LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING
(AUTONOMOUS)
Approved by AICTE, New Delhi and Permanently affiliated to JNTUK, Kakinada
L.B. Reddy Nagar, Mylavaram, N.T.R. District, Andhra Pradesh-521230
Estd. 1998
ASE,CE,CSE,ECE, EEE, IT & ME Under Tier-I
NAAC
CGPA: 3.20/4

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Detailed Report

on

One Week Workshop on

C Programming: Fundamentals to Applications Development

05-12-2025 to 10-12-2025, 9:00 AM to 4.00 PM

Organised by

ELECTRONICS AND COMMUNICATION ENGINEERING

LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(AUTONOMOUS)

MYLAVARAM-521 230, N T R Dist., Andhra Pradesh.

One Week

Workshop

for ECE VI-Sem CRT Students

C Programming: Fundamentals to Applications Development

Training partner

BYTS Services India Pvt. Ltd., Coimbatore

Date/Time

05-12-2025 TO 10-12-2025
9:00 AM to 4.00 PM

PLATFORM
SKELO

Hackathon program
11-12-2025

Winners

1st Prize- Rs 2000
2nd Prize-Rs 1500
3rd Prize-Rs 1000

ELECTRONICS AND COMMUNICATION DEPARTMENT
LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING
MYLAVARAM-521 230, N T R Dist., A. P

C Programming: Fundamentals to Applications Development

1. Introduction

The Department of Electronics and Communication Engineering organised a One-Week Workshop from 05-12-2025 to 10-12-2005 on "C Programming: Fundamentals to Applications Development" for 181 CRT students of ECE VI-semester, and a Hackathon Program was conducted on 11-12-2025 to strengthen their programming skills and enhance their readiness for industry and placement requirements. C programming remains one of the most fundamental and widely used programming languages, forming the backbone for understanding advanced concepts in software development, embedded systems, and core engineering applications.

The workshop was designed to bridge the gap between theoretical knowledge and practical implementation by providing systematic exposure to both basic and advanced concepts of C programming. Through well-structured sessions, students were introduced to essential topics such as control structures, functions, arrays, pointers, and file handling, along with hands-on coding exercises to reinforce learning. Special emphasis was given to problem-solving techniques, logical thinking, and real-time application development.

The program was conducted in association with **BYTS Services India Pvt. Ltd., Coimbatore**, which brought industry-oriented training and practical insights to the participants. The workshop also included interactive sessions and a hackathon to assess students' understanding and encourage innovative thinking. Overall, the workshop aimed to equip students with strong programming fundamentals and practical skills essential for academic excellence and professional growth.

2. Objectives of the Workshop

1. To provide a **strong foundation in C programming fundamentals** for ECE students.
2. To enhance **logical thinking and problem-solving skills**
3. To familiarise students with **application-oriented programming concepts** using C.
4. To develop **hands-on coding skills** through practical sessions and exercises.
5. To prepare students for **placements, competitive exams, and technical interviews**.
6. To encourage **algorithmic thinking and debugging skills** among students.
7. To promote **teamwork and competitive learning** through a hackathon program.

3. Course Content Covered

The workshop covered both theoretical and practical aspects, including:

- Introduction to C Programming and its applications
- Data types, operators, and control statements
- Functions and modular programming
- Arrays, strings, pointers, and structures
- File handling and basic application development
- Hands-on coding sessions and real-time problem solving.

4. Principal Dr K Appa Rao Sir Addressing on the Importance of the Workshop

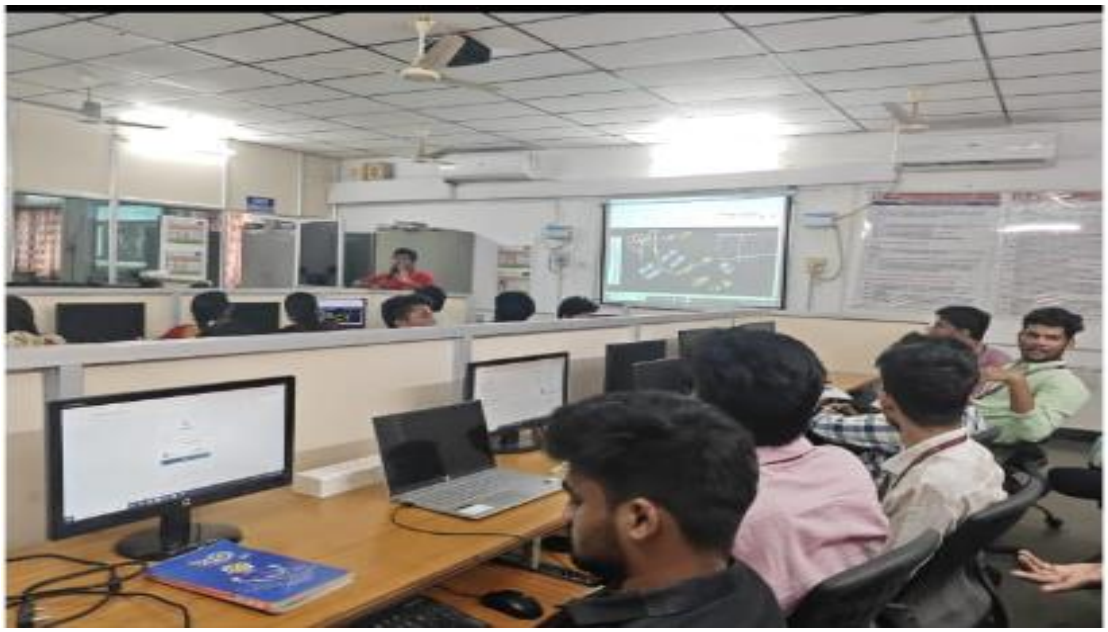
The Principal Sir addressed the students and emphasised the importance of programming skills in today's competitive and technology-driven world. He emphasised that C programming lays the foundation for understanding advanced subjects, including data structures, embedded systems, and core engineering applications. He encouraged students to utilise the workshop effectively to strengthen their logical thinking, problem-solving abilities, and coding skills, which are crucial for placements, higher studies, and professional success. The Principal, Sir, also appreciated the efforts of the ECE Department in organising such a value-added program and motivated the students to participate actively in the hands-on sessions and the hackathon to gain maximum benefit from the workshop.

Principal Dr K Appa Rao Sir is interacting with Students

5. Head of Department Dr. G. Srinivasulu Sir Addressing Students

Dr. G. Srinivasulu, Head of the Department, Electronics and Communication Engineering, addressed the students and highlighted the importance of programming skills in shaping a successful engineering career. He emphasized that C programming serves as a foundational language for understanding core subjects, problem-solving techniques, and advanced technologies.

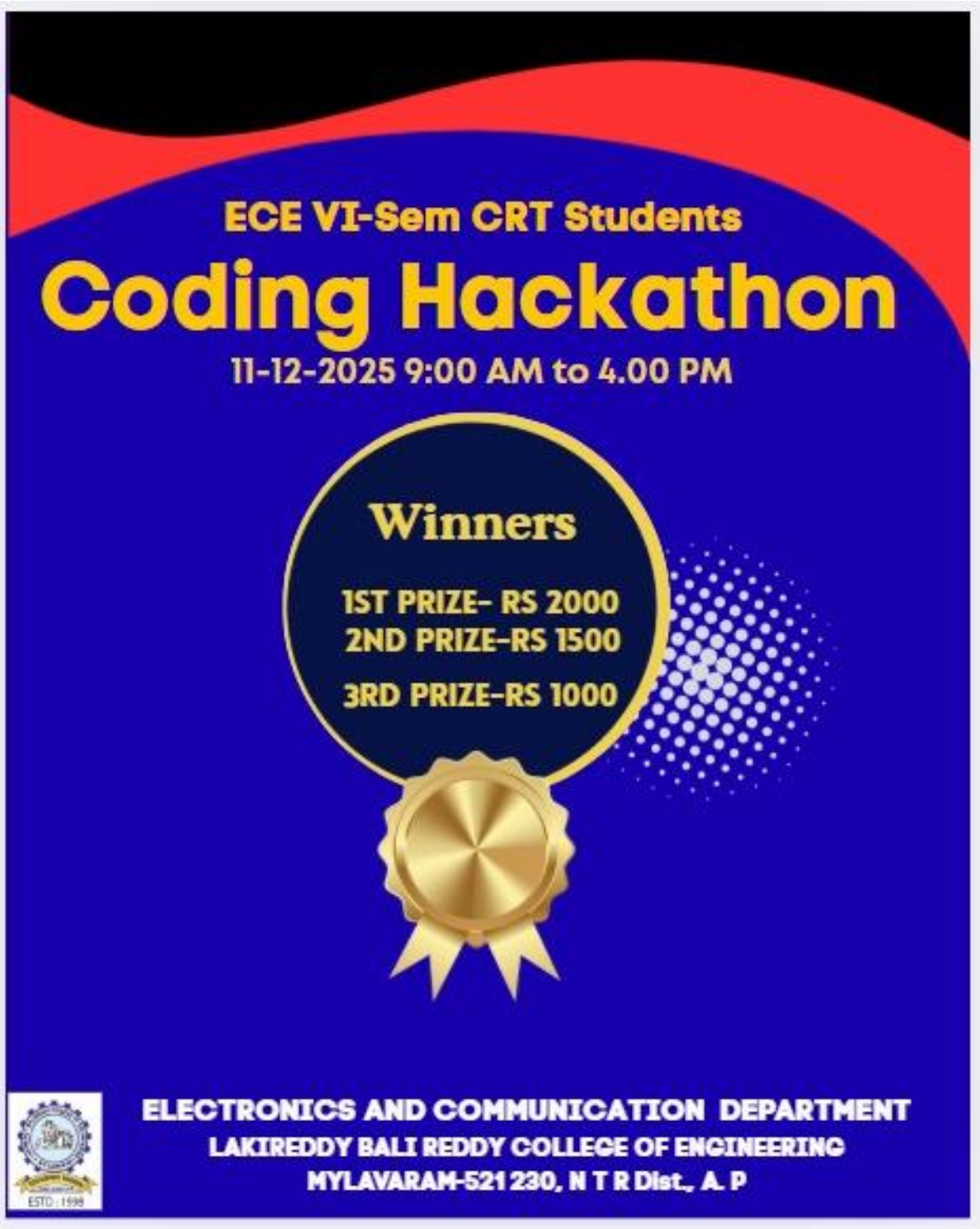
HOD Dr G. Srinivasulu Sir is interacting with Students

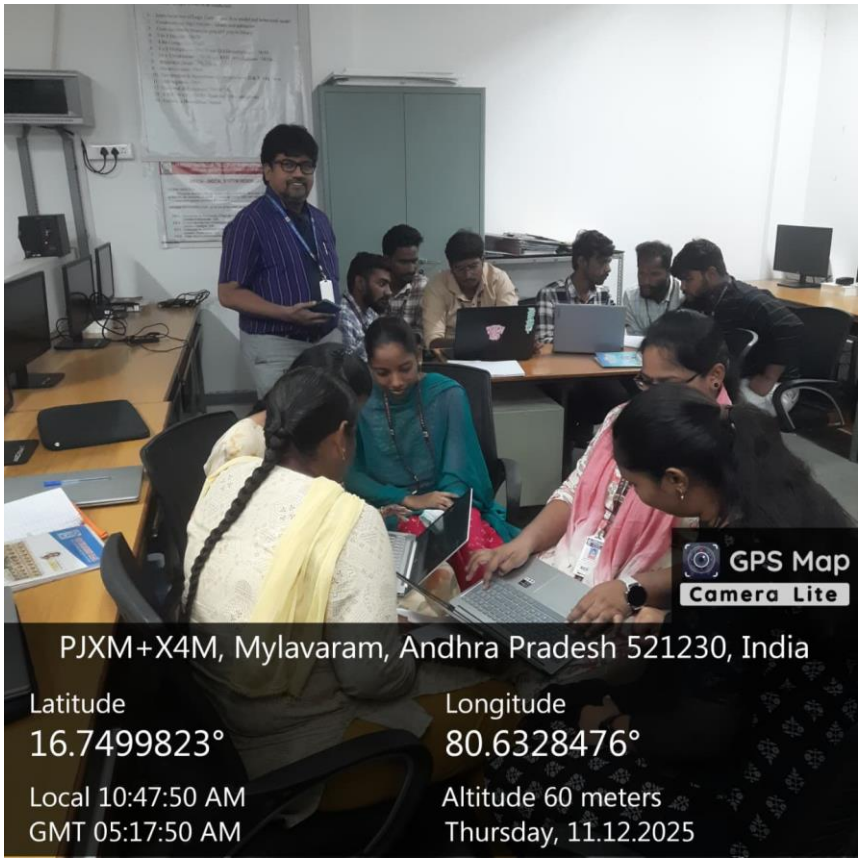


Resource Person Delivering the Content

6. Hackathon Program

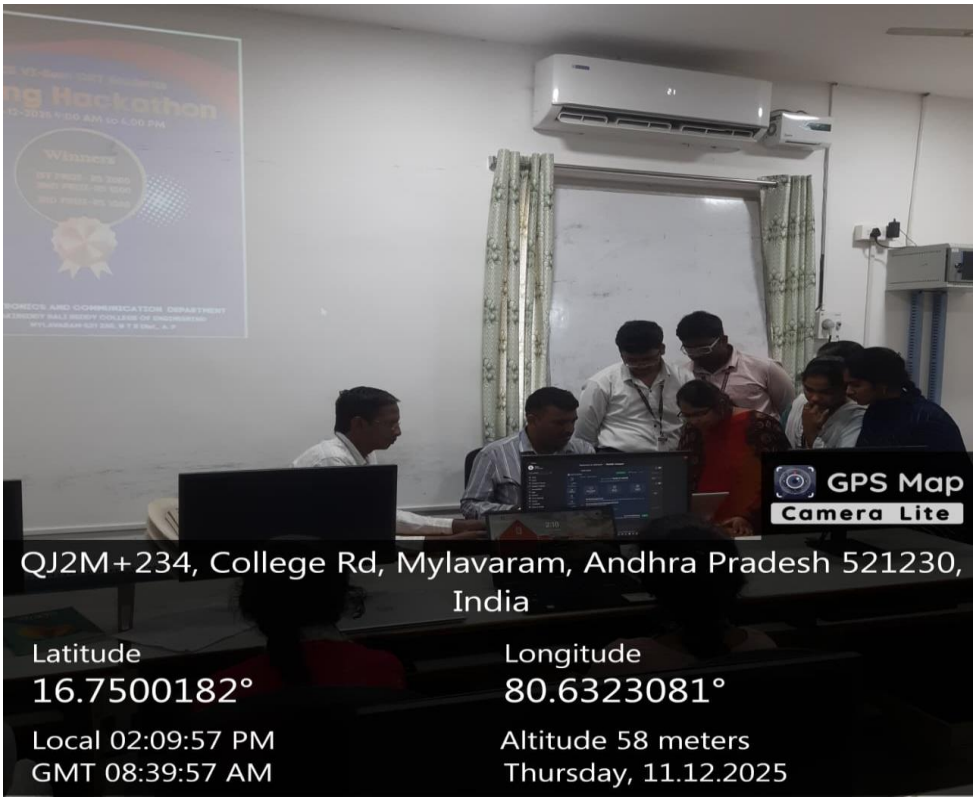
As part of the workshop, a **Hackathon Program** was conducted on **11-12-2025** to assess students' understanding and practical skills gained during the training. Students actively participated and demonstrated innovative solutions using C programming concepts.The hackathon encouraged teamwork, creativity, and a competitive coding spirit among students.



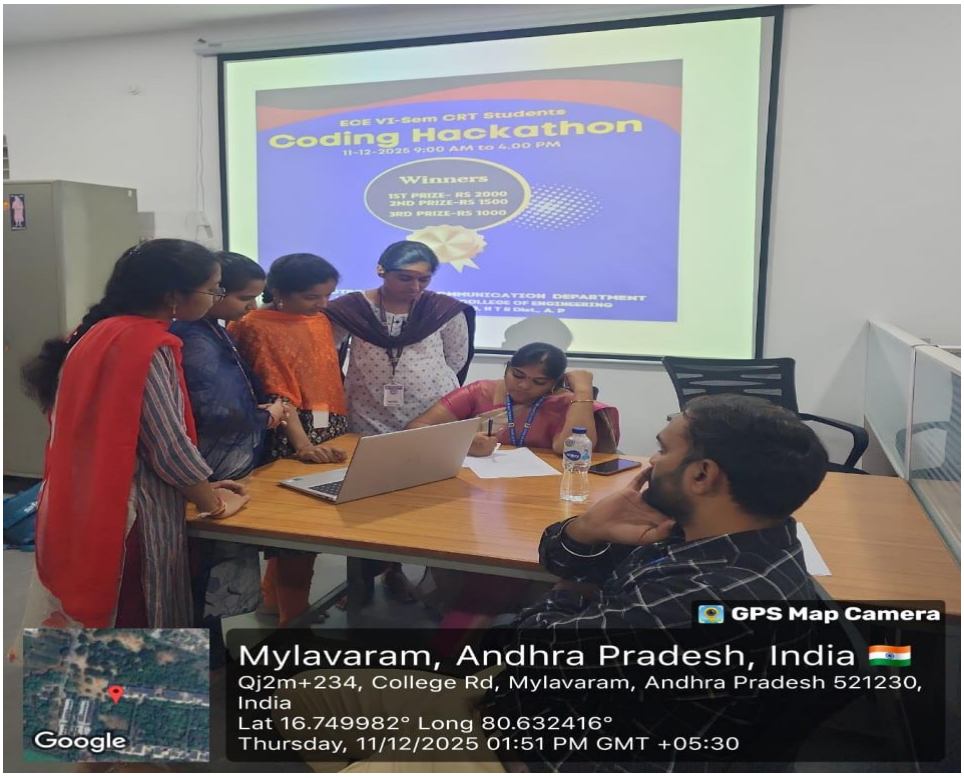


VI-Sem Students doing coding in Hackathon

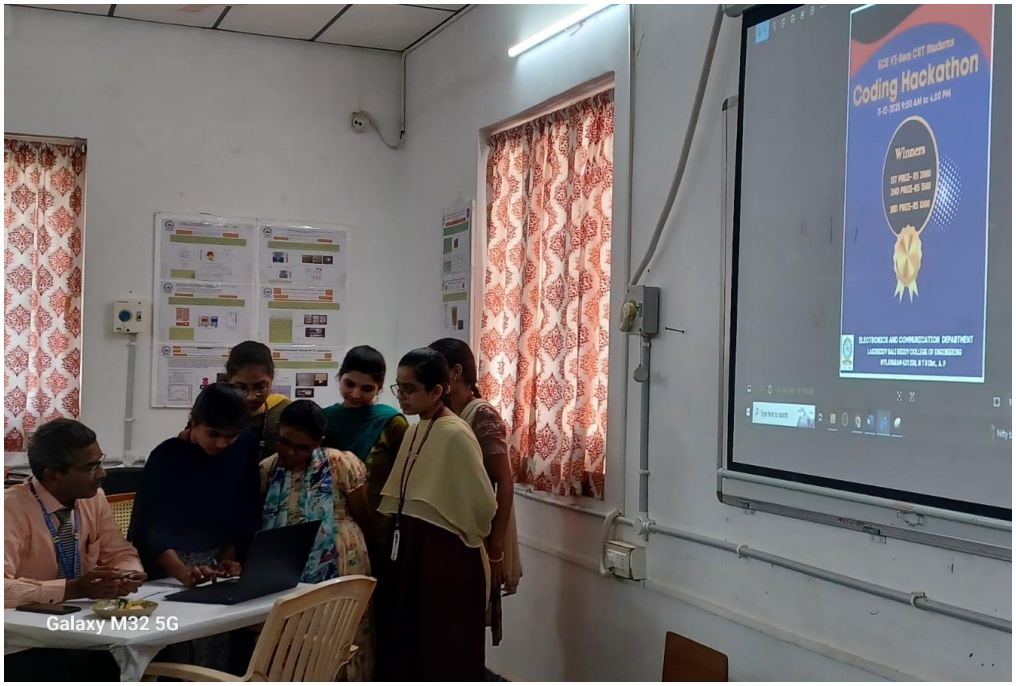
VI-Sem Students doing coding in Hackathon



A Section Students Code Evaluation by Judges

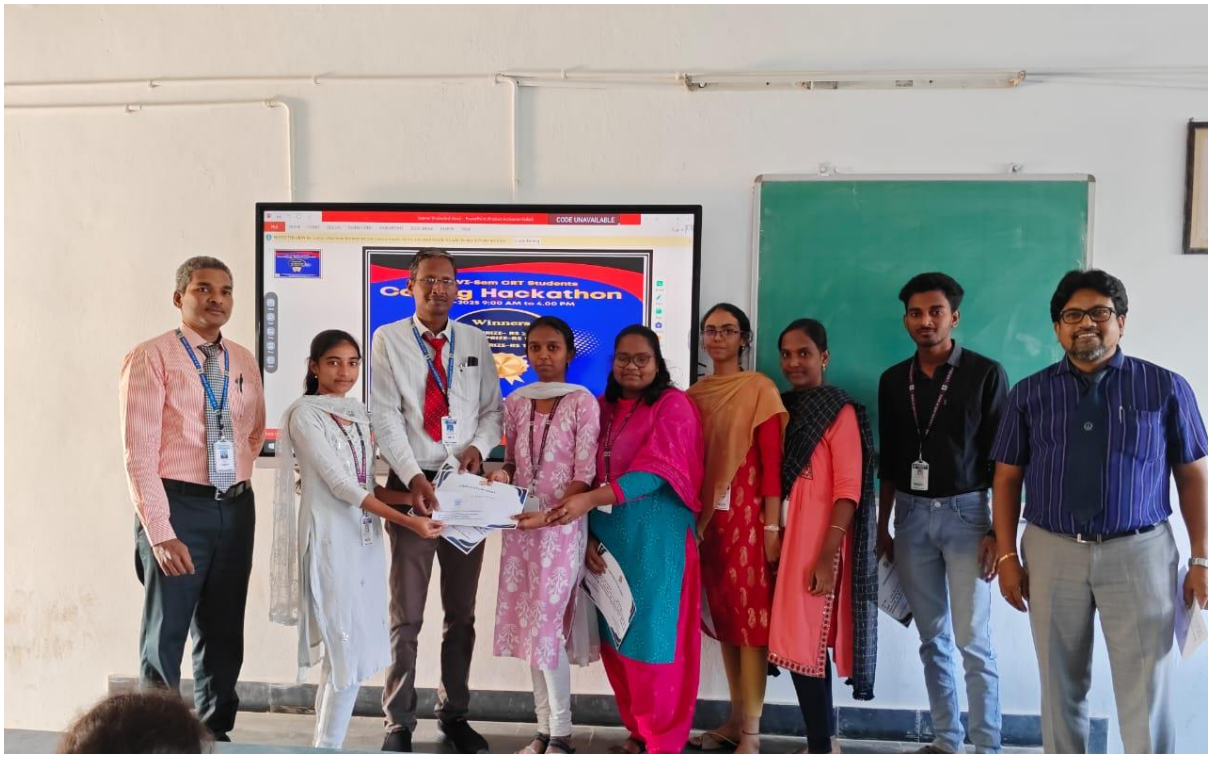


B Section Students Code Evaluation by Judges



C Section Code Evaluation by Judges

7. Prize Distributions



VI-SEM First Prize of Rs 20000

VI-SEM Second Prize of Rs 1500.

VI-SEM Third Prize of Rs 1000

FEEDBACK ON WORKSHOP

(C Programming: Fundamentals to Applications Development)

Dear Student,
Please provide your valuable feedback on the workshop. Your responses will help us improve future sessions.

NAME OF STUDENT *

Short answer text

ROLL NO *

Short answer text

SECTION *

- A
- B
- C

Section A: Workshop Content Delivery *

1.Data Types and Operators

- Excellent
- Very Good
- Good
- Poor

2.Control Statements *

- Excellent
- Very Good
- Good
- Poor

3.Loop Concepts *

- Excellent
- Very Good
- Good
- Poor

4.Arrays *

- Excellent
- Very Good
- Good
- Poor

5.Functions *

- Excellent
- Very Good
- Good
- Poor

7.Extent at which you are in position to develop an application using C language. *

- Excellent
- Very Good
- Good
- Poor

Section B: Tutor's Attitude & Teaching *

8.Clarity in Explanation

- Excellent
- Very Good
- Good
- Poor

9. Interaction & Engagement with Students *

- Excellent
- Very Good
- Good
- Poor

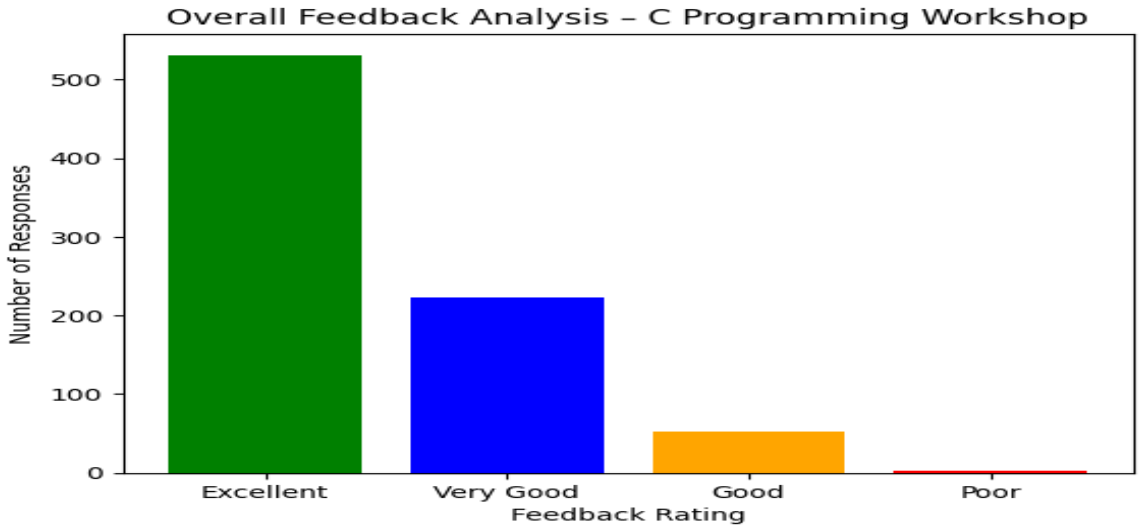
10.Supportiveness & Approachability *

- Excellent
- Very Good
- Good
- Poor

Section C : 11.Suggestions (At least one suggestion is essential) *

Short answer text

Feedback was collected from the participants of the One Week Workshop on “C Programming: Fundamentals to Applications Development” through a structured feedback form at the end of the program. The feedback aimed to evaluate the effectiveness of the workshop in terms of content delivery, teaching quality, interaction, and overall learning outcomes. A total of 81 student responses were received, indicating active participation and engagement.



Section A: Workshop Content Delivery

The responses indicate a high level of satisfaction with the workshop content:

1. Data Types and Operators:
   Majority of students rated this as Excellent, followed by Very Good, showing strong conceptual clarity.
2. Control Statements and Loop Concepts:
   Most participants rated these topics as Excellent, reflecting effective explanation and hands-on practice.
3. Arrays, Functions, and Structures:
   Feedback shows predominantly Excellent and Very Good ratings, indicating that students were able to understand and apply these concepts.
4. Ability to Develop Applications Using C:
   Students expressed confidence in developing basic applications, with most responses marked as Excellent or Very Good.

Overall, Section A feedback confirms that the workshop successfully met its academic objectives.

Section B: Tutor's Attitude & Teaching

The trainer's performance received very positive feedback:

1. Clarity in Explanation: Mostly rated as Excellent
2. Interaction and Engagement: Rated Excellent by a large majority, highlighting effective student involvement
3. Supportiveness and Approachability: Highly appreciated, with only a negligible number indicating areas for improvement

This reflects the trainer's strong teaching methodology and student-friendly approach.

Section C: Suggestions

Most students expressed satisfaction with the workshop and mentioned "Good program" or "No suggestions." A few students suggested:

1. Increasing the duration of the workshop
2. Including more practice problems and advanced examples
3. These suggestions indicate positive engagement and interest in deeper learning.

8. Outcomes of the Workshop

- Students gained **strong conceptual clarity** in C programming
- Improved **coding confidence and logical reasoning**
- Enhanced **readiness for placements and technical assessments**
- Positive feedback from students regarding hands-on sessions and hackathon

9. Conclusion

The one-week workshop on **"C Programming: Fundamentals to Applications Development"** was successfully conducted and achieved its intended objectives. The collaboration with **BYTS Services India Pvt. Ltd.** provided industry-oriented exposure to students. The workshop significantly contributed to improving students' programming skills and overall technical competency.