



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



Skill India
कौशल भारत - कुशल भारत



This certificate is awarded to

AMSA LAKSHMI M

for successfully completing the course



Human Computer Interaction (In English)

with a consolidated score of **86** %

Online Assignments	25/25	Proctored Exam	61.25/75
--------------------	-------	----------------	----------

Total number of candidates certified in this course: **3921**

Dr. Anand Srivastava

Coordinator

Continued Education Program, IIITD

Jan-Apr 2025

(12 week course)

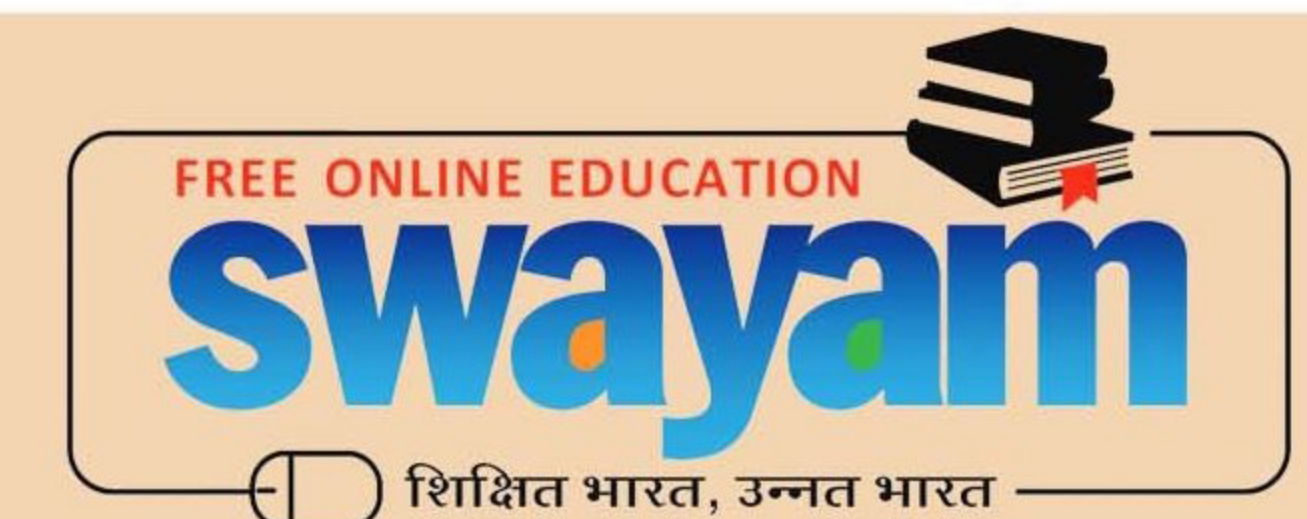
Prof. Andrew Thangaraj

NPTEL, Coordinator

IIT Madras



INDRAPRASTHA INSTITUTE of
INFORMATION TECHNOLOGY **DELHI**



Roll No: NPTEL25CS38S650200550

To verify the certificate



No. of credits recommended: 3 or 4



NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to

AMSA LAKSHMI M

for successfully completing the course

Cyber Security and Privacy

with a consolidated score of **53** %

Online Assignments	22.81/25	Proctored Exam	30/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **6461**

Prof. Andrew Thangaraj

Chair

Centre for Outreach and Digital Education, IITM

Jul-Oct 2024

(12 week course)

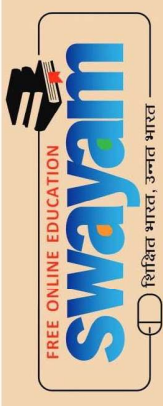
Prof. Vignesh Muthuvijayan

NPTEL Coordinator

IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL24CS121S1063900383

To verify the certificate

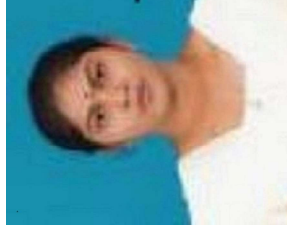
No. of credits recommended: 3 or 4



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to

DHIVYA BHARATHI

for successfully completing the course

Cloud Computing

with a consolidated score of **65** %

Online Assignments	24.69/25	Proctored Exam	40/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **30816**

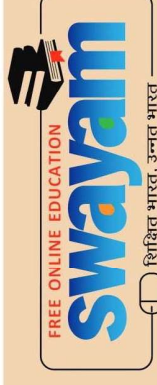
Jul-Oct 2024

(12 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL24CS118S1063900257

To verify the certificate

No. of credits recommended: 3 or 4



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



Skill India
कौशल भारत - कुशल भारत

This certificate is awarded to

DHIVYA BHARATHI

for successfully completing the course

Introduction To Internet Of Things

with a consolidated score of **84** %

Online Assignments	25/25	Proctored Exam	58.5/75
--------------------	-------	----------------	---------

Total number of candidates certified in this course: **38143**

Jan-Apr 2025

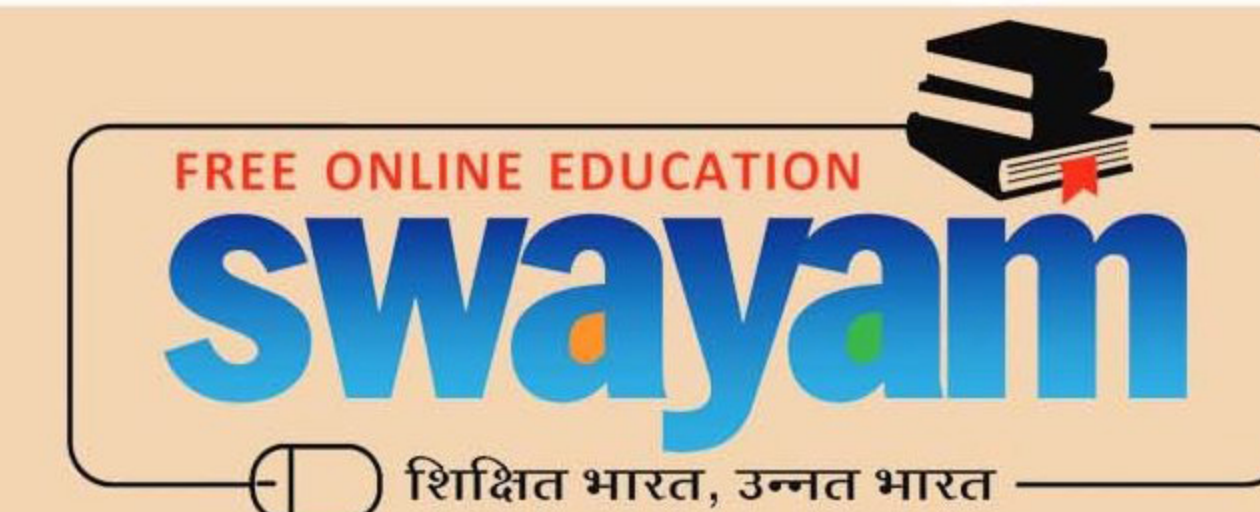
(12 week course)

Prof. Haimanti Banerji

Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL25CS44S350200141

To verify the certificate

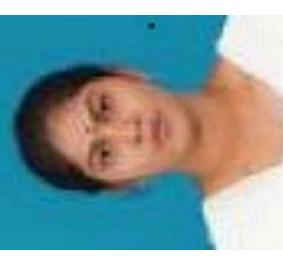


No. of credits recommended: 3 or 4



NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to

DHIVYA BHARATHI P

for successfully completing the course

Introduction to Operating Systems

with a consolidated score of **58** %

Online Assignments	20.79/25	Proctored Exam	37.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **4040**

Prof. Andrew Thangaraj

Chair

Centre for Outreach and Digital Education, IITM

Jul-Sep 2025

(8 week course)

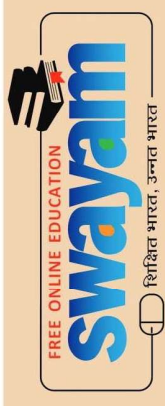
Prof. Vignesh Muthuvijayan

NPTEL Coordinator

IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL25CS94S340300044

To verify the certificate

No. of credits recommended: 2 or 3



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to

SMITHA J A

for successfully completing the course

Human Computer Interaction (In English)

with a consolidated score of **93** %

Online Assignments	25/25	Proctored Exam	67.5/75
--------------------	-------	----------------	---------

Total number of candidates certified in this course: 3921

Dr. Anand Srivastava
Coordinator
Continued Education Program, IITD

Jan-Apr 2025

(12 week course)

Prof. Andrew Thangaraj
NPTEL, Coordinator
IIT Madras



INDIAN INSTITUTE OF
INFORMATION TECHNOLOGY DELHI



Roll No: NPTEL25CS385650200549

To verify the certificate:



No. of credits recommended: 3 or 4



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to

SMITHA J A

for successfully completing the course

Introduction to Internet of Things

with a consolidated score of **77** %

Online Assignments	24.35/25	Proctored Exam	52.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **33131**

Jul-Oct 2024

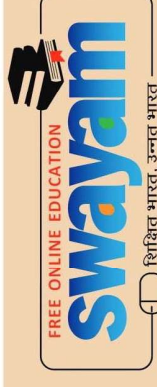
(12 week course)

Haimanti Banerji

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL24CS115S763900365

To verify the certificate

No. of credits recommended: 3 or 4



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to

KARTHIKA K

for successfully completing the course

Human Computer Interaction (In English)

with a consolidated score of **93** %

Online Assignments	25/25	Proctored Exam	67.5/75
--------------------	-------	----------------	---------

Total number of candidates certified in this course: **3921**

Dr. Anand Srivastava

Coordinator

Continued Education Program, IIITD

Jan-Apr 2025

(12 week course)

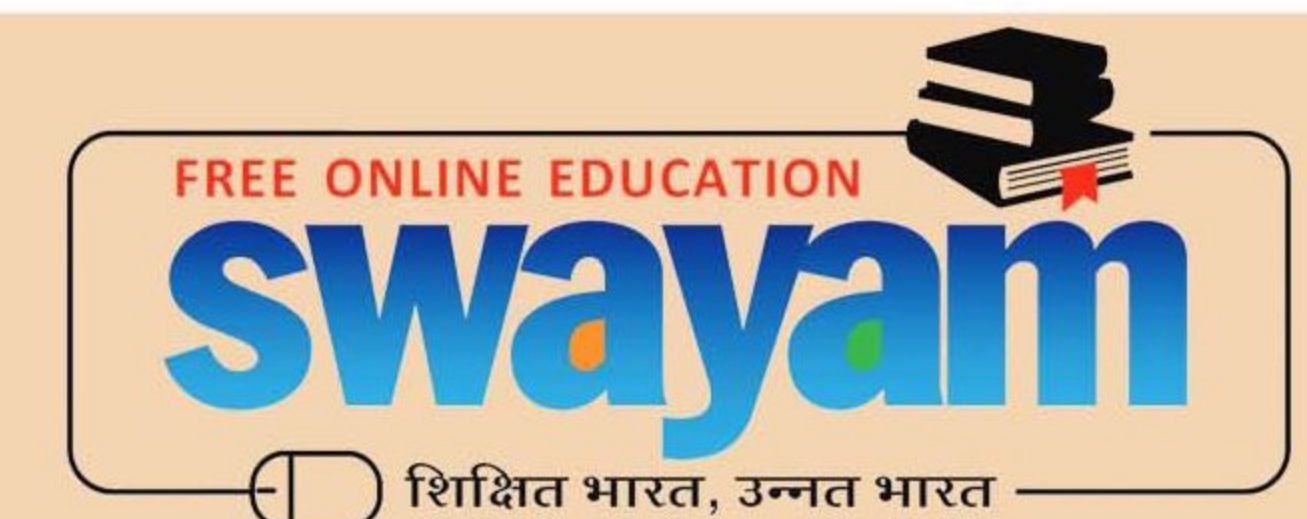
Prof. Andrew Thangaraj

NPTEL, Coordinator

IIT Madras



INDRAPRASTHA INSTITUTE of
INFORMATION TECHNOLOGY **DELHI**



Roll No: NPTEL25CS38S550200173

To verify the certificate



No. of credits recommended: 3 or 4



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to

KARTHIKA K

for successfully completing the course

Introduction to Internet of Things

with a consolidated score of **86** %

Online Assignments	24.56/25	Proctored Exam	61.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: 33131

Jul-Oct 2024

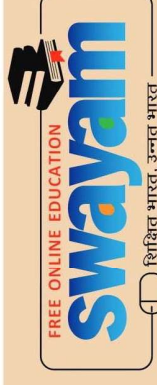
(12 week course)

Haimanti Banerji

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL24CS115S863900446

To verify the certificate

No. of credits recommended: 3 or 4



NPTEL-AICTE Faculty Development Programme

(Funded by the MoE, Govt. of India)



This certificate is awarded to

MAHESH A

for successfully completing the course

Introduction To Internet Of Things

with a consolidated score of 79 %

Prof. Andrew Thangaraj
NPTEL Coordinator
IIT Madras



(Jan-Apr 2025)

Roll No: NPTEL25CS44S350200128

Duration of NPTEL course: 12 Weeks



NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to
MAHESH A
for successfully completing the course

Introduction to Operating Systems

with a consolidated score of **54** %

Online Assignments	23.88/25	Proctored Exam	30/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **4040**

Prof. Andrew Thangaraj

Chair

Centre for Outreach and Digital Education, IITM

Jul-Sep 2025

(8 week course)

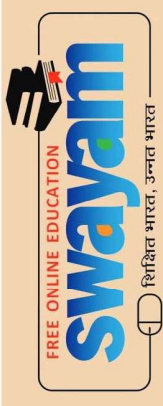
Prof. Vignesh Muthuvijayan

NPTEL Coordinator

IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL25CS94S340300027

To verify the certificate

No. of credits recommended: 2 or 3



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to

NITHYA KALYANI T

for successfully completing the course

Introduction To Internet Of Things

with a consolidated score of **94** %

Online Assignments	25/25	Proctored Exam	69/75
--------------------	-------	----------------	-------



Total number of candidates certified in this course: **38143**

Jan-Apr 2025

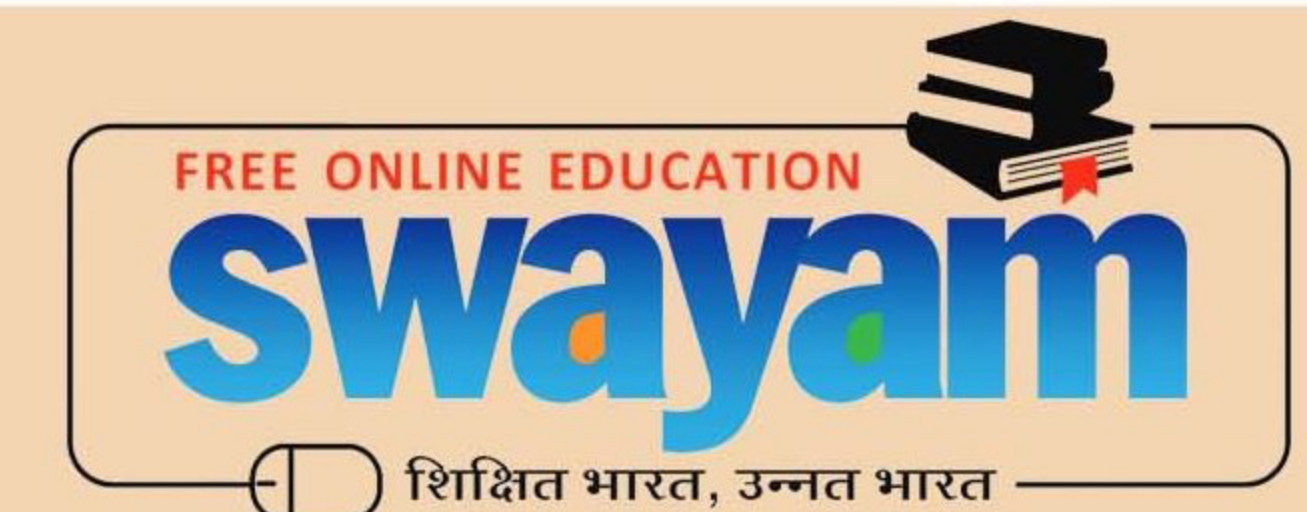
(12 week course)

Prof. Haimanti Banerji

Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL25CS44S450200326

To verify the certificate



No. of credits recommended: 3 or 4



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to

NITHYA KALYANI T

for successfully completing the course

Blockchain and its Applications

with a consolidated score of **60** %

Online Assignments	24.13/25	Proctored Exam	35.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **4124**

Prof. Haimanti Banerji

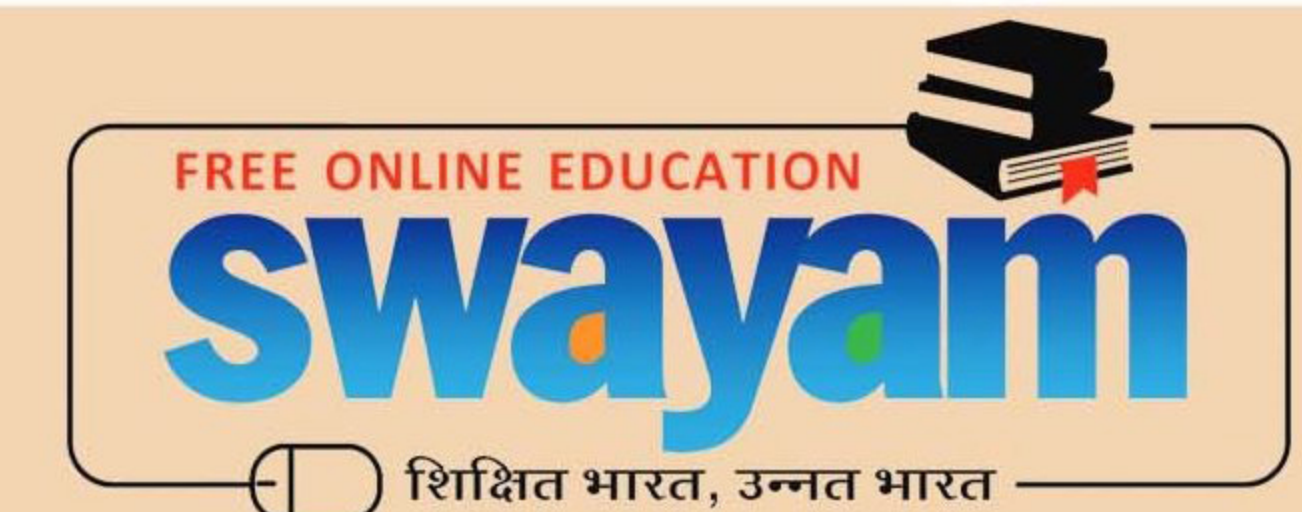
Coordinator, NPTEL
IIT Kharagpur

Jan-Apr 2025

(12 week course)



Indian Institute of Technology Kharagpur



Roll No: NPTEL25CS08S550200093

To verify the certificate



No. of credits recommended: 3 or 4



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to
NITHYA KALYANI T
for successfully completing the course



Computer Graphics

with a consolidated score of **69** %

Online Assignments	20.83/25	Proctored Exam	48/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **811**

Jul-Sep 2024

(8 week course)

Prof. T. V. Bharat
Head, Centre for Educational Technology
NPTEL Coordinator, IIT Guwahati



Indian Institute of Technology Guwahati



Roll No: NPTEL24CS82S339900046

To verify the certificate



No. of credits recommended: 2 or 3



NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to

RIZVANA M

for successfully completing the course

Cyber Security and Privacy

with a consolidated score of **53** %

Online Assignments	23.13/25	Proctored Exam	30/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **6461**

Prof. Andrew Thangaraj

Chair

Centre for Outreach and Digital Education, IITM

Jul-Oct 2024

(12 week course)

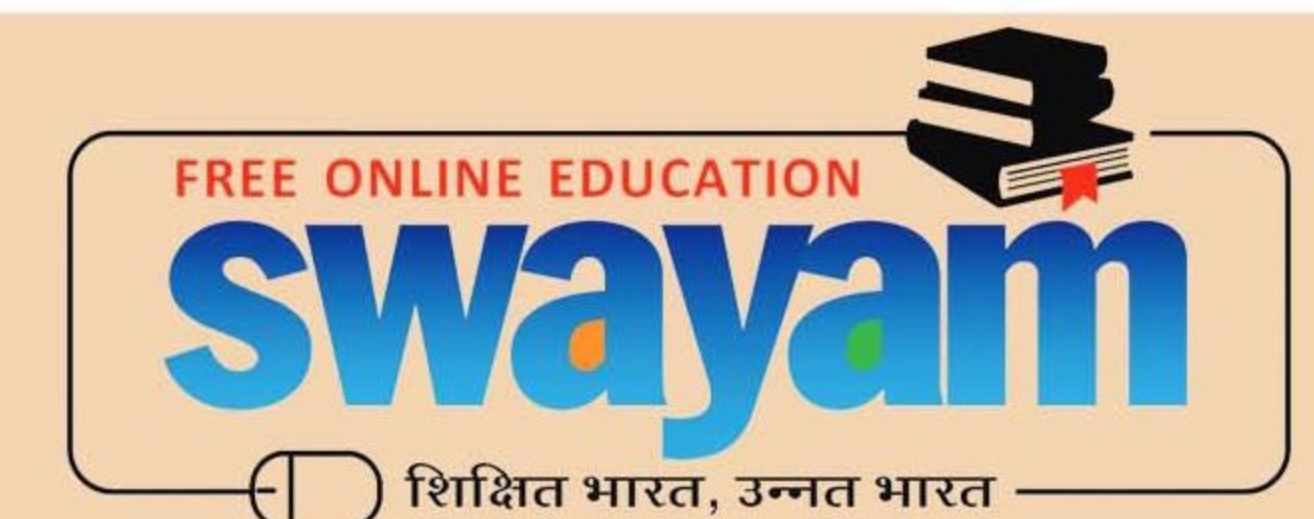
Prof. Vignesh Muthuvijayan

NPTEL Coordinator

IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL24CS121S963900352

To verify the certificate

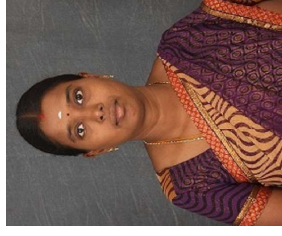


No. of credits recommended: 3 or 4



NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to

SADHANA R

for successfully completing the course

Data Base Management System

with a consolidated score of **56** %

Online Assignments	20.83/25	Proctored Exam	35.25/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **7186**

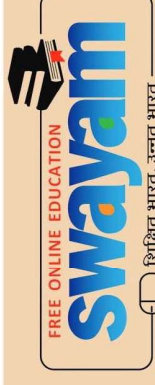
Jul-Sep 2025

(8 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL25CS145S540300066

To verify the certificate

No. of credits recommended: 2 or 3



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



Skill India
कौशल भारत - कुशल भारत

This certificate is awarded to

SADHANA R

for successfully completing the course

Introduction To Internet Of Things

with a consolidated score of **85** %

Online Assignments	25/25	Proctored Exam	60/75
--------------------	-------	----------------	-------

Total number of candidates certified in this course: **38143**

Jan-Apr 2025

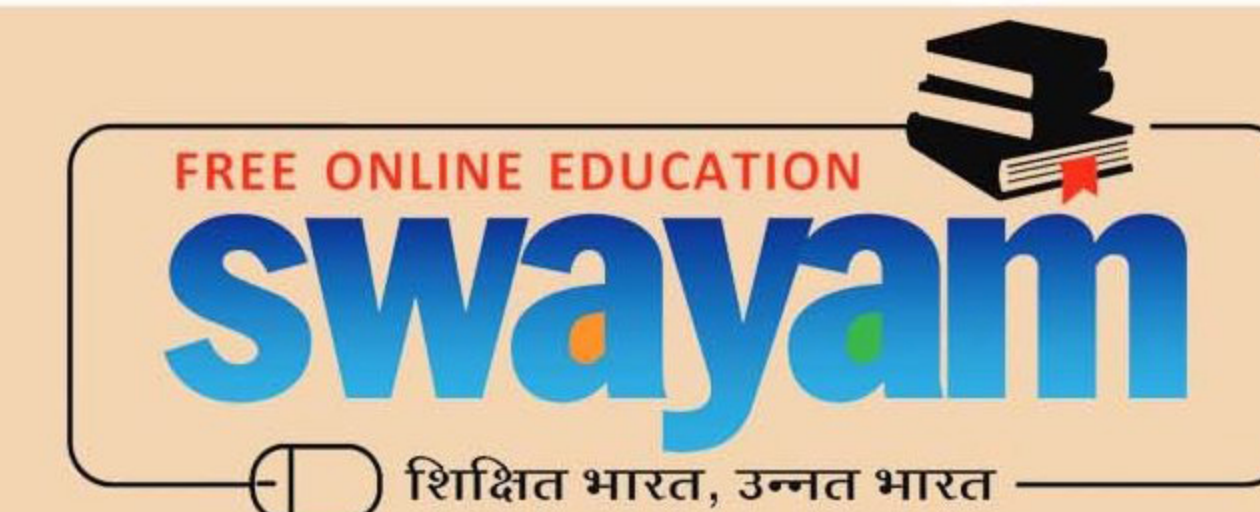
(12 week course)

Prof. Haimanti Banerji

Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL25CS44S450200330

To verify the certificate



No. of credits recommended: 3 or 4



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



Skill India

कौशल भारत - कुशल भारत

This certificate is awarded to

SADHANA R

for successfully completing the course

Introduction to Machine Learning

with a consolidated score of **60** %

Online Assignments	24.88/25	Proctored Exam	35.45/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **6812**

Prof. Haimanti Banerji

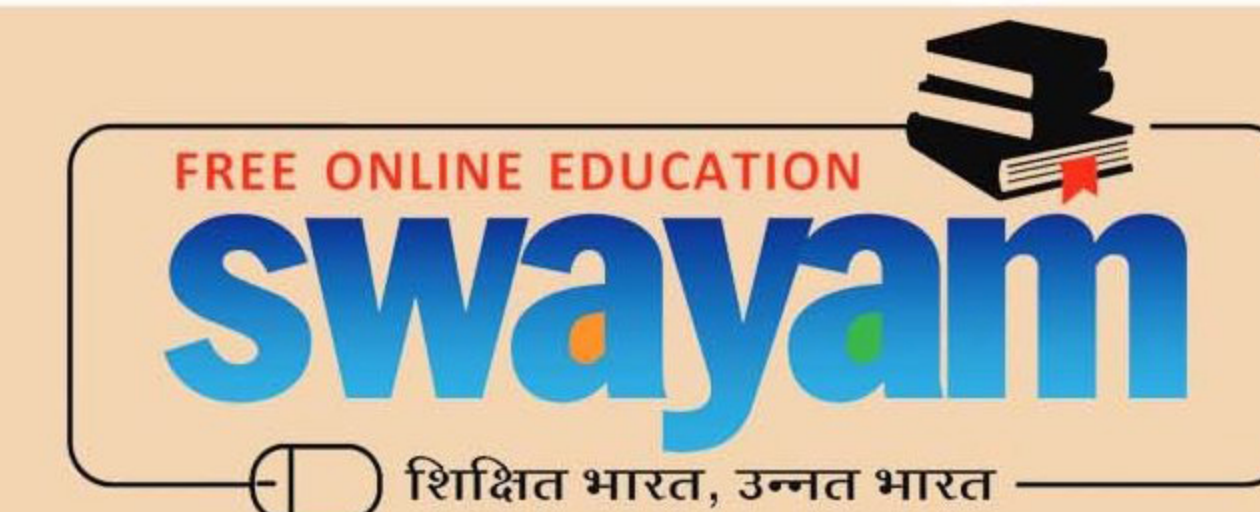
Coordinator, NPTEL
IIT Kharagpur

Jul-Sep 2024

(8 week course)



Indian Institute of Technology Kharagpur



Roll No: NPTEL24CS81S339900045

To verify the certificate



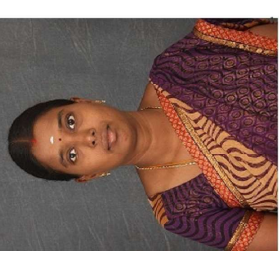
No. of credits recommended: 2 or 3



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to

SADHANA R

for successfully completing the course

Research Methodology

with a consolidated score of **66** %

Online Assignments	24.17/25	Proctored Exam	42.13/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **4905**

Prof. Andrew Thangaraj

Chair

Centre for Outreach and Digital Education, IITM

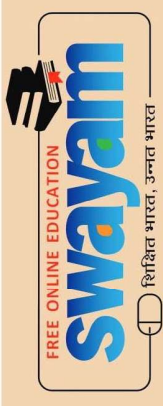
Jul-Sep 2025

(8 week course)

Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL25GE66S340300111

To verify the certificate

No. of credits recommended: 2 or 3



NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to
SADHANA R
for successfully completing the course



Software Engineering

with a consolidated score of **54** %

Online Assignments	22.35/25	Proctored Exam	31.5/75
--------------------	----------	----------------	---------

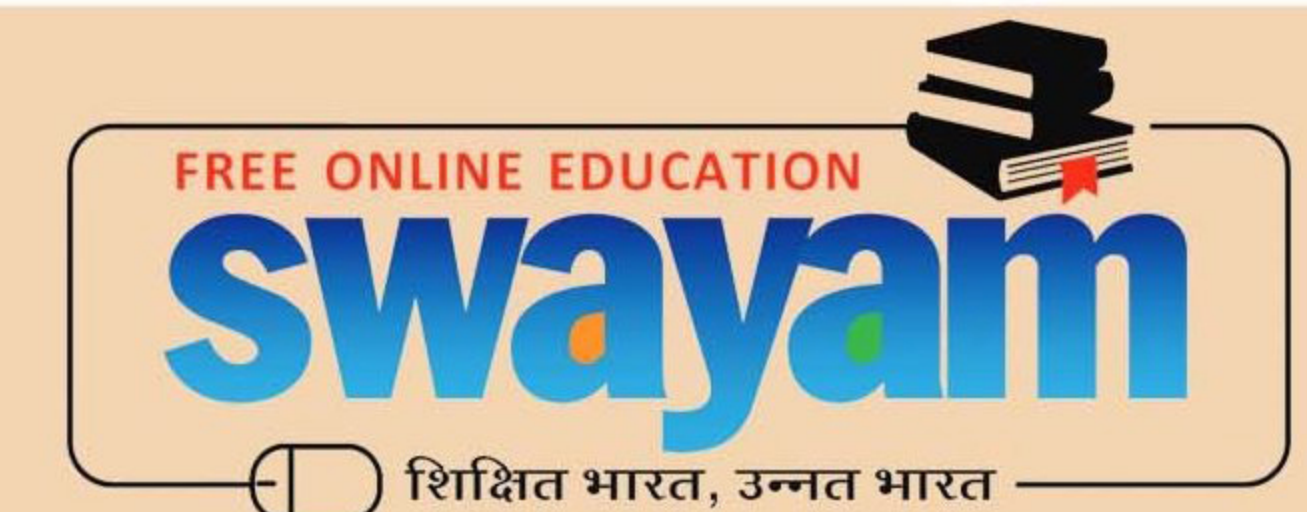
Total number of candidates certified in this course: **5012**

Jul-Oct 2024
(12 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL24CS119S963900378

To verify the certificate



No. of credits recommended: 3 or 4



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



Skill India
कौशल भारत - कुशल भारत

This certificate is awarded to

SARANYA C

for successfully completing the course

Introduction to Database Systems

with a consolidated score of **60** %

Online Assignments	20.1/25	Proctored Exam	40/75
--------------------	---------	----------------	-------

Total number of candidates certified in this course: **2768**

Prof. Andrew Thangaraj

Chair

Centre for Outreach and Digital Education, IITM

Jan-Apr 2025

(12 week course)

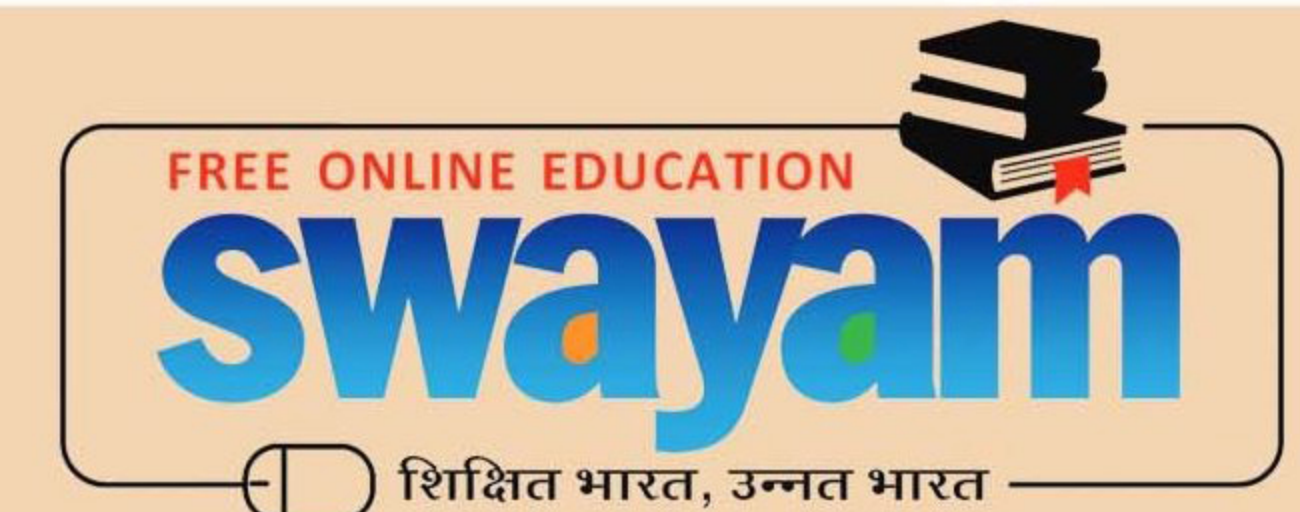
Prof. Vignesh Muthuvijayan

NPTEL Coordinator

IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL25CS40S550200101

To verify the certificate



No. of credits recommended: 3 or 4



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



Skill India
कौशल भारत - कुशल भारत

This certificate is awarded to

SARANYA C

for successfully completing the course

Programming in Modern C++

with a consolidated score of **70** %

Online Assignments	22.03/25	Proctored Exam	47.81/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **749**

Jan-Apr 2025

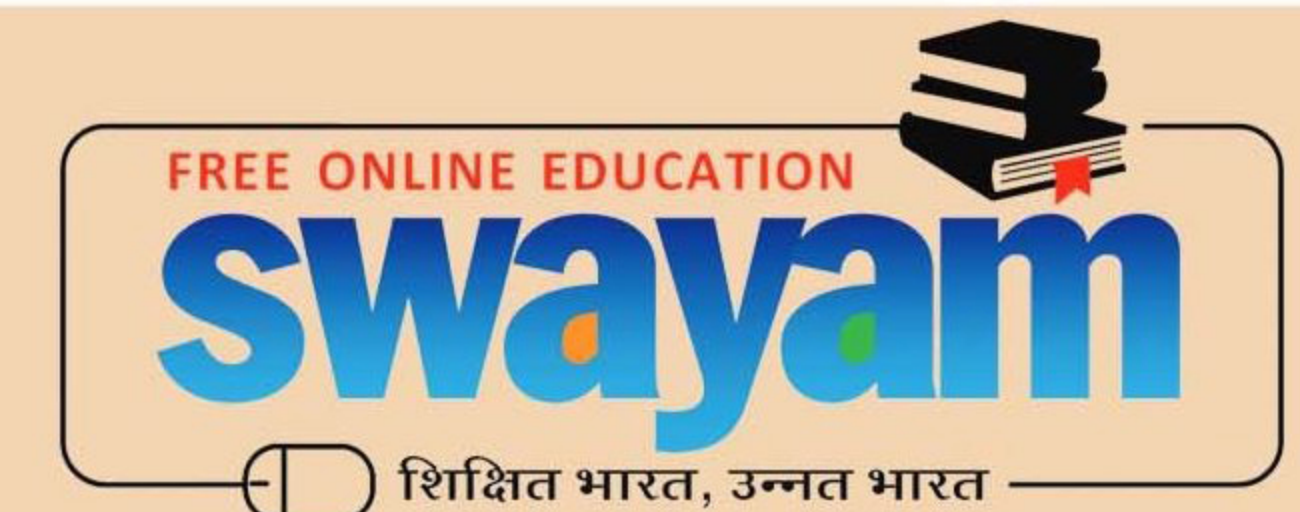
(12 week course)

Prof. Haimanti Banerji

Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL25CS58S350200018

To verify the certificate



No. of credits recommended: 3 or 4



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to

SARANYA C

for successfully completing the course



Programming, Data Structures And Algorithms Using Python

with a consolidated score of **66** %

Online Assignments	22.92/25	Proctored Exam	43.13/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **1792**

Prof. Andrew Thangaraj

Chair

Centre for Outreach and Digital Education, IITM

Jan-Mar 2025

(8 week course)

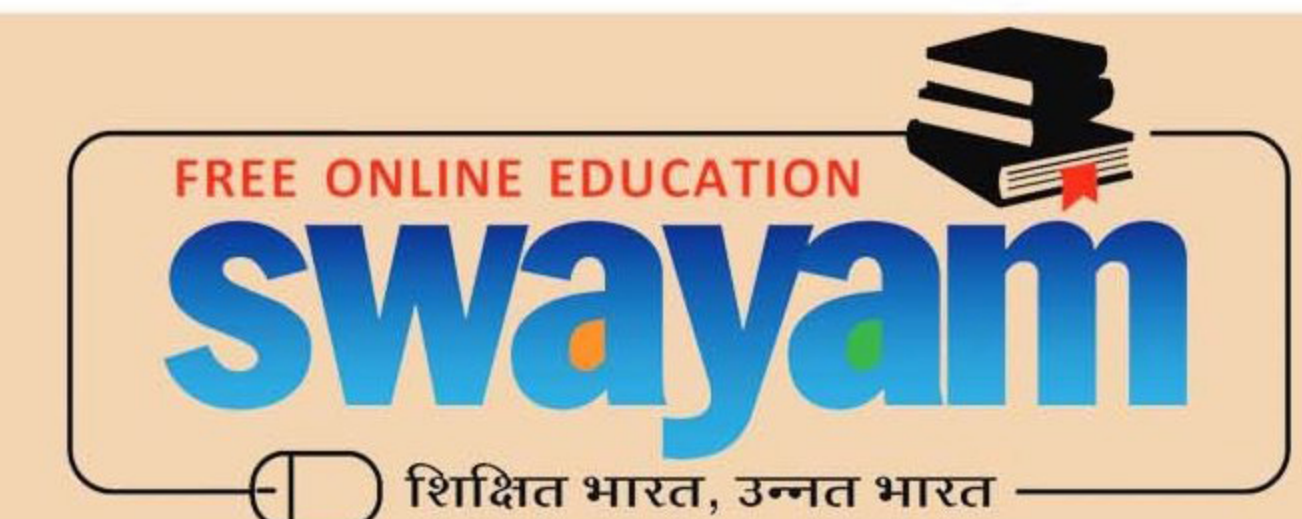
Prof. Vignesh Muthuvijayan

NPTEL Coordinator

IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL25CS59S444400188

To verify the certificate



No. of credits recommended: 2 or 3



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to

SARANYA C

for successfully completing the course

Cloud Computing

with a consolidated score of **84** %



Online Assignments	24.35/25	Proctored Exam	59.38/75
--------------------	----------	----------------	----------

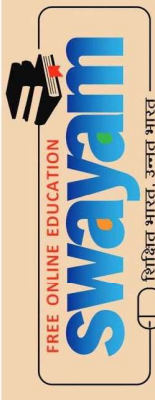
Total number of candidates certified in this course: **30816**

Haimanti Banerji

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL24CS118S963900091

To verify the certificate

No. of credits recommended: 3 or 4



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to

SARANYA C

for successfully completing the course



Introduction to Machine Learning

with a consolidated score of **76** %

Online Assignments	24.58/25	Proctored Exam	51.53/75
--------------------	----------	----------------	----------

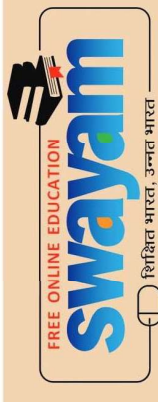
Total number of candidates certified in this course: **6812**

Jul-Sep 2024
(8 week course)


Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL24CS81S439900054



To verify the certificate

No. of credits recommended: 2 or 3



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to

SARANYA C

for successfully completing the course

Programming in Java

with a consolidated score of **71** %

Online Assignments	24.94/25	Proctored Exam	46.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **15570**

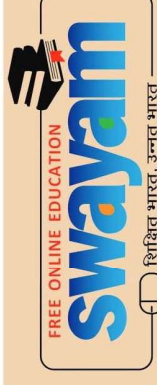
Jul-Oct 2024

(12 week course)

Prof. Haimanti Banerji
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL24CS105S663900187

To verify the certificate

No. of credits recommended: 3 or 4



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to

SHYJI EALIAS

for successfully completing the course

Human Computer Interaction (In English)

with a consolidated score of **93** %

Online Assignments	25/25	Proctored Exam	67.5/75
--------------------	-------	----------------	---------

Total number of candidates certified in this course: **3921**

Dr. Anand Srivastava

Coordinator

Continued Education Program, IIITD

Jan-Apr 2025

(12 week course)

Prof. Andrew Thangaraj

NPTEL, Coordinator

IIT Madras



INDRAPRASTHA INSTITUTE of
INFORMATION TECHNOLOGY DELHI



Roll No: NPTEL25CS38S542206093

To verify the certificate



No. of credits recommended: 3 or 4



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to

SUMATHI P

for successfully completing the course



United Nations Sustainable Development Goals (UN SDGs)

with a consolidated score of **72** %

Online Assignments	24.38/25	Proctored Exam	48/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **2670**

Prof. B Umashankar

Chairperson, Centre for Continued Education (CCE)
IIT Hyderabad

Jan-Apr 2025

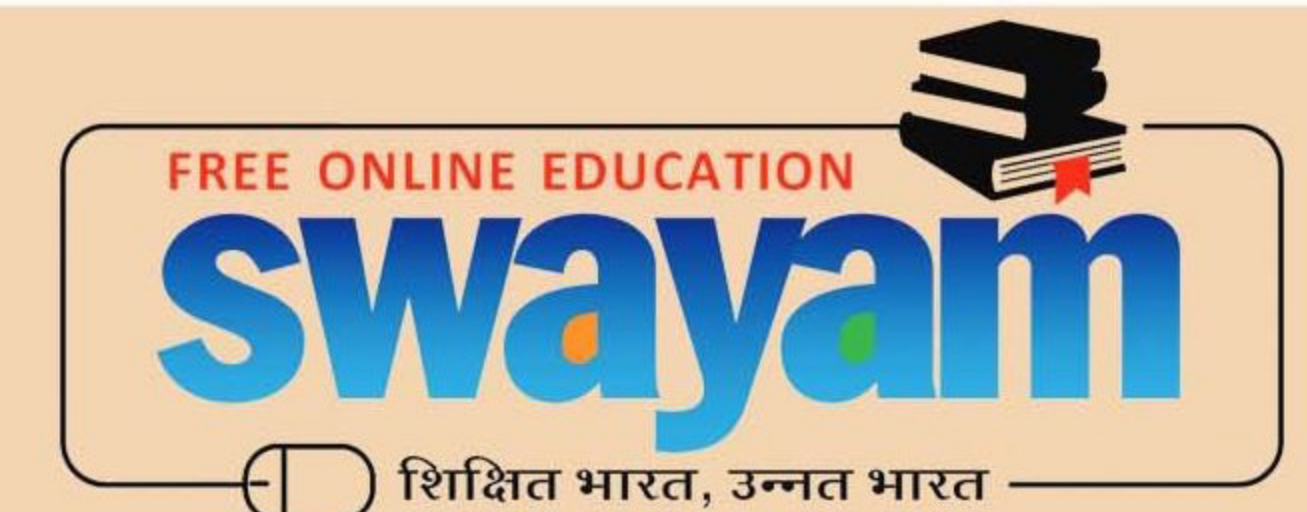
(12 week course)

Prof. Andrew Thangaraj

NPTEL, Coordinator
IIT Madras



Indian Institute of Technology Hyderabad



Roll No: NPTEL25HS81S950200045

To verify the certificate



No. of credits recommended: 3 or 4



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to

SUMATHI P

for successfully completing the course

Cyber Security and Privacy

with a consolidated score of **63** %

Online Assignments	24.38/25	Proctored Exam	38.27/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **6461**

Prof. Andrew Thangaraj

Chair

Centre for Outreach and Digital Education, IITM

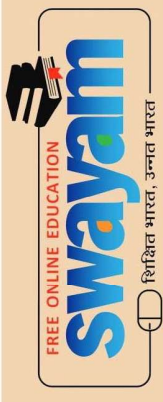
Jul-Oct 2024

(12 week course)

Prof. Vignesh Muthuvijayan
NPTEL Coordinator
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL24CS121S963900364

To verify the certificate

No. of credits recommended: 3 or 4



NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to

SUMATHI P

for successfully completing the course

Introduction to Operating Systems

with a consolidated score of **53** %

Online Assignments	21.88/25	Proctored Exam	31.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **2658**

Prof. Andrew Thangaraj

Chair

Centre for Outreach and Digital Education, IITM

Jul-Sep 2024

(8 week course)

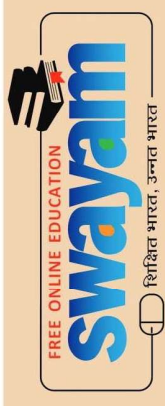
Prof. Vignesh Muthuvijayan

NPTEL Coordinator

IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL24CS80S439900086

To verify the certificate

No. of credits recommended: 2 or 3



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



Skill India
कौशल भारत - कुशल भारत

This certificate is awarded to

C VALARMATHI

for successfully completing the course

Data Science for Engineers



with a consolidated score of **62** %

Online Assignments	23.13/25	Proctored Exam	38.64/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **5002**

Prof. Andrew Thangaraj

Chair

Centre for Outreach and Digital Education, IITM

Jul-Sep 2025

(8 week course)

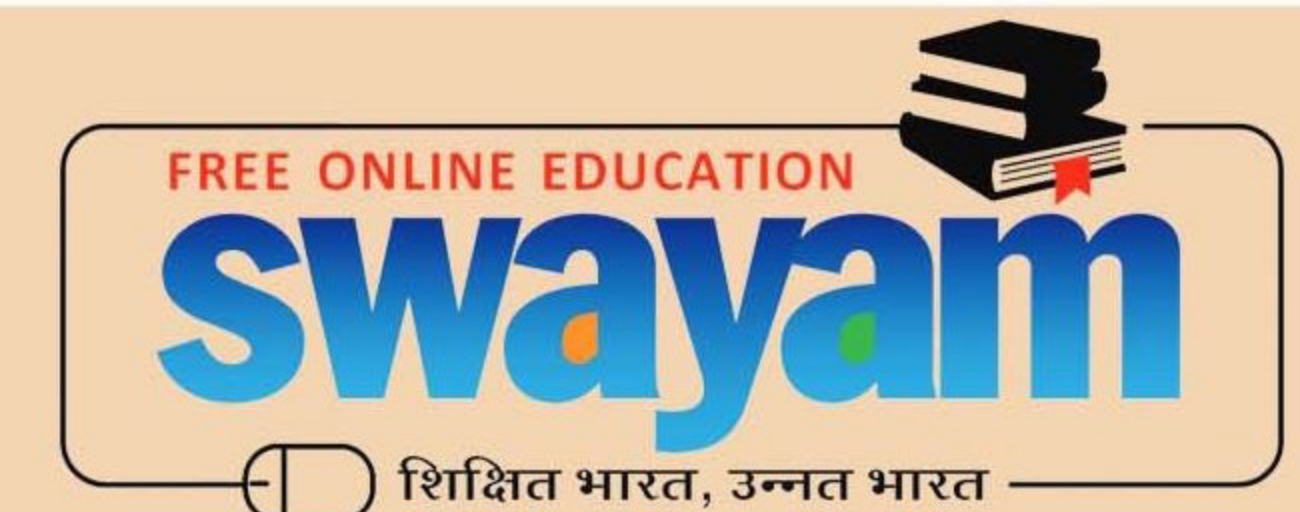
Prof. Vignesh Muthuvijayan

NPTEL Coordinator

IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL25CS101S540300081

To verify the certificate



No. of credits recommended: 2 or 3



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to

C VALARMATHI

for successfully completing the course

Introduction To Internet Of Things

with a consolidated score of **85** %

Online Assignments	23.72/25	Proctored Exam	61.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **38143**

Jan-Apr 2025

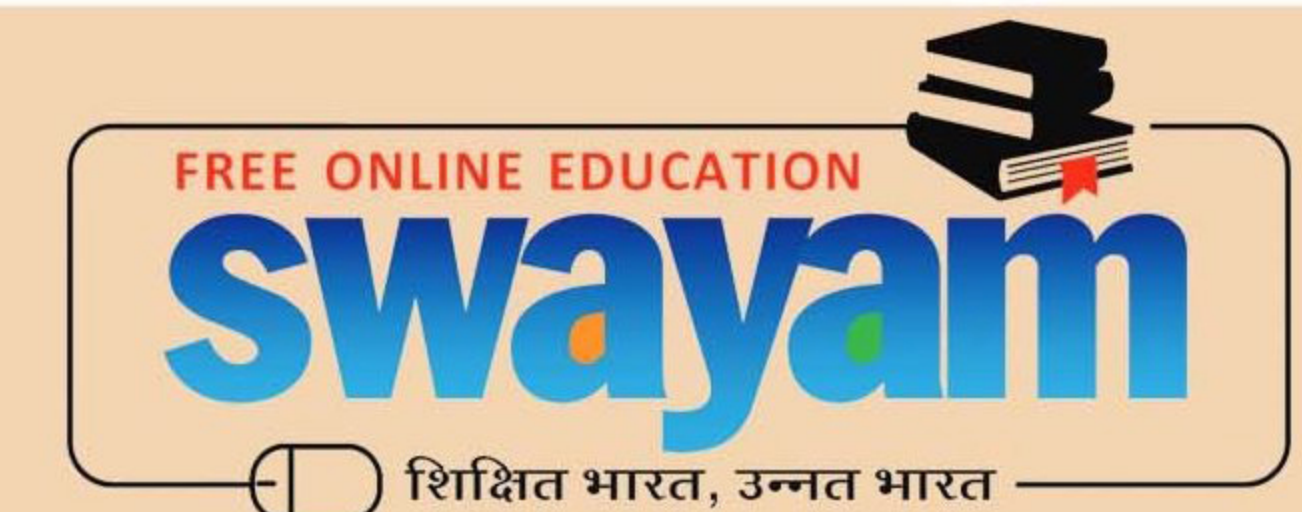
(12 week course)

Prof. Haimanti Banerji

Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL25CS44S450200342

To verify the certificate



No. of credits recommended: 3 or 4



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to
C VALARMATHI
for successfully completing the course



Python for Data Science

with a consolidated score of **72** %

Online Assignments	22.5/25	Proctored Exam	49.99/75
--------------------	---------	----------------	----------

Total number of candidates certified in this course: **16331**

Prof. Andrew Thangaraj

Chair

Centre for Outreach and Digital Education, IITM

Jul-Aug 2025

(4 week course)

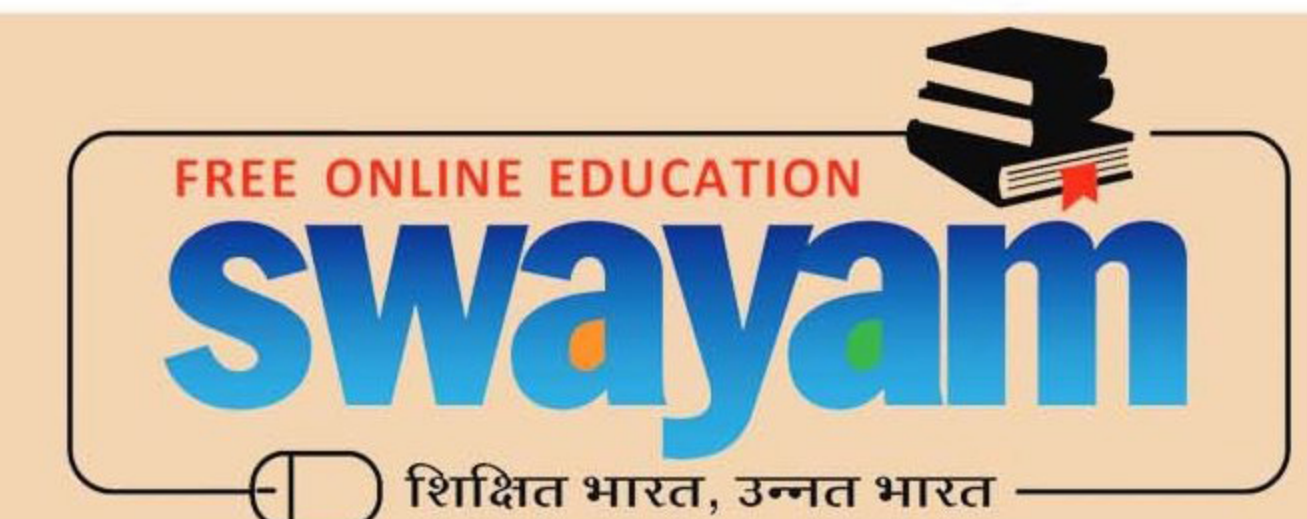
Prof. Vignesh Muthuvijayan

NPTEL Coordinator

IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL25CS104S340300127

To verify the certificate



No. of credits recommended: 1 or 2



Elite

NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)



This certificate is awarded to

YAMUNA V

for successfully completing the course

Human Computer Interaction (In English)

with a consolidated score of **84** %

Online Assignments	25/25	Proctored Exam	58.75/75
--------------------	-------	----------------	----------

Total number of candidates certified in this course: **3921**

Dr. Anand Srivastava

Coordinator

Continued Education Program, IIITD

Jan-Apr 2025

(12 week course)

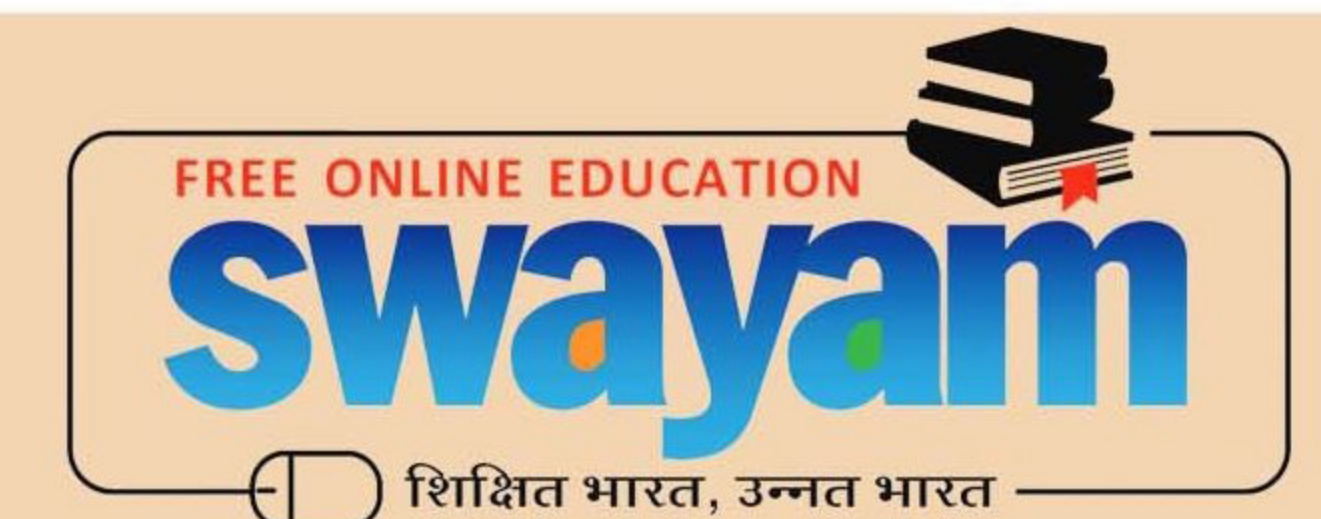
Prof. Andrew Thangaraj

NPTEL, Coordinator

IIT Madras



INDRAPRASTHA INSTITUTE of
INFORMATION TECHNOLOGY **DELHI**



Roll No: NPTEL25CS38S650200343

To verify the certificate



No. of credits recommended: 3 or 4