

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: NPTEL20CS72S41320469

To  
DR M AMANULLAH  
NO. 922/7, SAFOORA BUILDINGS, II FLOOR  
EVR PERIYAR LANE, PURASAWAKKAM  
CHENNAI  
TAMIL NADU - 600084  
PH. NO :9841587445



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:2**

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

**DR M AMANULLAH**

for successfully completing the course

## Data Science for Engineers

with a consolidated score of **54** %

Online Assignments	23.67/25	Proctored Exam	30.36/75
--------------------	----------	----------------	----------

*Devendra Jalihal*

**Prof. Devendra Jalihal**

Chairman

Centre for Continuing Education, IITM

Total number of candidates certified in this course: **2043**

Sep-Nov 2020  
(8 week course)

*Prof. Andrew Thangaraj*

**Prof. Andrew Thangaraj**

NPTEL Coordinator

IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL20CS72S41320469

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: NPTEL20ME69S31320162

To  
DR ANJAN KUMAR SAHU  
AALIM MUHAMMED SALEGH COLLEGE OF  
ENGINEERING  
AVADI I.A.F, MUTHAPUDUPET  
CHENNAI  
TAMILNADU - 600055  
PH. NO :9884142743



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:1

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  
**DR ANJAN KUMAR SAHU**  
for successfully completing the course



## Product Design and Development

with a consolidated score of **92** %

Online Assignments	24.17/25	Proctored Exam	67.5/75
--------------------	----------	----------------	---------

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

Total number of candidates certified in this course: **926**

Sep-Oct 2020  
(4 week course)

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



Indian Institute of Technology Roorkee



Roll No: NPTEL20ME69S31320162

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

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Roll No: NPTEL20ME69S31320266

To  
K BALASUBRAMANIAN  
6/ 4, G 2, KRISHNA HOMES ,7TH CROSS  
STREET ,  
LENIN NAGAR , AMBATTUR.  
CHENNAI  
TAMIL NADU - 600053  
PH. NO :9841226815



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:1

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  
**K BALASUBRAMANIAN**  
for successfully completing the course



## Product Design and Development

with a consolidated score of **90** %

Online Assignments	24.17/25	Proctored Exam	65.51/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **926**

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

Sep-Oct 2020  
(4 week course)

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



Indian Institute of Technology Roorkee



Roll No: NPTEL20ME69S31320266

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: NPTEL20MM10S31320243

To  
S SATHISH  
PLOT NO CS2, FLAT NO F2  
SHREE HOMES, MANNESWARAR NAGAR  
EXTENSION, MANNIVAKKAM  
CHENNAI  
TAMILNADU - 600048  
PH. NO :9894260193



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: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

**S SATHISH**

for successfully completing the course



## Surface Engineering of Nanomaterials

with a consolidated score of **79** %

Online Assignments	24.58/25	Proctored Exam	54.75/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 22

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

Jan-Mar 2020  
(8 week course)

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



Indian Institute of Technology Roorkee



Roll No: NPTEL20MM10S31320243

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: NPTEL20HS54S41320233

To  
S SATHISH  
PLOT NO CS2, FLAT NO F2  
SHREE HOMES, MANNESWARAR NAGAR  
EXTENSION, MANNIVAKKAM  
CHENNAI  
TAMILNADU - 600048  
PH. NO :9894260193



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

No. of credits recommended by NPTEL:1

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

**S SATHISH**

for successfully completing the course

## Patent Drafting for Beginners

with a consolidated score of **69** %

Online Assignments	24.17/25	Proctored Exam	45.32/75
--------------------	----------	----------------	----------

*Devendra Jalihal*

**Prof. Devendra Jalihal**

Chairman  
Centre for Continuing Education, IITM

Total number of candidates certified in this course: **234**

Sep-Oct 2020  
(4 week course)

*Prof. Andrew Thangaraj*

**Prof. Andrew Thangaraj**

NPTEL Coordinator  
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL20HS54S41320233

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: NPTEL20MM12S51320001

To  
S SATHISH  
PLOT NO CS2, FLAT NO F2  
SHREE HOMES, MANNESWARAR NAGAR  
EXTENSION, MANNIVAKKAM  
CHENNAI  
TAMILNADU - 600048  
PH. NO :9894260193



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: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

**S SATHISH**

for successfully completing the course

## Friction and Wear of Materials : Principle and Case Studies

with a consolidated score of **77** %

Online Assignments	22.5/25	Proctored Exam	54.75/75
--------------------	---------	----------------	----------

Total number of candidates certified in this course: 7

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

Jan-Mar 2020  
(8 week course)

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



Indian Institute of Technology Roorkee



Roll No: NPTEL20MM12S51320001

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: NPTEL20ME67S71320377

To  
AYAZ AHMED  
NO 2 PERAMBUR HIGH ROAD  
FIRST STREET, JAMALIA  
CHENNAI  
TAMIL NADU - 600012  
PH. NO :9841113283



Score	Type of Certificate
$\geq 90$	Elite+Gold
75-89	Elite+Silver
$\geq 60$	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

**AYAZ AHMED**

for successfully completing the course



## Fundamentals of Manufacturing Processes

with a consolidated score of **75** %

Online Assignments	22.19/25	Proctored Exam	52.5/75
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Prof. V. C. Srivastava

Coordinator, Continuing Education Centre  
IIT Roorkee

Total number of candidates certified in this course: **649**

Sep-Dec 2020  
(12 week course)

Prof. Inderdeep Singh

NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee



Roll No: NPTEL20ME67S71320377

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: NPTEL20ME42S21320107

To  
K BALASUBRAMANIAN  
6/ 4, G 2, KRISHNA HOMES ,7TH CROSS  
STREET ,  
LENIN NAGAR , AMBATTUR.  
CHENNAI  
TAMIL NADU - 600053  
PH. NO :9841226815



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

**K BALASUBRAMANIAN**

for successfully completing the course

### IC Engines and Gas Turbines

with a consolidated score of **58** %

Online Assignments	21.56/25	Proctored Exam	36/75
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Total number of candidates certified in this course: **218**

Jan-Apr 2020  
(12 week course)

**Prof. Hemant B Kaushik**  
Head, Centre for Educational Technology  
& NPTEL Coordinator  
IIT Guwahati



Indian Institute of Technology Guwahati



Roll No: NPTEL20ME42S21320107

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

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Roll No: NPTEL20CS72S41320069

To  
GANESH P  
NO. 182 BAZAAR VETHI  
PALAVAKKAM VILLAGE, UTHUKOTTAI TALUK,  
THIRUVALLUR  
TAMIL NADU - 602028  
PH. NO :9003130721



Score	Type of Certificate
$\geq 90$	Elite+Gold
75-89	Elite+Silver
$\geq 60$	Elite
40-59	Successfully Completed
$< 40$	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.



# NPTEL Online Certification

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



This certificate is awarded to

**GANESH P**

for successfully completing the course

## Data Science for Engineers

with a consolidated score of **54** %

Online Assignments	23.75/25	Proctored Exam	30/75
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*Devendra Jalihal*

**Prof. Devendra Jalihal**

Chairman

Centre for Continuing Education, IITM

Total number of candidates certified in this course: **2043**

Sep-Nov 2020  
(8 week course)

*Prof. Andrew Thangaraj*

**Prof. Andrew Thangaraj**

NPTEL Coordinator

IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL20CS72S41320069

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: NPTEL20ME69S31320363

To

T N JAFAR ALI  
NO.1, DOOR NO: 2/5, SUDHA APARTMENTS,  
GOPAL NAYAKAR STREET, KAMARAJAR MAIN  
ROAD, PADI  
AALIM MUHAMMED SALEGH COLLEGE OF  
ENGINEERING, MUTHAPUDUPET, AVADI IAF,  
AVADI, CHENNAI-55  
CHENNAI  
TAMIL NADU - 600050  
PH. NO :7418572453



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:1

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

**T N JAFAR ALI**

for successfully completing the course



## Product Design and Development

with a consolidated score of **84** %

Online Assignments	24.17/25	Proctored Exam	60/75
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**Prof. V. C. Srivastava**

Coordinator, Continuing Education Centre  
IIT Roorkee

Total number of candidates certified in this course: **926**

Sep-Oct 2020  
(4 week course)

**Prof. Inderdeep Singh**

NPTEL Coordinator  
IIT Roorkee



Indian Institute of Technology Roorkee



Roll No: NPTEL20ME69S31320363

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: NPTEL20CS66S71320673

To  
A MOHAMED MYDEEN  
15/4A MOSQUE STREET, AVADI IAF  
MUTHAPUDUPET  
CHENNAI  
TAMIL NADU - 600055  
PH. NO :9884101997



Score	Type of Certificate
$\geq 90$	Elite+Gold
75-89	Elite+Silver
$\geq 60$	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  
**A MOHAMED MYDEEN**  
for successfully completing the course

## Introduction to Internet of Things

with a consolidated score of **43** %

Online Assignments	10.19/25	Proctored Exam	33/75
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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: NPTEL20CS66S71320673

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: NPTEL20ME67S81320503

To  
B MOHAMED YAHYA  
NO 1 HAJI IBRAHIM KUTTY STREET,  
GRIBLES, ARAKKONAM  
RANIPET DIST.  
TAMIL NADU - 631002  
PH. NO :9444440240



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  
**B MOHAMED YAHYA**  
for successfully completing the course

## Fundamentals of Manufacturing Processes

with a consolidated score of **75** %

Online Assignments	21.88/25	Proctored Exam	53.5/75
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**Prof. V. C. Srivastava**  
Coordinator, Continuing Education Centre  
IIT Roorkee

Total number of candidates certified in this course: **649**

Sep-Dec 2020  
(12 week course)

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



Indian Institute of Technology Roorkee



Roll No: NPTEL20ME67S81320503

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: NPTEL20EE97S71320651

To  
RAJAN M S  
PLOT NO 30 DOOR NO 16 AMRUTHA NAGAR  
THIRUNINRAVUR  
CHENNAI  
TAMIL NADU - 602024  
PH. NO :9840665659



Score	Type of Certificate
$\geq 90$	Elite+Gold
75-89	Elite+Silver
$\geq 60$	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

**RAJAN M S**

for successfully completing the course

## Power Electronics

with a consolidated score of **54** %

Online Assignments	24.06/25	Proctored Exam	30/75
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*Devendra Jalihal*

**Prof. Devendra Jalihal**

Chairman

Centre for Continuing Education, IITM

Total number of candidates certified in this course: **125**

Sep-Dec 2020

(12 week course)

*Prof. Andrew Thangaraj*

**Prof. Andrew Thangaraj**

NPTEL Coordinator

IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL20EE97S71320651

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: NPTEL20EE60S71320593

To  
RAMEEZ RAJA K  
11/308 11TH BLOCK, MOGAPPAIR  
EAST, CHENNAI-37  
TAMIL NADU - 600037  
PH. NO : 7358283576



Score	Type of Certificate
$\geq 90$	Elite+Gold
75-89	Elite+Silver
$\geq 60$	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

**RAMEEZ RAJA K**

for successfully completing the course

## Electrical Machines - I

with a consolidated score of **62** %

Online Assignments	20.66/25	Proctored Exam	41.59/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **317**

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: NPTEL20EE60S71320593

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: NPTEL20ME69S31320115

To  
SHEIK MOHAMED M  
2/1906, MUSLIM STREET  
SOLAMPATTU (POST), SANKARAPURAM  
KALLAKURICHI  
TAMILNADU - 606208  
PH. NO :9600362345



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:1

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  
**SHEIK MOHAMED M**  
for successfully completing the course



## Product Design and Development

with a consolidated score of **83** %

Online Assignments	24.17/25	Proctored Exam	58.5/75
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**Prof. V. C. Srivastava**  
Coordinator, Continuing Education Centre  
IIT Roorkee

Total number of candidates certified in this course: **926**

Sep-Oct 2020  
(4 week course)

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



Indian Institute of Technology Roorkee



Roll No: NPTEL20ME69S31320115

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: NPTEL20CY19S52010048

To  
ANGELIN PUSHPA B  
20/8, PAMPAN KULAM (NORTH TO PUP SCHOOL)  
PANAGUDI, RADHAPURAM TALUK  
TIRUNELVELI DIST  
TAMILNADU - 627109  
PH. NO :9486164199



Score	Type of Certificate
$\geq 90$	Elite+Gold
75-89	Elite+Silver
$\geq 60$	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

**ANGELIN PUSHPA B**

for successfully completing the course

**Co-Ordination Chemistry  
(Chemistry of Transition Elements)**

with a consolidated score of **43** %

Online Assignments	13.06/25	Proctored Exam	30/75
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Total number of candidates certified in this course: **212**

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: NPTEL20CY19S52010048

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: NPTEL20CY17S31320020

To  
JUVIN PAULA A  
3/100 A, SOUTH STREET  
ALAMBAKKAM, LALGUDI (TK)  
TRICHY  
TAMIL NADU - 621711  
PH. NO :8508571523



Score	Type of Certificate
$\geq 90$	Elite+Gold
75-89	Elite+Silver
$\geq 60$	Elite
40-59	Successfully Completed
$< 40$	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

**JUVIN PAULA A**

for successfully completing the course

## Laser: Fundamentals and Applications

with a consolidated score of **87** %

Online Assignments	23.75/25	Proctored Exam	63/75
--------------------	----------	----------------	-------

Prof. Rajesh M. Hegde  
Chairman, Centre for Continuing Education  
IIT Kanpur

Total number of candidates certified in this course: 134

Sep-Nov 2020  
(8 week course)

Prof. Satyaki Roy  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL20CY17S31320020

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