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# Introduction to Operating Systems

By Prof. Chester Rebeiro  |  IIT Madras

### Learners enrolled: 6771



W1 L0 - Intro to the Course

Operating systems (OS) provide the crucial interface between a computer's hardware and the applications that run on it. It allows us to write programs without bothering much about the hardware. It also ensures that the computer's resources such as its CPU, hard disk, and memory, are appropriately utilized. In this course, we dwell into how the OS manages to do all this in an efficient manner. This is an introductory course, for students with prior knowledge of computer organization. The course is based on an OS called xv6, which in many ways is similar to the Linux operating systems.
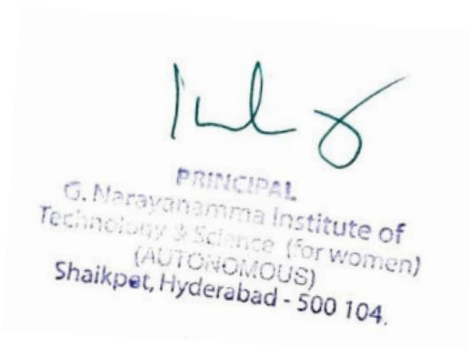
**INTENDED AUDIENCE** B.E./Msc (Computer Science)
**PRE-REQUISITES** Good knowledge of C, Computer Organization and Architecture, x86 Assembly level programming.

## Summary

Course Status :          Completed

Course Type :           Core

*[Signature]*

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### Prof. Chester Rebeiro

IIT Madras

Chester Rebeiro is an Assistant Professor at IIT Madras. He completed his PhD from IIT Kharagpur and a post-doc from Columbia University. His research interests are in cryptography, system security, especially hardware and operating system security. (webpage : http://www.cse.iitm.ac.in/~chester/)

## 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: **26 September 2021** 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 6 assignments out of the total 8 assignments given in the course.

Exam score = 75% of the proctored certification exam score out of 100

Final score = Average assignment score + Exam score

**YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE >=10/25 AND EXAM SCORE >= 30/75. If one of the 2 criteria is not met, you will not get 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 Madras .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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## (AUTONOMOUS)
### Shaikpet, Hyderabad – 500104

**Department: Information Technology**

**2021-22**

**REPORT**

NPTEL course on "Introduction to Operating Systems

Date of program: July – sept 2021

Resource person: Prof. Chester Rebeiro, IIT Madras.

About the Program:

In this course, the resource person has delivered their lectures from the basics of operating systems to the more details of the algorithms used in different operating systems.

It has helped me in taking up a course for the B.Tech II year I semester IT students.

Signature of the Faculty member

B. Vijay Kumar

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