## Department of Information Technology

### Session: 2024-25

## Internship Seminar on

# Industry Internship at Codechef

By
Sem : 8th

**Shubham Galande (52)**

**Under the guidance of**
**Dr. Shweta Bondre**
Asst. Prof, IT Department RCOEM, Nagpur

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# Codechef Background

**CodeChef** is a competitive programming platform that provides a space for programmers to practice, compete, and improve their coding skills. It hosts a variety of contests, including monthly long challenges, cook-offs, and lunchtime competitions, attracting participants from all over the world. CodeChef also focuses on building a strong programming culture through initiatives like campus chapters, certification programs, and mentorship opportunities. Additionally, it supports learning and skill development by offering a wide range of problems across different difficulty levels, helping individuals and institutions foster technical excellence and innovation through trainings.

# Introduction

- **Role**: CodeChef Trainer

- **Organization**: KL University, Vijayawada, Andhra Pradesh

- **Focus Area**: Data Structures and Algorithms (DSA)

- **Audience**: ~1000 students

- Designed and delivered structured DSA learning sessions

- Conducted training on **competitive programming**

- Organized **code reviews** and **debugging exercises**

- Managed CodeChef-assigned learning platforms

- Ensured smooth access to coding challenges and resources

# Objectives

- **Deep Understanding of DSA:**
  Focused on core concepts and practical applications.

- **Hands-On Coding Practice:**
  Active problem-solving, debugging sessions, and code reviews.

- **Competitive Programming Mindset:**
  Encouraged participation in contests and hackathons.

- **Structured Problem-Solving:**
  Applied real-world scenarios and methodologies.

- **Efficiency in Coding:**
  Emphasis on time & space complexity and performance optimization.

- **Confidence Building:**
  Tackled algorithmic challenges with critical thinking strategies.

- **Collaborative Learning Environment:**
  Fostered discussions, peer learning, and community building.

# Literature Review/ Existing Methods

- **Traditional Teaching Approaches:**
- Focused mainly on theoretical understanding.
- Limited real-world problem-solving exposure.

- **Online DSA Platforms (e.g., GeeksforGeeks, LeetCode, HackerRank):**
- Provide large sets of problems with varying difficulty.
- Offer time/space complexity analysis and community discussions.

- **University Curriculum:**
- Often lacks emphasis on practical coding and competitive programming.
- Minimal integration of real-time coding practice or contests.

- **YouTube Tutorials & MOOCs (e.g., Coursera, edX):**
- Great for conceptual clarity.
- Limited in providing personalized guidance or collaborative learning

- **Bootcamps & Crash Courses:**
- Intensive learning over a short period.
- May not ensure long-term concept retention.

# Time Line

Nov 2024 — Call from CodeChef - Telephonic Interview (1st Round)

2nd Round: Teaching Skills & DSA Knowledge — Nov 2024

Nov 2024 — 3rd Round: Showcase Coding Profiles & Moto

Joined as DSA Trainer — Dec 2024

Dec 2024 - Apr 2025 — Training Students

Conducted Assessments & Review — Apr 2025

Apr 2025 — End of Internship

## Koneru Lakshmaiah Education Foundation

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To
Mr. SHUBHAM AJAY GALANDE,
FLAT No. F-6, ASHRAY APARTMENT, SOMALWADA,
VIVEKANAND NAGAR, NAGPUR,
MAHARASHTRA – 440 015.

### PROVISIONAL ORDER

Sub: Selection as CodeChef Trainer in the Department of Computer Science & Engineering in KL College of Engineering at Vaddeswaram Campus - Reg.

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With reference to your application and subsequent interview, we are pleased to inform that you are provisionally selected for the position of **CodeChef Trainer** in the Department of Computer Science & Engineering in KL College of Engineering at Vaddeswaram Campus. You are informed to join within fifteen days from the date of receipt of this order and you may collect your appointment order at the time of joining.

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Admin. office : 29-36-38, Museum Road, Governorpet, Vijayawada, A. P., India. PIN : 520 002.
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## CODECHEF
www.codechef.com

To Whom It May Concern,

This is to certify that Mr. Shubham Ajay Galande has successfully completed an internship at KL university as a Technical Trainer under the CodeChef College Program from December to April.

During this period, he played an active role in conducting technical training sessions and mentoring students in programming and problem-solving. His dedication and contribution to the program were highly appreciated.

We thank him for his efforts and wish him continued success in his future endeavors.

Suraj Sharma,
Director of Operations
CodeChef

CODING CHEF PRIVATE LIMITED
CIN: U62099KA2023PTC170745

Registered Office Address: MNR Pride, No 14, 4th Floor, Domlur Service Road, Old Airport Road, Domlur Layout, Domlur, Bangalore, 560071, Karnataka, India