PORT FOLIO

21CSC203P – ADVANCED PROGRAMMING PRACTICE

Student Name: Salil Vaidya

Register Number: RA2411003010306

Email: sv3374@srmist.edu.in

DEPARTMENT OF COMPUTING TECHNOLOGIES

FACULTY OF ENGINEERING AND TECHNOLOGY

SCHOOL OF COMPUTING

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

KATTANKULATHUR

OCTOBER 2025

About Me

I am an aspiring technologist passionate about software development and a tech enthusiast with a keen interest in programming and technology. Skilled in Java, C, and Python, I enjoy exploring how software works and creating simple, effective solutions that make an impact.

Projects

1. Bank Management System (Java Mini Project)

Objective: To design a simple and secure system for managing basic banking operations using Core Java.

Description: A console-based Java application that enables users to create accounts, perform transactions, and view balances efficiently. It applies Object-Oriented Programming principles such as inheritance and encapsulation and supports file handling or MySQL-based data storage.

Features:
- Account creation and management
- Deposit and withdrawal operations
- Transaction history display
- File/database-based data storage
- User-friendly console interface

Technologies Used: Java, OOP Concepts, MySQL / File Handling, Eclipse IDE

Learning Outcome: Enhanced Java programming skills, improved database connectivity knowledge, and stronger application design logic.

2. IoT-Based Physical Model (COA Mini Project)

Objective: To demonstrate hardware-software interaction using IoT and microcontroller principles based on computer architecture concepts.

Description: Developed an IoT-enabled physical model integrating sensors such as temperature, motion, and light with microcontrollers like Arduino or NodeMCU. The system collects real-time data and displays it on an LCD or dashboard, simulating data flow and control processes similar to those in COA systems.

Features:
- Real-time data sensing and transmission
- Microcontroller-based processing

• Output display via LED/LCD or online dashboard
• Demonstrates COA fundamentals such as control signals and data transfer

Technologies Used: Arduino / NodeMCU, IoT Sensors, Embedded C / Arduino IDE, Power Circuit

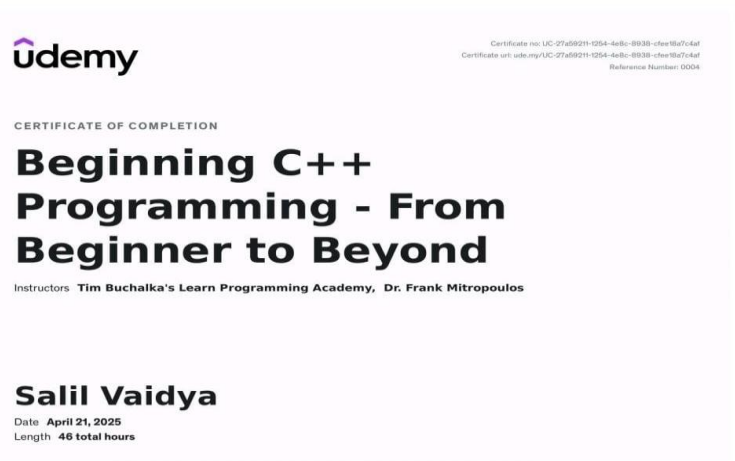
Learning Outcome: Strengthened understanding of COA principles, IoT applications, and embedded system design.

GitHub Profile

GitHub Profile: https://github.com/SalilVaidya0197

Achievements & Certifications

Certificate Title/Type	Issued By	Date
Beginning C++ Programming (Udemy)	Tim Buchalka/Frank Mitropoulos	Apr 21, 2025
ISTE Student	ISTE	Jan 13, 202



Member		5
Cybersecurity Analyst Job Simulation	Tata/Forage	Apr 4, 2025

Heisen Hack Organizer Certificate	SRM ACM SIGKDD	Oct 2025

Tech Talk Participation Certificate	ACM SIGKDD SRM	Mar 28, 2025

Introduction to LangGraph	LangChain Academy	Sep 9, 2025

DayZero Hackathon Participation	CodeNex SRM	Apr 8, 2025

Symposium Organizer Certificate	ACM SIGKDD/SRM	Aug 2025
Generative AI for Beginners	Simplilearn	Apr 4, 2025

Oracle Cloud Infrastructure 2025 Certified Generative Al Professional Oracle

10 September 2025

Fundamentals of Object Oriented Programming. NPTEL ONLINE CERTIFICATION

Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

Skill India
कौशल भारत - कुशल भारत

This certificate is awarded to

SALIL VAIDYA

for successfully completing the course

Fundamentals of Object Oriented Programming

with a consolidated score of **71** %

Online Assignments	24.69/25	Proctored Exam	46.5/75

Total number of candidates certified in this course: **5246**

Prof. Kaushik Ghosh,
Professor(Chemistry)
Coordinator CEC

Jan-Apr 2025
(12 week course)

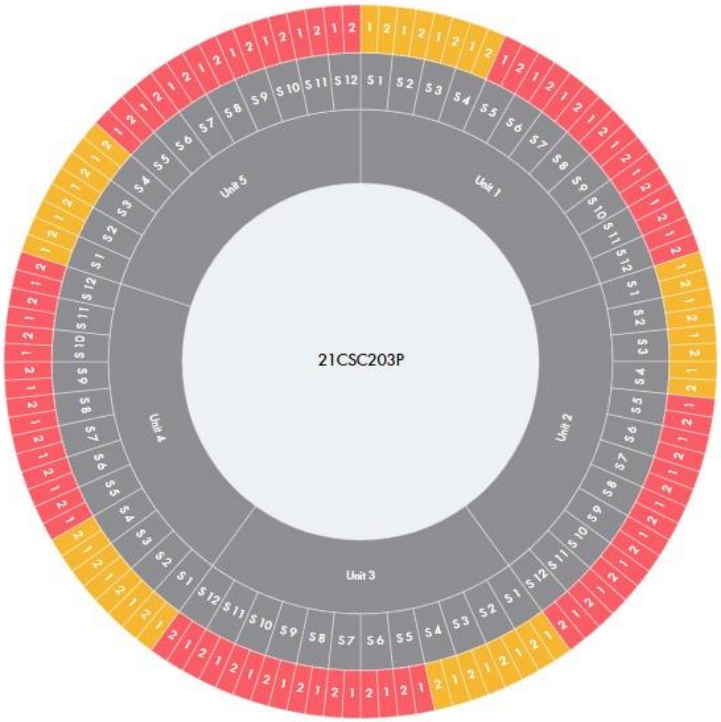
Prof. Ranjana Pathania,
Professor (BSBE)
Coordinator (NPTEL)

Indian Institute of Technology Roorkee

swayam

Roll No: NPTEL25CS34S643202718 To verify the certificate No. of credits recommended: 3 or 4

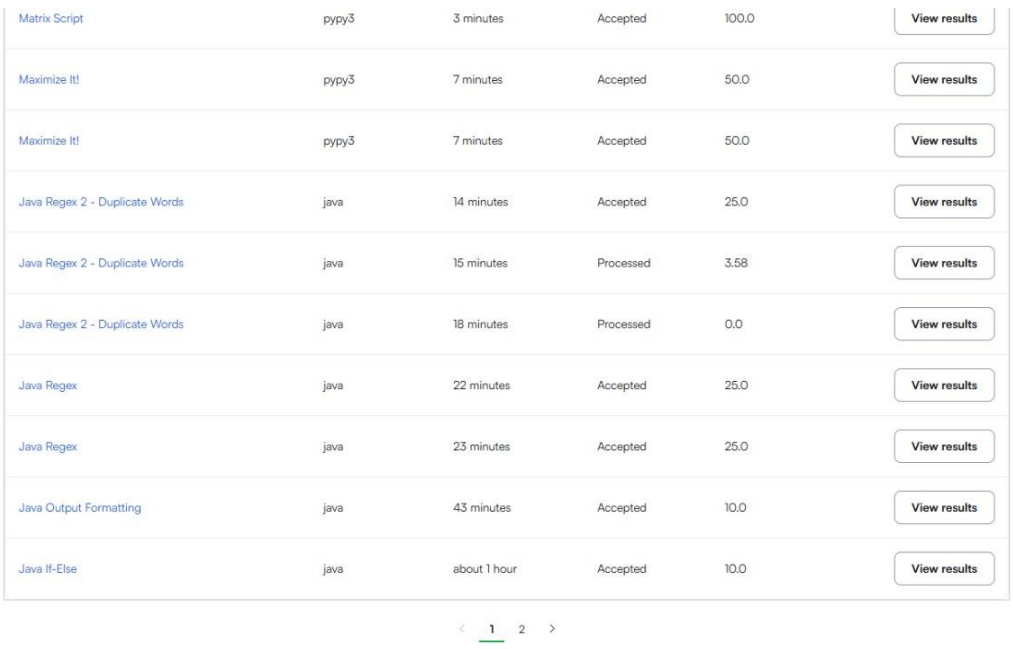
E-CurriculaE-Curricula E-Curricula Completion



HackerRank Problem Completion

Students must complete the following problems on HackerRank related to Java or Python:

- **2 Easy problems**
- **2 Medium problems**
- **2 Hard problems**



Matrix Script	pypy3	3 minutes	Accepted	100.0	View results
Maximize It!	pypy3	7 minutes	Accepted	50.0	View results
Maximize It!	pypy3	7 minutes	Accepted	50.0	View results
Java Regex 2 - Duplicate Words	java	14 minutes	Accepted	25.0	View results
Java Regex 2 - Duplicate Words	java	15 minutes	Processed	3.58	View results
Java Regex 2 - Duplicate Words	java	18 minutes	Processed	0.0	View results
Java Regex	java	22 minutes	Accepted	25.0	View results
Java Regex	java	23 minutes	Accepted	25.0	View results
Java Output Formatting	java	43 minutes	Accepted	10.0	View results
Java If-Else	java	about 1 hour	Accepted	10.0	View results

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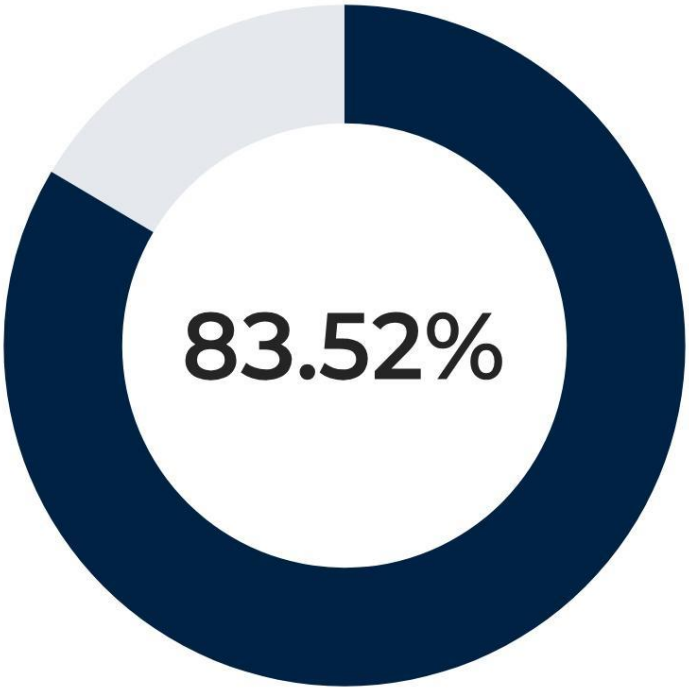
Programing in Java NPTEL progress

Name	Salil Vaidya
Email	vaidyasalil7@gmail.com
Date Enrolled	2025-07-23

Course Progress



PORTFOLIO WEBSITE LINK-