

GIT TECHNIDO-2022

ISSN 2583-4002 GIT-Technido



GLOBAL
INSTITUTE OF TECHNOLOGY

20 YEARS OF EXCELLENCE



ANNUAL TECHNO-CULTURE MAGAZINE



NAAC
ACCREDITED



A RANK BY
RTU

nirf NATIONAL
INSTITUTIONAL
RANKING
FRAMEWORK



SEAT MATRIX

BACHELOR OF TECHNOLOGY	INTAKE
COMPUTER SCIENCE & ENGG.	240
ARTIFICIAL INTELLIGENCE & DATA SCIENCE	60
INFORMATION TECHNOLOGY	60
CIVIL ENGINEERING	60
ELECTRICAL ENGINEERING	60
MECHANICAL ENGINEERING	60
MASTER OF TECHNOLOGY	INTAKE
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ABOUT GIT



Global Institute of Technology was established in year 2002 by Kandoi Group of Companies. The group is committed to facilitate technical education in the state of Rajasthan by implementing globally competitive education standards. GIT enjoys the privilege of being the first private engineering college in North India to be accredited twice by NAAC-UGC. GIT has been pioneering technical education for last two decades and has been consistently ranked among the top private engineering colleges of Rajasthan since its inception. GIT is an innovative and inspiring place to study and prides itself on preparing students for their future. Your educational experience at GIT will be truly memorable. By choosing GIT, you'll enjoy an excellent standard of teaching and study alongside other motivated and driven young professionals who are hungry to learn and eager to make a difference.

VISION & MISSION

Our Vision

To contribute to human development through academic pursuits and be a trendsetter in the field of Technical Education.

Our Mission

To establish world-class high quality learning environment by way of developing value based education system, powered by brilliant professionals and leaders in the field of engineering.



“We are committed to mobilizing GIT college’s intellectual, human and financial resources to fully realize our promised dreams”...

From Chairman’s Desk

The GIT College is a legendary place and home of some of the most accomplished academic leaders. Taken as a whole, the faculty has a record of achievement that is unmatched in academia. Our faculty members are passionate, curious, energetic and are working to explore fundamental questions that posed in the service of expanding knowledge. This institution emphasizes on inquiry and discovery that sets it apart from its peers and has sustained its excellence over more than 20 years.

Venturing beyond our leafy, serene campus, the students find themselves in the heart of Jaipur. The college offers a generous stipend to the selected meritorious students.

The act of creating something truly novel occurs so rarely that it is seldom followed by another such act. We are committed to mobilizing GIT college’s intellectual, human and financial resources to fully realize our promised dreams.

Shri Raj Kumar Kandoi
Chairman
GIT Jaipur



“It gives me
immense
pleasure to
experience
the warmth
of this
literary
tradition”...

From CEO's Desk

I congratulate the editorial team for bringing out yet another edition of the annual college magazine “GIT-TECHNIDO-2022”.

As CEO of the institution ,I am proud of the commitment of the faculty to the holistic development of young engineers towards which our efforts remains focused.

My best wishes are with Principal ,HODs , faculty and the students of our institution.

Happy Reading!

Shri Naman Kandoi
Secretary & CEO
GIT Jaipur

From Principal's Desk



“I wish for the different voices from this platform to make the presence of this effort felt far and wide”.

It gives me immense pleasure in bringing out Annual Magazine TECHNIDO-2022. GIT is among the reputed technical institutions imparting finest quality technical education. The evolution of the institute over the past 20 Years has witnessed strong blend of state-of-the-art infrastructure and intricately intertwined human resource committed to provide professional education with thrust on creativity and innovation.

The motivating environment in GIT for knowledge assimilation, generation and dissemination with a sense of social responsibility, human values and concern for environment has carved a place for itself among the best technical institutes.

In GIT, it is believed and practiced that excellence is a continuous process and in pursuit of which the institute has made deep forays into contributing world renowned technocrats, successful entrepreneurs, competent leaders, innovative scientists and researchers. I wish our TECHNIDO-2022 continue to inspire and support the cause of quality education and bring out the achievements and talents among the student community.

Dr. I.C. Sharma
Principal
GIT, Jaipur

From Executive Director's Desk



Shri Manoj Kumar Mahla
Executive Director
GIT Jaipur

Warm welcome to the publication group for distributing the GIT yearly “GIT-TECHNIDO-2022”. It is a matter of great pleasure for me to go through the wonderful contributions made by the students and staff. This magazine is intended to bring out the hidden literary talents in the students and the teachers and to inculcate leadership skills among them.

The outside world will come to know about the caliber of the students through this magazine. I extend my sincere thanks to all the contributors for their articles, poems, and drawings. “GIT-TECHNIDO-2022” is a perfect fusion of faculty and students achievements. The writeups, articles, art photography, personal experiences, and wonderful memories of people reflect their creativity and potentiality. Students are like clay in our hands. Like a sculptor, we can carve their personalities as well as behavior. This magazine enlightens our growth and gives life to our thoughts and manifests. I congratulate the entire “GIT-TECHNIDO-2022” team for their dynamic work that has resulted in bringing out this magazine. across the GIT college, the nation and the world campaign to achieve academic excellence and contribute for the benefit of humanity.

From VP-Marketing & Liaising Desk



Shri Praveen Sharma
VP-Marketing & Liaising
GIT Jaipur

It gives us immense pleasure to bring out the college magazine “GIT-TECHNIDO-2022”. This magazine has been an effective platform for students and staff to express their talents and hidden skills.

We would like to take this opportunity to express our sincere thanks to all the Trustees ,Principal, HODs and Faculty members of GIT.

We thank the Editorial Board Members for their Informa suggestions and advice. We are indebted to the student members of the Editorial Board for their seamless efforts in bringing out the magazine in a colorful way.

From Editor's Pen



Mr. Pankaj Jain
Assistant Professor
Computer Science &
Engineering

“Education is not the learning of the facts but the training of the mind to think”, said Albert Einstein. In unison with the harmonious blending of ideas, I feel honored to be associated with the team including the Magazine Committee members, teachers representing different departments and students from various streams who together have made GIT-TECHNIDO-2022 see light of the day. I wish for the different voices from this platform make the presence of this effort felt far and wide. After a few years’ hiatus, the college magazine has again emerged and the credit for this achievement goes to all who have contributed in making this possible.

Editorial Board



Mr. Pradeep Jha
Head of Department
CSE



Mr. Ghanshyam Mishra
Head of Department
ME|CE



Mr. Ravi Hada
Head of Department
EE | EC



Mrs. Sushila Mahla
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1st Year



Mr. Santosh Kumar
Assistant Professor
CSE



Mr. Amit Kumar
Assistant Professor
CSE



Mrs. Pratima Dwivedi
Assistant Professor
1st Year



Yash Sharma
Student
3rd Year



Khushi Bansal
Student
3rd Year

From Desk of Head of Department



Mr. Pradeep Jha, Head
Department of CSE

The Department of Computer Science & Engineering is committed towards imparting quality education and developing future technocrats in the stream of computers. It is focused towards its mission of facilitating students progress by providing strong foundation in fundamental concepts as well as inculcating core values of professionalism and ethics. Our Aim is to improve the quality of student's result, to inculcate the right Domain skills required in Computer Science & Engineering, to create passionate students heading towards self actualization and to promote creative problem solving related to societal needs.

The Department is pillared by the qualified and experienced faculty and backed by the student centered teaching learning processes. The department presents them with plenty of opportunities for applying their acquired knowledge and critical thinking skills, thus striving to provide a bridge between the theory and the practice.

Mr. Pradeep Jha
Head of Department
Department of Computer Science & Engineering

Department of Computer Science & Engineering



About Department

This Department deals with both software and hardware aspects of computer that provide ways to speed up and optimize the work not only of the industry but also of common people.

It deals with the development, utilization, inter-relations and confluence of computers, networking, telecommunications and technology management in the context of global interests.

Presently it has a vast potential of job opportunities within and outside the country.

Salient Features

GIT Jaipur brings excellent opportunities to the CSE students, thanks to their industry-specific curriculum, skilled and trained faculties, world-class infrastructure, modern equipment units in the laboratory, and so on. Throughout the four years of the course plan, you will study different subjects concerning computer science topic. You will gain knowledge about software and hardware, so you can have better chances of getting your dream job in several companies.

VISION MISSION



VISION

The vision of the department of Computer Science & Engineering is to be recognized as trendsetter of its undergraduate program through focus on core competencies multidisciplinary collaborations and quality in education.

MISSION

The mission of the Department of Computer Science & Engineering is to produce highly qualified, well formed and motivated graduates possessing fundamental knowledge of engineering practices and research of computer science & engineering who can provide leadership and service to our nation.



Departmental Activities

3rd International Conference on Data Science & Engineering Applications (DSEA-2022) on 15th - 16th April 2022

General Chair 1: Dr. Ajay Nehra, IIIT Kota | Dr. Ashish Kumar, Manipal University Jaipur | Dr. Swapnesh Taterh, Amity University | Dr. Dinesh Yadav, Manipal University Jaipur

3rd International Conference on Data Science & Engineering Applications (DSEA-2022) organized by Department of Computer Science & Engineering, Global Institute of Technology, Jaipur Rajasthan, India in association with Rajasthan Technical University, Kota, Rajasthan, India and CSI, India on 15th - 16th April 2022 with conference proceeding (ISBN No: 978-81-956107-1-6) and International Journal of Global Research in Science & Technology (IJGRST), ISSN: 2455-3832 (<http://ijgrst.gitjaipur.com/>) as a publication.

CONFERENCE COMMITTEE

Honorary Patron

Sh. M. L. Kandoi, Founder-GIT

Chief Patron:

Sh. Rajkumar Kandoi, Chairman-GIT

Patron

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Dr. Ajay Nehra, IIIT Kota

Dr. Ashish Kumar, Manipal University Jaipur

Dr. Swapnesh Taterh, Amity University

Dr. Dinesh Yadav, Manipal University Jaipur

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Dr. R.P. Kushwah, Professor-CE, GIT

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Mr. Loveleen Kumar, Asst. Professor-CSE-GIT

Mr. Sohan Lal Gupta, Asst. Professor-CSE-GIT

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INTERNATIONAL CONFERENCE
ON

“Data Science & Engineering
Application”
(DSEA-2022)

ISBN Number :- 978-81-956107-1-6

15th - 16th April 2022

Organized in Virtual Mode by
Department of Computer Science &
Engineering



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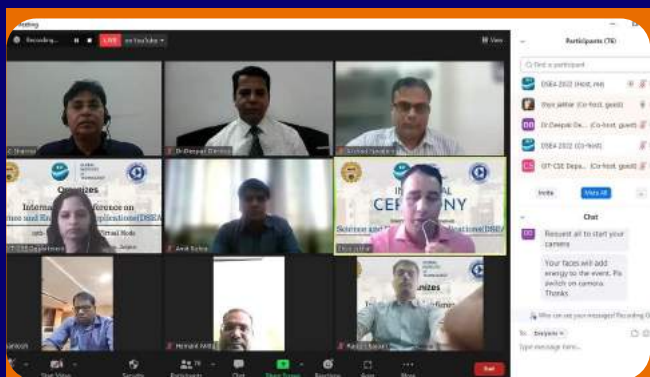
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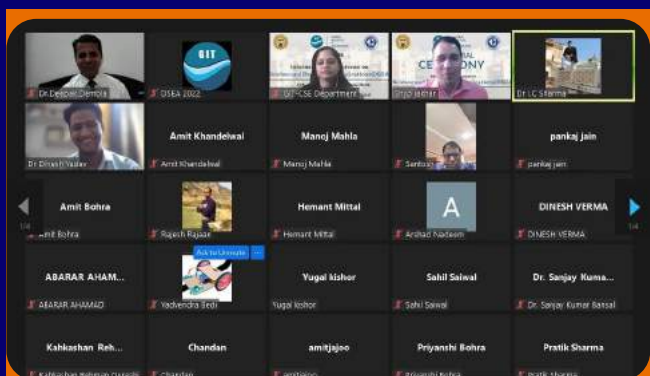
Departmental Activities



Inaugural Session on 15th April



Addressing to Guest on 15th April



Paper Submission by Scholars



Presentation on The Talking Hand



Paper Presentation on Data Science



Presentation on Data Science

Departmental Activities

6 Days Workshop on Mobile Application Development organized on 7th-12th April, 2022

A 6 days workshop on “Mobile Application Development “under Department of Computer Science and Engineering of GIT Jaipur, held on 7th April, 2022 (Thursday) to 12th April, 2022 (Tuesday). The session was organized by Global Institute of Technology in collaboration with TechieNest (Learn and Build) for engineering undergraduate students and faculties of all branches.

This session aimed to provide the awareness of development of mobile applications. The program will help the participants to learn the principles of mobile applications and to understand the development of android & ios application in mobile and also in web browser. In the session there are five trainers in the workshop namely Saurabh Bhardwaj, Mukul Shandilya, Nitin Patel, Priyansh Jain and Shubham.



 **Global Institute of Technology**
Presents
6 Days Workshop
on
Mobile Application Development
in Collaboration with
Techienest
07-12 April 2022



Venue:
Audi:-02 GIT
Campus

 **TechieNest**
Transforming Engineers to Technocrats

LiB
Learn and Build

Departmental Activities



Session Introduction and Installation



Session Hello Application Design,
Activity Intent



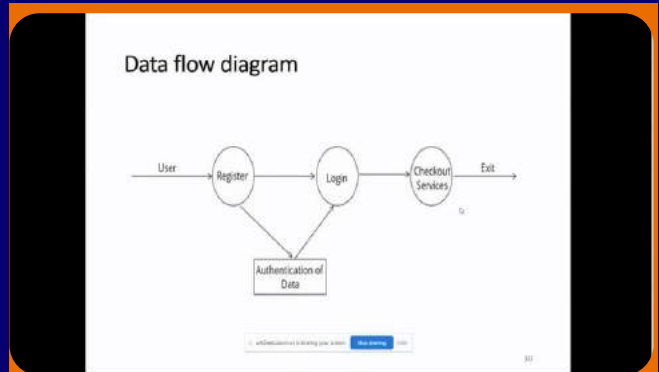
Session on Gaming application and
GPS location information



Session Data on SD card, Project
Distribution



Basic Operation of Elements Login Page
and Basic GUI Application



Presentation By Participant

Departmental Activities

(5 Days) Faculty Development Programme (FDP) On Outcome Based Education (OBE)” from 17th - 21th September 2022

Speaker 1 : Dr. Ranjeet Kumar Singh, Associate Professor at MITS, Gwalior

Speaker 2 : Mr. Pradeep Jha, HOD CSE/IT at GIT, Jaipur

Convenor:- Mr. Amit Bohra, Assistant Professor at GIT, Jaipur

A Five Day FDP on “Outcome Based Education” under Department of Computer Science and Engineering of GIT Jaipur. 45+ Faculties participated across all the institutions and total of 20 Sessions were conducted focusing on various key aspects of OBE including two hands-on sessions on CO - PO Attainment, Course File, ICT & Interactive Teaching Practices.

ABOUT THE FDP

This Faculty Development Programme (FDP) addresses the need to enhance the knowledge about the latest Outcome-Based Education (OBE) and its implications in teaching, assessment, and evaluation. Moreover, the objectives of FDP are as follows:

- Create awareness among faculty members about Outcome-Based Education System
- Understand the need of practicing OBE for Accreditation by reputed regulatory bodies
- Use of various innovative teaching-learning methods.



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RESOURCE PERSON



Dr. Ranjeet Kumar Singh
Associate Professor (MITS, Gwalior)



Mr. Pradeep Jha
HOD CSE/IT (GIT, Jaipur)

Convenor:

Mr. Amit Bohra Assistant Professor

Organizing Members

Mr. Ankit Shrivastava	Assistant Professor
Mr. Pankaj Jain	Assistant Professor
Ms. Ayushi Shukla	Assistant Professor
Mr. Santosh Kumar	Assistant Professor
Mr. S. Vashisth	Assistant Professor
Mr. SP Jakhar	Assistant Professor



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5 DAYS FDP PROGRAM ON OUTCOME BASED EDUCATION



17 -21 SEP 2022

Department of Computer
Science & Engg.

Departmental Activities



Session on OBE Based Teaching Learning By
Mr. Pradeep Jha, HOD CSE/IT at GIT, Jaipur



Vote of thanks of the FDP Session By
Dr. I.C. Sharma (Principal), GIT

Departmental Activities

1 Day Workshop on Robotics in Association With Techfest IIT Bombay organized on 21st September, 2022

Speaker : Mr. Mukul Shamra, Trainer, Techienest

ROBOTICS
LEARN & BUILD
WORKSHOP ON ROBOTICS
IN ASSOCIATION WITH
IIT BOMBAY
ORGANISED BY:-
**DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING**

VENUE - GIT AUDI-2, GIT CAMPUS DATE:-21 SEP 2022 10:00 AM

Contents:

- Introduction to ESR
- Introduction to Arduino Hardware & Software
- IR Sensors
- DCMotors
- Project Development

Unique Features:

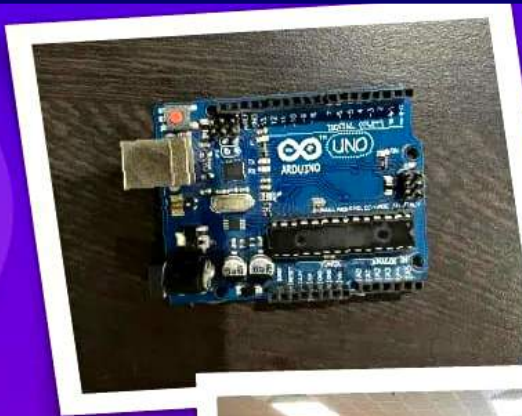
- Offline Sessions
- Hands on Training
- Project Guidance
- Get connected with experts in the field
- Professional mentoring on successfull completion

E-Certificate will be issued on Succesfull Completion of Workshop.

Robotics is a multidisciplinary subject with roots in electronics, computer science and mechanics. Although, it is not taught in schools, a lot of kids still pursue it as a hobby while struggling to find out why something works or something doesn't. In this workshop, we teach students how to read a circuit diagram, how to identify different electronic components and how to put together components to build a circuit. Since we aim to learn by examples, we build different components of a wireless robot and put them together to watch it come alive.

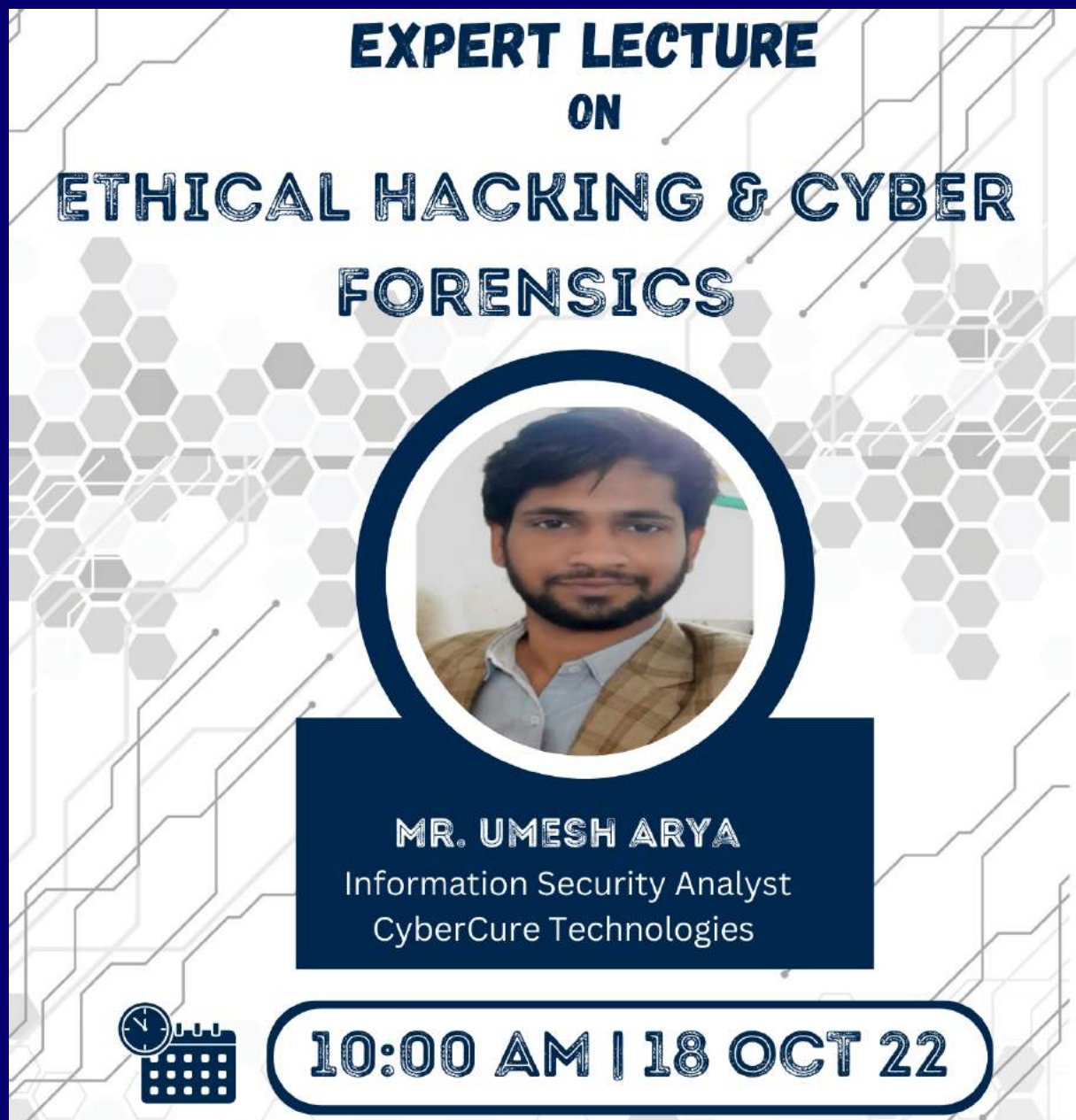
Departmental Activities

Workshop on Robotics in Association With IIT Bombay



Departmental Activities

1 Day Expert Lecture on "Ethical Hacking & Cyber Forensics"
organized on 18th October, 2022 by Mr. Umesh Arya



The poster features a dark blue background with a light blue geometric pattern of hexagons and circuit lines. At the top, the text "EXPERT LECTURE ON ETHICAL HACKING & CYBER FORENSICS" is written in a bold, white, sans-serif font. Below the title is a circular portrait of Mr. Umesh Arya, a man with dark hair and a beard, wearing a light blue shirt and a brown jacket. Underneath the portrait, his name "MR. UMESH ARYA" is written in white, followed by his title "Information Security Analyst" and the company name "CyberCure Technologies". At the bottom left, there is a small icon of a clock and a calendar. To the right of the icon, the date and time "10:00 AM | 18 OCT 22" are displayed in a white, bold, sans-serif font inside a dark blue rounded rectangle.

**EXPERT LECTURE
ON
ETHICAL HACKING & CYBER
FORENSICS**

MR. UMESH ARYA
Information Security Analyst
CyberCure Technologies

10:00 AM | 18 OCT 22

A One Day Expert Lecture on "Ethical Hacking & Cyber Forensics" under Department of Computer Science and Engineering. The session was organized by Global Institute of Technology in collaboration with CyberCure Technologies Pvt. Ltd. for Engineering Undergraduate students and faculties of all branches.

Mr. Umesh Arya, Information Security Analyst at CyberCure Technologies Pvt. Ltd. started welcome address and explained the basics of Ethical Hacking.

Departmental Activities

Expert Lecture on Ethical Hacking & Cyber Forensics



Departmental Activities

5 Day Workshop on “Build Augmented Reality Effects for Instagram + Facebook using Spark AR Studio” on 10th-14th Oct, 2022

Speaker 1: Mr Lakshit Pant, AR Creator, Reskill Spark AR.
Speaker 2: Mr. Sarthak Jain (Community Head India), Reskill Spark AR.

Spark AR is the largest platform for mobile augmented reality. Over 600,000 creators from 190 countries use Facebook's AR creation software, Spark AR Studio, to ideate, design and build AR experiences. Similarly, they use Spark AR Hub, to publish and track the performance of AR effects across the Facebook Family of Apps and devices. Meta (formerly known as Facebook) in association with Reskill organized a hands-on workshop on how to create your AR effects on Spark AR Studio.

ABOUT GIT, JAIPUR

Global Institute of Technology (GIT) enjoys the privilege of being the first private engineering college in North India to be accredited with an A grade by NAAC- UGC. The first shift offers B. Tech. Degree in seven significant branches of engineering, namely, Artificial Intelligence and Data Science, Electronics and Communication Engineering, Electrical Engineering, Mechanical Engineering, Computer Science and Engineering, Civil Engineering and Information Technology. It also offers a degree in two years full-time M.Tech in four branches: Digital Communication, Computer Science & Engineering, Power System and Production Engg.

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CONTACT PERSON

Mr. Pradeep Jha (Convener) 9829121431
Mr. Amit Kumar (Co-ordinator) 7615000100

KEYNOTE SPEAKER

S.NO	NAME	PROFILE
1.	Mr. Lakshit Pant	AR Creator, Reskill Spark AR.
2.	Mr. Sarthak Jain	(Community Head India) Reskill
3.	Mr. Rohit Sardana	CEO at Reskill
4.	Mr. Punit Jain	Co-Founder & CEO at Reskill



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WORKSHOP ON AUGMENTED REALITY EFFECTS OF SPARK AR STUDIO



10TH -14TH OCTOBER

Organised By:-
Department of Computer
Science & Engg.



Reskill



www.gitjaipur.com



support@gitjaipur.com



093140 50477, 9783870662

Departmental Activities

Workshop on Build Augmented Reality Effects for Instagram + Facebook using Spark AR Studio



Departmental Activities

1 Day Expert Lecture on Cyber Security Awareness By Ms. Layee Joshi (Cyber Security Expert)

Speaker : Ms. Layee Joshi (Cyber Security Expert)

Security awareness Training is a strategy used by IT and security professionals to prevent and mitigate user risk. These programs are designed to help users and employees understand the role they play in helping to combat information security breaches. Effective security awareness training helps employees understand proper cyber hygiene, the security risks associated with their actions and to identify cyber attacks they may encounter via email and the web.



The poster features a circular portrait of Ms. Layee Joshi on the left. To the right, the GIT logo is displayed above the text 'GLOBAL INSTITUTE of TECHNOLOGY'. The main title 'Cyber Security Awareness' is written in a large, elegant script. Below the title, the speaker's name 'Speaker Ms. Layee Joshi' is listed. At the bottom, event details are provided: '04, NOV' with a calendar icon, '10:00 AM' with an hourglass icon, and 'Auditorium-02' with a location pin icon. The footer contains contact information: a phone icon with '+91-9314050477', a globe icon with 'www.gitjaipur.com', and an email icon with 'admissionsgtc@gitjaipur.com'.

GIT

GLOBAL INSTITUTE of TECHNOLOGY

Cyber Security Awareness

Speaker
Ms. Layee Joshi

 **04, NOV**  **10:00 AM**  **Auditorium-02**

 **+91-9314050477**  **www.gitjaipur.com**  **admissionsgtc@gitjaipur.com**

Departmental Activities

Workshop on Cyber Security & Awareness By Ms. Layee Joshi



Departmental Activities

#24Hr. Hackathon GIH CODEFIESTA 1.0

(Global Community Innovation Technology Hackathon) on 9th-10th Dec 2022.

The GIH CODEFIESTA 1.0 (Global Community Innovation Technology Hackathon), which is a part of JIGYASA Annual Technical Fest, is a 24-Hour long Hackathon that gives you an Opportunity to Build Something Unique to Solve Problems from various Spheres of Modern Human Life. Use this Hackathon to launch your Big Idea and Potentially get Continuity Grants to turn your Idea into a Real- World Product!



GLOBAL
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GLOBAL COMMUNITY INNOVATION TECHNOLOGY HACKATHON
CODEFIESTA 1.0
IDEAS. LEARN. TEACH. HACK. WIN
#24 HR. HACKATHON

9TH - 10TH DEC 2022

PRIZES WORTH
₹1,00,000!

Registrations Start From 18 November 2022



FIND US ON- <https://www.gitjaipur.com/hackathon-codefiesta>

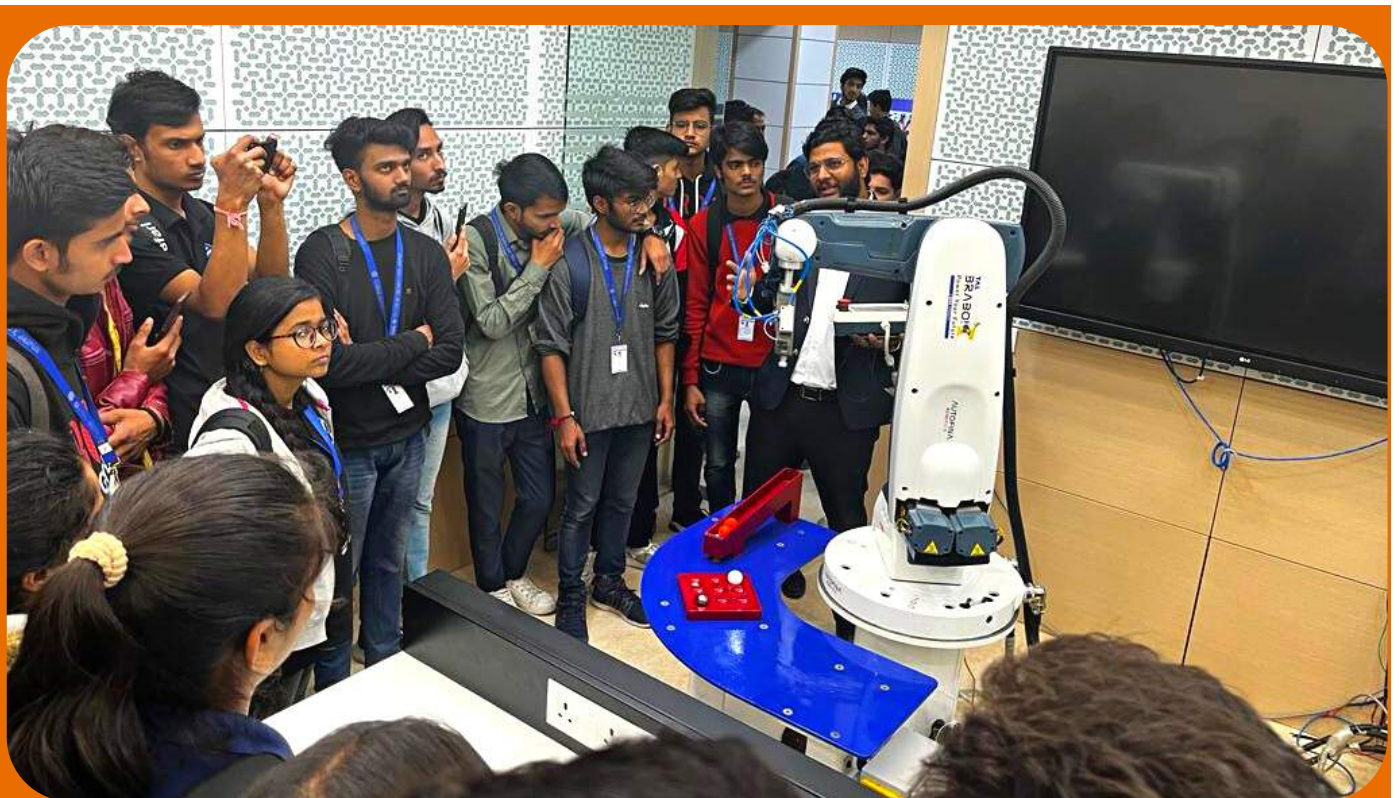
Departmental Activities

#24Hr. HACKATHON GIH 1.0 CODEFIESTA



Departmental Activities

Industrial Visit to R-CAT (Rajiv Gandhi Centre for Advanced Technology) on 30th Nov 2022



Student Technical Article's

“Education is not Important; Implementation of Education is Important”

You might think that what the “Real Education” actually means, and does any kind of fake education exists as well. The answer is yes! Majority of us are taking education, which is fake. Surprised? No problem, let me explain.

Real education is the process of learning and growing throughout life, both mentally and personally. It goes beyond just getting a formal degree and includes learning from experiences, self-reflection, and continuous improvement. It helps individuals to develop critical thinking, problem-solving, and decision-making skills, as well as the ability to adapt and apply learning in different situations. It also includes developing a sense of social and civic responsibility and the ability to collaborate and work effectively with others.

Most of us complete their school education, right? But what if I ask you what you learn from your school and more important question is “where you apply your school education.” I learn about basic Mathematic, English, Science, Hindi in 6th stander and what I learn after that in further class has no use for me today. It's not the case of mine, it's problem with majority of students.

Most people counter this by saying that if I never complete my school with the education they give, I will never proceed my higher degree. I agree but what is the goal of your higher degree? Getting a decent job, and I think for that you need particular skills like “Coding skills”, “Marketing skills”, “Public speaking” or “Video Editing skills”.

Now suppose if anyone introduces you to same career in your school and tell you about skills which you need to learn to excel into that career. In that case, after completing your school you don't even need higher education or if you need, you can pay your higher education fees by yourself though the skills that you have developed during your school time.

The main goal of education is never "what to teach" or “what to learn”. Main goal of education is to teach “why to learn”. In today's internet world where everything is available on internet, teacher's role is not to teach them, teachers' role should be to each “why you need to learn this particular thing, what will it give you and how it can make your life easy.”.....

Surendra Pandar
2nd Yr. CSE

Student Technical Article's

Programming Language Dictionary

- A - Arithmetic language developed by Grace Hopper in 1951.
- B - Bell labs is a programming language developed at Bell labs circa 1969.
- C - General purpose computer programming language developed by Dennis Ritchie in 1969.
- D - Object-oriented multi-paradigm system programming language.
- E - Object-oriented programming language for secure distributed computing, developed by Mark S Miller, Dan Bronson, in 1997.
- F - Module-oriented, compiled and numeric computer programming developed for scientific programming and scientific computation.
- G - Numerical Control(NC) programming language. It is used mainly in computer-aided manufacturing for controlling automated machine tools.
- H - Hack is a programming language for the Hip Hop Virtual Machine(HHVM), created by Facebook as a dialect of PHP.
- I - Interactive Data Language (IDL), is a programming language used for data analysis, popular in particular areas of science, astronomy, atmospheric and medical imaging.
- J-Java is a general-purpose computer programming language that is concurrent, class-based, object-oriented, platform independent language.
- K-Is a proprietary array processing language developed by Arthur Whitney and commercialized by Kx Systems.
- L- Larry McAvoy, with extensive help from Jeffrey Hobbs, Oscar Bonilla.
- M-MATLAB (matrix laboratory) is a multi-paradigm numerical computing environment and 4th generation programming language.
- N-Net Logo is an agent-based programming language designed for logo programming. Programming language Dictionary 3.
- O-Oak is a programming language created by James Gosling in 1991 Sun Microsystems set-top box project.
- P-Perl (Practical Extraction and Reporting Language) is a family of high-level, general purpose, interpreted, dynamic programming language.

Student Technical Articles

- Q-Proprietary array processing language developed by Arthur Whitney and commercialized by Kx systems.
- R-Programming language & software environment for statistical computing & graphics.
- S - Is a statistical programming language developed primarily by John Chambers Rick Becker and Allan Wilks of Bell laboratories.
- T - Programming language is a dialect of the Scheme programming language developed in the early 1980s by Jonathan A. Rees, Kent M. Pitman, and Norman I.
- U - Uber code is a high level programming language developed by Uber code Software and in 2005 for Microsoft Windows.
- V - VHDL(VHSIC Hardware Description Language) is a hardware description language used in electronic design automation to describe digital & mixed-signals systems.
- W - WATFIV developed at the University of Waterloo is an implementation of the FORTRAN programming language.
- X - XBL (XML Binding Language) is an XML-based mark-up language used to declare the behavior and look of XUL-widgets and XML elements.
- Y - Yahoo Query Language (YQL) is an SQL like query language created by Yahoo as part of their Developer Network, designed to retrieve & manipulate data from single Web interface.
- Z - Z notation is a formal specification language used for describing and modelling computing systems.

Harsh Mewara
3rd Yr. CSE

Student Technical Article's

OVERVIEW OF BIG DATA

Big Data is a massive amount of data sets that cannot be stored, processed, or analyzed using traditional tools. Today, there are millions of data sources that generate data at a very rapid rate. These data sources are present across the world. Some of the largest sources of data are social media platforms and networks. Let's use Facebook as an example—it generates more than 500 terabytes of data every day. This data includes pictures, videos, messages, and more.

Data also exists in different formats, like structured data, semi-structured data, and unstructured data. For example, in a regular Excel sheet, data is classified as structured data—with a definite format.

In contrast, emails fall under semi-structured, and your pictures and videos fall under unstructured data. All this data combined makes up Big Data.

Uses and Examples of Big Data Analytics

There are many different ways that Big Data analytics can be used in order to improve businesses and organizations. Here are some examples:

- Using analytics to understand customer behaviour in order to optimize the customer experience
- Predicting future trends in order to make better business decisions
- Improving marketing campaigns by understanding what works and what doesn't
- Increasing operational efficiency by understanding where bottlenecks are and how to fix them
- Detecting fraud and other forms of misuse sooner

These are just a few examples — the possibilities are really endless when it comes to Big Data analytics. It all depends on how you want to use it in order to improve your business.

Khushi Bansal
3rd Yr. CSE

Faculty Technical Article's

Recent trends in Machine Learning: Fractal Feature Based Image Resolution Enhancement

Fractal analysis has been popular in various fields of science and technology. The medical image processing needs analyzing different kinds of images. These images have a well-defined scale of fractal dimension and fractal length. The fields of signal processing are being influenced by fractal geometry and new breakthroughs in wavelet theory. Wavelet-based efficient representations for fractal signals are opening up new signal processing applications and giving improved answers to difficulties in current applications. Wavelets find applications in different areas like image analysis, signal processing, communication systems, time-frequency analysis etc.

A fractal analysis (FA) feature-based pre-processing method can generate an illumination invariant representation. But, the pixel values are not spread uniformly. To this end, we propose a wavelet-fractal method that uses gradient transformation to improve image resolution. It is necessary to explore the effects of scaling and sampling size as scaling effects are highly correlated. It is evident that fractal methods are more practical for scale transformation. The proposed wavelet-fractal method is well suited for neighboring scales. This proposed method in this paper could efficiently realize the scaling effect of the feature vector at different sample sizes with high accuracy. Fractal term is derived from Latin word 'fractus' which means irregular fragments.

It is well known that every object has a self-similarity property. Therefore, an object can be interpreted using fractal range of scales statistically. However, classical geometry fails to describe the self-similarity and complexity of objects as it assumes the dimension as integer. On the other hand, fractal geometry assumes the object dimension as a whole range of scales. Thus, every object is spatially a fractal structure. Nowadays, fractal analysis has been successfully applied image processing applications. We have used the concept of self-similarity in order to estimate the fractal dimension and fractal length.

Over the years, fractal analysis has also been used for image compression and texture analysis. The fractal dimensioning concept is used to quantify the texture information. The classical techniques for image enhancement include histogram equalization (HE) followed by a classification method. The classical HE techniques are adopted for contrast enhancement at the gray level and classification techniques are adopted to classify the fractal feature.



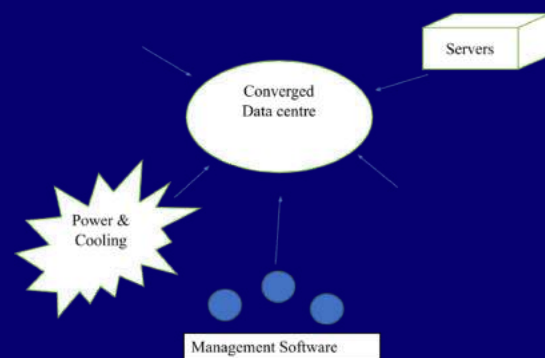
Shyo Prakash Jakhar

Faculty Technical Article's

Process for making Data Centre Collision Free using Data Centre Bridging

Every server Centre used an organized way to connect data centers. There are three basic fundamentals in particular, general systems administration traffic, stockpiling traffic, and between processor traffic. General systems administration traffic is dealt with by Ethernet, stockpiling traffic is taken care of by Fiber Channel (FC), and between processor traffic is dealt with by InfiniBand (IB). Each organization texture is intended to meet the throughput and idleness prerequisites of its remaining task at hand. General systems administration traffic is blended and incorporates web traffic along side email and attachment applications, so there is hardly any nature of administration prerequisites. Capacity traffic between capacity gadget sand workers requires high I/O rates, high limit and non disruptive information conveyance. Between processor traffic require slow inertness. General organization traffic doesn't have severe dormancy prerequisites and isn't definitely affected by bundle misfortune. Capacity and between processor traffic have low dormancy prerequisites and require ensured conveyance of bundles. So we mainly focus on to decrease this traffic and improve the quality of data transferring by using DRR.

With Ethernet, a particular traffic class can just abstain from losing bundles utilizing more significant level conventions like TCP/IP that recuperate from parcel misfortune. Nonetheless, these dependable conventions have an excess of overhead to be valuable for capacity and between processor traffic classes. There is an unmistakable requirement for a low-level, refined blockage decrease component that separates between traffic classes.



IMPLEMENTATION

This postulation researches the accompanying inquiries:

- What is the throughput and inactivity of various applications, for example, iSCSI and Message Passing Interface (MPI) on a united server farm organization?
- How do the distinctive traffic classes react to blockage in a united organization?
- How may the various conventions inside DCB advantage a united organization?

Faculty Technical Article's

- What is the impact on throughput and inactivity when PFC is empowered?
- What is the effect of conventional planning calculations, for example, Deficit Round Robin (DRR), on the exhibition and reasonableness of a server farm grade organization?
- What is the exhibition of customary planning calculations on present day server farm switches?
- How do the restrictions of DRR on server farm switch equipment show?
- How can the constraints of DRR be settled while: keeping up the low unpredictability of the DRR calculation?
- Keeping up reasonableness by and large, including numerous traffic floods of various sizes and types?
- What is the decency of the new DRR calculation on server farm equipment as dictated by notable reasonableness measurements, for example, Jain's Fairness Index?
- How can an altered or new need-based stream control calculation improve decency in a DCB organization?
- Is CN the most ideal approach to target attacker streams in an organization to decrease blockage?
- Can another attacker stream focusing on component be built up that: keeps up the low multifaceted nature of PFC? keeps up the quick reaction season of PFC?

- Improves the capacity to hinder attacker streams while leaving casualty streams unhampered?
- gives different systems by which to choose what streams to target?
- Will re-enactments show a stamped improvement in assailant stream focusing on by means of the new instrument?



Ms. Ayushi Sukla

How Secure is Blockchain Really?

The whole point of using a blockchain is to let people—in particular, people who don't trust one another—share valuable data in a secure, tamperproof way. That's because blockchains store data using sophisticated math and innovative software rules that are extremely difficult for attackers to manipulate. But the security of even the best-designed blockchain systems can fail in places where the fancy math and software rules come into contact with humans, who are skilled cheaters, in the real world, where

Faculty Technical Article's

things can get messy.

To understand why, start with what makes blockchains “secure” in principle. Bitcoin is a good example. In Bitcoin’s blockchain, the shared data is the history of every Bitcoin transaction ever made: an accounting ledger. The ledger is stored in multiple copies on a network of computers, called “nodes.” Each time someone submits a transaction to the ledger, the nodes check to make sure the transaction is valid—that whoever spent a bitcoin had a bitcoin to spend. A subset of them compete to package valid transactions into “blocks” and add them to a chain of previous ones. The owners of these nodes are called miners. Miners who successfully add new blocks to the chain earn bitcoins as a reward.

What makes this system theoretically tamperproof is two things: a cryptographic fingerprint unique to each block, and a “consensus protocol,” the process by which the nodes in the network agree on a shared history.

The fingerprint, called a hash, takes a lot of computing time and energy to generate initially. It thus serves as proof that the miner who added the block to the blockchain did the computational work to earn a bitcoin reward (for this reason, Bitcoin is said to use a “proof-of-work” protocol). It also serves as a kind of seal, since altering the block would require generating a new hash. Verifying whether or not the hash matches its block, however, is easy, and once the

nodes have done so they update their respective copies of the blockchain with the new block. This is the consensus protocol.



The final security element is that the hashes also serve as the links in the blockchain: each block includes the previous block’s unique hash. So if you want to change an entry in the ledger retroactively, you have to calculate a new hash not only for the block it’s in but also for every subsequent block. And you have to do this faster than the other nodes can add new blocks to the chain. So unless you have computers that are more powerful than the rest of the nodes combined (and even then, success isn’t guaranteed), any blocks you add will conflict with existing ones, and the other nodes will automatically reject your alterations. This is what makes the blockchain tamperproof, or “immutable.”



Mr. Amit Kumar

Departmental Achievement



Research Paper Published by Mr. Sudhanshu Vashistha in International Conference By Springer

- Smart India Hackathon Winner
- Team Alpha (3rd Yr.) IIT TechFest Delhi Coding Competition Winner
- Team Bruno (3rd Yr.) Rajasthan DigiFest Hackathon Winner
- 12+ Projects funded by DST.

Department of Electrical Engineering



About Department

Electrical Engineering is an exciting and dynamic field. Electrical engineers are in demand of the day since they are responsible for generation, transmission and conversion of electrical power. Department of Electrical Engineering offers UG and PG Programme. The department has qualified and experienced faculty in all the fields like electrical machines, electrical power systems, power electronics and drives, electronics, high voltage engineering etc. The theoretical knowledge is further supplemented by well-equipped laboratories. Department is equipped with latest state of art laboratories for electrical machines, power electronics, power systems with software, control systems, integrated circuits, electric circuits, measurements and instrumentation lab, engineering practices lab and electronics design lab with excellent computing facilities. It also has latest audio - visual teaching aids. Internet facility is available for students.

VISION MISSION



VISION

The vision of Electrical Engineering Department is to be recognized as a trendsetter of its undergraduate programme through focus on core competencies, multi-disciplinary collaborations, and quality in education.

MISSION

To produce highly qualified, well-formed and motivated graduates possessing fundamental knowledge of engineering practice and research of Electrical Engineering who can provide leadership and service to our nation and world.



From Desk of Head of Department



Mr. Ravi Kumar Hada
Head Department of
Electrical Engineering

It gives me immense pleasure in bringing out Annual Magazine TECHNIDO-2022. TECHNIDO is a thought with an objective to bring forward some new ideas, talents, abilities and potential – it's a sincere effort to search new successors.

We, GITians proudly associate ourselves with the initiative of publishing the 2022 issue of our magazine “TECHNIDO-2022” – continuous improvement. The journey of TECHNIDO begins with exploring the creativity & potential we have in ourselves and its success lies in setting new benchmarks.

We all have made an attempt to present TECHNIDO – a mirror reflecting the common traditions, value and culture that GITians share and an uncommon, distinguished, personalities, attitudes and passion for the success we hold.

At this stage, where college management supported this initiative, we look forward to your support and participation in establishing TECHNIDO as a Milestone. As we strongly believe “Winners don't do different things. They do things differently.”

Ravi Kumar Hada
HOD, Electrical Engineering
GIT, Jaipur

Departmental Activities

7 Days Workshop On Control Panel & Electric Vehicle Charge Controller from 1st-7th December, 2022

Speaker 1 : Ms. Anupama Godia

Speaker 2 : Mr. Aditya Soni

Convenor:- Mr. Ravi Hada, Assistant Professor & HOD (EE) at GIT, Jaipur

A Seven day workshop on 'Control Panel & Electric Vehicle Charge Controller' was organized by Department of Electrical Engineering(Under the aegis of Power club). The workshop started with the floral welcome of Key speaker, Ms. Anupama Godia and Mr. Aditya Soni by HOD of Electrical Engineering Department, Mr. Ravi Hada.

Ms. Anupama is an Industrial Trainer. She is having over 28 years of experience of industry and academics. She is currently handling R&D projects at IIT madras. These projects are on Microgrid, electrical Vehicles, EV chargers etc. She is the owner of COGNITION consulting firm.

Mr. Aditya Soni is currently working as quality engineer in Jones electrical pvt. limited, a US based company. He is having wide experience in control panel design and electrical vehicle charge controller.

GIT

INSTITUTION'S INNOVATION COUNCIL
(Ministry of HRD, Government of India)

COGNITION
(ANALYSIS & SOLUTIONS)

Power Club
The Power of Knowledge

Global Institute of Technology, Jaipur
Department of Electrical Engineering
Under the Aegis of Power Club
Organized

Seven Days Workshop
On
Control Panel & Electric Vehicle Charge Controller
(1st-7th December 2022)

In Collaboration With
COGNITION
(ANALYSIS & SOLUTIONS)

Venue
Global Institute of Technology, Jaipur

Mr. Aaditya Soni
(Speaker)

Departmental Activities



Session on Electric Vehicle Charge Controller
Working and Components By Ms. Anupama Godia



Session on Components and working of
Control Panel By Mr. Aditya Soni

Departmental Achievement

Paper Published in Journal and conference

S.No	Author Name	Paper/Patent Title	Name of Journal, Volume, Issue, Year, Page No.
1	Mr. Ravi Kumar Hada	Review on Renewable Energy Based Electric Vehicles Charging Technology	International Journal of Scientific Research and Engineering Trends (IJSRET), Vol. 08, Issue 06, Year 2022, PP. 2189-2194
2	Mr. Atul Sharma	Block Chain Based Technique along with Techniques of Internet of Things (IOT) to Monitor and Analyze the bank Accounts of a Particular Banking Organization	Indian Government, Year 2022, Patent office journal No. 35/2022, No of pages -13.
3	Dr. Raghvendra Patidar	Human and Animal Detection with Advanced Microcontroller	Australian Government Patent No.-2021102879, Year 2022

Attended Quiz or STTP by Students

S.No	Name	Quiz Title	Organized By
1	Rahul Singh Chouhan	Sustainability and Energy Efficiency Quiz-2022	Centre for Energy and Environment, MNIT jaipur
2	Khushnuma Khan	Sustainability and Energy Efficiency Quiz-2022	

Patent Published

Human & Animal Detection Robot with Advanced Microcontroller

Patentee: Dr. Raghavendra Patidar, Professor, ECE Department
Mr. S.S. Dua, Assistant Professor, EE Department

The main objective of this patent is to detect human and send the message whether the person is authorized or unauthorized, and also used it as surveillance robot in disaster prone areas.

This patent aims to give a practical design to build the simplified version of a human and animal detection robot which has to be active within disaster areas like where rescue teams cannot detect the humans due to a lot of technical difficulties.

In such conditions, when there is a risk of hazardous environment it will better to use some high technology equipment to reach that mission rapidly and effectively by finding, searching and giving information about unauthorized human movement in given boundaries, by detecting the human.

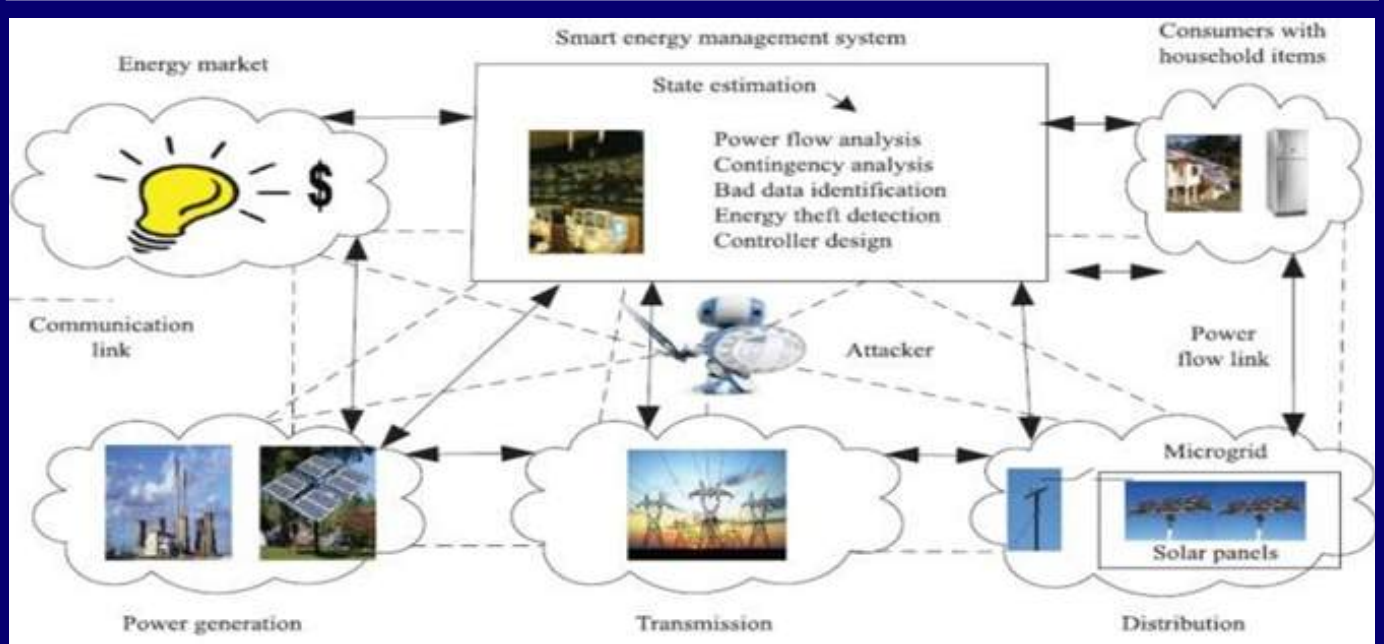
In the current era, natural disasters like Earthquakes, Warfield's, building collapse or manmade disasters often occur and they cannot be controlled or stopped. Wherever this disaster has occurred, it's quite difficult for rescue teams to cover as the area is quite big for rescue workers to cover. We are developing using an advanced microcontroller and some set of sensors which is PIR sensor and Ultrasonic sensor. PIR senses the temperature of its environment and checks for any changes that are present. The Ultrasonic sensor are used for navigation of the robot vehicle in the disaster affected area. This robot can be used for long and short distance, hence we are using GSM module for communication purpose and we are using DTMF dual tone multifrequency for communication for robot control. This robot is more helpful for rescuers to find and save a human being.

The design gave much emphasis on reducing the need to have expensive sensors, advanced microcontroller and sophisticated image processing systems in order to make it as cost effective and reliable as possible. Therefore, there was a single sonar proximity sensor and two bumper switches attached to the front of the robot.

However, further improvements are needed in the arbitration mechanism that optimizes the synergy among the human, robot, and the animal by improving the learning algorithms. The robot can learn from both the animal and the human, though the teaching signals can be noisy. The animal can learn from both the human and the robot to navigate with the robot attached to it. The human can learn from the animal and the robot by observing the limitations of the animal-robot system.

Student Technical Article's

Aspects of Cyber Security in Power System



Smart Grid innovation will upset present day businesses giving strong answers for increment the effectiveness of conventional Electric Grids. Smart Grid is an energy supply network that utilizes advanced correspondences innovation. The expanding burden and utilization requests increment power entanglements, for example, the interest has expanded, alongside issues like power outages, over-burdens, and voltage lists as well as flow electrical organization developing basic fossil fuel by products and chief managing digital assaults. Be that as it may, the Smart Grid innovation begins with weaknesses and inconveniences particularly for getting data which is the most imperative concern. This article breaks down the dangers and expected arrangements of Smart Grid in light of the cyber security. We center around the kinds of digital assaults and give inside and out data. The network protection status of the Smart Grid.

The smart grid is characterized by a two-way transfer of power as well as information. This is possible due to the incorporation of Information and Communication Technology (ICT). Because of the ICT, the smart grid is becoming vulnerable to cyber-attacks. The major causes include: Increased installation of intelligent electronic devices (IED), Installation of third party components, Inadequate personal training, Insecure internet protocols etc.

Student Technical Article's

The aims of the cyber-attacks are: Attacks aiming to steal data from utility servers, Attacks aiming to take control of utility servers, Attacks aiming to take down utility servers, Attacks against wide- area measurement equipment.

The figure below shows the Cyber Physical monitoring and control of the power network.

Thus to protect the power system components from the cyber-attacks i.e. to protect against improper modification of information, to protect from sensitive information, to ensure timely and reliable access to and use of information, etc we need cyber security. The main objective of cyber security are: Integrity, Confidentiality, Availability. The most common cyber-attacks are False Data Injection Attacks, Man in the Middle attack, Denial of service, Replay attack, Spoofing Attack, etc. The facets of cyber security include: Vulnerability Assessment, Risk Assessment, Detection and Mitigation etc. Cyber security is needed in the operation and planning of power system.

The below figure shows the weaknesses of smart grid towards misleading information infusion assaults.

Smart Grids are superior to conventional heritage power lattices as far as capability and efficiency as the Smart Grids are harmless to the ecosystem, it utilizes a ton of inexhaustible wellsprings of energy

and premier it is safer than the customary power framework. Moreover, the examination proposed potential advantages and weakness against the Smart Grid. The advantages of involving a Smart Grid in the general point of view, it will furnish a more extensive scope of safety with having different methods and strategies to conquer a portion of the digital assault issues. In any case, while leading the exploration, the different paper has recommended the security advantages and weakness related Smart Grids, pretty much every examination paper proposed that undermining soft spot for Smart Grids would be the Denial-of-Service assault. Since Smart Grids are the development of the organization and assaulting the organization would injure the Smart Grid. Although, the SmartGrid will safeguard the Availability of the assistance with various layers of safety an ideal answer for the security viewpoints would utilize the Virtual Private Network (VPN) for safer correspondence.



Dhananjay Kumar
V Sem EE

Student Technical Articles

Hybrid Power Plant- A Multiple Sources of Energy

Basically, A Hybrid Power Plant consist of multiple sources of energy. When we talk about hybrid power plant, then the combined multiple sources are usually renewable energy sources. In this project, we are going to get electric power from renewable energy sources like solar & wind. But we cannot create reliable supply with only these energy sources as they both are intermittent in themselves so we are also adding a backup power source which will run on petrol & to improve efficiency of this petrol-powered energy source, we will use TEG (Thermo Electric-Generator) which will utilize thermal energy radiated in atmosphere. Through this project it is expected to give concern about development of the wind and solar hybrid power generation. Ensuring energy security energy resources used in the future need to be diversified. Also, to ensure the continuity of supply, energy mix need to be rationalized considering important factors, such as economic cost, environmental impact, reliability of supplies. The hybrid renewable power generation is a system aimed at the production and utilization of the electrical energy stemming from more than one sources, provided that at least one of them is renewable. As this project aims to deliver electric power through renewable

energy sources so we can call it an initiative for sustainable development which has following impacts on all three branches of sustainability.

Social Impact: These resources provide social benefits like improvement of health, according to choose of consumer, advancement in technologies, and opportunities for the work, but some basic considerations should be taken for the benefit of humans, for example, climate conditions, level of education and standard of living, and region whether urban or rural from agricultural point of view. Social aspects are the basic considerations for the development of any country. The following social benefits can be achieved by renewable energy systems: local employment, better health, job opportunities, and consumer choice.

The study concluded that the total emission reduction is exponentially increasing in different years after the installation of renewable energy projects in remote areas.

Economic Impact: It was discovered that renewable energy projects provide benefits in economic point of view because they utilize local labor from rural areas, local material and business, local shareholders, and services of local banks.

In addition, the renewable energy projects have facilitated the communities by

Student Technical Articals

a trust fund that aims to invest the money earned by selling electricity in local economy. This makes it easy for a few communities to invest money on any small business of their own choice. Biofuel projects created large number of jobs; however, very low jobs were created by solar power plants, as the ratio of people working in different companies increase that will create more jobs for others by using the part of their economy for entertainment, leisure, restaurant, etc. The consumers will be provided with electric power at a low cost as compared to that of conventional energy sources, and overall economy will be enhanced because there will be multiple options to generate power using different renewable energy sources present in that region.

Environmental Impact: Renewable energy projects have also contributed in improving environmental impacts such as reduction of carbon dioxide gas, awakening community about the climate change. The study observed very small impacts on the people living in a

particular area, tourism, cost of energy supply, and educational impacts. Significant impacts were observed in improvement of life standard, social bonds creation, and community development. The two main aspects of environment are air and water pollution, normally created by the discharged water from houses, industries, and polluted rain, and discharge of used oils and liquids contains poisonous chemicals and heavy metals like mercury, lead, etc. Along with water pollution, natural resources can be maintained and greenhouse effect and air pollution can be mitigated by the proper usage of renewable energy sources.



Chetan Mahla,
V Sem
EE

Student Technical Article's

Paper Battery the Solution for Traditional Battery

Khushnuma Khan, V Sem EE

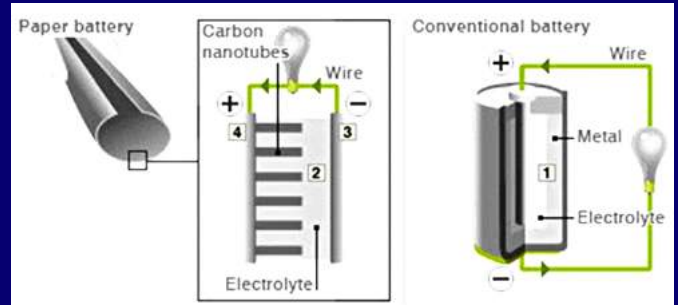
A Paper Battery is an ultra-thin and environmentally friendly and versatile energy voltaic battery made of Carbon Nano Tubes and paper or polysaccharide. The functioning of paper batteries is comparable to it of traditional chemical battery. Early prototypes of the device are able to manufacture a pair of 5V of electricity from a sample of scale of postage.

Paper Battery = Paper (Cellulose) + Carbon Nanotubes.

The devices area unit shaped by combining cellulose with associate infusion of aligned carbon nanotubes that area unit every some one million of a centimeter thick.

Working of a Paper Battery

A conventional battery or Rechargeable contains variety of separate parts that produce electrons through a reaction between the metal and also the electrolyte of the battery. The Paper battery works once the paper is dipped within the ion-based liquid solution; next a reaction happens between the electrodes and liquid. The most effective methodology to extend the output of the battery is to stack totally different paper batteries one over the opposite.



Advantages of Paper battery over Existing Batteries

- Biodegradable and Non Toxic
- Biocompatible
- Easily reusable and Recyclable
- Durable
- Rechargeable
- Very Light Weight and Flexible

Applications of Paper Batteries

- In portable computer batteries, mobile phones, handheld digital cameras; the load of those devices can be considerably reduced by replacing the alkaline batteries.
- Paper batteries are unit utilized in medical field like for creating pacemakers for the heart, artificial tissues, Drug Delivery Systems, Cosmetics and in Bio Sensors.
- Paper batteries area unit utilized in vehicles and craft like in light weight.

One of the main issues bugging the planet now could be Energy crisis. Each nation wants energy and everyone wants power. And this problem that disturbs the developed countries perturbs the developing countries like India to a much bigger extent.

Faculty Technical Article's

Automatic Solar Panel Dust Removal System by Arduino

Solar energy, which is one of the renewable energy sources, has an important role in meeting the increasing electrical energy demand of our globe. In recent years, many countries have established their energy policies based on solar energy, and researchers have been working on solar panel efficiency, maximum energy extraction from the sun, control and power electronics. The energy extracting from the sun is converted into electrical energy via solar panels. To extract continuously maximum energy level from the sun reduces installation costs and makes it easier to meet the demanded peak electrical power. Physical conditions such as muddy rain, snow and dusting place between the solar panel and the sun. This situation results the reduced electrical power extraction level which can be technically produced with clean solar panel surface. Therefore, it is also very important to keep the solar panels clean as well as the maximum power point tracking devices. In this study, a solar panel cleaning robot (SPCR) has been designed and tested in real time. The design consist of dual-motor and crawler robot moves horizontally and the cleaning brush runs on the vertical axis.

In addition, the length of the solar panel array can be detected by position switches to keep the SPCR in desired working area.

Solar power is mainly harnessed from photovoltaic (PV) panels which are arranged in multiple arrays in a solar farm or solar system. However, the efficiency of energy generated from PV panels is affected by the accumulation of dust and debris, even on one panel in an array. This condition leads to the need for regular cleaning of the surface of PV panels. Current labor-based cleaning methods for photovoltaic arrays are costly in time, water, and energy usage as well as lacking in automation capabilities. To overcome this problem, a fully automatic solar panel cleaning system without water is proposed. The design utilizes an Arduino controller system to control the robot's movement during the cleaning process. The result shows that the developed solar panel cleaning robot is able to clean the panel effectively and increase back the output current as well as the maximum power of the panel by 50%, after the dust on the PV panel is cleaned.

Mr. Ravi Hada
Assistant Professor

Faculty Technical Article's

A Surevey on Modeling Simulation and Electrification of a Solar-Powered Electric Vehicle

In 2008, the launch of the Tesla proved to the public electrical vehicles' ability for fuel and greenhouse gas reduction in the transport sector. It brought the worldwide spotlight on electric vehicles when, because of increased demand and fossil fuel prices, they reached unexpectedly high and developing countries needed strong economic growth. The capacity for energy storage by electric cars as well as the likely random discharge and loading of the grid are important challenges in operation and maintenance. Optimal preparation techniques are important for large numbers of vehicles to be incorporated with the smart grid and electric vehicles. Greenhouse gas emissions are one of the major environmental problems and their emission rates are rising more quickly with rapid industrialization. This can be overcome by solar energy for transport. The purpose of the work proposed is to include a technology that supports green energy; see a scenario that we can use photovoltaic energy for charging vehicles that are incorporated into the vehicle. The presented research underlines the functional properties of electrical vehicle and illustrated literature review on recent

developments of electrical vehicles. The research paper also explains the fundamental components of electrical vehicle incorporated with solar photovoltaic system. The research is useful in understanding properties and challenges in the field of electrical vehicle.

Electric cars (EVs) are gaining popularity worldwide compared to regular cars with fossil fuels. Since the buying price of an EV is far more expensive, however, it may still be the main barrier to the market. For several reasons, customers prefer EVs, including lower carbon-free environmental effects, better performance, etc. Energy sustainability needs consumers with environmental consciousness and a renewable energy vision. A recent study shows that an increase of 1% in renewable energy sources will lead to an increase of about 2-6% in demand for EVs.

It has been recognized that EVs bring new opportunities in terms of providing regulation services and consumption flexibility by varying the recharging power at a certain time instant. This dissertation work mainly focuses on modeling of electric vehicle. This project intends to model the performance of Evo-electric 'AF-130' Permanent Magnet Synchronous Motor which is controlled using a Rinehart motion systems- AC motor Controller- 'PM100DZ'.

Mr. Gaurav Rathore

Faculty Technical Article's

New Trends in Emerging Technologies

Technology makes our life simple in the present years and it is going to be easy in upcoming years as the new ideology is coming out in the form of discoveries. There are been so many latest developments in the electrical and electronics field.

Electric Vehicles

These days' electrical vehicles are gaining high popularity. The main advantage of electric vehicles is the reduced carbon emissions. For example, these days Tesla is the one of the electrical hybrid vehicles which is been sold out and the market rose of Tesla is \$100 billion. In the future, there will be more investments in the electric vehicles. There will be improvements to attract the consumers such as long-lasting batteries, less cost, high efficient autonomous driving. There is a chance of solar-powered electrical vehicles.

Smart Grid

The smart grid is fully packed with smart devices throughout the infrastructure in houses, offices, and industries. The devices used in the smart grid are used to collect the data and analyze the utility and provides cost-effective suggestions. It can detect faults in usage. Smart grid

establishes the communication between the Power Company, distributors, and end-users. This will provide higher efficiency at a lower cost.

Artificial intelligence

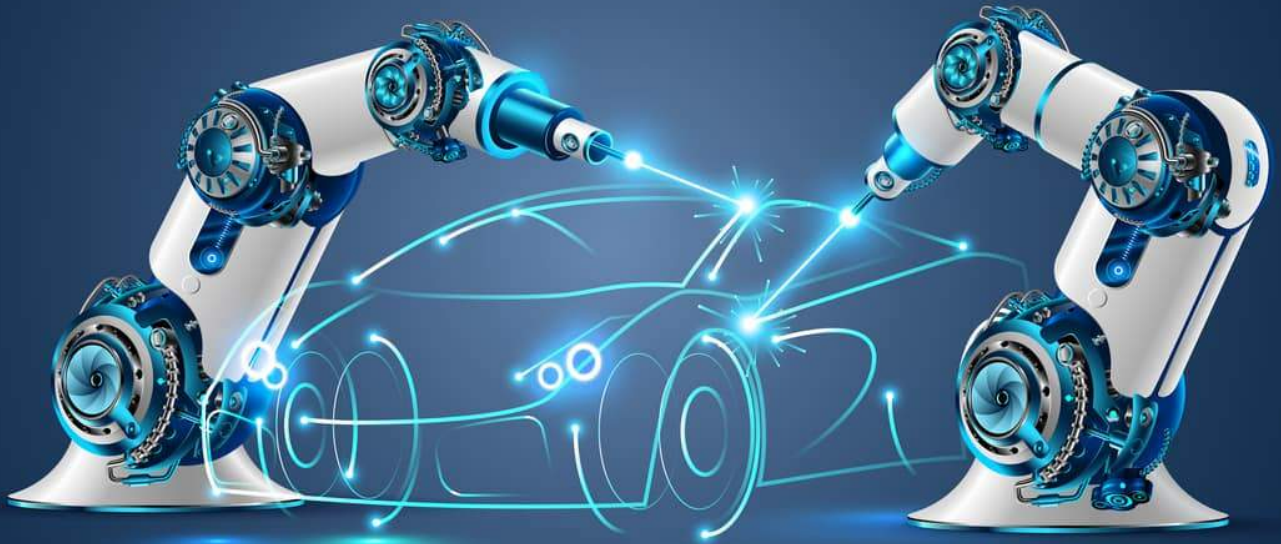
The equipment is designed with artificial intelligence which makes the work of engineers easier in the industrial sector. The construction of machine learning and AI platforms make the work easy by providing new codes. This will provide feedback to the management and helps in giving solutions for repairs. AI is almost using in all sectors and it is also making the work ease in the electrical and electronics department.

Robotics

One of the best discoveries these days is medical surgery using electronic robots. They cannot replace the human surgeons but they can assist them. Small surgeries can be performed using robotics technology with the help of instructions from doctors. Robots can also be used as assistants for the patients in the hospital. These days the humans are suffering from different types of viruses as humans fear to meet each other. Even the doctors and nurses are feared to assist the patients. In these times these robots are assisting the humans. These days this is one of the best discoveries and they will be upgraded according to the upcoming usages.

Mr. Vishal Rohela

Department of Mechanical & Civil Engineering



About Department

Mechanical engineering is a vast field where students have the leverage to find their dream job in multiple industries, like automotive, aviation, aeronautics, aerospace, biomedical, computer hardware, power plants, and so on.

A mechanical engineer is concerned with implementing different technical approaches to design, plan, manufacture, and launch products in the market for user benefits. Nowadays, students are provided with several types of mechanical engineering to achieve excellence in their domains. A bachelor's degree in mechanical engineering paves the way for further studies in automotive, aerospace, aeronautical, and many other industries.

VISION MISSION



VISION

The vision of the department of Mechanical Engineering is to be recognized as a trendsetter of its undergraduate programme through focus on core competencies, multi-disciplinary collaborations and quality in education.

MISSION

The department of Mechanical Engineering at Global Institute of Technology endeavors to provide first class technical education in the field of Mechanical Engineering to students, so that they can lead multi-disciplinary technical teams; contribute innovatively towards the development of cutting edge technology; take up active research to meet ever-increasing societal needs; and thus play a significant role in improving the quality of life of the human beings in the whole.



From Desk of Head of Department



Mr. Ghanshyam Mishra
Head
Department of
Mechanical Engineering

A hearty welcome to the Department of Mechanical & Civil Engineering at Global institute of technology, Jaipur Rajasthan. The department runs an undergraduate program in Mechanical & Civil Engineering and PG program with Production Engineering specialization. The department vision is to be achieve an excellence in value based on Engineering Education.

For the overall development of the student, department of Mechanical engineering is associated with Memberships of professional bodies, such as, ISHRAE Indian society of heating, Refrigeration and Air Conditioning Engineers (India). The department also formulated Mechanical Engineering Students association(MEA). Various activities of these professional bodies and chapters helps students to gain knowledge and interact with students and staff of other colleges/universities as well as Industry Engineers. The department encourages students to take part in various competitions.

I wish success to all students in your endeavor to join us on the journey of quality education & to have a great learning experience with my excellent, loving & caring team.

Mr. Ghanshyam Mishra
HOD, Mechanical Engineering
GIT, Jaipur

Departmental Activities

Hands on Practice on "I. C. Engines", Workshop on "Refrigeration and Roadies" Organized under GIT Nut and Bolt Club on 12th, Dec 2022

Activities on "Hands-on Practice on I. C. Engines and Workshop on Refrigeration and Roadies" under GIT Nut and Bolt Club was organized by Department of Mechanical Engineering of GIT Jaipur on 11th Dec, 2022. The session was organized for engineering undergraduate students and postgraduate students of all branches.



Departmental Activities

Industrial visit at Manu Yantralaya, Jaipur 2nd, December 2022

The Department of Mechanical Engineering, Global Institute of Technology, Jaipur successfully conducted an industrial visit on 02/12/2022 at Manu Yantralaya, Jaipur. Manu Yantralaya (P) Ltd. was established in 1988. Manu Yantralaya (P) Ltd. (MYPL) supplies bearing cages to major bearing companies such as SKF, FAG, NBC, NSK, NACHI, TATA, NRB, SKF SEALING SOLUTIONS, INA and, also exports globally. The purpose of the visit was to make a better understanding of ball bearing manufacturing, manufacturing of cages, uses of CNC and automation in the processes.



Visit photograph at GIT Main gate



Visit photograph at Manu Yantralaya Jaipur Main gate



Site picture at Manu Yantralaya



Visit photograph at training room after QnA session with company officials.

Departmental Activities

(7 Days NCRAAAS-2022) National Conference On “Recent Advances in Automotive Air-conditioning Systems”, 21st-27th Feb, 2022

Speaker 1 : Dr. Manu Augustine, Professor from SKIT, Jaipur

Speaker 2 : Mr. Dhananjay Trivedi, Senior section Engineer, Indian Railways

Convenor:- Mr. Ghanshyam Mishra, Assistant Professor at GIT, Jaipur

Department of Mechanical Engineering organized seven days National Conference on “Recent Advances in Automotive Air-conditioning Systems”. Eminent experts and research scholars from various universities and colleges along with industry experts from automobile, refrigeration and air-conditioning engineering streams across all parts of India were invited to present their research papers, gain new experiences and share their research on the hot topics in the energy and automotive sector of today’s era.

COMMITTEE

Patron:

Shri Rajkumar Kandoi, Chairman, GITS
Mr. Naman Kandoi, Secretary

Advisor:

Shri Manoj Kumar Mahla, Executive Director
Dr. I. C. Sharma, Principal
Mr. Praveen Sharma, VP, Marketing

Coordinators:

Mr. Ghanshyam Mishra - Convener
Dr. Anuj Mathur - Co-Convener

Organizing Committee:

Mr. Gautam Gunjan
Mr. Anil Chaudhary
Mr. Sunil Sharma
Mr. Naween Jha
Dr. Rajpal Singh
Dr. Raghvendra Patidar
Dr. Sanjay Bansal
Dr. Sayar Singh Shekhawat
Mr. Mahendra Prajapat
Mr. Amit Bohra
Mr. Rajesh Rajaan

Contact Person:-

Dr. Anuj Matur 9982000532
Mr. Ghanshyam Mishra 9782326235
Sunil Sharma 9001541251

REGISTRATION FORM

**National Conference on Recent
Advancements in Automotive Air-
conditioning Systems
February 21st-27th, 2022**

Name: Mr./Ms.

Department:

Title of Paper:

Institute/Corporate Name:

Mobile No.:

Email Id:

Signature of Participant

Head of Institute

Registration Fee:

Student	Free
Faculty	Rs. 500
Corporate	Rs. 1000

Email us at:- ncraaas2022@gitjaipur.com

Note: Last date to received paper – 21/01/2022

Paper selection intimation – 01/02/2022

Selected paper will publish in conference proceedings.

Bank Detail: Punjab National Bank
Name of Payee: Global Institute of Technology
GIT Account No. : 6143002100001710
IFSC Code: PUNB0614300

“National Conference”

On

Recent Advancements in Automotive Air-
conditioning Systems

(NCRAAAS-2022)

(Virtual Mode)

February 21st-27th, 2022



Organized by
Department of Mechanical
Engineering



Host Institute

GLOBAL INSTITUTE OF TECHNOLOGY

ITS-1, IT Park, EPIP, Sitapura, Jaipur
(Approved by AICTE, New Delhi & Affiliated to RTU, Kota)

Web: www.gitjaipur.com

Email: support@gitjaipur.com

Departmental Activities

Workshop on “Thumb Rule in Civil Engineering” organized on 19th to 25th January, 2022

Speaker 1 : Prof (Dr.) A K Diwedi RTU KOTA
 Speaker 2 : 2. Mr D P Sharma Consultant USA
 Convenor:- Dr. R P Singh Kushwah at GIT, Jaipur

A workshop on “Thumb rule in civil engineering” was organized by Global institute of technology from 19th to 25th January, 2022. The workshop was conducted by Department of Civil Engineering in association with Institute of Engineers India (IEI).

Topic: Seven Days online Workshop on Thumb Rule in Civil Engineering.

Date : 19th to 25th January, 2022

Total No of Attendees : 150

Host institute coordinator : Dr. R P Singh Kushwah
 Mr. Abhishek Sharma

WORKSHOP COMMITTEE	REGISTRATION FORM	GLOBAL INSTITUTE OF TECHNOLOGY Seven Days online Workshop ON “Thumb Rules in Civil Engineering” 19 th - 25 th January, 2022
Chief Patron: Shri Rajkumar Kandoi, Honorable Chairman, GITS Patron: Ms. Shivani Kandoi, Vice chairperson, GITS Mr. Naman Kandoi, CEO & Secretary GITS Adviser: Shri Manoj Kumar Mahla, Executive Director Dr. I. C. Sharma, Principal Mr. Praveen Sharma, VP, Marketing Host Institute Coordinators: Dr. R.P. Singh Kushwah, GIT Mr. Abhishek Sharma, Assistant Professor GIT Organizing Committee: Dr. S.S. Shekawat Mr. Mahendra Prajapat Dr. Raghavendra Patidar Mr. Abhishek Sharma Dr. Anuj Mathur Ms. Shriyanka Prajapat Dr. Sanjay Bansal Mr. Sunil Sharma Ms. Sushila Mahla Mr. Anil Choudhary Mr. Ghaneshwar Mishra Mr. Naveen Jha Mr. Ravi Hada Mr. Gautam Gunjan	Workshop on “Thumb Rules in Civil Engineering” 19th - 25th, January, 2022 Name: Mr./Ms. _____ Institute Name: _____ Institute Address: _____ _____ _____ Affiliated to RTU/ BTU: _____ (Yes/No) Mobile No.: _____ Email Id: _____ Signature of Participant: _____	 Organized by Department of Civil Engineering in Association with Institute of Engineers India (IEI)  Host Institute GLOBAL INSTITUTE OF TECHNOLOGY ITS-1, IT Park, EPIP, Sitapura, Jaipur (Approved by AICTE, New Delhi & Affiliated to RTU, Kota) Web: www.gitjaipur.com
Register through the online form available at https://forms.gle/af8uQDFv2a6G8tcm78 Note: The mode of FDP is an online platform. After registration. E-certificate will be provided to the participant with more than 80% attendance.	Workshop Fee: There is no fee for this workshop. Whatsapp Group: kindly join the whatsapp group after successful Registration. On mobile no. 9460742285 Registration Link: https://forms.gle/af8uQDFv2a6G8tcm78 Join WhatsApp Group after Registration:	

Departmental Activities

Workshop on “Thumb Rule in Civil Engineering” organized on 19th to 25th January, 2022

ABOUT GLOBAL INSTITUTE OF TECHNOLOGY

Global Institute of Technology Society (GITS) has been promoted by Kandoi Group; an Industrial House engaged in Manufacturing and Hospitality Business. Kandoi Group is actively involved in social activities such as running of the charitable school, organizing mobile surgical camps and blood donation camps.

Global Institute of Technology (GIT) enjoys the privilege of being the first private engineering college in North India to be accredited with an A grade by NAAC-UGC. The first shift offers B.Tech. Degree in seven significant branches of engineering, namely, Artificial Intelligence and Data Science, Electronics and Communication Engineering, Electrical Engineering, Mechanical Engineering, Computer Science and Engineering, Civil Engineering and Information Technology. It also offers a degree in two years full-time M.Tech in four branches: Digital Communication, Computer Science & Engineering, Power System and Production Engg

ABOUT Department of Civil Engineering GIT

Department devoted to provide high end research, technical education in Civil engineering which will produce competent and socially aware Civil professionals to meet the challenges in field and provide

solutions to global community. Provide ambience to create civil engineers of global standards to serve the society collaboratively, competently and ethically.

To serve the society and the nation by providing competent civil engineers, keen to apply knowledge and accept new challenges in rapidly changing technology to the satisfaction of stakeholders.

To inculcate professionalism in students through team work, effective communication and leadership skills.

To encourage and empower the faculty in the field of engineering education and mentoring for enhancing the teaching-learning process.

To impart hands on experience to aspiring undergraduates through interdisciplinary research projects, industrial training and consultancy work.

ABOUT WORKSHOP

This program aims to provide hands-on experience to the faculty, research scholars and students in the field of Civil Engineering & Construction. The program will help the participants to learn the principles of Estimating and costing the different items

and material required for constructions in different segment of civil engineering.

WORKSHOP SCHEDULE

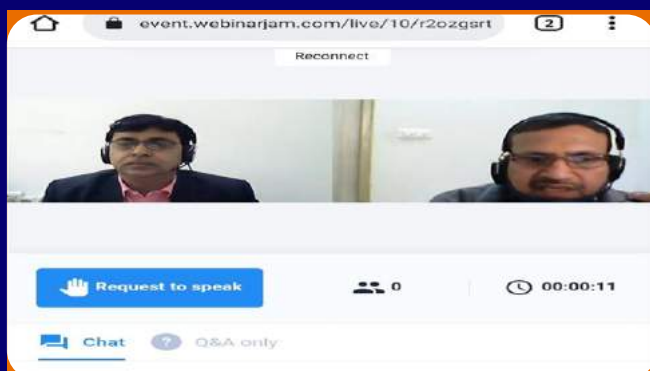
Dates	10:30-12:30
19-01-2022	Inaugural Ceremony-19:30-10:45 Session- Dr R.P.Kushwah Dr.B.P Suneja
20-01-2022	Former Prof & Dean RTU, Kota, Rajasthan Prof (Dr.) A.K.Dwivedi
21-01-2022	Dept Of Civil Engg RTU Kota Rajasthan
22-01-2022	Mr. D.P Sharma Consultant, USA
23-01-2022	Mr. Mr. H.C. Sharma Sr.Section Engg. Indian Railway N/W Region, Jaipur
24-01-2022	Mr. G.P Sharma Retd. Chief Engg. PWD Jaipur, Rajasthan
25-01-2022	Dr.I.C.Sharma Prof. & Principal GIT,Jaipur

REGISTRATION FEE

There is no registration fees.

CONTACT PERSON

Dr. R.P.Kushwah 9414248951
Mr. Abhishek Sharma 9460742285



Session on Thumb rule in Civil Engineering



Certificate Issued to Reserchers

Departmental Activities

Industrial Visit to Jaipur Metro Rail Corporation Ltd. (JMRC), Jaipur on 21st Feb 2022

An industrial visit was organized by the Department of Mechanical/Civil Engineering. The students along with four faculties, Mr. Anil Choudhary, Mr. Naweena Jha, Mr. Abhishek Sharma and Miss Shriyanka Prajapat went on an industrial visit to Jaipur Metro Rail Corporation Ltd., Mansarovar. Jaipur metro is a rapid system which is used for transportation by the people. Jaipur metro has been divided into two further routes usually known as pink line and orange line. The pink line is Phase-I A which starts from Mansarovar to Chandpole Bazaar. It has a length of 9.63 KM and has 7 intermediate stations with a starting and a terminal station. The construction of Phase-I B between Chandpole and Badi Chaupar is completed which is an underground line. Jaipur metro stations are the first stations in India which are wholly dependent on solar energy. The electricity used by the metro is 25000 KV. The power in Jaipur is supplied by two different junction points.



Workshop Jaipur Metro Rail
Corporation Ltd. (JMRC), Jaipur



Sharpest curve (JMRC), Jaipur



Glimpse of G.I.T Students at Metro



OCC (JMRC), Jaipur

Faculty Technical Articles

Additive Manufacturing as an Enabler for Industry 4.0 Practices

The evolution of Industry 4.0 practices brings the new research opportunities for decentralized production systems which helps to increase the productivity and efficiency of manufacturing organizations. Industry 4.0 is an umbrella term which consists key enabling technologies such as: additive manufacturing (AM), blockchain, augmented reality, IoT, machine learning, cyber physical systems and robotics. Manufacturing organizations are adopting AM technologies to satisfy mass customization demands of customer while satisfying the sustainability aspects. AM or rapid prototyping can be considered as the manufacturing process which aims to produce a specific shape or complex shape with layer-by-layer construction or manufacturing. AM technologies helps to reduce the manufacturing costs and emissions during the production stage or throughout the life cycle of the product. AM technology helps to maintain sustainability at product, process and system level. However, the research work in the AM is still limited in Industry 4.0 aspects. SMEs of the developing nations are still struggling with the adoption of AM enabled manufacturing practices due to lack of knowledge and business models of Industry 4.0. The literature review in

the AM in Industry 4.0 context is still limited. The research opportunities need to be explored to experience the benefits of AM in Industry 4.0. The present study aims to identify the different research clusters and research themes in the area of AM in Industry 4.0 context. The present study will be helpful for the researchers and policymakers to identify the future research potentials of AM in Industry 4.0 context. The global market is completely based on customized product and the whole business starts with complete customer satisfaction, so the importance of additive manufacturing is increasing day by day. The current revolution of industry 4.0 is completely focused on the increased productivity of the industry with correct output. In this new movement of increasing productivity, the additive manufacturing (AM) is an essential ingredient. The additive manufacturing gives the high efficiency of production with the different aspects of a product as per customer requirements. The industry 4.0 helps in making an effective communication bond between the client and the producer, as well as between the supplier and producers. With the help of industry 4.0 platform as shown in figure, industries are getting high flexibility in meeting mass customization. These days the global manufacturing market is shifted towards

Faculty Technical Articles

the automated production system.

Industry 4.0 helps it with different kind of technology. The AM helps to connect the virtual imagination with real world, where very less chance of flexibility is possible. Industry 4.0 is making it flexible with its technology. Additive manufacturing or 3D printing (3DP) is one of the important pillar of industry 4.0. Several world leading manufacturing countries including India have utilized the concept of 3DP on their projects on larger scales.

Additive manufacturing is the process of utilizing the industrial fabrication technique to generate solid objects model by using computer without the human intervention. The additive manufacturing technology is inclusion of the advance production technology of industry 4.0. The combination of different kind of material is treated in AM for taking the shape of real object, based on the presentation of 3D CAD data. In this technology, the different kind of ceramics, metals, metal alloy as well as plastics are used. It increases the flexibility in production.

In the rapid prototyping and other kind of production, the AM technology is used on large scale by different kind of industries, even in case of complex shape product, AM technology is very helpful as compare to traditional methods. A good level of production capabilities can be



achieved using this technology for any size and shape. The AM technology is perfect solution for customized, on demand production and its property gives the freedom for manufacturing. It is really a good innovation in Industry 4.0. Thus its clear now that the AM technology changes the direction of production and helps industry to increase the productivity with greater customer satisfaction with very less human effort and saved time .

Mr. Naween Kumar Jha

Faculty Technical Articles

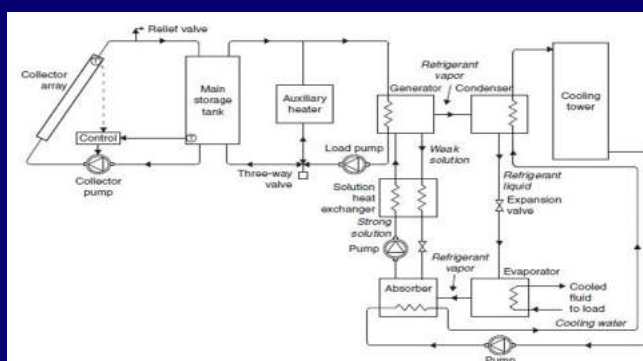
Solar Refrigeration: Sun is Cooling Here

A Fisherman in the village, who is located on the Mexican Pacific coast 18 degrees north of the equator has no electricity. Even for the past many years, the fisherman used to store the perishable fish with the help of ice. All required ice makers, are not powered by a grid or any electric supply but are run by the scorching sun, delivering half-ton of ice every day.

There's a global scramble to drive down emissions of carbon dioxide: the energy supply for refrigeration in India contributed 60 mtoe (million or mega tons of oil equivalent) annually as per BEE (Bureau of Energy Efficiency) in 2017 and the forecasted target is around double of this by 2027. Solar refrigeration may be applied as a reasonable and cheaper method and it would be a stress reliever to the electric grids too. As electricity demand peaks on hot summer due to collaborative consumption of domestic, commercial and industrial use.

The basic concept is the energy transfer when liquids turn to vapour and that cools you when you sweat. By this most common tactic, the one used by the refrigerator in your house uses an electric motor to compress a refrigerant say, Freon turning it into liquid. When the pressure created by the compressor is

released, the liquid evaporates, absorbing heat and lowering the temperature. The conventional refrigeration technique i.e. vapour compression refrigeration system involves four major components, Evaporator, Compressor, Condenser & Expansion device. To reduce the energy consumption, we introduce absorber, Pump, Solution heat exchanger, Generator and expansion device to replace the significant energy-consuming component. To fulfil the purpose of refrigeration, the heat collected by the solar collector array is supplied to the generator by different arrangements where pumping may or may not be a requirement.



The two famous combinations are a mixture of water with either lithium bromide or ammonia. In both cases, the refrigerant is absorbed at low pressure and temperature, as this is an exothermic reaction.....

Mr. Sunil Sharma

Faculty Technical Article's

Behaviour of Concrete Utilizing AR Glass Fibre as a Partial Replacement of Cement

Concrete is the construction material without which the life of construction industry cannot be imagined. It has been known that concrete is stronger in compression and weaker in tension. Weak tensile strength combined with brittle behavior, results in sudden tensile failure of structural member without any warning. The aim of this investigation is to decrease environmental pollution & energy consumption use in cement production and to improve the tensile behavior of concrete by using AR glass fiber as a partial replacement of cement in concrete. Concrete is the most widely used construction material in the world. It is the homogenous mixture of binding material, sand and aggregates. The simplest reason for its extensive use in the construction of almost all civil engineering works is that the properties can be controlled by using appropriate ingredients. It has been known that concrete is stronger in compression and weaker in tension.

Fibres are commercially available and manufactured from steel, plastic, glass and other natural materials. The effect of the fibre in the composite leads to an increase in the tension and impact

strength of the concrete glass fibre. Fibre Reinforced Concrete can be defined as a composite material consisting of mixtures of cement, sand, cement and discontinuous, discrete, uniformly dispersed suitable fibres. Fibre reinforced concrete has different types and properties with many advantages. Continuous meshes, woven fabrics and long wires or rods are not considered as discrete fibres. It reduces the air voids and water voids, the inherent porosity of gel in concrete and it increases the durability of the concrete. Fibres such as graphite and glass have excellent resistance to creep, while the same is not true for most resins. Therefore, the orientation and volume of fibres have a significant influence on the creep performance of rebars/tendons. Reinforced concrete itself is a composite material, where the reinforcement acts as the strengthening fibre and the concrete as the matrix. It is therefore imperative that the behavior under thermal stresses for the two materials is similar so that the differential deformations of concrete and the reinforcement are minimized. There are various types of fibres that can be used to produce concrete like steel fiber, polypropylene fiber, GFRC glass fiber, asbestos fibres, carbon fibres, organic fibres etc.....

Mr. Abhishek Sharma Mr. Usman Md.

Faculty Technical Articles

Experimental Investigation on Concrete Utilizing Used Surgical Mask

Concrete industry requirements always changes with time and with present scenario of covid, we have to introduce the waste of covid in concrete industry. Concrete can be manipulated in many different aspects. Admixtures and material replacements are very commonly used. Many have experimented with introducing recycled materials into concrete batches, such as shredded rubber tires, crushed glass, or fly ash. There are numerous single-use products polluting the Earth, harming wildlife, and endangering fragile environments. These could be reduced, reused, and recycled in various construction materials. As we know, production and consumption of face masks increases, so does the environmental danger. Today, waste materials are being used more and more in concrete to reduce the environmental impact. Fly ash, glass, and tires are a few examples of waste products that have been used in concrete. These materials pose a serious threat to the environment, so it is better that they are reused instead of being trashed.

At the end of 2019, an unknown virus causing pneumonia was discovered in Wuhan, China. It was reported to the World Health Organization(WHO) and named corona virus disease 2019(COVID-

19). The virus rapidly spread worldwide, causing millions of infections and deaths. In March 2020, WHO declared it the highest epidemic alert phase risk level. The Covid-19 pandemic has increased the production and use of disposable or single-use face masks. Face masks are one of the preventative measures that was being used to slow the spread of infection. Due to the COVID-19 pandemic, people have started wearing surgical masks in order to take precautionary measures, which has dramatically increased the amount of waste created. According to research, one surgical mask per person, per day for a year in the UK would create over 124,000 tons of plastic waste. World health organization estimated that nearly 89 million masks were needed to control COVID-19 each month. Face masks are a source of micro plastic contaminants in water ecosystems and in indoor and outdoor air as polypropylene and other plastics-polystyrene, polycarbonate, polyethylene, or polyester, among others are used in making face masks. This constitutes a big problem related to health for different living beings, including humans and the environment as a whole. Thus, some voices are claiming that the circular economy principle should guide policy making for the management of

Faculty Technical Article's

medical waste and, specifically, single-use face masks. A research can be performed on the life cycle analysis of single-use and reusable face masks. Since the beginning of the pandemic, several researchers have made a characterization of face masks using several techniques. Mainly, the studies have been focused on disinfection and reuse of the masks, among other solutions. The masks were produced by thermal, morphological, and chemical analyses, proposing recycling of the resulting material after thermal treatment. Mask usage ranges from 0% to 10% with 2.5% increment and is used in concrete after checking different properties. From results, it can be concluded that the surgical mask waste can be used in concrete.

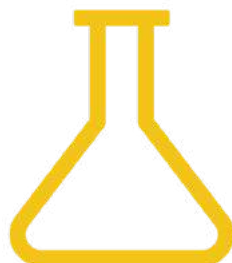
Basant Kr. Bansal

Faculty Achievement



Mr. Abhishek Sharma Awarded Education Excellence Award by Raghu Singh Mala Mathur Trust on the Occasion of Teacher's Day (5th September, 2022)

Department of Applied Science



DEPARTMENT OF APPLIED SCIENCE



Mrs. Sushila Mahla
Head of the Department
1st Year

About Department

The Department of Applied Science offers core courses in Mathematics, Physics, Chemistry, Communicative English and Human values and professional ethics to B. Tech 1st year students. The department has well equipped laboratories to impart practical training to the students in the field of Physics, Chemistry, Basics of Computers and Computer graphics. Two separate Communicative English labs are set up with well equipped Software. The purpose of the Communicative English lab is to enhance the communication skills of students as well as preparing them for future perspectives.

Departmental Activities

Industrial Visit to R-CAT (Rajiv Gandhi Centre for Advanced Technology) On 14th & 15th November 2022

Department of Applied Science went to visit Rajeev Gandhi Centre of Advance Technology (R-CAT) to understand the objective of R-CAT and to make students aware on upcoming technology courses, scholarship, webinars & other benefits offered by R- CAT to the students of Rajasthan. When we reached at the venue, R-CAT officials and faculty members welcomed us at the main gate for a group photo session with us. We were guided by the wonderful host, Mr. Manish Mathuria and his expert team. We were there for 3 hrs. We visited all four floors and experienced a very good infrastructure, high-tech classrooms, Laboratories, auditorium and robots.



Visit photograph at GIT Main gate



Working Project Ideas



Visit photograph at GIT Main gate
R-CAT



Mentos Explaining Ideas behind
Drones

Departmental Activities

15 Days Induction Training Programme For New Students, September 26th-10th October , 2022

The objective of the Induction Programme is to make the students feel comfortable in their new environment, open them up to set a healthy daily routine, create bonding in the batch as well as between faculty and students, develop awareness, sensitivity and understanding of the self, people around them, society at large, and nature. The time during the Induction Program is also used to rectify some critical lacunas and sensitize them towards exploring their academic interest and activities, reducing competition and making them work for excellence, build relations between teachers and their seniors.



Campus Visit



Campus Visit



ORIENTATION PROGRAM



ORIENTATION PROGRAM

Departmental Activities

15 Days Induction Training Programme For New Students, September 26th-10th October , 2022



ORIENTATION PROGRAM



ORIENTATION PROGRAM



ORIENTATION PROGRAM



ORIENTATION PROGRAM



ORIENTATION PROGRAM



ORIENTATION PROGRAM

Departmental Activities

Fresher's Party "Samanvaya" Organized On 16th Dec., 2022

The Fresher's Party "Samanvaya" was held on 16 December, 2022. This event was organized by 2nd year students for welcoming the freshers. The inauguration of the event took place in the main auditorium at Global Institute of Technology, Jaipur. The event started around 9:30 A.M. with lamp lighting by the chief guest, Chairman of GIT, Mr. Raj Kumar Kandoi along with the other dignitaries.



"Samanvaya" Freshers Party Glimpses



"Samanvaya" Freshers Party Glimpses



"Samanvaya" Freshers Party Glimpses



"Samanvaya" Freshers Party Glimpses



"Samanvaya" Freshers Party Glimpses



"Samanvaya" Freshers Party Glimpses

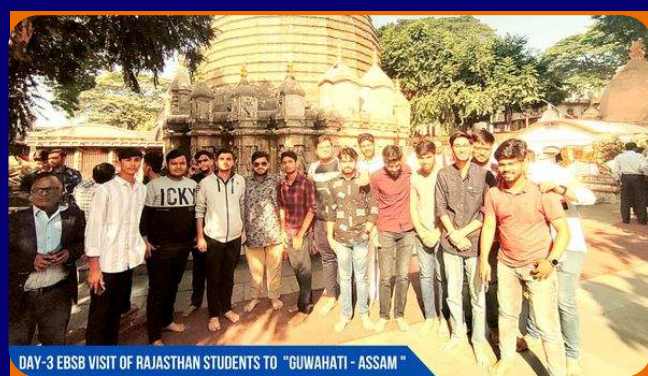
Event at a Glance

Ek Bharat Shreshtha Bharat (EBSB) Visit to Guwahati Assam on 14th-18th Nov, 2022

A group of 37 Students and Coordinators from Rajasthan reached at GUWAHATI (Assam) from GLOBAL INSTITUTE OF TECHNOLOGY, JAIPUR (RAJ.).

Visiting Group is Escorted by SSB Commandant and Received By Paired Institute NETES Institute of pharmaceutical Science, MIRZA.

Students visited the Archeological Sites and Monuments representing the local culture of Assam. This EBSB VISIT was held to carry out activities to promote a sustained and structured cultural connect in the areas of language learning, culture, traditions & music, tourism & cuisine, sports and sharing of best practices.



Event at a Glance

DD Rajasthan Yuva Tarang - नव भारत - कौशल भारत on 8th Nov 2022



GLOBAL
INSTITUTE
of
TECHNOLOGY

YUVA TARANG
नव भारत - कौशल भारत

तकनीकी शिक्षा
और
उद्योग में रोजगार



TUESDAY

START AT 6:30PM

08 NOV 2022



WEDNESDAY

START AT 9:30AM

09 NOV 2022

► LIVE



DD RAJASTHAN



Speaker

MR. NAMAN KANDOI

**Academician & CEO
GLOBAL INSTITUTE OF
TECHNOLOGY**



GIT College Student at Doordarshan Studio



Students Attending Session

Event at a Glance

VANQUISH (Inter College National Level Sports Meet) on 12th-14th Dec 2022

A student's life is not less than a rollercoaster. In addition to learning new skills and exploring various opportunities, a student has a lot to deal with in terms of assignments, practical, exams, internships, workshops, lectures, and much more which is essential to ensure optimum academic development. Amidst the busy schedule, it is very important to take a break to refresh oneself. This is where extracurricular activities play a vital role. During college life, these activities keep you positive, fresh, energetic and it goes a long way in making you more productive. Not only do they lighten your mood, but they also help in shaping your overall personality and interpersonal skills. With this thought in mind and keeping sports a priority, a -3 Day sports competition, Vanquish 2022 was inaugurated on December 12-2022 at Global Institute of Technology, Sitapura, Jaipur. In this competition, 68 teams participated in various sports from various engineering colleges/universities of Rajasthan.



INAUGURAL CEREMONY



VOLLYBALL



CHESS



GULLY CRICKET

Event at a Glance

VANQUISH (Inter College National Level Sports Meet) on
12th-14th Dec 2022



FOOTBALL



KABBADI



CARROM



BADMINTON



TABLE TENNIS



KHO-KHO

Event at a Glance

JIGYASA (National Level Techno Fest) on 9th -13th Dec 2022

In order to provide a platform where the students can showcase their extracurricular and technical skills, we at GIT organize a technical cum-cultural festival every year where students from various colleges participate.

It provides a platform for young brains to showcase their innovative ideas and compete with their peers. These technical events are an example of fun and learning where spectacular ideas are displayed that inspires students and make them learn a lot.



DEBATE COMPETITION



COMPUTER GAMING



PAPER PRESENTATION



COMPUTER GAMING

Event at a Glance

RUDRIKA (NATIONAL LEVEL CULTURAL FEST) on 14th Dec 2022

The Inter-College Cultural Fest named “RUDRIKA-2022” was organized on 14th of December, 2022 by GIT Jaipur. “RUDRIKA” is an exceptional confluence of Exquisite Cultural displays with Technological innovations reverberating in an Aura filled with Excitement, Amusement, and Splendor. This Cultural event brings college students from all over the country who participates with full enthusiasm and excitement. Singing and Dancing are the Heart of Cultural Events but we can’t leave Drama, Poetry, Singing and Open Mic that makes this event even more delightful. People say, the world’s a stage, but “RUDRIKA” lets you capture the world on the stage, with the compelling performances of talented Executants.



DANCE



OPEN MIC



KAVYANSH



HUNKAR

Placement Cell



About T&P Cell

T&P cell is a department that helps our student to become industry ready so that they can face the real world and excel in their career. We play vital role to train students in professional skills that build their confidence while appearing for campus placements. We work round the clock with full enthusiasm to connect with corporate world to find out latest skills required by the companies. GIT, Jaipur is well equipped with all in-house facilities to carry out industry specific trainings and to conduct campus placement drives. T&P cell have many training partners and vendors to run skill development courses and having plenty of corporate tie ups that cater the need for student's career building. We train our students to develop interpersonal skills, management skills, logical skills under the guidance of industry professional, Alumni and eminent faculty members of GIT Jaipur.

From Desk of T&P Officer



T&P Officer

Mr. Arsad Nadeem

At GIT, we guide our student to become a professional that carries moral and ethical values to make society a better place to live. We train our student to become a problem solver and a logical thinker.

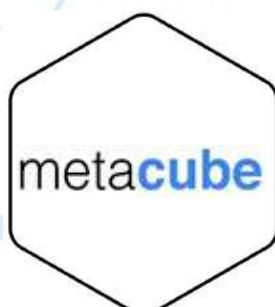
T&P cell make continuous efforts to inculcate corporate culture & competitiveness as required in the global market. Hence this cell plays a vital role in grooming students in the latest technologies of the corporate world. The objective of the cell is to conduct placement activities by liasoning with the corporate world. Consistent efforts over the last few years from this cell has led to very high-quality placement records. We constantly thrive to give students maximum opportunities for campus placements and get them good salary packages.

We are growing under the top management leadership of Honorary Chairman Shri Raj Kumar Kandoi and CEO Mr. Naman Kandoi who gives full support to T&P cell and its activities. Our efforts and support to our students bring glory to the institute by placing themselves in reputed industries and well-known companies.

Top Recruiters



Top Recruiters



Media Coverage

कला व संस्कृति से रुबरु हुए स्टूडेंट्स



जयपुर @ पत्रिका प्लस. आजादी के अमृत महोत्सव 'एक भारत श्रेष्ठ भारत' कार्यक्रम के तहत राजस्थान के 36 स्टूडेंट ने पांच दिवसीय भ्रमण के दौरान असम की कला व संस्कृति को करीब से जाना। इसमें गुवाहाटी के एनईटीईएस इंस्टीट्यूट ऑफ फार्मास्यूटिकल साइंस ने ग्रुप की मेजबानी की। ग्लोबल इंस्टीट्यूट ऑफ टेक्नोलॉजी जयपुर को एक भारत श्रेष्ठ भारत भ्रमण कार्यक्रम का नोडल सेंटर चयनित किया गया था। इस दल में स्कूल के 12, कॉलेज के 17 स्टूडेंट सहित शिक्षक शामिल थे।



वार्षिक उत्सव में विजेता पुरस्कृत हुए

जयपुर | सीतापुरा स्थित ग्लोबल इंस्टीट्यूट ऑफ टेक्नोलॉजी में 7 दिवसीय टेक्निकल और कल्चरल फेस्ट-22 के समापन समारोह के साथ वार्षिक उत्सव का आयोजन किया गया। समारोह के मुख्य अतिथि राजस्थान टेक्निकल यूनिवर्सिटी कोटा के उप कुलपति प्रो. एस के सिंह ने शैक्षणिक और फेस्टिवल के विजेताओं को पुरस्कार प्रदान किए। इंस्टीट्यूट के चेयरमैन राजकुमार कंदोई ने साफा पहनाकर उप कुलपति का स्वागत किया। समारोह में इंस्टीट्यूट के सीईओ नमन कंदोई, प्रवीण शर्मा, प्रिंसिपल डॉ. आई सी शर्मा उपस्थित रहे।



'वैंकवीश-22' खेलकूद प्रतियोगिता का आगाज



जयपुर | सीतापुरा स्थित ग्लोबल इंस्टीट्यूट ऑफ टेक्नोलॉजी में सोमवार को 4 दिवसीय वैंकवीश-22 खेलकूद प्रतियोगिता का शुभारंभ हुआ। प्रतियोगिता में राजस्थान के विभिन्न इंजीनियरिंग कॉलेज/यूनिवर्सिटी से विभिन्न खेलों में 68 टीमों में भाग ले रही हैं। जीआईटी के चेयरमैन राजकुमार कंदोई ने सभी प्रतिभागियों को खेल भावना से खेलने की शपथ दिलाई और छात्रों के जीवन में खेलकूद के महत्व को समझाया।

हैकाथॉन कोडफिएस्टा 1.0 का आयोजन नई तकनीकों पर हुआ मंथन

पत्रिका plus रिपोर्टर

जयपुर. सीतापुरा स्थित ग्लोबल इंस्टीट्यूट ऑफ टेक्नोलॉजी में 24 घंटे का हैकाथॉन कोडफिएस्टा 1.0 का आयोजन हुआ। राजस्थान के विभिन्न इंजीनियरिंग कॉलेज और यूनिवर्सिटी की 90 टीमों ने भाग लिया। विद्यार्थियों को नई टेक्नोलॉजी जैसे आइओटी, एआईएमएल और डाटा साइंस समस्याओं से संबंधित प्रारूप दिया



गया। जीआईटी के सीईओ नमन कंदोई ने बताया कि जीआईटी जयपुर प्रथम, पूर्णिमा इंस्टीट्यूट द्वितीय और गवर्नमेंट वूमन कॉलेज अजमेर टीम ने तीसरा स्थान प्राप्त किया। इस दौरान जीआईटी प्रिंसिपल डॉ. आई सी शर्मा भी उपस्थित रहे।

जीआईटी जयपुर का 20वां वार्षिक उत्सव इंडस्ट्री की डिमांड के अनुसार खुद को करें तैयार-प्रो.सिंह

जयपुर @ पत्रिका प्लस. सीतापुरा जयपुर स्थित ग्लोबल इंस्टीट्यूट ऑफ टेक्नोलॉजी में 7 दिवसीय टेक्निकल और कल्चरल फेस्ट 22 का गुरुवार को समापन हुआ। समारोह के मुख्य अतिथि आरटीयू कोटा के उप कुलपति प्रो. एस के सिंह ने शैक्षणिक और फेस्टिवल के विजेताओं को पुरस्कार दिए। सिंह ने कहा कि छात्रों को इंडस्ट्री की डिमांड के अनुसार खुद को तैयार करना चाहिए। इंस्टीट्यूट के चेयरमैन



राजकुमार कंदोई ने सिंह का स्वागत किया। जीआईटी के सीईओ नमन कंदोई, प्रवीण शर्मा, प्रिंसिपल डॉ.आईसी शर्मा भी उपस्थित रहे।

Alumni Testimonials



Layee Joshi
CEO, Founder Multibhashi

GIT has been a pioneer in building my Cyber Security Career. The support and encouragement I received from Mr. Naman Kandoi Sir played an essential role to follow my passion. I will always be indebted to our Training and Placement Team for leaving no stone unturned for our placements in Reputable Organizations.



Prajjwal Arora
Software Engineer, GeekyAnts

"GIT Jaipur will always hold a special place in my heart as it was the place where I completed my BTech in Computer Science Engineering and was part of the graduating batch of 2022. The faculty members at GIT were more than just educators - they were mentors who supported and encouraged me throughout my time there. I am deeply grateful for their guidance and the role they played in my learning and development. I highly recommend GIT to any student looking to launch a successful career in the tech industry .



Nishant Kumar
Project Engineer Turbo ,Wipro

Every day of Engineering has fascinated me, excited me, and entrusted me with an endless opportunity that has helped me develop as an Engineer in life. GIT, Jaipur has selflessly helped and supported me to grab opportunities that came my way. I got placed in Wipro, HCL, and Skill Vertex. I am extremely thankful to the Training & Placement Cell for their efforts and constant support.



Abhishek Kumar
Production Engineer
Maruti Suzuki

"I am grateful to Global Institute of technology for the environment provided to us. The amount of courses available in each domain are vast compared to other colleges. We have different expertise for research area from our department and they encourage us to take our interest to a platform where we can share our ideas with the community. The department has different clubs to promote interest of students. As for placements, we have a placement training program prior to the placement drives and we have numerous companies of different domains for each of the specialized fields to make sure that the students seek career in their interests.



Jitendra Vishnolia
DGM at Tata Motors

I really like the placement process of our college, everyone is working really hard for all the students so that they could get easily placed in best companies. I was really lucky that I got placed in our first ever placement drive at Tata Motors



Manoj Kumar Verma
Lead Engineer
Mahindra & Mahindra

Hello everyone, I am from Global Institute of technology I am very proud to be part of Global Institute of technology. This College is a perfect example for personality development & academic excellence, not only it enhances the student's academic strength but also amplifies the student's progress in co-curricular activities. The teachers are very reasonable & understanding. The staff is excellent & the rules help keep the College safe & in order. They guide us down the right path. They always believe you & they make sure you try your hardest in everything you do.

SPORTS FACILITY @ GIT





GLOBAL INSTITUTE OF TECHNOLOGY

Ranked 'A' by Rajasthan Technical University (RTU),
Kota and has been Accredited Twice by NAAC



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