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Software Engineering

By Prof. Rajib Mall | IIT Kharagpur

Learners enrolled: 19857

Software Engineering by Prof Rajib Mall

Large scale software development poses special challenges. This course targets to expose the students to the challenges of large scale software development and would expose the students as to how to overcome those. Starting with basic life cycle model concepts, it would discuss requirements specification, design, and testing issues. The concepts will be illustrated with appropriate examples.

INTENDED AUDIENCE: CSE, IT
PREREQUISITES: C Programming, Java or C++ programming

Summary **swayam** (https://swayam.gov.in/) ✳ (https://swayam.gov.in/nc_details/NPTEL)

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Course Status : About Swayam (https://swayam.gov.in/about) | All Courses |
Completed

Course Type : Elective

Duration : 12 weeks

Category :
  ○ Computer Science and Engineering

Credit Points : 3

Level : Postgraduate

Start Date : 14 Sep 2020

End Date : 04 Dec 2020

Enrollment Ends : 25 Sep 2020

Exam Date : 20 Dec 2020 IST

Note: This exam date is subjected to change based on seat availability. You can check final exam date on your hall ticket.

This is an AICTE approved FDP course

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(https://www.addtoany.com/share#url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc20_cs68%2Fpreview&title=Software%20Engineering%20-%20Course)
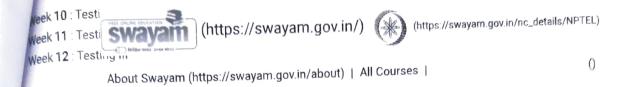
Course layout

Week 1 : Introduction
Week 2 : Life Cycle Models I
Week 3 : Life Cycle Models II
Week 4 : Requirements analysis and specification
Week 5 : Basics of software design
Week 6 : Procedural design methodology
Week 7 : Object-oriented concepts
Week 8 : Introduction to UML: Class and Interaction Diagrams
Week 9 : Object-oriented analysis and design

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Week 10 : Testi
Week 11 : Testi **swayam** (https://swayam.gov.in/) (https://swayam.gov.in/nc_details/NPTEL)
Week 12 : Testing in

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Books and references

Rajib Mall, Software Engineering, PHI, 2013

Instructor bio

Prof. Rajib Mall

IIT Kharagpur

Rajib Mall is Professor, Department of Computer Science and Engineering, Indian Institute of Technology Kharagpur, West Bengal. He has more than a two decades of teaching experience in the areas of program analysis and testing. He has written five text books and over 150 refereed research papers.

Course certificate

The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.
The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).
Date and Time of Exams: **20 December 2020** Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.
Registration url: Announcements will be made when the registration form is open for registrations.
The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.
Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

CRITERIA TO GET A CERTIFICATE

Average assignment score = 25% of average of best 8 assignments out of the total 12 assignments given in the course.
Exam score = 75% of the proctored certification exam score out of 100

Final score = Average assignment score + Exam score

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3/4