

Department of Electronics and Communication Engineering

Faculty Name: Puja S. Agrawal

Course: Computer Networks ECP357

Innovation Title: Integration of Mini Projects and Research in Teaching-Learning Process

A. Goals, Methods, Significance, and Presentation

To promote active learning, enhance conceptual clarity, and integrate real-world problem-solving, mini projects were introduced as a key component of course delivery. The objective was to use experiential and digital tools to foster innovation and technical skills among students.

Methods Adopted

- **Mini Projects (30+ Topics):** Projects spanned across domains such as IoT (Smart Home, Traffic Light, Garden), Networking (VoIP, TCP/UDP, EIGRP), Cloud, and Cybersecurity.
 - **Tools Used:** Cisco Packet Tracer, IoT kits, simulation software, Arduino IDE, etc.
 - **Blended Learning:** Online quizzes, and simulations.
 - **Evaluation:** Demonstration-based evaluation with group discussions, project documentation, and oral Q&A.
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C. Significant Outcomes

- Students developed functional prototypes with real-world relevance.
 - Two groups authored **research papers** on:
 1. *Greenhouse Monitoring System Using IoT*
 2. *Fire Monitoring System Using IoT*
 - Improved student engagement, critical thinking, and tool proficiency.
 - Exposure to research methods, collaborative learning, and technical documentation.
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D. Innovative Practices Implemented

- ✓ Use of Modern Tools
- ✓ Projects and Mini Projects
- ✓ Online Quizzes & Demonstrations
- ✓ Research Mentoring & Paper Guidance

P. Agrawal
PUJA S. AGRAWAL
Lab course coordinator
VI sem Sec A (EC)

CN Lab Mini Project
ECP357
2024-25
VI Sem

A1 Batch			Title of the Mini Project
Group No	Name of the student	Roll No.	
1	Apurve Trivedi	18	Thief Catcher IOT System with motion detector, siren and CCTV
	Aayush Jain	11	
2	Anshika Jain	4	Smart Wind Detection
	Arnav Ravekar	19	
	Aditi Jain	1	
3	Aditi Godbole	3	5G - enabled smart city simulation
	Aditi Thakre	2	
4	Bhumi Shah	7	IOT Based Megamall
	Aniruddh Lakha	15	
5	Ansh Shahu	16	Secure Healthcare information network system design and implementation
	Aditya Suryawanshi	12	
6	Allen Jacob	14	IoT based Smart Home
	Advait Anand Jog	13	
7	-	-	Vo-IP IP Telephony Networking Project
	Anushka Pote	5	
8	Anshu Jamare	17	Implementing EIGRP PROTOCOL In a Network Using Cisco Packet Tracer .
	Ashlesha Gaydhane	6	
9	Arpit Pateriya	20	Multi-channel Data logger with IOT integration

Signature

Lab Course Coordinator
 VI Sem A1 Batch.
 ECE

CN Lab Mini Project

2024-25

VI Sem

A2 Batch

Group No	Name of the student	Roll No.	Title of the Mini Project
1	Dixita Hawelkar	32	Network design using TCP and UDP protocol
	Divyani Raut	31	
2	Gayatri Sen	34	Securing Cloud services in the IOT
	Gauri Mishra	33	
3	Ishika Pathe	35	SmartOffice System
	Kalyani Bobade	36	
4	Karishma Kambhale	37	parking system
	Mariah Hashmi	38	
5	Atharva Lohakare	22	Smart Garden in Packet tracer
	Harsh Gandhi	43	
6	Harshal Dorlikar	45	Network Security and Cryptography
	Gaurav Agarwal	42	
7	Ayush Dhome	24	Smart Garrage using IOT
	Harsh Kaley	44	
8	Ashish Yadav	21	Air Quality check / Environment Monitoring System

Kalyan

Lab course coordinator

VI sem A2 Batch

ECE

CN Lab Mini Project

2024-25

VI Sem

A3 Batch

Group No	Name of the student	Roll No.	Title of the Mini Project
1	Ritika Chouksey	62	GreenHouse Monitoring System based on IoT (Conference papers)
	-	-	
2	Himanshu Itankar	47	Smart Traffic Light System
	Sangam Choudhari	55	
3	Ritik Bisen	53	Smart Irrigation System
	-	-	
4	Rutuja Karemore	63	Secured Smart Company IOT Network Design
	Shraddha Hiranwar	64	
5	Onkar Pathak	50	Smoke Detection & Fire Prevention System
	Priyansh Nigam	52	
6	Mrunal Tambat	61	RTP and RTCP
	Shruti Sharma	66	
7	Gargi Muley	67	Cloud based Data Center Simulation
8	Meet Raisane	48	Web Application Firewall using cisco packet tracer
9	Sachin Shankarjal Talda	54	Simulation of Cyber Café using CPT

Priyansh

lab reviewer coordinator

VI sem A3 Batch

ECE

CN Lab Mini Project
 2024-25
 VI Sem

A4 Batch			Title of the Mini Project
Group No	Name of the student	Roll No.	
1	Zaid Khan	106	Connect military base to different emergency servers to detect any casualty
	Shravani Ambekar	105	
2	Vandan Sharma	78	Fire Monitoring System (Conference paper)
	Himanshi Koturwar	101	
3	Harshal Solat	104	Room Automation System based on CISCO Packet Tracer
	vedant chandel	82	
4	Pratyaksha yadav	102	RFID based door access system
	Tejas Ganganne	77	
5	Varun Agrawal	79	Intrusion Detetction System
	Shivansh Jais	72	
6	Sujal Thakur	76	irc prtocol to connect military base to different emergency servers to detect any casualty.
	Sudarshan Sunil Sharma	74	
7	Varun Vinit Vajpeyee	80	Smart Home Automation in CISCO packet Tracer

Pradyumn
 Lab. course
 VI sem A4
 Batch
 ECE
 Coordinator

I2ITCON 2025 - ACCEPTANCE NOTIFICATION

Message

Microsoft CMT <noreply@microsoft.com>
From: Ritika Ritesh Chouksey <ritikachouksey741@gmail.com>

Mon, 16 Jun, 2025 at 12:1

Dear Ritika Ritesh Chouksey

Paper ID / Submission ID : 2168

Title : IoT-Enabled Smart Greenhouses: Reinforcement Learning, Predictive Modelling, and Disease Detection for Enhanced Crop Yield

We are pleased to inform you that your paper has been accepted for the Oral Presentation and publication as a full paper for the- "IEEE International Conference on Information, Implementation, and Innovation in Technology 2025 (I2ITCON 2025), will be held in Hope Foundation's International Institute of Information Technology (I2IT), Hinjawadi, Pune, India.

IEEE Conference Record Number :65200

All accepted and presented papers will be submitted to IEEE Xplore for the further publication and will be indexed by Ei Compindex and Scopus Indexing.

Complete the Registration Process (The last date of payment is 18 JUNE 2025)- LAST DATE

Registration Link for Payment :

For Indian Authors :<https://rzp.io/rzp/KLNYvem>

For Foreign Authors : <https://www.explara.com/e/i2itcon-2025>
(Click on Stripe payment to make payment and then pay)

Note: No any major revisions in paper as per reviews and Similarity index is below 20%.

After the last date of registration IEEE PDF Express and E copyright information will be given for registered authors.

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Redmond, WA 98052

ICCCNT 2025 submission 8772

Message

6th ICCCNT 2025 <16thiccnt2025@easychair.org>
To: Ritika Chouksey <ritikachouksey741@gmail.com>

Tue, 24 Jun, 2025 at 11:16 am

"Dear Authors,
Paper ID: 8772
Title: AI-Integrated Smart Greenhouse Monitoring and Control Using
Cisco Packet Tracer and MATLAB-Based Framework

Congratulations! Your paper has been accepted. To ensure it is included in the presentation schedule, please make the necessary changes based on the below comments and update the same in the EasyChair login at the same Paper ID.

The present Similarity/Plagiarism Index Including References in iThenticate of your paper: 11%

Reviewer Comments:

Improve the contents in abstract
Scope and objectives are missing in the body of the manuscript
Citations are missing in the manuscript
Add minimum 15 to 20 citation in the introduction part
Lacks of results and discussion in the manuscript - Improve it
All the figures quality need to improve
Rewrite the conclusion with more valuable

Please carefully follow the instructions below:

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We will inform you of any further updates or changes required, if any.

ACT2025 :: Individual Review Result

Message

ACT Chair <act.chair@gmail.com>

To: agrawalps@rknec.edu, sharmavs@rknec.edu

Sun, 25 May, 2025 at 10:36 p

Dear ACT2025 Authors,

Welcome to ACT2025.

Congratulations - Your paper for the **Sixteenth International Conference on Advances in Computing, Control, and Telecommunication Technologies - ACT 2025**, has been accepted.

Paper ID	ACT2025 -508
Paper Title	IoT-Based Fire Monitoring System: A Simulated Implementation Using Cisco Packet Tracer
Category Accepted	Full Paper

The ACT2025 conference is jointly organized by the **IDES** and **Association of Computer Electrical Electronics and Communication Engineers (ACEECom)** and will be held during **June 25-26, 2025; Hyderabad, India.**

<https://act.theides.org/2025/>

All the accepted registered papers will be published by the **Grenze Scientific Society** and it will be made available in the **GRENZE International Journal of Engineering and Technology (GIJET)**, and will be indexed in **Scopus**. For your reference, to review previously published papers in the **GIJET**, please visit the following link: ***GIJET - Previously Published Papers.***

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