

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/>

Roll No: NPTEL20HS48S51830031

To  
ATHIRA V SAJI  
VELLANKAL(H),KANJIKUZHYP.O,AMBALAKKAVALA,IDUKKI  
685606  
VELLANKAL(H),KANJIKUZHYP.O,  
AMBALAKKAVALA,IDUKKI 685606  
IDUKKI  
KERALA - 685606  
PH. NO :7994103509



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.



# NPTEL Online Certification

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



This certificate is awarded to

**ATHIRA V SAJI**

for successfully completing the course

## Human Resource Development

with a consolidated score of **53** %

Online Assignments	23.09/25	Proctored Exam	30/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **816**

**Prof. G P Raja Sekhar**  
Dean, Continuing Education  
IIT Kharagpur

Sep-Dec 2020  
(12 week course)

**Prof. Debjani Chakraborty**  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



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/>

Roll No: NPTEL20HS48S51830035

To  
CYRIL SEBASTIAN  
VADAKARA PUTHENPARAMBIL KIDANGARA P.O  
KERALA - 686102  
PH. NO :8848838069



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

# NPTEL Online Certification

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



This certificate is awarded to

**CYRIL SEBASTIAN**

for successfully completing the course

## Human Resource Development

with a consolidated score of **60** %

Online Assignments	23.09/25	Proctored Exam	37/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **816**

**Prof. G P Raja Sekhar**  
Dean, Continuing Education  
IIT Kharagpur

Sep-Dec 2020  
(12 week course)

**Prof. Debjani Chakraborty**  
Coordinator, NPTEL  
IIT Kharagpur

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/>

Roll No: NPTEL20HS48S51830045

To  
EMIL MATHEW  
THAKADIYEL  
(H), PANDAKASHALAKADAV, CHANGANACHERRY  
KOTTAYAM  
CHANGANACHERRY  
KERALA - 686101  
PH. NO : 8281825507



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.



# NPTEL Online Certification

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



This certificate is awarded to  
**EMIL MATHEW**  
for successfully completing the course

## Human Resource Development

with a consolidated score of **55** %

Online Assignments	22.91/25	Proctored Exam	32.25/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **816**

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Sep-Dec 2020  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



2/9/2021

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/>

Roll No: NPTEL20PH24S51830230

To  
ANNUVA ELIZABETH MATHEW  
AYKKARAYIL (H)  
KOZHUVANAL P.O.  
KOZHUVANAL  
KERALA - 686573  
PH. NO :7902581773

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.



# NPTEL Online Certification

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



This certificate is awarded to  
**ANNUVA ELIZABETH MATHEW**  
for successfully completing the course

## Semiconductor Optoelectronics

with a consolidated score of **48** %

Online Assignments	16.88/25	Proctored Exam	30.75/75
--------------------	----------	----------------	----------

*Devendra Jalihal*

Prof. Devendra Jalihal  
Chairman  
Centre for Continuing Education, IITM

Total number of candidates certified in this course: 223

Sep-Dec 2020  
(12 week course)

*Prof. Andrew Thangaraj*

Prof. Andrew Thangaraj  
NPTEL Coordinator  
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL20PH24S51830230

To validate and check scores: <https://nptel.ac.in/noc>

2/9/2021

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/>

Roll No: NPTEL20EE42S21830077

To  
ANNUVA ELIZABETH MATHEW  
AYKKARAYIL (H)  
KOZHUVANAL P.O.  
KOZHUVANAL  
KERALA - 686573  
PH. NO :7902581773

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



# NPTEL Online Certification

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



This certificate is awarded to  
**ANNUVA ELIZABETH MATHEW**  
for successfully completing the course

## Microprocessors and Microcontrollers

with a consolidated score of **65** %

Online Assignments	23.44/25	Proctored Exam	42/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: 224

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Jan-Apr 2020  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL20EE42S21830077

To validate and check scores: <https://nptel.ac.in/noc>

20-21 (57)

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/>

Roll No: NPTEL20EE42S21830161  
To  
LINJU SKARIA  
THACHARACHIRAYIL (H)  
KUMARAKOM P.O  
KOTTAYAM  
KERALA - 686563  
PH. NO : 7593923336

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



of credits recommended by NPTEL:3  
Additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



# NPTEL Online Certification

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



This certificate is awarded to  
**LINJU SKARIA**  
for successfully completing the course

## Microprocessors and Microcontrollers

with a consolidated score of **54** %

Online Assignments	23.63/25	Proctored Exam	30/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: 224

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Jan-Apr 2020  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur

Indian Institute of Technology Kharagpur



NPTEL20EE42S21830161

To validate and check scores: <https://nptel.ac.in/noc>

Scanned by TopScanner



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/>

Roll No: NPTEL20CS58S61820241  
To  
NEETHU M R  
MANJU BHAVAN MELILA P.O MELILA  
KERALA - 691508  
PH. NO :9567443234



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

of credits recommended by NPTEL:3  
Additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.

**Elite**



# NPTEL Online Certification

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



This certificate is awarded to

**NEETHU M R**

for successfully completing the course

**Programming in Java**

with a consolidated score of **72** %

Online Assignments	23.63/25	Programming Exam	25/25	Proctored Exam	23.17/50
--------------------	----------	------------------	-------	----------------	----------

Total number of candidates certified in this course: 3157

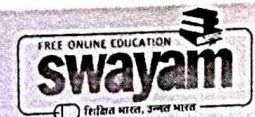
Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Sep-Dec 2020  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur





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/>

Roll No: NPTEL20PH24551830095

To  
ALBY ELIZBETH KURIAN  
CHUMAYANKARA (H), MEENADOM P O,  
KOTTAYAM, KERALA 686516  
CHUMAYANKARA (H), MEENADOM P O,  
KOTTAYAM, KERALA 686516  
KOTTAYAM  
KERALA - 686516  
PH. NO :9072351760



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.



# NPTEL Online Certification

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



This certificate is awarded to  
**ALBY ELIZBETH KURIAN**  
for successfully completing the course

## Semiconductor Optoelectronics

with a consolidated score of **48** %

Online Assignments	17.81/25	Proctored Exam	30/75
--------------------	----------	----------------	-------

*Devendra Jalihal*

Prof. Devendra Jalihal  
Chairman  
Centre for Continuing Education, IITM

Total number of candidates certified in this course: 223

Sep-Dec 2020  
(12 week course)

*Andrew Thangaraj*

Prof. Andrew Thangaraj  
NPTEL Coordinator  
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL20PH24551830095

To validate and check scores: <https://nptel.ac.in/noc>

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/>

Roll No: NPTEL20EE42511830027

To  
ALBY ELIZBETH KURIAN  
CHUMAYANKARA (H), MEENADOM P O,  
KOTTAYAM, KERALA 686516  
CHUMAYANKARA (H), MEENADOM P O,  
KOTTAYAM, KERALA 686516  
KOTTAYAM  
KERALA - 686516  
PH. NO :9072351760



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.



# NPTEL Online Certification

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



This certificate is awarded to  
**ALBY ELIZBETH KURIAN**  
for successfully completing the course

## Microprocessors and Microcontrollers

with a consolidated score of **53** %

Online Assignments	23.09/25	Proctored Exam	30/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: 224

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Jan-Apr 2020  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL20EE42511830027

To validate and check scores: <https://nptel.ac.in/noc>

**W** UNIVERSITY of WASHINGTON

05/06/2020

**SHERIN CHANDY**

has successfully completed

**Machine Learning Foundations: A Case Study Approach**

a MOOC from the University of Washington and offered through Coursera

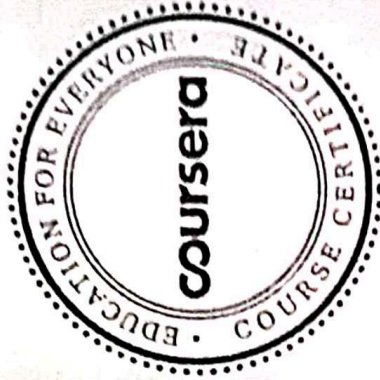


Carlos Guestrin  
Amazon Professor of Machine Learning  
Computer Science and Engineering



Emily Fox  
Amazon Professor of Machine Learning  
Statistics

**COURSE  
CERTIFICATE**



Verify at [coursera.org/verify/5XUQ3AA5RTYN](https://coursera.org/verify/5XUQ3AA5RTYN)  
Coursera has confirmed the identity of this individual and  
their participation in the course.

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/>

Roll No: NPTEL20CS58561830266

To  
ARUN N R  
KOCHU MADOM  
THRICKKOYIKKAL, YERROOR P.O  
ANCHAL, KOLLAM  
KERALA - 691312  
PH. NO :8590320309

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**



# NPTEL Online Certification

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

This certificate is awarded to

**ARUN N R**

for successfully completing the course

**Programming in Java**

with a consolidated score of **92** %



Online Assignments	24.91/25	Programming Exam	25/25	Proctored Exam	41.92/50
--------------------	----------	------------------	-------	----------------	----------

Total number of candidates certified in this course: 3157

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Sep-Dec 2020  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL20CS58561830266

To validate and check scores: <https://nptel.ac.in/noc>

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/>

Roll No: NPTEL20PH24551830144

To  
ANJANA BABU  
KUNNINU  
VALLICHIRA  
KERALA - 686574  
PH. NO : 7356321455



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.



# NPTEL Online Certification

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



This certificate is awarded to

**ANJANA BABU**

for successfully completing the course

## Semiconductor Optoelectronics

with a consolidated score of **53** %

Online Assignments	18.13/25	Proctored Exam	34.5/75
--------------------	----------	----------------	---------

*Devendra Jalihal*

Prof. Devendra Jalihal  
Chairman  
Centre for Continuing Education, IITM

Total number of candidates certified in this course: 223

Sep-Dec 2020  
(12 week course)

*Andrew Thangaraj*

Prof. Andrew Thangaraj  
NPTEL Coordinator  
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL20PH24551830144

To validate and check scores: <https://nptel.ac.in/noc>

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/>

Roll No: NPTEL20CS58S61820261

To  
REEBA BIJU  
PONMALARI HOUSE  
PALICKAL P O  
KOTTARAKKARA  
KERALA - 691566  
PH. NO :9645868034

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**

# NPTEL Online Certification

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



This certificate is awarded to

**REEBA BIJU**

for successfully completing the course

**Programming in Java**

with a consolidated score of **67** %

Online Assignments	19.88/25	Programming Exam	25/25	Proctored Exam	21.92/50
--------------------	----------	------------------	-------	----------------	----------

Total number of candidates certified in this course: **3157**

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Sep-Dec 2020  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL20CS58S61820261

To validate and check scores: <https://nptel.ac.in/noc>

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

2/2

Roll No: NPTEL20EE42S21830167  
TO  
RESHMA ROY  
KALAPPURAKKAL(H), KANAM(PO)  
KERALA - 686515  
PH. NO: 8330841642

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.



# NPTEL Online Certification

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



This certificate is awarded to  
**RESHMA ROY**  
for successfully completing the course

## Microprocessors and Microcontrollers

with a consolidated score of **54** %

Online Assignments	22.81/25	Proctored Exam	31.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: 224

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Jan-Apr 2020  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



No: NPTEL20EE42S21830167

To validate and check scores: <https://nptel.ac.in/noc/>

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/>

2020-21  
(Sec)

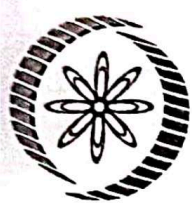
Roll No: NPTEL20PH21S31830238  
To  
HARIPRIYA P  
PUTHUVEETIL HOUSE, PARIYARAM  
P.O, PUTHUPALLY, KOTTAYAM  
PUTHUVEETIL HOUSE, PARIYARAM  
P.O, PUTHUPALLY, KOTTAYAM  
KOTTAYAM  
KERALA - 686021  
PH. NO : 9961514501

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



No. of credits recommended by NPTEL:2  
An additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.

**Elite**



# NPTEL Online Certification

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



This certificate is awarded to  
**HARIPRIYA P**

for successfully completing the course

## Solar Photovoltaics Fundamentals, Technology and Applications

with a consolidated score of **77** %

Online Assignments	22.92/25	Proctored Exam	54/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: 161

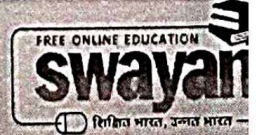


Prof. V. C. Srivastava  
Coordinator, Continuing Education Centre  
IIT Roorkee

Sep-Nov 2020  
(8 week course)

Prof. Inderdeep Singh  
NPTEL Coordinator  
IIT Roorkee

Indian Institute of Technology Roorkee





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/>

Roll No: NPTEL20PH21S31830228

To  
AKSHAY SIVAN  
AKSHAY SIVAN,THANDEL(H), KODIKKULAM  
(PO),THODUPUZHA, IDUKKI, PIN-685582  
KERALA - 685582  
PH. NO :9188495918



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

Number of credits recommended by NPTEL:2

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

**Elite**



# NPTEL Online Certification

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



This certificate is awarded to

**AKSHAY SIVAN**

for successfully completing the course

**Solar Photovoltaics Fundamentals, Technology  
and Applications**

with a consolidated score of **72** %

Online Assignments	22.92/25	Proctored Exam	49.5/75
--------------------	----------	----------------	---------

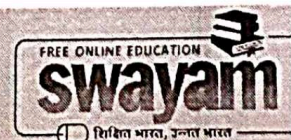
Total number of candidates certified in this course: 161

Prof. V. C. Srivastava  
Coordinator, Continuing Education Centre  
IIT Roorkee

Sep-Nov 2020  
(8 week course)

Prof. Inderdeep Singh  
NPTEL Coordinator  
IIT Roorkee

Indian Institute of Technology Roorkee



NPTEL20PH21S31830228

To validate and check scores: <https://nptel.ac.in/noc/>

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/>

Roll No: NPTEL20PH21S31830232

To  
ATHIRA N M  
NIKARTHIL (H) IRUMPAYAM (P O) VELLOOR  
KOTTAYAM  
NIKARTHI (H) IRUMPAYAM (P O) VELLOOR  
KOTTAYAM  
THALAYOLAPARAMBU  
KERALA - 686605  
PH. NO :7034375269



Score	Type of Certificate
$\geq 90$	Elite+Gold
75-89	Elite+Silver
$\geq 60$	Elite
40-59	Successfully Completed
$< 40$	No Certificate

credits recommended by NPTEL:2  
Final 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



# NPTEL Online Certification

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



This certificate is awarded to

**ATHIRA N M**

for successfully completing the course

**Solar Photovoltaics Fundamentals, Technology  
and Applications**

with a consolidated score of **50** %

Online Assignments	14.17/25	Proctored Exam	36/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: 161

Prof. V. C. Srivastava  
Director, Continuing Education Centre  
IIT Roorkee

Sep-Nov 2020  
(8 week course)

Prof. Inderdeep Singh  
NPTEL Coordinator  
IIT Roorkee

Indian Institute of Technology Roorkee



NPTEL20PH21S31830232

To validate and check scores: <https://nptel.ac.in/noc>

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/>

Roll No: NPTEL20PH21S31830226

To: AJAY PRAKASH  
 KAROTTICAL HOUSE, CHAKKAMPUZHA P. O,  
 EDAPPALLY, KOTTAYAM  
 KAROTTICAL HOUSE, CHAKKAMPUZHA P. O,  
 EDAPPALLY, KOTTAYAM  
 PINA  
 KERALA - 686574  
 PH. NO: 9848268339

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



of credits recommended by NPTEL:2  
 Additional 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



# NPTEL Online Certification

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



This certificate is awarded to  
**AJAY PRAKASH**  
 for successfully completing the course

**Solar Photovoltaics Fundamentals, Technology and Applications**

with a consolidated score of **52** %

Online Assignments	11.67/25	Proctored Exam	40.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: 161

*V. C. Srivastava*

Prof. V. C. Srivastava  
 Coordinator, Continuing Education Centre  
 IIT Roorkee

*Inderdeep Singh*

Prof. Inderdeep Singh  
 NPTEL Coordinator  
 IIT Roorkee

Sep-Nov 2020  
 (8 week course)

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/>

Roll No: NPTEL20PH21S31830234

To  
HARSHA JOSEPH  
KARIANKAL (H), KUTHUMKAL P.O SLEEVAMALA  
KARIANKAL (H), KUTHUMKAL P.O SLEEVAMALA  
RAJAKKAD  
KERALA - 685566  
PH. NO :6282545578



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

credits recommended by NPTEL:2

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



# NPTEL Online Certification

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



This certificate is awarded to

**HARSHA JOSEPH**

for successfully completing the course

**Solar Photovoltaics Fundamentals, Technology  
and Applications**

with a consolidated score of **59** %

Online Assignments	17.08/25	Proctored Exam	42/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: 161

**f. V. C. Srivastava**  
Continuing Education Centre  
IIT Roorkee

Sep-Nov 2020  
(8 week course)

**Prof. Inderdeep Singh**  
NPTEL Coordinator  
IIT Roorkee

Indian Institute of Technology Roorkee

NPTEL20PH21S31830234



To validate and check scores: <https://nptel.ac.in/noc/>

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/>

Roll No: NPTEL20PH21S31830240

To  
RUBY CHACKO  
THEKKILAKKATTU (H), KUTHUMKAL PO  
KUTHUMKAL  
KERALA - 685566  
PH. NO :9074897624



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

credits recommended by NPTEL:2  
Final 1 credit may be awarded if the University deems it fit, based on the actual student effort involved.



# NPTEL Online Certification

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



This certificate is awarded to

**RUBY CHACKO**

for successfully completing the course

**Solar Photovoltaics Fundamentals, Technology  
and Applications**

with a consolidated score of **55** %

Online Assignments	17.08/25	Proctored Exam	37.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: 161

Prof. V. C. Srivastava  
Coordinator, Continuing Education Centre  
IIT Roorkee

Sep-Nov 2020  
(8 week course)

Prof. Inderdeep Singh  
NPTEL Coordinator  
IIT Roorkee

Indian Institute of Technology Roorkee



NPTEL20PH21S31830240

To validate and check scores: <https://nptel.ac.in/noc/>

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/>

Roll No: NPTEL20CS78S61420486

To  
AKSHAYA P  
JOSEVILLA(H)  
MAYITHARA P.O,11TH MILE  
CHERTHALA  
KERALA - 688539  
PH. NO :9074838100



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

# NPTEL Online Certification

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



This certificate is awarded to

**AKSHAYA P**

for successfully completing the course

## Social Networks

with a consolidated score of **87** %

Online Assignments	24.34/25	Proctored Exam	62.5/75
--------------------	----------	----------------	---------

*Devendra Jalihal*

**Prof. Devendra Jalihal**  
Chairman  
Centre for Continuing Education, IITM

Total number of candidates certified in this course: **1975**

Sep-Dec 2020  
(12 week course)

*Prof. Andrew Thangaraj*

**Prof. Andrew Thangaraj**  
NPTEL Coordinator  
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL20CS78S61420486

To validate and check scores: <https://nptel.ac.in/noc/>

Scanned with CamScanner

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/>

Roll No: NPTEL20CS66S71420398

To  
AKSHAYA P  
JOSEVILLA(H)  
MAYITHARA P.O,11TH MILE  
CHERTHALA  
KERALA - 688539  
PH. NO :9074838100



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

# NPTEL Online Certification

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

This certificate is awarded to

**AKSHAYA P**

for successfully completing the course



## Introduction to Internet of Things

with a consolidated score of **78** %

Online Assignments	22.13/25	Proctored Exam	55.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **4785**

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Sep-Dec 2020  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL20CS66S71420398

To validate and check scores: <https://nptel.ac.in/noc>

Scanned with CamScanner

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/>

Roll No: NPTEL20CS66S71830364

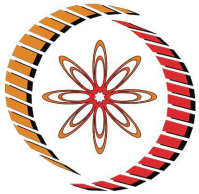
To  
ANITT SUNNY  
PUTHENVEETIL (H) AMPARANIRAPPEL P.O  
BHARANANGANAM  
KERALA - 686578  
PH. NO :9400560914



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

# NPTEL Online Certification

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



This certificate is awarded to  
**ANITT SUNNY**  
for successfully completing the course

## Introduction to Internet of Things

with a consolidated score of **61** %

Online Assignments	21.91/25	Proctored Exam	39/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **4785**

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Sep-Dec 2020  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur





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/>

Roll No: NPTEL21CS31S1230103

To  
ANITT SUNNY  
PUTHENVEETIL (H) PALA P.O PALA  
PUTHENVEETIL (H) PALA P.O PALA  
PALA  
KERALA - 686575  
PH. NO :9400560914



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.



# NPTEL Online Certification

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



Covid-19  
impacted  
January 2021  
semester

This certificate is awarded to

**ANITT SUNNY**

for passing the course

**Social Networks**

with Score\* **96** %

*Devendra Jalihal*

**Prof. Devendra Jalihal**  
Chairman  
Centre for Continuing Education, IITM

Jan-Apr 2021  
(12 week course)

*Prof. Andrew Thangaraj*

**Prof. Andrew Thangaraj**  
NPTEL, Coordinator  
IIT Madras

THIS MODIFIED CERTIFICATE IS APPLICABLE ONLY TO STUDENTS GRADUATING IN 2021



Indian Institute of Technology Madras



\*Continuous online assessment score

To validate and check scores: <https://nptel.ac.in/noc>

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/>

Roll No: NPTEL20CS66S81830246

To  
ASWATHY M N  
MALIYIL HOUSE  
CHITTADY PO  
CHITTADY  
KERALA - 686512  
PH. NO :8943802546



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

# NPTEL Online Certification

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



This certificate is awarded to  
**ASWATHY M N**  
for successfully completing the course

## Introduction to Internet of Things

with a consolidated score of **68** %

Online Assignments	22.72/25	Proctored Exam	45/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **4785**

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Sep-Dec 2020  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



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/>

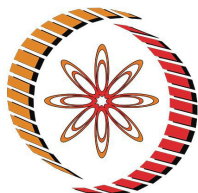
Roll No: NPTEL21CS31S1408277

To  
ASWATHY M N  
MALIYIL HOUSE  
CHITTADY PO CHITTADY  
MUNDAKAYAM  
KERALA - 686512  
PH. NO :8943802546



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.



# NPTEL Online Certification

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



Covid-19  
impacted  
January 2021  
semester

This certificate is awarded to

**ASWATHY M N**

for passing the course

**Social Networks**

with Score\* **96** %

*Devendra Jalihal*

**Prof. Devendra Jalihal**  
Chairman  
Centre for Continuing Education, IITM

Jan-Apr 2021  
(12 week course)

*Prof. Andrew Thangaraj*

**Prof. Andrew Thangaraj**  
NPTEL, Coordinator  
IIT Madras

THIS MODIFIED CERTIFICATE IS APPLICABLE ONLY TO STUDENTS GRADUATING IN 2021



Indian Institute of Technology Madras



\*Continuous online assessment score

To validate and check scores: <https://nptel.ac.in/noc>

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/>

Roll No: NPTEL20CS66S81830399

To  
KAREN SHERRY CHANDY  
KANIAMPARAMPIL HOUSE  
PUTHUPALLY PO KOTTAYAM,686011  
KOTTAYAM  
KERALA - 686011  
PH. NO :9496564131



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.



# NPTEL Online Certification

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



This certificate is awarded to  
**KAREN SHERRY CHANDY**  
for successfully completing the course



## Introduction to Internet of Things

with a consolidated score of **77** %

Online Assignments	22.72/25	Proctored Exam	54/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **4785**

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Sep-Dec 2020  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL20CS66S81830399

To validate and check scores: <https://nptel.ac.in/noc>

Scanned by CamScanner

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/>

Roll No: NPTEL20CS78S61830265

To  
KAREN SHERRY CHANDY  
KANIAMPARAMPIL HOUSE  
PUTHUPALLY PO KOTTAYAM, 686011  
KOTTAYAM  
KERALA - 686011  
PH. NO :9496564131



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



# NPTEL Online Certification

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



This certificate is awarded to  
**KAREN SHERRY CHANDY**  
for successfully completing the course



## Social Networks

with a consolidated score of **83** %

Online Assignments	24.69/25	Proctored Exam	57.81/75
--------------------	----------	----------------	----------

*Devendra Jalihal*

Total number of candidates certified in this course: **1975**

**Prof. Devendra Jalihal**  
Chairman  
Centre for Continuing Education, IITM

Sep-Dec 2020  
(12 week course)

*Prof. Andrew Thangaraj*

**Prof. Andrew Thangaraj**  
NPTEL Coordinator  
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL20CS78S61830265

To validate and check scores: <https://nptel.ac.in/noc/>

Scanned by CamScanner

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/>

Roll No: NPTEL20HS48S51830071

To  
NANDHU S GOPAL  
THAKARAPARAMBIL(H) MANIYAR P.O,  
PADAYANIPARA  
KERALA - 689662  
PH. NO :9061383258



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

# NPTEL Online Certification

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



This certificate is awarded to

**NANDHU S GOPAL**

for successfully completing the course

## Human Resource Development

with a consolidated score of **62** %

Online Assignments	22.91/25	Proctored Exam	39/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **816**

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Sep-Dec 2020  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Elite

# NPTEL Online Certification

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



This certificate is awarded to  
**ANANTHAKRISHNAN H**  
for successfully completing the course

## Soft Skills

with a consolidated score of **60** %

Online Assignments	23.75/25	Proctored Exam	36/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **7293**

**Prof. V. C. Srivastava**  
Coordinator, Continuing Education Centre  
IIT Roorkee

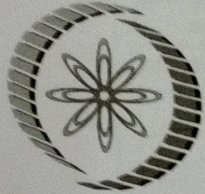
Jul-Oct 2021  
(12 week course)

**Prof. Priti Maheshwari**  
NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee





Elite

# NPTEL Online Certification

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



This certificate is awarded to

**ADITH JOSE**

for successfully completing the course

**Toyota Production System**

with a consolidated score of **60** %

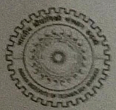
Online Assignments	22.5/25	Proctored Exam	37.69/75
--------------------	---------	----------------	----------

Total number of candidates certified in this course: **268**

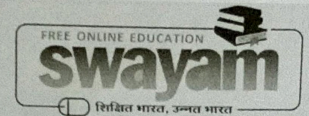
**Prof. V. C. Srivastava**  
Coordinator, Continuing Education Centre  
IIT Roorkee

Aug-Oct 2021  
(8 week course)

**Prof. Priti Maheshwari**  
NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee



Roll No: NPTEL21MG69S13860020

To validate and check scores: <https://nptel.ac.in/noc>





Elite

# NPTEL Online Certification

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



This certificate is awarded to

**AKHILA C V**

for successfully completing the course

**Soft Skills**

with a consolidated score of **62** %

Online Assignments	21.97/25	Proctored Exam	40.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **7293**

**Prof. V. C. Srivastava**  
Coordinator, Continuing Education Centre  
IIT Roorkee

Jul-Oct 2021  
(12 week course)

**Prof. Priti Maheshwari**  
NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee





Elite

# NPTEL Online Certification

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



This certificate is awarded to

**AKHILA J**

for successfully completing the course

**Soft Skills**

with a consolidated score of **61** %

Online Assignments	21.97/25	Proctored Exam	39.38/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **7293**

**Prof. V. C. Srivastava**  
Coordinator, Continuing Education Centre  
IIT Roorkee

Jul-Oct 2021  
(12 week course)

**Prof. Priti Maheshwari**  
NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee





# NPTEL Online Certification

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



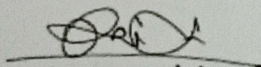
This certificate is awarded to  
**AKHILA JAYAN**  
for successfully completing the course

## Corporate Finance

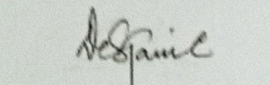
with a consolidated score of **58** %

Online Assignments	20.63/25	Proctored Exam	37.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **677**

  
**Prof. G P Raja Sekhar**  
Dean, Continuing Education  
IIT Kharagpur

Jul-Sep 2021  
(8 week course)

  
**Prof. Debjani Chakraborty**  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL21MG93S13800029

To validate and check scores: <https://nptel.ac.in/noc>



Elite

# NPTEL Online Certification

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



This certificate is awarded to

**AKHIL MATHEWS**

for successfully completing the course

**Organization Development and Change in 21st Century**

with a consolidated score of **60** %

Online Assignments	21.92/25	Proctored Exam	37.99/75
--------------------	----------	----------------	----------

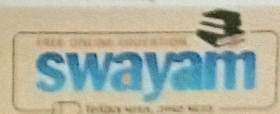
Total number of candidates certified in this course: **174**

Jul-Sep 2021  
(8 week course)

**Prof. Sridhar Iyer**  
Head CDEEP & NPTEL Coordinator  
IIT Bombay



Indian Institute of Technology Bombay



Roll No NPTEL21MG91S13800028

To validate and check scores: <https://nptel.ac.in/noc>

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/>

Roll No: NPTEL20HS48S51830079

To  
SAM V MATHEW  
MATTACKAL HOUSE, NIRANAM P.O, THIRUVALLA  
STATE - 689621  
PH. NO :9526740694



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

# NPTEL Online Certification

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



This certificate is awarded to

**SAM V MATHEW**

for successfully completing the course

## Human Resource Development

with a consolidated score of **61** %

Online Assignments	22.91/25	Proctored Exam	38.25/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **816**

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Sep-Dec 2020  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur

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/>

Roll No: NPTEL20HS48S51830087

To  
SURAJ RAVI  
CHERUVEETIL(H), VELIYANNOOR  
MEENACHIL TALUK, KOTTAYAM  
KOTTAYAM  
KERALA - 686634  
PH. NO :6282476096



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.



# NPTEL Online Certification

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



This certificate is awarded to

**SURAJ RAVI**

for successfully completing the course

## Human Resource Development

with a consolidated score of **55** %

Online Assignments	18.94/25	Proctored Exam	36/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **816**

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Sep-Dec 2020  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur