry and government to deliberate on the algorithms, systems, applied, and research aspects of digital applications. National Conference "NCITSA-2023" is organized with a vision to address the various issues to promote the creation of intelligent solutions in future. It is expected that researchers will bring new prospects for collaboration across disciplines and gain ideas facilitating novel concepts. NCITSA-2023 is a premier conference, organized by the Department of Information Technology on May 15-16, 2023 at JECRC, Jaipur.

Chief Patron

Shri O.P. Agrawal, Chairman, JECRC Foundation

Patron(s)

Shri M. L. Sharma, Vice Chairman, JECRC Foundation
Shri Amit Agrawal, Director, JECRC Foundation
Shri Arpit Agrawal, Director, JECRC

Conference Chair

Dr. V. K. Chandna, Principal, JECRC

Technical Program Committee Chair(s)

Prof. A. K. Diwedi, Professor, CSE, RTU, Kota
Prof. Surendra Yadav, Dean, CP University, Kota
Dr. Maninder Nehra, HOD, CSE, Bikaner
Dr. Gaurav Somani, Associate Professor, CSE, Central University, Ajmer
Dr. Priyanka Mishra, Assistant Professor, CSE, IIIT Kota
Dr. Mushtaq Ahmed, Associate Professor, CSE, MNIT Jaipur
Dr. Ashish Sharma, Assistant Professor, CSE, IIIT Kota
Dr. O.P Rishi, Associate Professor, CSI, UOK, Kota
Dr. Jyoti Grover, Assistant Professor, CSE, MNIT, Jaipur
Dr. Harish Sharma, Associate Professor, CSE, RTU, Kota
Dr. Harish Sahu, Scientist, DRDO
Dr. Prakash Ramani, Professor, CSE, Manipal University, Jaipur
Dr. M. P. Singh, HOD, Dept. of ME, JECRC, Jaipur
Dr. Ruchi Mathur, Dean 1st year, JECRC, Jaipur
Dr. Sandeep Vyas, HOD, Dept. of ECE, JECRC, Jaipur
Dr. Sanjay Gour, HOD, Dept. of CSE, JECRC, Jaipur
Dr. Krishan Kr. Saini, HOD, Dept. of CE, JECRC, Jaipur
Dr. Prerak Bhardwaj, HOD, Dept. of EE, JECRC, Jaipur
Dr. Manju Vyas, HOD, Dept of AI&DS, JECRC, Jaipur
Prof. Mukt Bihari, Director HR, JECRC, Jaipur
Mr. Manish Jain, Dy. Director, JECRC, Jaipur

Convener(s)

Dr. Smita Agrawal, Professor, IT, JECRC
Mr. Mohd Rizwan Khan, A. P., IT, JECRC

Co-Convener(s)

Ms. Deepika Bansal, A. P., IT, JECRC

5th National Conference On Information Technology & Security Applications (NCITSA-2023)

(May 15th-16th, 2023)

Technically Supported By
IJAC ONLINE (UGC Approved)

Organized by

Department of Information Technology
Jaipur Engineering College and Research Centre, Jaipur
http://www.jecrcconference.in/ncitsa/

In Association with

JAC

Jaipur Engineering College and Research Centre
Shri Ram ki Nangal, via Sitapura RIICO
Tonk Road, Jaipur-302 022, Rajasthan
Ph No. 0141-2770120, 2770232

Brochure

Objective of the Conference

- To provide an exceptional platform to academicians, researchers and students to converse and share the ideas.
- To meet and discuss the practical solutions, scientific results and methods in solving various problems with people who are actively involved in emerging research fields.
- To focus on the recent technological developments in all the areas of Information Technology.

Conference Tracks

Track 1: Information Security

Track 2: Big Data

Track 3: Cloud Computing

Track 4: Soft Computing

Track 5: Virtual Communities and Social Networking

Track 6: Artificial Intelligence

Track 7: Computer applications

Track 8: Machine Learning, Modeling & Simulation

Guidelines for Paper Submission

Prospective authors are invited to submit manuscripts reporting original unpublished research and recent developments in the topics related to the conference. It is required that the manuscript follows the standard IEEE camera-ready format. Regular papers should present novel perspectives within the general scope of the conference. The conference only accepts full manuscripts with maximum 6 pages.

Submission of paper must be original and should not have been previously published or under consideration for publication. All papers will be sent for peer review and the corresponding author will be notified of the outcome of the review process. At least one of the authors of each accepted paper must register for the conference and present their paper in person at the conference. All submissions are to be done electronically through email ID of NCITSA-2023

Important Dates

Last Date for	Date
Submission of Manuscript	04/05/2023
Acceptance Notification	08/05/2023
Submission of Camera Ready Paper	11/05/2023
Registration	12/05/2023

Keynote Speakers

- Dr. Neha Chaudhary, Prof & Head, Department of CSE, Manipal University, Jaipur
- Dr. Prathistha Mathur, Prof Department of Information Technology, Manipal University, Jaipur

Paper Publication Details

The submitted papers will go through a competitive review process and the accepted papers will be considered for oral presentation and published in the following journal:

- IJAC Online [ISSN:0973-2861] – International Journal Of Analysis and Computationhttp://www.ijaconline.com/

Paper Submission Link:

EasyChair
The world for scientists

https://easychair.org/my/conference?conf=ncitsa23

OR

ncitsa@jecrc.ac.in

Online Payment Account Details

Participants should make their payment through Net Banking/DD/ Cash to payable at Jaipur and send to Organizing Secretary (NCITSA- 2023) JECRC, Jaipur on Following Details-

PAYEE: JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTRE

Bank Name: ICICI Bank Ltd

Branch: JAIPUR BMCHRC Branch

A/C No.: 674805600220

IFSC Code: ICIC0006748

Contact Person (s)

Dr. Smita Agrawal, Convener NCITSA-9928023107

Mr. Mohd Rizwan Khan, Convener NCITSA-9

Address for Correspondence

Dr. V. K. Chandna, Principal
Jaipur Engineering College & Research Centre
Shri Ram Ki Nangal, Via Sitapura RIICO, Opp.
EPIP Gate, Tonk Road,
Jaipur- 302022 (Rajasthan)

Registration Fees

Category	Amount
Research Scholars/Students	INR 750/-
Author from India	INR 800/-
Author from other countries	$50
Attendee	INR 500/-

Participants should make their payment through online/ DD/ Cash, in favor of Jaipur Engineering College and Research Centre, payable at Jaipur and send to Organizing Secretary (NCITSA- 2023) JECRC, Jaipur.

Event Details

The Department of Information Technology, JECRC, Jaipur, India is exultant to offer NCITSA-2023, a National Conference highlighting recent trends and development in science, engineering and technology in today's world.

Paper Submission

We invite researchers around the world to submit original, unpublished high quality research papers in the format as prescribed on the website

https://easychair.org/conferences/?conf=ncitsa23

The submissions are handled through the official conference email ncitsa@jecrc.ac.in

(Paper Submission Deadline 30TH April 2023)

Conference Tracks

Ø Big Data   Ø Cloud Computing
Ø Soft Computing   Ø Virtual communities and Social networking
Ø Artificial Intelligence   Ø Computer Application
Ø Machine learning, Modeling and Simulation
Ø Information Security

Keynote Speakers

- Dr. Neha Chaudhary, Prof & Head, Department of CSE, Manipal University, Jaipur
- Dr. Prathistha Mathur, Prof Department of Information Technology, Manipal University, Jaipur
- Dr. Kusum Lata Jain ,Associate Professor at Manipal University Jaipur.

Keynote Speaker's Profile

Dr. Neha Chaudhary

Professor & HOD

Dr. Neha Chaudhary has received her Ph.D. from Gautam Buddha University, Greater Noida in 2016, MTech. from GGSIP University, Delhi in 2009 and B.E. from Rajasthan University in 2004. She has a rich and diversified experience of more than 18 years in Industry and academics. She has been associated with Manipal University Jaipur since July 2017. Since 2019 she was associated with the directorate of Academics and she had a vital role in the development of the Student and Faculty portal and University ERP.She has been associated with 2 lifecycle implementations of ERP at Manipal University Jaipur. She started her career as a functional consultant for SAP in DCM Shriram Consolidated Ltd. and then joined Rajasthan Technical University for a brief period. She was associated with JSS Academy of Technical Education, Noida for 7 years. Prior to joining MUJ she headed the Department of Computer Science & Engineering at Vivekananda Institute of Technology, Jaipur.

Keynote Speaker 's Profile

Dr. Kusum lata Jain

Assistant Professor

She has more than 12 years of experience in the software industry, Academics, Research and Training. Prior to Manipal University Jaipur, she worked with Banasthali Vidyapith, Mody University Laxmangarh handling various administrative and academic assignments. She has done her Ph. D. in Computer Science from Banasthali Vidyapeeth. Her research area is Wireless Sensor Network, Internet of Things, Computer Networks and Network Security. She has published more than 25 papers in repute journals and presented many papers in national and international conferences. She is executing projects from Industry and Government of Rajasthan. She supervised many undergraduate and post graduate student projects and Ph.D. research scholar. She is Member of ACM and CSI.

Keynote Speaker 's Profile

She joined Manipal University in 2016, prior to it, she was working as an Associate Professor at Banasthali Vidyapith. She had an experience teaching and research of about 25 years. She has done her Ph.D.in computer Science from Banasthali Vidyapith in 2012. She did her M.Tech.in computer science also from Banasthali Vidyapith in 1998 and secured the gold medal. Her Research areas are Digital Image Processing, Soft Computing and Machine Learning. She has supervised 5 and 6 on-going Ph.D. students &more than50 masters and UG students for thesis and project work. She has also been worked in the area of Indian language computing and associated with many funded projects of MCIT, DOE Rajasthan, DST Rajasthan. She has published more than 50 papers in international and national journals and conferences. She has also attended more than 25 workshops and trainings. She is associated with professional societies like Senior-member of IEEE, USA, Life member of CSI, Member of ACM-India etc.

Glimpses of Event

Advisors

Dr. Smita Agrawal
(Head Of Department)

Ms. Kusum Yadav
(Associate Professor)

Faculty of
Department of Information Technology

Mr. Naveen Kumar Kedia
Assistant Professor

Mr. Piyush Gautam
Assistant Professor

Ms. Shika Shrivastava
Assistant Professor

Md. Rizwan Khan
Assistant Professor

Ms.Preeti sharma
Assistant Professor

Faculty of
Department of Information Technology

Ms. Deepika Bansal
Assistant Professor

Mr. Brijesh Kumar Singh
Assistant Professor

Mr. Rohit Chabbra
Assistant Professor

Team Members

Subrat Shukla
IV year

Nidhi agrawal
III year

Neha Khandelwal
III year

Thank you

Department of Information Technology

JAIPUR ENGINERRING COLLEGE AND RESEARCH CENTER

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