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Programming In Java

By Prof. Debasis Samanta | IIT Kharagpur

Learners enrolled: 45444



With the growth of Information and Communication Technology, there is a need to develop large and complex software. Further, those software should be platform independent, Internet enabled, easy to modify, secure, and robust. To meet this requirement object-oriented paradigm has been developed and based on this paradigm the Java programming language emerges as the best programming environment. Now, Java programming language is being used for mobile programming, Internet programming, and many other applications compatible to distributed systems. This course aims to cover the essential topics of Java programming so that the participants can improve their skills to cope with the current demand of IT industries and solve many problems in their own filed of studies.

INTENDED AUD regraduate students from the engineering disciplines namely CSE, IT, EE, ECE, etc. might be interested for this (https://swayam.gov.in/) (https://swayam.gov.in/nc_details/NPTEL)

PREREQUISITES . This course requires that the students are familiar with programming language such as C/C++ and data

structures, algorith Swayam (https://swayam.gov.in/about) | All Courses |

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INDUSTRY SUPPORT: All IT companies.

Summary

Course Status : Completed

Course Type: Elective

Duration: 12 weeks

Category: • Computer Science and Engineering

Programming

Credit Points:

Level: Undergraduate

Start Date: 24 Jan 2022

End Date: 15 Apr 2022

Enrollment Ends: 07 Feb 2022

Exam Date: 24 Apr 2022 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%2Fnoc22_cs47%2Fpreview&title=Programming%20In%20Java%20%20Course)

Course layout

Week 1: Overview of Object-Oriented Programming and Java

Week 2: Java Programming Elements
Week 3: Input-Output Handling in Java

Week 4: Encapsulation

Week 5: Inherit

Week 6 : Excep | SWa

(https://swayam.gov.in/)

(https://swayam.gov.in/nc_details/NPTEL)

Week 7: Multitlineaueu i rogramming

Week 8 : Java Apalletia ซฟล่งลักได้กระ//swayam.gov.in/about) | All Courses |

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Week 9: Java Swing and Abstract Windowing Toolkit (AWT)

Week 10: Networking with Java

Week 11: Java Object Database Connectivity (ODBC)

Week 12: Interface and Packages for Software Development

Books and references

1. Java: The Complete Reference Hebert Schildt, Mc Graw Hill

2. Object-Oriented Programming with C++ and Java Debasis Samanta, Prentice Hall India.

Instructor bio



Prof. Debasis Samanta

IIT Kharagpur

Debasis Samanta holds a Ph.D. in Computer Science and Engineering from Indian Institute of Technology Kharagpur. His research interests and work experience spans the areas of Computational Intelligence, Data Analytics, Human Computer Interaction, Brain Computing and Biometric Systems. Dr. Samanta currently works as a faculty member at the Department of Computer Science & Engineering at IIT Kharagpur.

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: 24 April 2022 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

This course will pred programming exam also apart from the Proctored exam, please check announcement section for date with the course will predominate the proctored exam, please check announcement section for date with the course will predominate the proctored exam, please check announcement section for date with the course will be a section for date with the course

Final score = Assignment was and the server of the server

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- Assignment score = 25% of average of best 8 assignments out of the total 12 assignments given in the course.
- (All assignments in a particular week will be counted towards final scoring quizzes and programming assignments).
- Unproctored programming exam score = 25% of the average scores obtained as part of Unproctored programming exam out of 100
- Proctored Exam score =50% of the proctored certification exam score out of 100

YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF ASSIGNMENT SCORE >=10/25 AND UNPROCTORED PROGRAMMING EXAM SCORE >=10/25 AND PROCTORED EXAM SCORE >= 20/50.

If any one of the 3 criteria is not met, you will not be eligible for the certificate even if the Final score >= 40/100.

Certificate will have your name, photograph and the score in the final exam with the breakup. It will have the logos of NPTEL and IIT Kharagpur . It will be e-verifiable at nptel.ac.in/noc (http://nptel.ac.in/noc).

Only the e-certificate will be made available. Hard copies will not be dispatched.

Once again, thanks for your interest in our online courses and certification. Happy learning.

- NPTEL team





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Initiative by : Ministry of Education (Govt of India)

This certificate is computer generated and can be verified by scanning the QR code given below. This will display the certificate from the NPTEL repository, https://nptel.ac.in/noc/

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Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=60	Elite
40-59	Successfully Completed
<40	No Certificate

No. of credits recommended by NPTEL:3

An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



Elite

L Online Certification

(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to

VIJAY S

for successfully completing the course



Programming in Java

with a consolidated score of 83

Proctored Exam Online Assignments Programming Exam 24.5/25 25/25 33.67/50

Total number of candidates certified in this course: 3157

Prof. G P Raja Sekhar Dean, Continuing Education

Sep-Dec 2020 (12 week course) IIT Kharagpur

Prof. Debjani Chakraborty Coordinator, NPTEL IIT Kharagpur



Indian Institute of Technology Kharagpur

