



## DEPARTMENT OF COMPUTER ENGINEERING & INFORMATION TECHNOLOGY

SURESH GYAN VIHAR UNIVERSITY

# NEWSLETTER



### HOD'S MESSAGE

Dear Students,

As the Head of the Computer Science Department at Suresh Gyan Vihar University, I am delighted to share with you the fantastic news that our academic staff have been recognized for their exceptional work in various fields, such as artificial intelligence, computer security, and human-computer interaction. These awards and honors are a testament to their pioneering efforts in advancing the industry and ensuring that our department remains a leader in innovative practices.

I believe that our department's success is not just attributed to the achievements of individual staff members but also to the collaborative work culture and dedication of the entire team. We take pride in fostering an environment that encourages creativity, research, and continuous learning to drive academic excellence.



**MR. SOHIT AGARWAL**

(HOD - CEIT DEPARTMENT)

Faculty Co-ordinator  
Ms. Neny Pandel

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**MR. SAURAV RANJAN  
(CHIEF EDITOR)**

"I hope this edition of the newsletter is informative and inspiring. Your suggestions for future topics or contributions are always welcome, so please feel free to contact me. Enjoy the read!"

# "Research Publications Highlighted in Department Newsletter for Faculty and Students"



**NAME: MR. SOHIT AGARWAL**

Assistant Professor

**AUTHOR: SOHIT AGARWAL**

**PART OF ISSN: 0974-6846**

**PART OF ISSN: 0974-5645**

Publication : Indian Journal  
of Science and Technology;  
Year: 2022, Volume: 15,  
Issue: 47

## " Context Aware Image Sentiment Classification using Deep Learning Techniques "

**WebOps Science** is a platform that accredits research publications in the Indian Journal of Science and Technology. It is a leading organization that aims to ensure the quality of research publications and help researchers publish their work in reputable journals. With a team of experienced reviewers and editors, WebOps Science evaluates research publications for their scientific merit, clarity, and adherence to ethical standards. Accreditation by WebOps Science assures readers and researchers that the publication has undergone a rigorous review process and meets the standards of scientific integrity. Through its accreditation process, WebOps Science helps to promote and advance scientific research and discovery.

**Citation:** Sohith Agarwal, Mukesh Kumar Gupta (2022) Context Aware Image Sentiment Classification using Deep Learning Techniques . Indian Journal of Science and Technology 15(47): 2619-2627. <https://doi.org/10.17485/IJST/v15i47.1907>



**NAME: MR. SOHIT AGARWAL**

Assistant Professor

**AUTHOR: SOHIT AGARWAL**

**ISSN: 18173195 19928645**

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Theoretical and Applied  
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## " EMOTION DETECTION USING CONTEXT BASED FEATURES USING DEEP LEARNING TECHNIQUE "

**SCOPUS** is a comprehensive database that indexes and provides abstracts for scientific, technical, medical, and social science literature. It is widely used by researchers, academicians, and institutions across the world to identify, evaluate, and select high-quality research publications. **Indian Journal of Science and Technology** is a peer-reviewed open-access journal that publishes research papers, reviews, and short communications in various fields of science and technology. SCOPUS accreditation for Indian Journal of Science and Technology signifies that the journal has been rigorously evaluated for its editorial quality, peer-review process, and scholarly content. It also indicates that the journal meets the highest standards of academic publishing and that the research publications in the journal are recognized by the global research community.

**Citation:** Agarwal S, Gupta MK (2022) EMOTION DETECTION USING CONTEXT BASED FEATURES USING DEEP LEARNING TECHNIQUE. Journal of Theoretical and Applied Information Technology. <http://www.scopus.com/inward/record.url?eid=2-s2.0-85140380690&partnerID=MN8TOARS>

# "Recognizing Our Respected Educators: Commemorating Teachers' Day"



On September 5th, 2022, the Computer Engineering and Information Technology (CEIT) department students celebrated Teachers' Day to express their gratitude and appreciation to their mentors. The day was filled with fun activities and memorable events that brought together the students and faculty members.

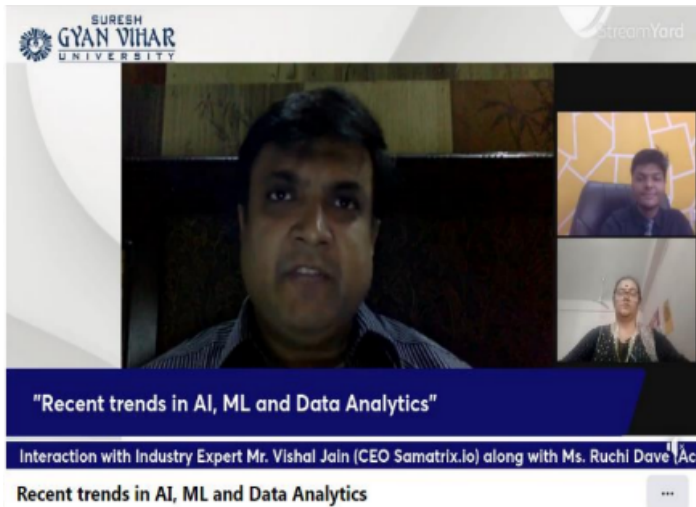
The day started with a special assembly in the LT, where the students gave speeches and presented handmade cards to their teachers. The speeches were heartfelt and emotional, thanking the teachers for their guidance and support in shaping their future. The teachers were overwhelmed by the affectionate words and kind gestures of the students.



The highlight of the day was a talent show, where the students performed different acts to entertain the teachers. The performances ranged from singing and dancing to comedy skits and poetry recitations. The teachers were impressed by the students' talents and applauded them for their efforts.

the students surprised the teachers with a cake cutting ceremony, followed by a group photograph. The teachers expressed their gratitude for the love and respect shown by the students and shared their experiences of teaching in the CEIT department.

# Stay Connected to Departmental Activities



Mr. Vishal Jain (CEO Samatrix.io)

## Live Interaction with Industry Expert

Recent trends in AI, ML and Data Analytics

The department hosted an informative session featuring industry expert Mr. Vishal Jain, CEO of Samatrix.io, along with academic expert Ms. Ruchi Dave and student moderator Mr. Tirth Modi. The session aimed to raise awareness of the practical applications of AI, ML, and data analytics in the software industry. Students gained insight into the latest technologies and skills necessary for computer graduates. The interactive session provided students with an understanding of current trends and emerging areas in software development. Overall, the session successfully achieved its objective of equipping students with the knowledge required to stay up-to-date in the fast-paced technology industry.



Mr. Sachin Tank (Team Lead, Paytm)

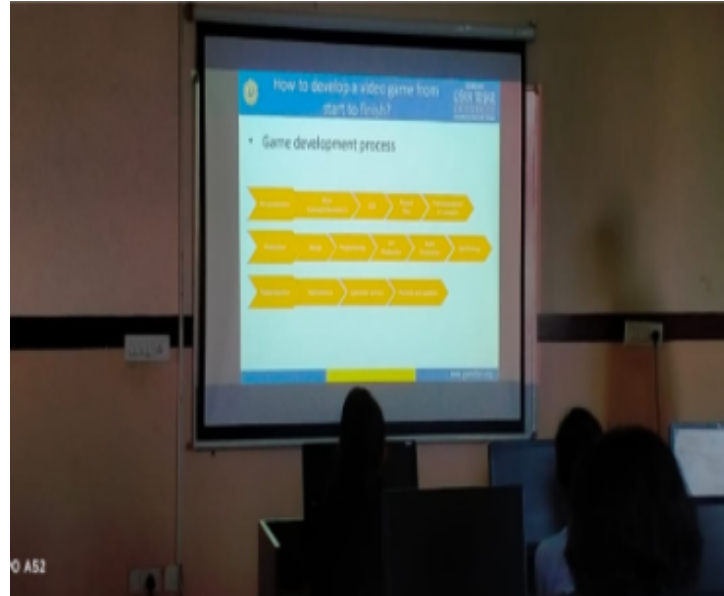
## Workshop on Product Design

We're thrilled to announce the success of our recent weekly web development activity, aimed at helping students improve their web development skills.

Participants gained valuable knowledge and experience in front-end development, web content development, client-side/server-side scripting, and network security settings. By applying basic design and programming principles, students created visually appealing and functional websites. With their newfound skills, they can now develop websites and present information effectively.

We're proud of their achievements and confident they will excel in their future web development careers. Stay tuned for more exciting opportunities to enhance your skills at our university.

# Exclusive Insights into Department Activities



## Hands on Workshop on 3D Gaming Design and Development Using Unity tool

On July 12, 2022, a Hands-on Workshop on 3D Gaming Design and Development Using Unity tool was conducted with the objective of making students aware of the importance of pursuing a career in gaming design and development. The workshop was conducted by Shanu Mudgal, a B.Tech. CSE-VII Sem. student who has extensive experience in game design and development using Unity tool.

The workshop was designed to be a weekly activity, and it focused on providing students with practical knowledge and skills required to design and develop 3D games using Unity tool. The workshop was attended by students from various streams who were interested in learning about game design and development.

## Expert Session on Communication Skill Development



On December 14, 2022, a weekly activity was conducted on Communication Skill Development, with the objective of enabling students to communicate clearly and with impact. The activity was conducted by Mr. Darpan Kungwani, a skill trainer who specializes in communication and interpersonal skills.

The activity was designed to provide students with practical knowledge and skills required to improve their verbal and non-verbal communication style and enhance their interpersonal skills.

# VALUE ADDED COURSE

## CYBER SECURITY

Cyber security is the practice of defending computers, servers, mobile devices, electronic systems, networks, and data from malicious attacks. It's also known as information technology security or electronic information security.

- Security Management
- Identity and Access Management
- Security Engineering
- Cryptography

## ETHICAL HACKING

Ethical Hacking is defined as any form of hacking that is authorized by the owner of the target system. Ethical Hacking is the process of bypassing or cracking security measures implemented by a system to find out vulnerabilities, data breaches, and potential threats.

- Wireless Network Hacking
- Reconnaissance Techniques
- Network and Perimeter Hacking
- Penetration Testing



**SURESH GYAN VIHAR UNIVERSITY**

**DEPARTMENT OF COMPUTER ENGINEERING AND INFORMATION TECHNOLOGY**

**COURSE OFFERED FOR B.TECH CSE-III SEM**

**INTRODUCTION TO CYBER SECURITY AND ETHICAL HACKING**

20 September 2022 -  
7 December 2022

TIME - 4:00 PM to 4:50 PM



**SURESH GYAN VIHAR UNIVERSITY**

## CYBER SECURITY AND ETHICAL HACKING

The introduction of a value-added course in the CEIT department is a great step towards enhancing the skillset of students. This course is designed to provide additional value to the existing curriculum and make students more employable in the industry. The CEIT department has recognized the need for this course to keep up with the rapidly changing technological landscape.

This value-added course is designed to provide participants with a comprehensive understanding of cyber security and ethical hacking. The course covers topics such as network security, web security, cryptography, penetration testing, and ethical hacking techniques. The aim is to help participants develop skills and knowledge in the field of cyber security and become proficient in ethical hacking practices.

## INTRODUCTION TO EMBEDDED SYSTEMS

Embedded Systems and general purpose computer systems, history, classifications, applications and purpose of embedded systems.

Core of Embedded Systems :

Microprocessors and microcontrollers, RISC and CISC controllers, Big endian and Little endian processors, Application specific ICs, Programmable logic devices, COTS, sensors and actuators, communication interface, embedded firmware, other system components, PCB and passive components.

**Topics Offered in Course:**

- Characteristics and quality attributes of embedded systems : Characteristics, Operational and nonoperational quality attributes, application specific embedded system - washing machine, domain specific - automotive.
- Programming Embedded Systems : Structure of embedded program, infinite loop, compiling, linking and locating, downloading and debugging.
- Embedded hardware : Memory map, i/o map, interrupt map, processor family, external peripherals, memory - RAM, ROM, types of RAM and ROM, memory testing, CRC, Flash memory.
- Peripherals : Control and Status Registers, Device Driver, Timer Driver-Watchdog Timers, Embedded Operating System, Real-Time Characteristics, Selection Process.
- Design and Development : Embedded System



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**DEPARTMENT OF COMPUTER ENGINEERING AND INFORMATION TECHNOLOGY**

**COURSE OFFERED FOR B.TECH CSE-V SEM**

**EMBEDDED SYSTEM**

20 September 2022 -  
12 December 2022

TIME - 4:00 PM to 4:50 PM



**SURESH GYAN VIHAR UNIVERSITY**

## EMBEDDED SYSTEM

In today's competitive world, having just a degree is not enough. Employers are constantly seeking candidates with a broader skillset that goes beyond academic qualifications. With this in mind, the CEIT (Computer Engineering and Information Technology) department has introduced a value-added course for its students. The value-added course is designed to provide students with additional skills and knowledge that will make them more competitive in the job market. This value-added course is designed to provide participants with an understanding of embedded systems, their design, and applications. The course covers topics such as microcontrollers, real-time operating systems, sensors, actuators, and interfacing techniques. The aim is to help participants develop skills and knowledge in designing and developing embedded systems.

# VALUE ADDED COURSE

## INTRODUCTION TO DATA SCIENCE

Data science is the domain of study that deals with vast volumes of data using modern tools and techniques to find unseen patterns, derive meaningful information, and make business decisions.

## TOPICS OFFERED IN COURSE -

- Applied Statistical Analysis
- Optimization & Framework
- Data Mining
- Data Structures Using C
- Introduction to Machine Learning
- Introduction to R



**SURESH GYAN VIHAR UNIVERSITY**

**DEPARTMENT OF COMPUTER ENGINEERING AND INFORMATION TECHNOLOGY**

**COURSE OFFERED FOR B.TECH CSE-VII SEM**

**DATA SCIENCE FOR ENGINEERS**

10 August 2022 - 24 November 2022

TIME - 4:00 PM to 4:50 PM



**SURESH GYAN VIHAR UNIVERSITY**

## DATA SCIENCE FOR ENGINEERS

The CEIT (Computer Engineering and Information Technology) Department has introduced a Value Added Course to enhance the skills of its students. The Value Added Course is designed to equip students with additional skills and knowledge that will be useful in their future careers. The course will cover various topics such as project management, communication skills, entrepreneurship, leadership, and critical thinking. This value-added course is designed to provide participants with an understanding of data science and its applications in engineering. The course covers topics such as data analysis, data visualization, machine learning, and deep learning. The aim is to help participants develop skills and knowledge in data science and apply them in engineering problems to make data-driven decisions

## VALUE ADDED COURSES CERTIFICATE



**SURESH GYAN VIHAR UNIVERSITY**

**CERTIFICATE OF COURSE COMPLETION**

This is to certify that

**ABHAY RAJ SHUKLA**

has successfully completed a Value Added Course on "INTRODUCTION TO CYBER SECURITY AND ETHICAL HACKING" During the course completion his/her performance was satisfactory

Organized by

Course Tenure : 20 September 2022 - 7 December 2022

DEPARTMENT OF COMPUTER ENGINEERING AND INFORMATION TECHNOLOGY

SURESH GYAN VIHAR UNIVERSITY, JAIPUR

*Pooja Varshney*  
POOJA VARSHNEY  
Course Co-ordinator  
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Jaipur

*Sohit Agarwal*  
SOHIT AGARWAL  
Head, Department of CEIT  
Suresh Gyan Vihar University,  
Jaipur



**SURESH GYAN VIHAR UNIVERSITY**

**CERTIFICATE OF COURSE COMPLETION**

This is to certify that

**AKSHAT NAUTYAL**

has successfully completed a Value Added Course on "EMBEDDED SYSTEM" During the course completion his/her performance was satisfactory

Course Tenure : 20 September 2022 - 12 December 2022

Organized by

DEPARTMENT OF COMPUTER ENGINEERING AND INFORMATION TECHNOLOGY

SURESH GYAN VIHAR UNIVERSITY, JAIPUR

*Neha Pandel*  
NEHA PANDEL  
Course Co-ordinator  
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Suresh Gyan Vihar University,  
Jaipur

*Sohit Agarwal*  
SOHIT AGARWAL  
Head, Department of CEIT  
Suresh Gyan Vihar University,  
Jaipur



**SURESH GYAN VIHAR UNIVERSITY**

**CERTIFICATE OF COURSE COMPLETION**

This is to certify that

**ABHISHEK KUMAR**

has successfully completed a Value Added Course on "DATA SCIENCE FOR ENGINEERS" During the course completion his/her performance was satisfactory

Course Tenure : 10 August 2022 - 24 November 2022

Organized by

DEPARTMENT OF COMPUTER ENGINEERING AND INFORMATION TECHNOLOGY

SURESH GYAN VIHAR UNIVERSITY, JAIPUR

*Priyanka Gupta*  
PRIYANKA GUPTA  
Course Co-ordinator  
Assistant Professor - CEIT  
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Jaipur

*Sohit Agarwal*  
SOHIT AGARWAL  
Head, Department of CEIT  
Suresh Gyan Vihar University,  
Jaipur

# NPTEL EXAMINATION



# NPTEL

The CEIT (Center for Educational Innovation and Technology) introduced the NPTEL (National Programme on Technology Enhanced Learning) courses in various semesters across departments. This initiative aimed to enhance student's learning experience and improve their understanding of complex subjects through online courses.

NPTEL (National Programme on Technology Enhanced Learning) certifications are online courses offered by the Indian Institutes of Technology (IITs) and the Indian Institute of Science (IISc) through the NPTEL platform. These certifications are recognized and valued by industries and educational institutions across India and around the world.

NPTEL courses are designed by subject matter experts from IITs and IISc and cover a wide range of topics, including engineering, sciences, humanities, and management. The courses are offered in a self-paced mode, allowing learners to study at their own convenience. Participants who successfully complete the courses and pass the online certification exams receive an NPTEL certificate, which can be used to demonstrate their knowledge and skills to potential employers or educational institutions. NPTEL certificates are also an excellent way for professionals to upskill and enhance their career prospects.

Students actively participated in these courses and gave the examinations with great enthusiasm. 48 students got certified for Completing Nptel Course Certification. The successful completion of these courses was celebrated with colorful colors. The students who passed these courses were awarded certificates and recognition for their efforts.

## NPTEL CERTIFICATES

**Elite**  
**NPTEL Online Certification**  
 (Funded by the MoE, Govt. of India)

This certificate is awarded to  
**AYUSHI BHARDWAJ**  
 for successfully completing the course

**Introduction to Internet of Things**  
 with a consolidated score of **75** %

Online Assignments	23.28/25	Proctored Exam	51.56/75
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Total number of candidates certified in this course: 9793

Jul-Oct 2022  
 (12 week course)

Prof. Debjani Chakraborty  
 Coordinator, NPTEL  
 IIT Kharagpur

Indian Institute of Technology Kharagpur  
 swayam

Roll No: NPTEL22CS96533290288 To validate the certificate No. of credits recommended: 3 or 4

**Elite**  
**NPTEL Online Certification**  
 (Funded by the MoE, Govt. of India)

This certificate is awarded to  
**NILESH BALARAM PAWAR**  
 for successfully completing the course

**Introduction to Internet of Things**  
 with a consolidated score of **75** %

Online Assignments	22.47/25	Proctored Exam	52.56/75
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Total number of candidates certified in this course: 9793

Jul-Oct 2022  
 (12 week course)

Prof. Debjani Chakraborty  
 Coordinator, NPTEL  
 IIT Kharagpur

Indian Institute of Technology Kharagpur  
 swayam

Roll No: NPTEL22CS96534280472 To validate the certificate No. of credits recommended: 3 or 4

# "Enhancing Teaching Skills: Department's Faculty Development Program"



## **FACULTY ENGAGEMENTS: PRESENTATIONS ON DIVERSE TOPICS**

The CEIT (Computer Engineering and Information Technology) department recently organized a Faculty Development Program aimed at enhancing the teaching and learning skills of its faculty members. The program was held over the course of two days and included various sessions and workshops designed to provide faculty members with the latest teaching methodologies and techniques.

The primary objective of the program was to provide an opportunity for faculty members to enhance their knowledge and skills in teaching and learning, and to explore innovative teaching methods that can be implemented in their classrooms. The program focused on a variety of topics such as pedagogy, technology-enabled learning, assessment techniques, and research-based teaching methods.

## **TOPICS COVERED IN FDP**

1. Internet of things & its real time application
2. data classification using machine learning with python

## **WORKSHOP CONDUCTED FOR NON-TEACHING STAFF**

1. Personality Development
2. effective communication skills
3. skill development in advance features of machine learning

# "Gain Valuable Experience with Internship Opportunities"

It's great to hear that CEIT (Computer Engineering and Information Technology) students had a 100% internship rate and learned new things during their internships! Internships can provide valuable real-world experience and help students apply what they have learned in the classroom to practical situations.

Learning new things during internships is also very important as it helps students expand their knowledge and skills beyond what they may have learned in school. This can be beneficial for their future careers, as it shows that they have practical experience and are willing to learn and adapt to new situations.

Overall, internships are a valuable experience for students, and it's great to hear that the CEIT students had such a successful and enriching experience during their internships.

## COMPANIES WHICH PROVIDED INTERNSHIP

The logo for Infosys, featuring the word "Infosys" in a blue, sans-serif font with a registered trademark symbol (®) to the upper right.

Microsoft

The logo for Felicity, featuring an orange speech bubble icon above the word "FELICITY" in a blue, sans-serif font, with the tagline "your happy place!" in a smaller, grey font below it.

CELEBAL  
TECHNOLOGIES