

# RAJ KUMAR GOEL INSTITUTE OF TECHNOLOGY

## TECHNOLOGIX NEWSLETTER



**IT DEPARTMENT**



**NBA ACCREDITED**



## Department of Information Technology

The Information Technology (IT) Department at RKGIT offers a Bachelor of Technology (B.Tech) program with a focus on the design, implementation, and management of information systems encompassing both hardware and software components. The curriculum is designed to equip students with the necessary skills to excel in the rapidly evolving IT industry.

## About Newsletter

The Department newsletter "Technologix" was started in the year 2019 with two publications per year. The newsletter highlights all the activities of the department, achievements of students and faculty members, publications details etc. Edition 1 of the news letter is published in the month of January and Edition 2 is published in the month of July every year. The newsletter editorial board consists of members from IT department including HOD, Deputy HOD, one faculty member and student representative of 2nd year and 3rd year.

## Features of Newsletter

- About the Department
- Vision & Mission
- Logix Society
- Industrial Visit
- Workshop/Guest Lecture
- Alumni Talk
- Student's Corner
- FDP/NPTEL/Achievements

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# RAJ KUMAR GOEL INSTITUTE OF TECHNOLOGY



## *Editorial Board*

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*Dr. Shalini Goel  
(HOD)*



*Dr. Sachin Goel  
(Associate Professor)*

**Editor**

*Ms. Gunjan Agarwal  
(Assistant Professor)*



## **Editorial Board**

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Student Coordinators

Aradhya Stuti

Tarun Anand



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## Student Head Coordinators



*Ashutosh Yadav*



*Shruti*

## Student Co-Coordinator



*Tarun Anand*



*Aradhya Stuti*



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## About the Department

Department of Information Technology at RKGIT was established in year 2000. Our department has been a cornerstone of technological education and advancement within RKGIT College. The Information Technology department at RKGIT was awarded NBA accreditation in 2022.

Over the past two decades, we've proudly nurtured minds, fostered innovation, and paved the way for countless individuals to embark on successful journey in the realm of Information Technology.

## Vision of the Department

To produce employable, self-disciplined, and competent IT professionals capable of providing sustainable solutions to problems in the field of information technology.



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## Mission of the Department

- To provide quality knowledge in the field of Information Technology.
- To make students capable to serve the industry and society with their innovative ideas and skills.
- To make students lead to contribute towards the overall progress and development over the globe.

## Programme Specific Outcomes (PSOs)

- An ability to develop & manage Information Technology resources of an individual or organization.
- An ability to develop IT solutions related to E-governance, E-Commerce, E-Education, and/or Health Care Management.

## Programme Educational Outcomes (PEOs)

### • **PEO1: Technical Competency**

Enrich the graduates with strong interpersonal & collaborative skills along with adherence to quality and professional ethics, empowering them to pursue successful careers in industry, public service, and research & development

### • **PEO2: Communication & Leadership Quality**

Enrich graduates with advanced technical skills and robust problem-solving abilities, empowering them to excel in their roles and make impactful contributions globally

### • **PEO3: Society**

Enrich graduates with a strong ethical foundation and a deep understanding of the societal impacts of technology, fostering responsible and sustainable IT practices.

### • **PEO4: Life-Long Learning**

Enrich graduates with a commitment to lifelong learning, empowering them to adapt to technological advancements and succeed in challenging environments.



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## Logix Society

### OUR TEAM



**Devanshu  
kumar**  
General  
Secretary



**Anubhav  
kumar**  
Secretary



**Disha  
Srivastava**  
Joint  
Secretary

#### Chief

Dr. Shalini Goel

#### President

Dr. Sachin Goel

#### Vice President

Ms. Himanshi

#### General Secretary

Devanshu Kumar

#### Secretary

Anubhav Kumar

#### Joint Secretary

Disha Srivastava

- **Logix:** The Technological Society associated with the Information Technology department at Raj Kumar Goel Institute of Technology



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## Logix Event: TECH TRIVIA 2.0

The "LOGIX" a technical society of Department of Information Technology, under the banner of the Student Activity Council, organized a Technical Quiz Competition titled 'TECH-TRIVA 2.0' exclusively for 2nd-year students of Raj Kumar Goel Institute of Technology (RKGIT), Ghaziabad. The event aimed to foster technical knowledge, enhance problem-solving skills, and promote a spirit of healthy competition among students.

The event was held on Thursday, 15 May 2025, from 2:00 PM to 4:30 PM at A-Block, LAB-2 and LAB-3.

Over 110 students from 2nd year participated enthusiastically in the competition.



1. First Prize - Team Clutch Coders
2. Second Prize - Team KDG
3. Third Prize - Team Insight Nexus

Faculty Coordinators  
Ms. Varsha Saxena  
[ Assistant. Professor ]



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## Industrial Visits



- Industrial Visit to Yakult, Rai Sonipat, Haryana



The Department of Information Technology(IT)had organized a one day Industrial Visit to Yakult ,Rai Sonipat , Haryana for the students of IT Second Year.

Our Students were engaged in a very informative and interactive session.

Students were accompanied by faculty members Ms. Priya Rana , Mr. Santosh Kumar & Mr. Saurabh Bhardwaj. Students gave positive feedback about the visit.

The event was successfully completed under the guidance of Dr. Shalini Goel,HOD-IT.

Date of Visit: 19th May 2025

Industry Visited: Yakult Danone India Pvt. Ltd. Rai, Sonipat, Haryana(131029)

No. of students: 100

No. of Faculty: 02



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## Workshop

**Speaker:** Mr. Kartik Bhardwaj (Corporate trainer, CISCO)

**Date:** 25th Feb 2025

**Venue:** Lab 1, A Block

**Topic:** Cyber Shield: Threat Detection, Data Protection & Best practices for Digital Security

**Organised For:** 3rd year students



- The Department of Information Technology organized a workshop on "Cyber Shield: Threat Detection, Data Protection & Best practices for Digital Security" on 25th Feb 2025 for 3rd year students at Lab-1, A Block from 10:00am-1:30 pm. The workshop was conducted by Mr. Kartik Bhardwaj (Corporate trainer, CISCO).

**Speaker:** Mr. Deepanshu (Corporate trainer, CETPA Infotech Pvt. Ltd)

**Date:** 06th March 2025

**Venue:** Seminar Hall, D Block

**Topic:** Demystifying Data Science using Python

**Organised For:** 3rd year students



- The Department of Information Technology organized a workshop on "Demystifying Data Science using Python" on 06th March 2025 for 3rd year students at Seminar Hall, D Block from 10:00am-11:30 pm. The workshop was conducted by Mr. Deepanshu (Corporate trainer, CETPA Infotech Pvt. Ltd).



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## Workshop

**Speaker:** Mr. Mayank Jha (Corporate trainer, Coding Blocks)

**Date:** 04th June 2025

**Venue:** Computer Center, A Block

**Topic:** Resume Building

**Organised For:** 3rd year students



- The Department of Information Technology successfully organized a workshop on 'Resume Building' on 04th June 2025 for 3rd year students at Computer Center, A Block from 11:00am-02:00 pm.
- The session was conducted by Mr. Mayank Jha (Corporate trainer, Coding Blocks),

**Speaker:** Mr. Divyank (Corporate-Trainer, DUCAT, NOIDA)

**Date:** 29th May 2025

**Venue:** Seminar Hall, D Block

**Topic:** Generative AI

**Organised For:** 2nd year students



The Department of Information Technology organized a workshop on "Generative AI" on 29th May 2025 for 2nd year students at Seminar Hall, D Block from 11:00am-2:00pm. The workshop was conducted by Mr. Divyank (corporate trainer, DUCAT, Noida).



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## Alumni Talk

A Guest Lecture by our Esteemed Alumni on "**Emerging technology in the IT Sector**" was held on 3rd June, 2025 for 2nd Year students. The speaker of the day was **Mr. Avinash Sharma**, Senior Software Developer in Encora Inc., and an alumnus of the IT Department (Batch-2018). He shared valuable insights into various career opportunities in the field of Cloud computing and advanced Java. The main topics discussed were those important for any Cloud computing and services industry. He also encouraged students to ask their queries at any time.

Mr. Avinash's working tools include Cloud computing and its services. He is also proficient in programming languages such as C, C++, Java, and Python, and is skilled in advanced Java, SQL, and cloud computing services and tools.

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## Student Corner

### The Psychology of AI Companions: How ChatGPT Is Shaping Human Decision-Making

By Priyanshu Yadav, B.Tech IT, RKGIT

In the age of generative AI, ChatGPT has emerged not just as a tool—but as a thinking partner. Whether we're drafting emails, solving coding problems, or exploring philosophical questions, this AI companion is quietly influencing how we make decisions. But how deep does that influence go?



As students of Information Technology, we often focus on the algorithms, architectures, and performance metrics. Yet, there's a growing need to understand the psychological footprint of AI systems like ChatGPT. It's not just about what it can do—it's about how it subtly shapes what we choose to do.

ChatGPT doesn't just answer questions—it frames them. The way it presents options, uses tone, and prioritizes information can nudge users toward certain choices. For example, when asked for career advice, it might emphasize trending technologies like blockchain or generative AI, subtly steering students toward those paths—even if they hadn't considered them before. This phenomenon is known as suggestion bias, and it's becoming increasingly relevant in education, healthcare, and even governance.

ChatGPT can simulate empathy, encouragement, and even humor. But it doesn't feel anything. This emotional simulation can lead users to form attachments or rely on it for moral guidance. In ethical dilemmas, ChatGPT often leans toward utilitarian solutions—highlighting the need for human oversight in emotionally charged decisions.

As IT students, we're not just consumers of AI—we're future creators. Understanding the psychological dynamics of tools like ChatGPT is essential for designing responsible, human-centered systems. Whether you're building chatbots, recommendation engines, or intelligent tutors, remember: every line of code has cognitive consequences.

Let's use AI not just to automate—but to amplify human insight.

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## Student Corner

### Hack the Screen: How Cybersecurity Is Portrayed in Movies vs. Reality

By Priyanshi Srivastava, B.Tech IT, RKGIT

Let's face it—Hollywood loves hackers. From the green-glowing code of *The Matrix* to the hoodie-clad vigilantes in *Mr. Robot*, cybersecurity has become a cinematic obsession. But how accurate are these portrayals? As IT students at RKGIT, we're trained to think critically about systems, threats, and digital ethics. So it's time we separate fiction from function.



#### **Hollywood's Version: Fast, Flashy, and Flawed**

In most films, hacking looks like magic. A few keystrokes, dramatic music, and boom—access granted. Whether it's breaking into government databases or disabling entire networks, movie hackers seem to operate in seconds.

But here's the truth:

- Real hacking takes time—often days or weeks of reconnaissance, scripting, and testing.
- Green code and 3D interfaces? Pure aesthetic. Most hackers use command-line tools and scripts.
- Instant access? Not without exploiting vulnerabilities, bypassing firewalls, and avoiding detection.

#### **The Reality: Precision, Patience, and Protocol**

In the real world, cybersecurity is a methodical discipline. Ethical hackers (aka penetration testers) follow structured frameworks like OWASP or NIST. They simulate attacks to find weaknesses, not to cause chaos.

Key tools include:

- Wireshark for packet analysis
- Metasploit for exploiting vulnerabilities
- Burp Suite for web app security testing

And unlike movies, most cybersecurity work is preventive, not reactive. It's about building secure systems, not just breaking into them.

So next time you watch a hacker movie, enjoy the thrill—but remember: the real heroes are the ones securing systems, protecting data, and thinking three steps ahead.



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## 3rd Semester (2024-2025)



**Aradhya Stuti**  
1st (84.7%)



**Amit Kumar Patwa**  
2nd (84.5%)



**Sanidhya Saumya**  
3rd(83.9 %)

## 5th Semester (2024-2025)



**Vartika Singh**  
1st (87 %)



**Shridhi**  
2st (86.1%)



**Avantika Kashyap**  
3rd (86% )

## 7th Semester (2024-2025)



**Pratibha Tyagi**  
1st (86%)



**Shalini Singh**  
2nd(85%)



**Mayank Kumar Tiwari**  
3rd (82%)



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## STUDENTS ACHIEVEMENTS

S. No	Name Of Student	Roll No.	Semester	Achievements
1	Himanshu Gupta	2300330130030	4th Sem	Participated In Blank Coding 2.0 organised by CSSS
2	Krishna Murari Mishra	2300330130034	4th Sem	Participated In Blank Coding 2.0 organised by CSSS
3	Shubham Singh	2300330130050	4th Sem	Successfully completed Generative AI: Introduction and Applications Course from Coursera
4	Tarun Anand	2300330130057	4th Sem	Cleared NPTEL Exam



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## FDP Attended

### **1. Dr. Shalini Goel (HOD,IT) Participated In**

- A one-week AICTE Training And Learning (ATAL) Academy FDP on “Quantum Machine Learning: Bridging the Gap Between Quantum Computing and AI” conducted by RKGIT, Ghaziabad from 6th January to 11th January 2025.
- A one-week AICTE Training And Learning (ATAL) Academy FDP on “Enhancing Network Performance with AI and Machine Learning” conducted by IILM University, Gurugram from 6th January to 11th January 2025.
- A 4-month Faculty Development Program on “Data Analytics with Python” conducted by NPTEL from January to April 2024.

### **2. Dr. Veena Bharti (Assoc. Professor,IT) Participated In**

- One Day Workshop on “NEP 2020: Pedagogy and Assessment in Higher Education” on 24/05/2025 organized by Internal Quality Assurance Cell, RKGIT, Ghaziabad.
- One Day Workshop on “Generative AI” on 29/05/2025 conducted by DUCAT at RKGIT, Ghaziabad.

### **3. Dr. Sachin Goel (Assoc. Professor, IT) Participated In**

- Enhancing Network Performance with AI and Machine Learning- Through Use case approach(1 Week AICTE ATAL)
- NPTEL FDP on "Introduction to LLM" (1.5 Week)



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## **4. Mr. Santosh Kumar (Asst. Professor,IT) Participated In**

- NPTEL FDP on "Software Testing" from JAN-FEB 2025 (IIT Kharagpur)
- One Day Workshop on "NEP 2020: Padagogy and Assessment in Higher Education" on 24/05/2025 organized by Internal Quality Assurance Cell, RKGIT, Ghaziabad.

## **5. Ms. Chitra Nasa (Asst. Professor,IT) Participated In**

- AICTE Recognized FDP on "Machine Learning using Python" Conducted by Computer Science and Engineering Department, AKGEC from 17/02/2025 to 21/02/2025 (One Week) from NITTTR, Chandigarh.
- One Day Workshop on "NEP 2020: Padagogy and Assessment in Higher Education" on 24/05/2025 organized by Internal Quality Assurance Cell, RKGIT, Ghaziabad.
- 3. One Day Workshop on "Generative AI" on 29/05/2025 conducted by DUCAT at RKGIT, Ghaziabad.

## **6. Ms. Gunjan Agarwal (Asst. Professor,IT) Pariticipated In**

- ATAL FDP on "Enhancing Network Performance with AI and Machine Learning- Through Use case approach" from 06/01/2025 to 11/01/2025 from IILM University Gurugram.

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## Faculty Achievements

## NPTEL/Paper/Patent Published



### 1. Dr. Shalini Goel (HOD, IT)

- Successfully published a research paper titled "Early Detection of Schizophrenia Using Machine Learning Algorithms: A Comprehensive Review" in the Journal of Ecophysiology and Occupational Health (Scopus indexed). The paper has been accepted for publication in August 2025.
- Published a book chapter "The Rise of Language Models: From Rule-based Origins to Deep Learning Powerhouses- Wiley publications
- Dr. Shalini Goel has been granted two patents for her groundbreaking work. The first patent, numbered [202521000973], is for the "Development of a Real Time Air Quality Prediction System for Urban Areas Using IOT Sensors and Machine Learning-Based Deep Learning Models." Her second patent, numbered [454012001], is for a "Surgical Device." This achievement highlights her significant contributions to both environmental and medical technology.
- Successfully completed a NPTEL Course on "Data Analytics with Python"
- Convened a Staff Development Program on "Worksuite Pro Mastery: Excel, Word and AI skills" at RKGIT, Ghaziabad from June 26 to July 2, 2025.
- Served as the Guest of Honour and Keynote Speaker at the World Intellectual Property Rights Conclave-2025 at Jyothi Institute of Technology, Bangalore, from May 30 to June 1, 2025.



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## **2. Dr. Veena Bharti (Assoc. Professor ,IT)**

- Published a paper titled "IOT and Cloud based Automated Saline Fluid Control system for Intravenous Therapy" at the 2025 Devices for Integrated Circuit (DevIC) conference, which is Scopus-indexed.
- Published a paper titled "Peer to Peer Integrated Smart Gardening Automation Using Cloud Technology with Real-Time Environmental Monitoring and Logging Via Blynk Cloud Dashboard" at the 2025 International Conference on Intelligent Control, Computing and Communications (IC3), which is Scopus-indexed.
- Published a paper titled "Digitalization of Integrated Industrial IoT Technologies for Monitoring and Cloud Analytics in Sustainable Horticultural Practices" at the 2025 International Conference on Intelligent Control, Computing and Communications (IC3), which is Scopus-indexed.
- Was granted a patent for "AI Driven Automated Test case Generation System for Software Development" (Patent Number: 202511027404).

## **3. Dr. Sachin Goel (Assoc. Professor ,IT)**

- Successfully published a research paper titled "Secure Individuality and Access Management for Cloud Users". The paper has been accepted for publication in 2025 International conference on Intelligent Control, Computing and Communications(IC3).
- Was granted an patent titled "Machine Learning Based Stress Detection Device"" Patent No: [446043-001]
- Successfully completed a NPTEL Course on "Introduction to LLM"

## **4. Ms. Priya Rana (Asst. Professor, IT)**

- Was granted a patent for a "Surgical Device" (Patent Number: 454012001).
- Successfully completed NPTEL courses on "Introduction to Machine Learning" and "Digital Image Processing" from January to April 2025.



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## **5. Ms. Chitra Nasa (Asst. Professor, IT)**

- Successfully published a research paper titled "ESmart Path Finder Via Neural A-Star:nternational Journal of Advanced Reserach in Science, Communication and Technology". The paper has been accepted for publication in August 2025.
- Published an Indian patent titled "Decentralized serverless Transaction Management System for Cloud Computing Platforms" Application No: 202411098061 published on 3/01/2025 in IPO
- Served as a reviewer for the IEEE International Conference on Next Generation Information System Engineering (NGISE 2025), organized by the Department of Information Technology at Ajay Kumar Garg Engineering College from March 28-29, 2025.

## **6. Ms. Prachi Vashist (Asst. Professor ,IT)**

- Published an Indian patent titled "Distributed Model System for Coconut Disease Diagnosis using Federated Learning Techniques" Application No. 202411098990 A and Publication Date 31-Jan-2025

## **7. Mr. Santosh Kumar (Asst. Professor ,IT)**

- \* Published a research paper titled "Criminal Face Detection System" in the International Journal for Scientific Research & Development.
- \* Successfully completed the NPTEL course on "Software Testing" from IIT Kharagpur, offered from January to February 2025.



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## **8. Ms. Gunjan Agarwal (Asst. Professor ,IT)**

- Published a research paper titled "Energy-Efficient Monitoring of Industrial Processes Using IoT Sensors and Predictive Algorithms" in the 2025 3rd International Conference on Disruptive Technologies (ICDT), which is Scopus-indexed.
- Published an Indian patent titled "DEVELOPMENT OF REAL-TIME 5G-DRIVEN EMERGENCY CARE SYSTEM FOR CARDIAC AND STROKE VICTIMS" (Application No: 202521028693) on May 16, 2025.
- Successfully completed the NPTEL course on "Introduction to Machine Learning" from January to April 2025.

## **9. Mr. Sandeep Kumar (Asst. Professor ,IT)**

- Published a research paper titled "Integrating Deep Convolutional Neural Networks and IoT Technology for Advancement in Health Care System."
- Published a research paper titled "FAKE NEWS DETECTION USING MACHINE LEARNING TECHNIQUE" in the Scopus-indexed 2024 4th International Conference on Advancement in Electronics and Communication Engineering.



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## IT FACULTY

Dr. Shalini Goel, HOD-IT



Dr. Sachin Goel, Deputy Head-IT



Dr. Veena Bharti



Ms. Gunjan Agarwal



Ms. Himanshi



Ms. Priya Rana



Mr. Sandeep Kumar



Mr. Santosh Kumar



Ms. Prachi Vashist



Ms. Chitra



Mr. Saurabh Bharadwaj



"Education is the most powerful weapon which you can use to change the world"

THANK YOU