

Rajarajeswari College of Engineering



An Autonomous Institution, Under VTU, Belagavi

Dept. of Computer Science & Engineering
[IoT, Cyber Security including Blockchain Technology]



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Chiguru

RRCE_CSE(IC)_NEWSLETTER 2024-2025



TODAYS NEWS

Advancements in satellite IoT,
enterprise powered spending
subjections, new AI-

Enterprise IoT spending
projected to grow at a 14%
CAGR through 2030

PUBLISHER

Dr.R.Balakrishna
Principal, RRCE

CHIEF EDITOR

Dr.Shashidhar V
HoD, Dept. of CSE[IC], RRCE

IMAGE & SUPPORT EDITOR

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Asst.Prof, Dept. of CSE[IC], RRCE

STUDENT EDITOR

Mr. Nishanth B M
1RR24IC027

Our DEPARTMENT

The IoT, Cyber Security including Blockchain Technology is a four-year Undergraduate program, which was established in 2022 with current intake 60 students. This department is derived branch from computer science & engineering, by focusing on educating students in both the theoretical foundations and practical applications which is related in designing innovation and information technology.

The Department focuses on developing standards, protocols, and frameworks for secure communication and data exchange among IoT devices. The Cyber Security aim is to equip students with developing robust security measures, protocols, and technologies to safeguard critical infrastructure, networks, and information assets from the intruder's (attackers). Since all devices are connected to internet, these devices can range in huge. So the data is access in securely from authorized persons/users, the Blockchain provides flexibility. The potential applications of blockchain beyond cryptocurrencies, such as supply chain management, healthcare, finance and identity management.



Vision & Mission



VISION

To empower students with the knowledge, skills, and ethical values to become pioneer in the dynamic fields of Internet of Things (IoT), Cyber security, and Blockchain, driving innovation, securing digital ecosystems, and shaping a trusted, decentralized future.

MISSION

To guide the education, Design & innovation in IoT, Cybersecurity, and Blockchain technology, preparing the next generation of engineers to make significant contributions to the society.

Meet Our Team



Balakri

Dr. R Balakrishna

PRINCIPAL

Leading and motivating a team to achieve organizational goals, implementing strategic initiatives, and ensuring efficient workflow.



Dr. Shashidhar V

HOD

The Root of Education
... are bitter, but fruit is
sweet
-aristotle



Prof. Renuka H N

ASST. PROF.

Educating the mind
without educating the
heart is no education at
all.
-aristotle



Department of Computer Science & Engineering (IoT, CyberSecurity including Blockchain Technology)

5-Days FDP on “Enrichment of Lab Skills”

Resource Person :Mr.SreedharaReddy, Technical Engineer, IobiT Solutions
Faculties of AI&MLand CSE[IC]Department

Date of the event :22ndJulyto26thJuly2025

Over view of the FDP: The event started with the formal Inaugural function at 9.30a.m in Room No 217. On the dais Our Chief guestMr. Sreedhara ReddyTechnical Engineer, IobiT Solutions, Dr Rangaih L Academic Dean, Dr. Amudraj Dean Administrative,Dr. Rajesh K S HOD AI & ML, Dr.Shashidhar HODCSE(IC) , Dr. Manjunath T C Dean R&D and Dr S Jagannathan Dean Current affair, The function startedwith Invocation Song, followed by the welcome speech, followed by Presidential address given by Academic Dean and Dean Administrative. Followed by Vote of Thanks.

Day1:Internet of Things (IOT)using raspberrypi and python The Internet of Things (IoT) refers to the network of physical devices, vehicles, home appliances, and other items that are embedded with sensors, software, and connectivity, allowing them to collect and exchange data with other devices and systems over the internet. Hands on session with real time IOT sensor Applications.

Day2:Introduction to Data Structures A data structure is a way to organize and store data in a computer so that it can be efficiently accessed and modified. Data structures provide a way to manage large amounts of data, making it possible to perform operations such as sorting, searching, and inserting data efficiently. Hands on session Types of Data Structures and its operation, Importance of Data Structures

1. Efficient Data Management: Datastructures enable efficient storage and retrieval of data.



Department of Computer Science & Engineering (IoT, CyberSecurity including Blockchain Technology)

2. Improved Algorithm Performance: Choosing the right data structure can significantly improve algorithm performance.

3. Scalability: Data structures can be designed to handle large amounts of data.

Brief insight of LAB programs and hands-on session on different programs were explained. Introduction to Cyber Security

Cyber security refers to the practices, technologies, and processes designed to protect digital information, computer systems, and networks from

unauthorized access, use, disclosure, disruption, modification, or destruction.

Discussed on Key Concepts in Cyber Security—Confidentiality, Integrity, needed.

Types of Cyber Threats- Malware, Phishing, Denial of Service (DoS), Man-in-the-Middle (MitM), SQL Injection Cyber Security Measures- Firewalls,

Antivirus Software, Encryption, Access Control and Regular Updates and Patches

Day3: Dr. Manjunath T C sir gave brief ideas on Research in various fields and Organizations. Insights on Patent and Publications what are the rules, how to apply, concerns for publications Afternoon session handled by Prof Soniya R Madam gave a brief Overview of Introduction to Machine learning and its applications. Machine Learning Machine learning is a subset of artificial intelligence (AI) that enables systems to learn from data and improve their performance on a task without being explicitly programmed. Types of Machine Learning - Supervised Learning, Unsupervised Learning and Reinforcement Learning Machine Learning Applications-Image Recognition, Natural Language Processing, Predictive Analytics, Recommendation Systems and Speech Recognition Worked on Machine Learning Algorithms-.Linear Regression, Decision Trees, Neural Networks, Clustering and Support Vector Machines By leveraging machine learning, organizations can unlock insights from data, automate decisionmaking, and drive innovation.



Department of Computer Science & Engineering (IoT, CyberSecurity including Blockchain Technology)

Day 4: Introduction to Data Visualization types of Data Visualization and Benefits of Data Visualization Data visualization is the process of creating graphical representations of data to better understand and communicate insights, patterns, and trends.

HandsonsessionconductedonDataVisualizationToolswithsomeprogramsare executed By leveraging data visualization, organizations can gain insights, communicate effectively, and make data-driven decisions. Introduction to Generative AI Generative AI refers to a type of artificial intelligence that can generate new, original content, such as images, videos, music, or text, based on patterns and structures it has learned from existing data.

Discussed and handson session conducted on Key Characteristics of Generative AI Creativity,

Learning: Generative AI learns from existing data to generate new content and Pattern Recognition: Generative AI recognizes patterns and structures in data to generate new content.

Day5:Introduction to Kali Linux for Cyber Security Kali Linux is a popular Linux distribution used for cyber security testing, penetration testing, and digital forensics. It provides a comprehensive set of tools for identifying and exploiting vulnerabilities in computer systems. Pre-installed Tools: Kali Linux comes with a wide range of pre-installed tools for cyber security testing, including Nmap, Metasploit, and Burp Suite. Customizable: Kali Linux can be customized to meet specific needs and requirements. Community Support: Kali Linux has a large and active community of users and developers. Regular Updates: Kali Linux receives regular updates with new tools and features. A hands on session conducted Tools and Applications in Kali Linux with Nmap, Metasploit, Burp Suite, Wireshark and John the Ripper: A password cracking tool for testing password strength.



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Department of Computer Science & Engineering (IoT, CyberSecurity including BlockChain Technology)

Career Opportunities with KaliLinux like Penetration Tester, CyberSecurity Consultant, and Digital Forensics Analyst, By leveraging Kali Linux, cyber security professionals can identify and exploit vulnerabilities, test the security of computer systems, and develop new cyber security tools and techniques. Introduction to Operating System An Operating System (OS) is a software that manages computer hardware resources and provides a platform for running application software. It acts as an intermediary between computer hardware and user-level applications. Practical session done on resources of Operating System like Process Management, Memory Management, File System Management, Input/Output (I/O) Management and Security. By understanding operating systems, users can better appreciate the complexity and functionality of modern computer systems



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Department of Computer Science & Engineering (IoT, CyberSecurity including Blockchain Technology)

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COLLEGE OF ENGINEERING
An Autonomous Institution
Under VTU, Approved by AICTE, UGC & GoK



Department of AIML & CSE (IC)

(IoT, Cybersecurity including Blockchain Technology)

*Organizing 5 days FDP on
"Enrichment of Lab Skills"*



 **22nd July – 26th July 2025**

 **1st Floor Seminar Hall
RRCE**

 **09.00 AM TO 4.00 PM**

Coordinators - Mrs. Deepali A Dixit, Asst. Professor

Dr. Rajesh K.S HoD - AIML	Dr. Shashidhar V HoD - CSE (IC)	Dr. R. Balakrishna Principal, RRCE
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 www.rrce.org  admission@rrce.org  **9008845678**

 **No.14, Ramohalli Cross, Kumbalagodu, Mysore Road, Bangalore**

DAY1:





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Department of Computer Science & Engineering (IoT, CyberSecurity including BlockChain Technology)

DAY 2:



DAY 3:



DAY 4:



DAY 5:





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Department of Computer Science & Engineering (IoT, CyberSecurity including Blockchain Technology)

Webinar on Hack the Future: Cybersecurity Career Launchpad for the NextGen Defenders!

Webinar Success – Hack the Future: Cybersecurity Career Launchpad for the NextGen Defenders!

The Department of CSE – IC at Rajarajeswari College of Engineering successfully hosted an insightful Hybrid Webinar on 13th August 2025, featuring Mr. Yoram Orzach, CTO – NDI Communications, Israel.

Key Takeaways:

- Deep dive into the world of Cybersecurity and its career opportunities
- Strategies for becoming a skilled NextGen Defender
- Real-world insights from an international industry expert

The session empowered participants with knowledge, tools, and motivation to embark on a successful cybersecurity career path!

RAJARAJESWARI
COLLEGE OF ENGINEERING
An Autonomous Institution
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Department of Computer Science and Engineering (IC)

Organizing Webinar on
"Hack the Future: Cybersecurity Career Launchpad for the NextGen Defenders"

13th August 2025
10:30 AM to 12:00 PM
Hybrid Mode

Speaker
Mr. Yoram Orzach
CTO, NDI Communications, Israel

Co-ordinators:
All staff members - CSE (IC)

Dr. Shashidhar V
HoD - CSE (IC)

Dr. S. Balakrishna
Assistant Prof.





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Department of Computer Science & Engineering **(IoT, CyberSecurity including Blockchain Technology)**

Seminar on “Global Opportunity for Higher Studies”

Name of the Department: Dept. of CSE[IOT, Cybersecurity including Blockchain Technology]

1. Type of Event: Seminar on “Global Opportunity for Higher Studies”
2. Venue: 1st Floor, Seminar Hall, RRCE, Bangalore
3. Date & Time: 8.09.2025 & 11.00AM onwards
4. Resource Persons: Mr. Allen Rakesh Jhon, Branch Head, M/s LCI Group Specializes in Student Counselling, Bangalore Mr. Prasad Shetty, Manager-Business Development, M/s LCI Group Specializes in Student Counselling, Bangalore
5. Staff Coordinators: All Staff Members
6. Students attended: 5th & 7th Semester (112 students)
7. Outcome of the Programme: Mr. Allen Rakesh Jhon give the overview insight for choosing the right course in the top University/institution. The seminar helps the students of 5th & 7th semester to select right course in top university. The LCI Group be an leading International Student recruitment company provides counseling services for students who wish to study in Australia, USA, UK, Canada etc.

At the end of the seminar, all the participant will have the knowledge of which university in best for doing destination for higher education.



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Department of Computer Science & Engineering (IoT, CyberSecurity including Blockchain Technology)



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No. 14, Ramohalli Cross, Kumbalagodu, Mysore Road, Bengaluru - 560074

Department of CSE (IC)

Organizing a Seminar on

"Exploring Higher Education Opportunities Worldwide"

Resource Persons:



Mr. Allen Rakesh Jhon
Branch Head
M/s. LCI Group
Specializes in Student Counseling
Bengaluru



Mr. Prasad Shetty
Manager - Business Development
M/s. LCI Group
Specializes in Student Counseling
Bengaluru

Monday, 8th September 2025

11:00 AM TO 12:00 PM First Floor Seminar Hall, RRCE

Dr. Shashidhar V
HoD - CSE (IC)

Dr. R. Balakrishna
Principal, RRCE

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Department of Computer Science & Engineering (IoT, CyberSecurity including BlockChain Technology)

Webinar on “Cybersecurity for NextGen Defenders”

Name of the Department: Dept. of CSE[IoT, Cybersecurity including Blockchain Technology]

1. Type of Event: Webinar on “Cybersecurity for NextGen Defenders”
2. Venue: Hybrid Mode
3. Date & Time: 09.09.2025, 11.00AM to 12.30PM
4. Resource Person: Mr. Yoram Orzach, CTO, NDI Communications, Israel
5. Staff Coordinators: All Staff Members
6. Students attended: 5th Semester (63 students)

RAJARAJESWARI
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Department of Computer Science and Engineering (IC)

Organizing Webinar on
“Cybersecurity for NextGen Defenders”

Speaker
Mr. Yoram Orzach
CTO, NDI Communications,
Israel

Co-Ordinators:
All staff members - CSE (IC)

09th Sep 2025
11.00 AM to 12.30 PM
Hybrid Mode

Dr. Shashidhar V
HoD-CSE(IC)

Dr. R. Balakrishna
Principal, RRCE

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Department of Computer Science & Engineering (IoT, CyberSecurity including BlockChain Technology)





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Department of Computer Science & Engineering
(IoT, CyberSecurity including BlockChain Technology)

Teacher's & Engineer's Day Celebration 2025

Date : 15.9.2025 **Time :** 3.00PM **Venue:** AJP Conference Hall, 2nd Floor, RRCE,Bangalore **Staff Coordinators:** Prof. Manohar T V, Asst. Professor Prof. Rishika, Asst. Professor Prof. Renuka H N, Asst. Professor Prof. Bhagyalaxmi, Asst. Professor Prof. Niteesh Kumar, Asst. Professor Prof. Priya L C, Asst. Professor **Staffs attended:** All staff members(250 member **Outcome of the Progamme:** In India, 5th September is celebrated as Teacher's Day as a mark of tribute to the contribution made by teachers to the society. The 5thSeptember is the birthday of a great teacher Dr. Sarvapalli Radhakrishnan, a staunch believer of education and a well- known diplomat, visionary, statesman, scholar, President of India and above all a perfect Teacher.



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Department of Computer Science & Engineering
(IoT, CyberSecurity including BlockChain Technology)

Students Development Program on Python Powered Stack Development

Dates: 23rd, 24th & 25th September 2025

Resource Person: Mr. Karthik Kumar

Founder – EduElevate & Pelwhiz Technologies Pvt. Ltd.

Highlights of the Training:

Hands-on training with real-world applications

Build robust, scalable full-stack solutions

Learn from an industry expert

The Department of Computer Science & Engineering (IC) is excited to host a 3-day immersive training program on “Python Powered Stack Development”

Don't miss this opportunity to enhance your development skills and take your career to the next level!



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Department of Computer Science & Engineering (IoT, CyberSecurity including BlockChain Technology)



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No. 14, Ramohalli Cross, Kumbalagodu, Mysore Road, Bengaluru - 560074

Department of CSE (IC)

Organizing the Students Development Program on
'Python Powered Stack Development'



Resource person:

Mr. Karthik Kumar

Founder

M/s. EduElevate & Pelwhiz Technologies Pvt. Ltd.

Date - 23rd, 24th & 25.09.2025

Timings - 8:30 AM - 4:00 PM

Venue - First-Floor Seminar Hall

Coordinators

All staff members

Dr. Shashidhar V

HOD - CSE (IC)

Dr. R. Balakrishna

Principal

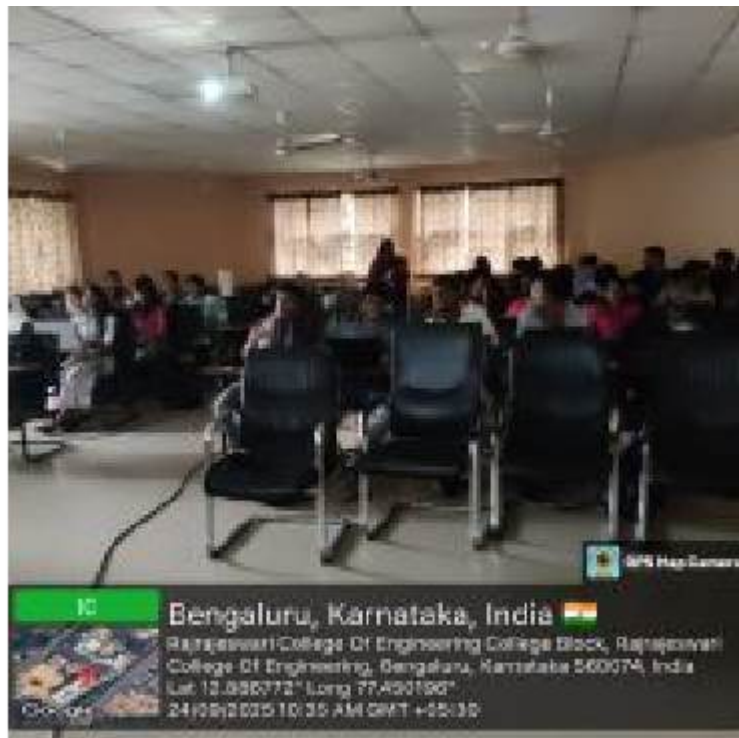
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9999958314





Department of Computer Science & Engineering (IoT, CyberSecurity including BlockChain Technology)

Student Development Program (SDP) on “Python: Zero to Job Ready”

Resource Person: Mr. Karthik Kumar S Founder M/s EduElevate & Pelwhiz Technologies Pvt Ltd.

Date & Time: 10.10.2025 to 11.10.2025, 8.30 AM to 4.00PM

Outcome of the Programme:

- In this Hands-on SDP, the Web and its applications was presented by Mr. Karthik Kumar S.
- Mr. Karthik explains how to build your skills in web development and design, no matter how little experience or technical knowledge you currently have.
- The Roadmap: From Zero to Job Ready
- The path from zero Python knowledge to being a hireable developer can be broken down into several key stages.
- Fundamentals : Master Python basics, including syntax, data types, control flow, functions, and object-oriented programming (OOP) principles. Focus on problem-solving abilities and writing clean, readable code.
- Intermediate Skills: Dive into essential libraries (like Pandas for data analysis or Requests for APIs) and frameworks (like Django or Flask for web development).



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Department of Computer Science & Engineering (IoT, CyberSecurity including Blockchain Technology)



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No. 14, Ramohalli Cross, Kumbalagodu, Mysore Road, Bengaluru - 560074

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

(IoT, Cyber Security including Blockchain Technology)

Organizing SDP on "Python: Zero to Job Ready"

'Python: Zero to Job Ready'



10th and 11th Oct 2025



8:30 AM to 4:00 PM

Venue:

Fourth Floor Seminar Hall
RRCE Campus



Resource Person

Mr. Karthik Kumar

Founder

M/s. EduElevate & Pelwhiz Technologies Pvt. Ltd.

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Coordinators - All Staffs (CSE - IC)

Dr Shashidhar V
HoD - CSE (IC)

Dr. R. Balakrishna
Principal





Department of Computer Science & Engineering (IoT, CyberSecurity including Blockchain Technology)

Technical Seminar on “Data Analytics and Gen AI”

Resource Person: Mr. Maheshwar Narayanan, **Date:** 14th November 2025

Overview of the Event:

A seminar on Data Analytics and Generative AI was organized to provide students with insights into emerging technologies shaping the digital world. The session was delivered by an industry expert who began by welcoming the participants and highlighting the increasing importance of data-driven decision-making in various sectors. The speaker explained how Data Analytics has progressed from basic data collection and reporting to advanced predictive and prescriptive models used in modern industries. He discussed commonly used tools and techniques such as Excel, Python, Power BI, Tableau, and machine learning algorithms that help organizations interpret and utilize data effectively. The seminar then shifted to Generative AI, where the expert described how next-generation AI models can create text, images, audio, and intelligent solutions. He explained the working principles of large language models demonstrated their use in sectors like automation, content creation, smart analytics, and business intelligence. Real-world examples and case studies were shared to help students connect classroom concepts with practical applications.



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Department of Computer Science & Engineering (IoT, CyberSecurity including Blockchain Technology)

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Department of
Artificial Intelligence & Machine Learning
&
CSE - IC (IoT, Cybersecurity, including Blockchain Technology)

Organizing Technical Seminar
on 'Data Analytics and Gen AI'

Resource Person:
Mr. Maheshwar Narayanan
Asst. Vice - President





 **14th Nov 2025**

 1st Floor Seminar Hall, RRCE

 **09.00 AM TO 4.00 PM**

Coordinators:
Dr. Manarika B & Mr. Siddharth Kumar

Dr. Rajesh K.S. HOD - ADMA Dr. Shashidhar V. HOD - CSE (IC) Dr. R. Balakrishna Principal, RRCE

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Department of Computer Science & Engineering (IoT, CyberSecurity including BlockChain Technology)

“Innovex 2025” – College Level Project Exhibition

Date of Event: 5th December 2025

Chief Guest: Mr. Shivakumar P M Senior Application Engineer, SAP

Labs, Bengaluru **Event objective:** INNOVEX–2025, is a College-Level Project Exhibition organized to provide a dynamic platform for students to showcase their innovative ideas, technical skills, and problem-solving abilities. The event aimed to promote experiential learning, encourage interdisciplinary thinking, and foster a culture of research and innovation among students. **Profile of Chief Guest:** Mr. Shivakumar P M is a seasoned Senior Application Engineer at SAP Labs India, Bengaluru (a premier global R&D hub of SAP focused on enterprise software innovation). In this role, he contributes to the design, development, and optimization of SAP applications that support business processes and digital transformation for clients worldwide. Working within cross-functional engineering teams, he applies best practices in software engineering to deliver scalable, high-quality solutions using SAP technologies and platforms.

Event Outcomes:

- Participants over 250 students across the College showcased their Projects covering the Domains, Artificial Intelligence, Robotics, Electric Vehicles, IoT, Renewable Energy, and more.
- The inspirational Talk by the Chief Guest Mr. Shivakumar, P M, Senior Application Engineer, SAP labs, Bengalurus parks creativity and encourages participants to think innovatively.



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Department of Computer Science & Engineering (IoT, CyberSecurity including Blockchain Technology)

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All Are Cordially Invited For **"INNOVEX - 2025"**
College Level Project Exhibition

Chief Patron
Dr. A.C. Shanmugam
B.A.L.L.B., FIMSA, FRCPs (Glasgow, UK)
Founder Chairman
Dr. M.G.R.E. & R.L. Chemicals & HSD, Bengaluru

Chief Guest
Mr. Shivakumar P M
Senior Application Engineer
SAP Labs, Bengaluru

Patron
Sri. A.C.S. ArunKumar
B.Tech (Hons.), MSTE, MIET, UK, LMCSI,
President
Dr. M.G.R.E. & R.L. Chemicals & HSD, Bengaluru

Organized By
Dept. of Electronics & Communication Engineering

In Association with
Dept. of AI&ML, CSE, CSE - IC, CSD, EEE, ISE, R & A and MCA

Faculty Coordinators
Dr. Deepika J., Assoc. Professor &
Dr. Haritha K Sivaraman, Assoc. Professor

05.12.2025, 09:30 AM Dr. APJ Abdul Kalam Hall, RRCE

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"INNOVEX - 2025"
College Level Project Exhibition
PROGRAM SCHEDULE

DATE - 05.12.2025

09:30 A.M - Welcome the gathering
09:35 A.M - Invocation Song
09:40 A.M - Lighting the lamp
09:45 A.M - Welcome Address
09:55 A.M - Felicitation of Chief Guest
10:05 A.M - ABOUT INNOVEX-2025 PROJECT EXHIBITION
10:15 A.M - Address by Principal and other dignitaries on the Dias
10:35 A.M - Introduction of the Chief Guest
10:40 A.M - Address by the Chief Guest
11:00 A.M - Vote of thanks

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DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Chief Guest
Mr. Shivakumar P M
Senior Application Engineer
SAP Labs, Bengaluru

In Association with Dept. of AI&ML, CSE, CSE - IC, CSD, EEE, ISE, R & A and MCA

Organizing
College Level Project Exhibition

"Innovex - 2025"

05.12.2025
09:30 AM

Venue:
Dr. APJ Abdul Kalam Hall

Faculty Coordinators - Dr. Deepika J., Assoc. Professor & Dr. Haritha K Sivaraman, Assoc. Professor

Dr. Sunitha R HOD - ECE
Dr. Manjunath Dean - R & D
Dr. L. Rangaiah Dean - Academics
Dr. Balakrishna R Principal

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Department of Computer Science & Engineering (IoT, CyberSecurity including Blockchain Technology)

Food Fest – “Swadotsava”

Date: 17th December 2025

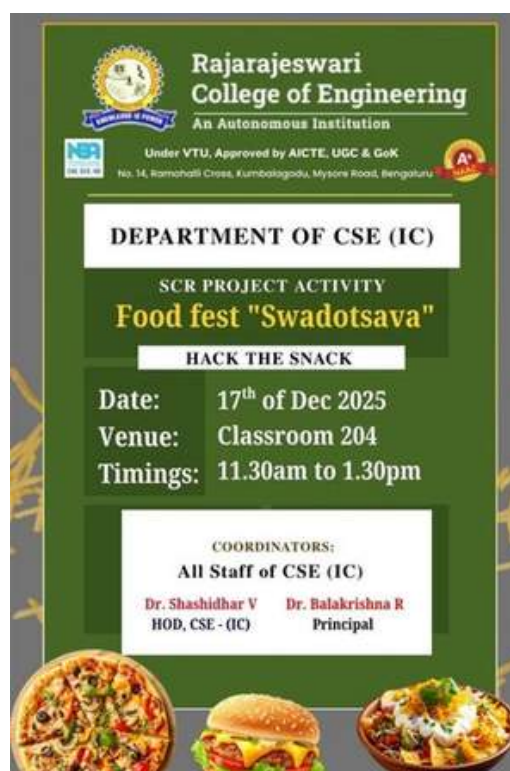
Time: 11:30 AM – 1:30 PM

Venue: Classroom 204

Theme: Hack the Snack!

Activity Type: SCR Project Activity

The Department of CSE (IC) is organizing an exciting Food Fest – “Swadotsava,” where creativity meets taste. The event showcases innovation, teamwork, and delicious ideas under the theme “Hack the Snack,” as part of the SCR Project Activity.





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4th Semester VTU Examination – June/July 2025 Toppers Details

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Department of CSE (IC)
Topper of 4th Semester June-July 2025
Ms. SHRISTI S PATIL
USN: 11RR23IC049
SGPA - 9.11
CONGRATS!
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Department of CSE (IC)
Topper of 4th Semester June-July 2025
Ms. KAVYA GIRISH
USN: 11RR23IC027
SGPA - 8.98
Congrats!
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Department of CSE
Topper of 4th Semester June-July 2025
Ms. BRUNDHA
USN: 11RR23IC014
GPA - 8.80
Congratulations!
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