

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: NPTEL20HS10S11730031

To  
ANKIT KUMAR DAS  
340,RAILWAY QTR.DANGAPARA  
NEAR-KHUDIRAM BOSE INSTITUTE  
KANCHRAPARA  
NORTH 24 PARGANAS  
WEST BENGAL - 743145  
PH. NO :9674091379



| 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  
**ANKIT KUMAR DAS**  
for successfully completing the course

## Enhancing Soft Skills and Personality

with a consolidated score of **47** %

|                    |          |                |       |
|--------------------|----------|----------------|-------|
| Online Assignments | 14.42/25 | Proctored Exam | 33/75 |
|--------------------|----------|----------------|-------|

Total number of candidates certified in this course: **3466**

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

**Feb-Apr 2020**  
(8 week course)

**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



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Roll No: NPTEL20HS10S11730031

To  
ANKIT KUMAR DAS  
340,RAILWAY QTR.DANGAPARA  
NEAR-KHUDIRAM BOSE INSTITUTE  
KANCHRAPARA  
NORTH 24 PARGANAS  
WEST BENGAL - 743145  
PH. NO :9674091379



| 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  
**ANKIT KUMAR DAS**  
for successfully completing the course

## Enhancing Soft Skills and Personality

with a consolidated score of **47** %

|                    |          |                |       |
|--------------------|----------|----------------|-------|
| Online Assignments | 14.42/25 | Proctored Exam | 33/75 |
|--------------------|----------|----------------|-------|

Total number of candidates certified in this course: **3466**

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

Feb-Apr 2020  
(8 week course)

**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



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: NPTEL20HS16S11170010

To  
PROSHANTA MANDAL  
HIRANANDAPUR, MANIKCHAK, MALDA  
UTTAR NANDITOLA,  
MALDA  
WEST BENGAL - 732203  
PH. NO :8637882877



| 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  
**PROSHANTA MANDAL**  
for successfully completing the course

## Soft Skill Development

with a consolidated score of **51** %

|                    |          |                |       |
|--------------------|----------|----------------|-------|
| Online Assignments | 20.54/25 | Proctored Exam | 30/75 |
|--------------------|----------|----------------|-------|

Total number of candidates certified in this course: **477**

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

Jan-Mar 2020  
(8 week course)

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



Indian Institute of Technology Kharagpur



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Roll No: NPTEL19EE38S61650408

To

MITRANI GHOSH  
12, PORT BLAIR LINE,  
SANTIBAZAR, CHIRIAMORE, BARRACKPORE  
BARRACKPORE  
NORTH 24 PARGANAS  
WEST BENGAL  
700120  
PH. NO : 8420834258



| 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  
**MITRANI GHOSH**  
for successfully completing the course  
**Analog Electronic Circuit**

with a consolidated score of **51** %

|                    |          |                |       |
|--------------------|----------|----------------|-------|
| Online Assignments | 20.78/25 | Proctored Exam | 30/75 |
|--------------------|----------|----------------|-------|

*Devendra Jalihal*

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

Total number of candidates certified in this course: **63**

Jul-Oct 2019  
(12 week course)

*Prof. Andrew Thangaraj*

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



Indian Institute of Technology Madras



Roll No: NPTEL19EE38S61650408

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: NPTEL19EE36S51650357

To  
MITRANI GHOSH  
12, PORT BLAIR LINE,  
SANTIBAZAR, CHIRIAMORE, BARRACKPORE  
BARRACKPORE  
NORTH 24 PARGANAS  
WEST BENGAL  
700120  
PH. NO : 8420834258



| 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  
**MITRANI GHOSH**  
for successfully completing the course  
**Basic Electric Circuits**

with a consolidated score of **55** %

|                    |          |                |          |
|--------------------|----------|----------------|----------|
| Online Assignments | 24.06/25 | Proctored Exam | 30.75/75 |
|--------------------|----------|----------------|----------|

Total number of candidates certified in this course: 1155

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

Jul-Oct 2019  
(12 week course)

**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



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: NPTEL19PH08S11560211

To  
MITRANI GHOSH  
12, PORT BLAIR LINE,  
SANTIBAZAR, CHIRIAMORE, BARRACKPORE  
BARRACKPORE  
NORTH 24 PARGANAS  
WEST BENGAL  
700120  
PH. NO : 8420834258



| 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

**MITRANI GHOSH**

for successfully completing the course

## Introduction to Electromagnetic Theory

with a consolidated score of **61** %

|                    |          |                |          |
|--------------------|----------|----------------|----------|
| Online Assignments | 19.08/25 | Proctored Exam | 41.49/75 |
|--------------------|----------|----------------|----------|

Total number of candidates certified in this course: 83

**Prof. Rajesh M. Hegde**

Chairman, Centre for Continuing Education  
IIT Kanpur

Jul-Sep 2019  
(8 week course)

**Prof. Satyaki Roy**

NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



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: NPTEL20HS10S11730031  
To  
ANKIT KUMAR DAS  
340, RAILWAY QTR. DANGAPARA  
NEAR-KHUDIRAM BOSE INSTITUTE  
KANCHRAPARA  
NORTH 24 PARGANAS  
WEST BENGAL - 743145  
PH. NO :9674091379



| 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  
**ANKIT KUMAR DAS**  
for successfully completing the course

## Enhancing Soft Skills and Personality

with a consolidated score of **47** %

|                    |          |                |       |
|--------------------|----------|----------------|-------|
| Online Assignments | 14.42/25 | Proctored Exam | 33/75 |
|--------------------|----------|----------------|-------|

Total number of candidates certified in this course: 3466

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

Feb-Apr 2020  
(8 week course)

Prof. Satyaki Roy  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



No: NPTEL20HS10S11730031

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

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Roll No: NPTEL20HS10S21810213

To  
ANKIT SHAW  
10/2/1 NASKAR PARA ROAD

GHUSURI  
HOWRAH  
WEST BENGAL - 711107  
PH. NO :9330509853



| 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

**ANKIT SHAW**

for successfully completing the course



## Enhancing Soft Skills and Personality

with a consolidated score of **82** %

|                    |          |                |       |
|--------------------|----------|----------------|-------|
| Online Assignments | 24.83/25 | Proctored Exam | 57/75 |
|--------------------|----------|----------------|-------|

Total number of candidates certified in this course: 3466

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

Feb-Apr 2020  
(8 week course)

Prof. Satyaki Roy  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur





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: NPTEL19CS39S61650368

To

AVIK ROY  
GUSKARA ,MADHYAPARA ROAD ,WARD NO 11,C/O  
ASHIS KUMAR ROY  
GUSKARA  
BARDHAMAN  
WEST BENGAL  
713128  
PH. NO :9064029719



| 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

**AVIK ROY**

for successfully completing the course

## An Introduction to Programming Through C++

with a consolidated score of **50** %

|                    |       |                  |       |                |          |
|--------------------|-------|------------------|-------|----------------|----------|
| Online Assignments | 11/25 | Programming Exam | 15/25 | Proctored Exam | 23.84/50 |
|--------------------|-------|------------------|-------|----------------|----------|

Total number of candidates certified in this course: **516**

Jul-Oct 2019  
(12 week course)

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



Indian Institute of Technology Bombay



Roll No: NPTEL19CS39S61650368

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: NPTEL19CS41S61653355

To  
SAMPRI TI CHAKRABORTY  
5A PHANI BHUSAN GHOSHAL ROAD  
ARIADAHA  
NORTH 24 PARGANAS  
WEST BENGAL  
700057  
PH. NO :8777642538



| 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

**SAMPRI TI CHAKRABORTY**  
for successfully completing the course



## The Joy of Computing Using Python

with a consolidated score of **83** %

|                    |       |                  |       |                |       |
|--------------------|-------|------------------|-------|----------------|-------|
| Online Assignments | 25/25 | Programming Exam | 25/25 | Proctored Exam | 33/50 |
|--------------------|-------|------------------|-------|----------------|-------|

Total number of candidates certified in this course: **8505**

*Devendra Jalihal*

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

Jul-Oct 2019  
(12 week course)

*Prof. Andrew Thangaraj*

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



Indian Institute of Technology Madras



Roll No: NPTEL19CS41S61653355

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: NPTEL19CS41S61653409

To  
ABHISHEK MAITY  
FLAT NO-304  
EXOTIC MANSION  
3/174 SETH BAGAN ROAD  
DUMDUM  
KOLKATA  
WEST BENGAL  
700030  
PH. NO :9681126530



| 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

**ABHISHEK MAITY**  
for successfully completing the course

## The Joy of Computing Using Python

with a consolidated score of **73** %

|                    |       |                  |       |                |       |
|--------------------|-------|------------------|-------|----------------|-------|
| Online Assignments | 25/25 | Programming Exam | 25/25 | Proctored Exam | 23/50 |
|--------------------|-------|------------------|-------|----------------|-------|

Total number of candidates certified in this course: **8505**

*Devendra Jalihal*

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

Jul-Oct 2019  
(12 week course)

*Prof. Andrew Thangaraj*

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



Indian Institute of Technology Madras



Roll No: NPTEL19CS41S61653409

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

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Roll No: NPTEL19CS41S61652879

To  
NIRMALYA GANGULY  
275 PURBA SINTHEE ROAD , SPANDAN  
APARTMENT, DUM DUM  
KOLKATA  
NORTH 24 PARGANAS  
WEST BENGAL  
700030  
PH. NO :8777240648



| 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

**NIRMALYA GANGULY**  
for successfully completing the course



## The Joy of Computing Using Python

with a consolidated score of **91** %

|                    |       |                  |       |                |       |
|--------------------|-------|------------------|-------|----------------|-------|
| Online Assignments | 25/25 | Programming Exam | 25/25 | Proctored Exam | 41/50 |
|--------------------|-------|------------------|-------|----------------|-------|

Total number of candidates certified in this course: **8505**

*Devendra Jalihal*

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

Jul-Oct 2019  
(12 week course)

*Prof. Andrew Thangaraj*

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



Indian Institute of Technology Madras



Roll No: NPTEL19CS41S61652879

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: NPTEL19CS42S21560999

To  
DEBJIT PAL  
10/A CHATRA BARUI PARA LANE  
SERAMPPORE, HOOGHLY - PIN: 712204, P.O  
SERAMPPORE  
SERAMPPORE  
HOOGHLY  
WEST BENGAL  
712204  
PH. NO :7998216606



| 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

**DEBJIT PAL**

for successfully completing the course

## Introduction to Programming in C

with a consolidated score of **69** %

|                    |          |                  |          |                |       |
|--------------------|----------|------------------|----------|----------------|-------|
| Online Assignments | 16.75/25 | Programming Exam | 18.75/25 | Proctored Exam | 33/50 |
|--------------------|----------|------------------|----------|----------------|-------|

Total number of candidates certified in this course: 2500

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

Jul-Sep 2019  
(8 week course)

**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



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: NPTEL19CS50S11561442

To  
BHAGYASRI MAZUMDER  
HATIARA,  
JHILBAGAN  
KOLKATA  
WEST BENGAL  
700157  
PH. NO :9073171334



| 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  
**BHAGYASRI MAZUMDER**  
for successfully completing the course

## Introduction to Operating Systems

with a consolidated score of **50** %

|                    |          |                |       |
|--------------------|----------|----------------|-------|
| Online Assignments | 19.67/25 | Proctored Exam | 30/75 |
|--------------------|----------|----------------|-------|

*Devendra Jalihal*

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

Total number of candidates certified in this course: **506**

Jul-Sep 2019  
(8 week course)

*Prof. Andrew Thangaraj*

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



Indian Institute of Technology Madras



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: NPTEL19CS50S11561448

To  
GOURAB MALAKAR  
PATNA ROAD  
NIMTA  
NORTH 24 PARGANAS  
WEST BENGAL  
700049  
PH. NO :7596822186



| 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

**GOURAB MALAKAR**

for successfully completing the course

## Introduction to Operating Systems

with a consolidated score of **57** %

|                    |          |                |          |
|--------------------|----------|----------------|----------|
| Online Assignments | 20.04/25 | Proctored Exam | 36.74/75 |
|--------------------|----------|----------------|----------|

*Devendra Jalihal*

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

Total number of candidates certified in this course: **506**

**Jul-Sep 2019**  
**(8 week course)**

*Prof. Andrew Thangaraj*

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



Indian Institute of Technology Madras



Roll No: NPTEL19CS50S11561448

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: NPTEL19CS50S11561452

To  
SAGARIKA DAS  
E-27,SCHOOL ROAD  
SODEPUR  
NORTH 24 PARGANAS  
WEST BENGAL  
700110  
PH. NO :6291415124



| 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

**SAGARIKA DAS**

for successfully completing the course

## Introduction to Operating Systems

with a consolidated score of **48** %

|                    |          |                |       |
|--------------------|----------|----------------|-------|
| Online Assignments | 18.42/25 | Proctored Exam | 30/75 |
|--------------------|----------|----------------|-------|

*Devendra Jalihal*

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

Total number of candidates certified in this course: **506**

**Jul-Sep 2019**  
**(8 week course)**

*Prof. Andrew Thangaraj*

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



Indian Institute of Technology Madras



Roll No: NPTEL19CS50S11561452

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: NPTEL19CS59S41570075

To  
MD MINSARUL SK  
ZINNATHS HOUSE  
KARKATA NATUN PARA  
MURSHIDABAD  
WEST BENGAL  
742134  
PH. NO :9093060891



| 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

**MD MINSARUL SK**  
for successfully completing the course

## Python for Data Science

with a consolidated score of **71** %

|                    |         |                  |       |                |          |
|--------------------|---------|------------------|-------|----------------|----------|
| Online Assignments | 22.5/25 | Programming Exam | 15/25 | Proctored Exam | 33.17/50 |
|--------------------|---------|------------------|-------|----------------|----------|

Total number of candidates certified in this course: **4426**

*Devendra Jalihal*

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

**Aug-Sep 2019**  
(4 week course)

*Prof. Andrew Thangaraj*

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



Indian Institute of Technology Madras



Roll No: NPTEL19CS59S41570075

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: NPTEL19CS65S51450313

To  
INDRAJIT DAWN  
52/1/B, P. K. GANGULY ROAD  
BALLY  
HOWRAH  
WEST BENGAL  
711201  
PH. NO :9674407405



| 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

**INDRAJIT DAWN**

for successfully completing the course

## Introduction to Internet of Things

with a consolidated score of **60** %

|                    |          |                |       |
|--------------------|----------|----------------|-------|
| Online Assignments | 23.72/25 | Proctored Exam | 36/75 |
|--------------------|----------|----------------|-------|

Total number of candidates certified in this course: **7675**

*A. Goswami*

**Prof. Adrijit Goswami**

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Jul-Oct 2019  
(12 week course)



Indian Institute of Technology Kharagpur



Roll No: NPTEL19CS65S51450313

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: NPTEL19EE36S61653765

To  
SHIVAM BASAK  
5/96 NEHRU COLONY, DAKSHINDARI ROAD  
KOLKATA  
NORTH 24 PARGANAS  
WEST BENGAL  
700048  
PH. NO :7044023024



| 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  
**SHIVAM BASAK**  
for successfully completing the course  
**Basic Electric Circuits**

with a consolidated score of **54** %

|                    |          |                |          |
|--------------------|----------|----------------|----------|
| Online Assignments | 22.34/25 | Proctored Exam | 31.38/75 |
|--------------------|----------|----------------|----------|

Total number of candidates certified in this course: 1155

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

Jul-Oct 2019  
(12 week course)

**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



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: NPTEL19EE36S51650357

To  
MITRANI GHOSH  
12, PORT BLAIR LINE,  
SANTIBAZAR, CHIRIAMORE, BARRACKPORE  
BARRACKPORE  
NORTH 24 PARGANAS  
WEST BENGAL  
700120  
PH. NO : 8420834258



| 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  
**MITRANI GHOSH**  
for successfully completing the course  
**Basic Electric Circuits**

with a consolidated score of **55** %

|                    |          |                |          |
|--------------------|----------|----------------|----------|
| Online Assignments | 24.06/25 | Proctored Exam | 30.75/75 |
|--------------------|----------|----------------|----------|

Total number of candidates certified in this course: 1155

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

Jul-Oct 2019  
(12 week course)

**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL19EE36S51650357

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: NPTEL19EE36S61650639

To  
MD MOAZZAM ANWAR  
7 NANDO GHOSH ROAD HOWRAH, 5TH FLOOR  
HOWRAH  
WEST BENGAL  
711101  
PH. NO :6291359200



| 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  
**MD MOAZZAM ANWAR**  
for successfully completing the course  
**Basic Electric Circuits**

with a consolidated score of **74** %

|                    |          |                |          |
|--------------------|----------|----------------|----------|
| Online Assignments | 22.34/25 | Proctored Exam | 51.28/75 |
|--------------------|----------|----------------|----------|

Total number of candidates certified in this course: 1155

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

Jul-Oct 2019  
(12 week course)

**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL19EE36S61650639

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: NPTEL19EE38S61650408

To  
MITRANI GHOSH  
12, PORT BLAIR LINE,  
SANTIBAZAR, CHIRIAMORE, BARRACKPORE  
BARRACKPORE  
NORTH 24 PARGANAS  
WEST BENGAL  
700120  
PH. NO : 8420834258



| 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  
**MITRANI GHOSH**  
for successfully completing the course  
**Analog Electronic Circuit**

with a consolidated score of **51** %

|                    |          |                |       |
|--------------------|----------|----------------|-------|
| Online Assignments | 20.78/25 | Proctored Exam | 30/75 |
|--------------------|----------|----------------|-------|

*Devendra Jalihal*

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

Total number of candidates certified in this course: **63**

**Jul-Oct 2019**  
**(12 week course)**

*Prof. Andrew Thangaraj*

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



Indian Institute of Technology Madras



Roll No: NPTEL19EE38S61650408

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: NPTEL19EE51S41650990

To  
AKASH DAS  
121, RABINDRANATH TAGORE ROAD  
DUM DUM  
KOLKATA  
WEST BENGAL  
700077  
PH. NO :9038649146



| 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  
**AKASH DAS**  
for successfully completing the course  
**Digital Circuits**

with a consolidated score of **58** %

|                    |          |                |       |
|--------------------|----------|----------------|-------|
| Online Assignments | 19.44/25 | Proctored Exam | 39/75 |
|--------------------|----------|----------------|-------|

Total number of candidates certified in this course: **2864**

Jul-Oct 2019  
(12 week course)

*A. Goswami*

**Prof. Adrijit Goswami**  
Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL19EE51S41650990

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: NPTEL19EE65S11380273

To  
ARINDITA SAHA  
3A/02 AKASHDEEP APARTMENT  
NONACHANDANPUKUR ABOVE NONACHANDANPUKUR  
BAZAR  
BARRACKPORE  
NORTH 24 PARGANAS  
WEST BENGAL  
700122  
PH. NO :8787472437



| 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

**ARINDITA SAHA**

for successfully completing the course

## Fundamentals of Electric Drives

with a consolidated score of **63** %

|                    |          |                |          |
|--------------------|----------|----------------|----------|
| Online Assignments | 20.21/25 | Proctored Exam | 42.75/75 |
|--------------------|----------|----------------|----------|

Total number of candidates certified in this course: 303

**Prof. Rajesh M. Hegde**

Chairman, Centre for Continuing Education  
IIT Kanpur

Jul-Sep 2019  
(8 week course)

**Prof. Satyaki Roy**

NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL19EE65S11380273

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: NPTEL19HS32S61651853

To  
SRUTI SEN SARMA  
67 JAFFARPUR ROAD, P.O. NONA CHANDANPUKUR  
BARRACKPORE  
KOLKATA  
WEST BENGAL  
700122  
PH. NO :9831087174



| 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  
**SRUTI SEN SARMA**  
for successfully completing the course

## Developing Soft Skills and Personality

with a consolidated score of **85** %

|                    |          |                |          |
|--------------------|----------|----------------|----------|
| Online Assignments | 24.17/25 | Proctored Exam | 60.75/75 |
|--------------------|----------|----------------|----------|

Total number of candidates certified in this course: 15357

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

**Aug-Oct 2019**  
(8 week course)

**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL19HS32S61651853

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: NPTEL19HS33S31650269

To  
BHAGYASRI MAZUMDER  
HATIARA JHILL BAGAN  
P.O. HATIARA  
P.S. NEW TOWN  
KOLKATA  
NORTH 24 PARGANAS  
WEST BENGAL  
700157  
PH. NO :9073171334



| 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  
**BHAGYASRI MAZUMDER**  
for successfully completing the course  
**Soft Skills**

with a consolidated score of **55** %

|                    |          |                |         |
|--------------------|----------|----------------|---------|
| Online Assignments | 23.75/25 | Proctored Exam | 31.7/75 |
|--------------------|----------|----------------|---------|

Total number of candidates certified in this course: **3736**

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

Jul-Oct 2019  
(12 week course)

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



Indian Institute of Technology Roorkee



Roll No: NPTEL19HS33S31650269

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: NPTEL19HS33S31570040

To  
TRINA SIKDAR  
TENTULTOLA, PABNA COLONY ROAD  
CHAKDAH  
NADIA  
WEST BENGAL  
741222  
PH. NO :7602041357



| 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  
**TRINA SIKDAR**  
for successfully completing the course  
**Soft Skills**

with a consolidated score of **66** %

|                    |          |                |          |
|--------------------|----------|----------------|----------|
| Online Assignments | 25.00/25 | Proctored Exam | 40.59/75 |
|--------------------|----------|----------------|----------|

Total number of candidates certified in this course: **3736**

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

Jul-Oct 2019  
(12 week course)

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



Indian Institute of Technology Roorkee



Roll No: NPTEL19HS33S31570040

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: NPTEL19HS33S41650089

To  
SAYAN BHATTACHARJEE  
477, M.B ROAD, NIMTA  
BELGHARIA  
NORTH 24 PARGANAS  
WEST BENGAL  
700049  
PH. NO :6289767232



| 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  
**SAYAN BHATTACHARJEE**  
for successfully completing the course  
**Soft Skills**

with a consolidated score of **69** %

|                    |          |                |          |
|--------------------|----------|----------------|----------|
| Online Assignments | 24.38/25 | Proctored Exam | 44.77/75 |
|--------------------|----------|----------------|----------|

Total number of candidates certified in this course: **3736**

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

Jul-Oct 2019  
(12 week course)

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



Indian Institute of Technology Roorkee



Roll No: NPTEL19HS33S41650089

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: NPTEL19HS35S61570030

To  
TRINA SIKDAR  
TENTULTOLA, PABNA COLONY ROAD  
CHAKDAH  
NADIA  
WEST BENGAL  
741222  
PH. NO :7602041357



| 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

**TRINA SIKDAR**

for successfully completing the course

**Ethics in Engineering Practice**

with a consolidated score of **58** %

|                    |          |                |         |
|--------------------|----------|----------------|---------|
| Online Assignments | 23.75/25 | Proctored Exam | 34.5/75 |
|--------------------|----------|----------------|---------|

Total number of candidates certified in this course: 2054

*A. Goswami*

Aug-Oct 2019  
(8 week course)

**Prof. Adrijit Goswami**  
Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL19HS35S61570030

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: NPTEL19MA33S51570255

To  
TRINA SIKDAR  
TENTULTOLA, PABNA COLONY ROAD  
CHAKDAH  
NADIA  
WEST BENGAL  
741222  
PH. NO :7602041357



| 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  
**TRINA SIKDAR**  
for successfully completing the course  
**Introduction to R Software**

with a consolidated score of **62** %

|                    |          |                |       |
|--------------------|----------|----------------|-------|
| Online Assignments | 23.29/25 | Proctored Exam | 39/75 |
|--------------------|----------|----------------|-------|

Total number of candidates certified in this course: 1097

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

**Aug-Oct 2019**  
(8 week course)

**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL19MA33S51570255

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: NPTEL19MM23S11560217

To  
ANINDITA DAS  
38, S.N. BANERJEE ROAD P.O. NEW  
BARRACKPORE KOLKATA-700131  
KOLKATA  
WEST BENGAL  
700131  
PH. NO :9830500783



| 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

**ANINDITA DAS**

for successfully completing the course

## Fundamentals of Electronic Device Fabrication



with a consolidated score of **88** %

|                    |          |                |       |
|--------------------|----------|----------------|-------|
| Online Assignments | 25.00/25 | Proctored Exam | 63/75 |
|--------------------|----------|----------------|-------|



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

Total number of candidates certified in this course: **396**

**Jul-Aug 2019**  
(4 week course)



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



Indian Institute of Technology Madras



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: NPTEL19PH08S11560211

To

MITRANI GHOSH  
12, PORT BLAIR LINE,  
SANTIBAZAR, CHIRIAMORE, BARRACKPORE  
BARRACKPORE  
NORTH 24 PARGANAS  
WEST BENGAL  
700120  
PH. NO : 8420834258



| 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

**MITRANI GHOSH**

for successfully completing the course

## Introduction to Electromagnetic Theory

with a consolidated score of **61** %

|                    |          |                |          |
|--------------------|----------|----------------|----------|
| Online Assignments | 19.08/25 | Proctored Exam | 41.49/75 |
|--------------------|----------|----------------|----------|

Total number of candidates certified in this course: 83

**Prof. Rajesh M. Hegde**

Chairman, Centre for Continuing Education  
IIT Kanpur

Jul-Sep 2019  
(8 week course)

**Prof. Satyaki Roy**

NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL19PH08S11560211

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: NPTEL20CE15S1334059

To  
RAHUL AGARWAL  
24295 MONDAL PARA LANE  
KOLKATA  
NORTH 24 PARGANAS  
WEST BENGAL - 700090  
PH. NO :6290807180



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

**RAHUL AGARWAL**

for passing the course

**Advanced Topics in the Science and  
Technology of Concrete**

with Score\* **49** %

**Covid-19  
impacted  
January 2020  
semester**

*Devendra Jalihal*

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

Jan-Feb 2020  
(4 week course)

*Prof. Andrew Thangaraj*

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



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: NPTEL20CS06S1529700

To  
SOURAV PAL  
SOUMYA COURT,HRIDAYPUR STATION ROAD.  
HRIDAYPUR  
NORTH 24 PARGANAS  
WEST BENGAL - 700127  
PH. NO :8621964485



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

**SOURAV PAL**

for passing the course

**Problem Solving through Programming in C**

with Score\* **77** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

**Prof. Adrijit Goswami**

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Jan-Apr 2020  
(12 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20CS08S1087861

To  
APARUPA DAS  
15  
RISHRA  
HOOGHLY  
WEST BENGAL - 712250  
PH. NO :8240004526



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

**APARUPA DAS**

for passing the course

**Programming in Java**

with Score\* **77** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

**Prof. Adrijit Goswami**

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Jan-Apr 2020  
(12 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20CS08S1566123  
To  
SATYAM DEEP  
T 24 MAGADH UNIVERSITY CAMPUSMAGADH  
UNIVERSITYBODHGAYA  
GAYA  
BIHAR-824234  
PH. NO :9123604601



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

**SATYAM DEEP**

for passing the course

**Programming in Java**

with Score\* **89** %



A. Goswami

**Prof. Adrijit Goswami**

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Jan-Apr 2020  
(12 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20CS08S1670079

To  
SAYAN MONDAL  
RONGPARA, SAHEB BAGAN, BALLY  
BALLY  
HOWRAH  
WEST BENGAL - 711205  
PH. NO : 7980932393



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

**SAYAN MONDAL**

for passing the course

**Programming in Java**

with Score\* **98** %

**Covid-19  
impacted  
January 2020  
semester**

*A. Goswami*

**Prof. Adrijit Goswami**

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

**Jan-Apr 2020  
(12 week course)**



Indian Institute of Technology Kharagpur



\*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: NPTEL20CS08S1785901

To

AVIK ROY  
GUSKARA , NEAR CHETTONA KATHA STITCH  
GUSKARA  
BARDHAMAN  
WEST BENGAL - 713128  
PH. NO :9064029719



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

**AVIK ROY**

for passing the course

**Programming in Java**

with Score\* **92** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

**Prof. Adrijit Goswami**

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Jan-Apr 2020  
(12 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20CS08S1933924

To  
AJOY BISWAS  
MANDALGANTHI, BAMANGACHHI  
BAMANGACHHI  
NORTH 24 PARGANAS  
WEST BENGAL - 743248  
PH. NO :6289000843



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

**AJOY BISWAS**

for passing the course

**Programming in Java**

with Score\* **71** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

**Prof. Adrijit Goswami**

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Jan-Apr 2020  
(12 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20CS08S1958563

To  
HARMANJOT SINGH  
319 SIDDESHWARI TALA ROAD MONIRAMPORE  
BARRACKPORE KOLKATA  
BARRACKPORE  
NORTH 24 PARGANAS  
WEST BENGAL - 700120  
PH. NO :8910827938



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  
**HARMANJOT SINGH**

for passing the course

**Programming in Java**

with Score\* **99** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

**Prof. Adrijit Goswami**

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Jan-Apr 2020  
(12 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20CS22S1168538

To  
PINKY KUMARI RAJBHAR  
21H1 RUSTAM JEE PARSEE ROAD  
COSSIPORE, KOLKATA 700002  
KOLKATA  
WEST BENGAL-700002  
PH. NO :9681796100



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

**PINKY KUMARI RAJBHAR**

for passing the course

**Introduction to Internet of Things**

with Score\* **85** %

**Covid-19  
impacted  
January 2020  
semester**

*A. Goswami*

**Prof. Adrijit Goswami**

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

**Jan-Apr 2020  
(12 week course)**



Indian Institute of Technology Kharagpur



\*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: NPTEL20CS22S1444641

To  
KRISHNA ADHIKARY  
1013 P P ROAD, KANKINARA  
RATHTALA, FINGAPARA  
NORTH 24 PARGANAS  
WEST BENGAL - 743129  
PH. NO :9875687770



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  
**KRISHNA ADHIKARY**  
for passing the course

**Introduction to Internet of Things**

with Score\* **100 %**

Covid-19  
impacted  
January 2020  
semester

A. Goswami

Prof. Adrijit Goswami  
Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Jan-Apr 2020  
(12 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20CS22S1542291

To  
DIPANKAR ROY  
PHULBARI PRANSAGAR ROAD  
MADHYA RAGHUNATHPUR  
DAKSHIN DINAJPUR  
WEST BENGAL - 733140  
PH. NO :9064057423



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

**DIPANKAR ROY**

for passing the course

**Introduction to Internet of Things**

with Score\* **63** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

**Prof. Adrijit Goswami**

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Jan-Apr 2020  
(12 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20CS22S1689481

To  
HARISADHAN ROY  
69 KAICHOR KALNA ROAD  
KARULIA  
BARDHAMAN  
WEST BENGAL - 713143  
PH. NO :7003534647



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  
**HARISADHAN ROY**  
for passing the course

**Introduction to Internet of Things**

with Score\* **61** %

**Covid-19  
impacted  
January 2020  
semester**

*A. Goswami*

**Prof. Adrijit Goswami**  
Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

**Jan-Apr 2020**  
(12 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20CS26S1540821

To  
ANKIT SHAW  
1021 NASKAR PARA ROAD  
GHUSURI  
HOWRAH  
WEST BENGAL - 711107  
PH. NO :9330509853



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

**ANKIT SHAW**

for passing the course

**Programming, Data Structures and  
Algorithms using Python**

with Score\* **100 %**



*Devendra Jalihal*

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

Jan-Mar 2020  
(8 week course)

*Prof. Andrew Thangaraj*

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



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: NPTEL20CS35S1080889  
To  
AVINABA BANERJEE  
4B GOUR SUNDER SETH LANE KOLKATA 700050  
KOLKATA  
WEST BENGAL-700050  
PH. NO :8599910669



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  
**AVINABA BANERJEE**  
for passing the course

**The Joy of Computing using Python**

with Score\* **96** %



*Devendra Jalihal*

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

**Jan-Apr 2020**  
(12 week course)

*Andrew Thangaraj*

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



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: NPTEL20CS35S1099266

To  
RITWIK PAL  
207  
KETHARDANGA  
BANKURA  
WEST BENGAL - 722101  
PH. NO :6295511207



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

**RITWIK PAL**

for passing the course

**The Joy of Computing using Python**

with Score\* **96** %

Covid-19  
impacted  
January 2020  
semester

*Devendra Jalihal*

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

**Jan-Apr 2020**  
(12 week course)

*Prof. Andrew Thangaraj*

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



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: NPTEL20CS35S1117296

To  
IFFAT NIGAR  
91A GOPAL CHANDRA LANE  
KOLKATA  
WEST BENGAL-700073  
PH. NO :9330201663



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

**IFFAT NIGAR**

for passing the course

**The Joy of Computing using Python**

with Score\* **55** %

Covid-19  
impacted  
January 2020  
semester

*Devendra Jalihal*

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

**Jan-Apr 2020**  
(12 week course)

*Prof. Andrew Thangaraj*

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



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: NPTEL20CS35S1158474

To  
MANISH PATHAK  
21, SHIV THAKUR LANE  
KOLKATA  
WEST BENGAL-700007  
PH. NO :9903125814



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

**MANISH PATHAK**

for passing the course

**The Joy of Computing using Python**

with Score\* **98** %

Covid-19  
impacted  
January 2020  
semester

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

Jan-Apr 2020  
(12 week course)

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



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: NPTEL20CS35S1270147

To  
BAISHAKHI DAS  
411 R.N.TAGORE ROAD,BEDIAPARA  
KOLKATA  
WEST BENGAL-700077  
PH. NO :8335922188



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

**BAISHAKHI DAS**

for passing the course

**The Joy of Computing using Python**

with Score\* **96** %

Covid-19  
impacted  
January 2020  
semester

*Devendra Jalihal*

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

**Jan-Apr 2020**  
(12 week course)

*Prof. Andrew Thangaraj*

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



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: NPTEL20CS35S1298219

To  
SAYAN MONDAL  
RONGPARA, SAHEB BAGAN, BALLY  
BALLY  
HOWRAH  
WEST BENGAL - 711205  
PH. NO : 7980932393



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

**SAYAN MONDAL**

for passing the course

**The Joy of Computing using Python**

with Score\* **96** %

Covid-19  
impacted  
January 2020  
semester

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

Jan-Apr 2020  
(12 week course)

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



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: NPTEL20CS35S1319975

To  
DINANATH MISHRA  
BC.005.0319  
BUDHANATH  
BHAGALPUR  
BIHAR - 812001  
PH. NO :8434517104



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  
**DINANATH MISHRA**  
for passing the course

**The Joy of Computing using Python**

with Score\* **56** %



*Devendra Jalihal*

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

**Jan-Apr 2020**  
(12 week course)

*Andrew Thangaraj*

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



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: NPTEL20CS35S1373542

To  
SOUNAK RAJ PANI  
4991, NAGBAGAN ROAD  
SHYAMNAGAR  
NORTH 24 PARGANAS  
WEST BENGAL - 743127  
PH. NO :8961436718



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  
**SOUNAK RAJ PANI**  
for passing the course

**The Joy of Computing using Python**

with Score\* **99** %



*Devendra Jalihal*

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

**Jan-Apr 2020**  
(12 week course)

*Prof. Andrew Thangaraj*

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



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: NPTEL20CS35S1390964

To  
RADHA RANI  
123 KONNAGAR  
KONNAGAR  
HOOGHLY  
WEST BENGAL - 712246  
PH. NO :8240839264



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

**RADHA RANI**

for passing the course

**The Joy of Computing using Python**

with Score\* **94** %

Covid-19  
impacted  
January 2020  
semester

*Devendra Jalihal*

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

Jan-Apr 2020  
(12 week course)

*Prof. Andrew Thangaraj*

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



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: NPTEL20CS35S1420726

To  
PRATISRUTI DUTTA  
363 BABURANIPARA  
BHATPARA  
NORTH 24 PARGANAS  
WEST BENGAL - 743123  
PH. NO :8420999318



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  
**PRATISRUTI DUTTA**  
for passing the course

**The Joy of Computing using Python**

with Score\* **54** %



*Devendra Jalihal*

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

**Jan-Apr 2020**  
(12 week course)

*Prof. Andrew Thangaraj*

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



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: NPTEL20CS35S1511226

To  
SHIVAM MISHRA  
26,ARMENIAN STREET  
KOLKATA  
WEST BENGAL-700001  
PH. NO :9674308205



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

**SHIVAM MISHRA**

for passing the course

**The Joy of Computing using Python**

with Score\* **97** %

**Covid-19  
impacted  
January 2020  
semester**

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

**Jan-Apr 2020**  
(12 week course)

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



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: NPTEL20CS35S1556439

To  
SOURAV PAL  
SOUMYA COURT,HRIDAYPUR STATION ROAD.  
HRIDAYPUR  
NORTH 24 PARGANAS  
WEST BENGAL - 700127  
PH. NO :8621964485



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

**SOURAV PAL**

for passing the course

**The Joy of Computing using Python**

with Score\* **68** %

Covid-19  
impacted  
January 2020  
semester

*Devendra Jalihal*

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

**Jan-Apr 2020**  
(12 week course)

*Prof. Andrew Thangaraj*

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



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: NPTEL20CS35S1585465

To  
NIRAJ THAKUR  
42B.C. CHATTERJEE STREET  
BELGHARIA, KOLKATA  
NORTH 24 PARGANAS  
WEST BENGAL - 700056  
PH. NO :9163061606



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

**NIRAJ THAKUR**

for passing the course

**The Joy of Computing using Python**

with Score\* **88** %

Covid-19  
impacted  
January 2020  
semester

*Devendra Jalihal*

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

Jan-Apr 2020  
(12 week course)

*Andrew Thangaraj*

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



Indian Institute of Technology Madras



\*Continuous online assessment score

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

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Roll No: NPTEL20CS35S1650991

To  
SAYAN KONER  
N0021 JATHAL PARA  
ORGRAM  
BARDHAMAN  
WEST BENGAL - 713128  
PH. NO :8927791558



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

**SAYAN KONER**

for passing the course

**The Joy of Computing using Python**

with Score\* **91** %

Covid-19  
impacted  
January 2020  
semester

*Devendra Jalihal*

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

Jan-Apr 2020  
(12 week course)

*Prof. Andrew Thangaraj*

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



Indian Institute of Technology Madras



\*Continuous online assessment score

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

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Roll No: NPTEL20CS35S1746030

To  
ANKIT KUMAR GHOSH  
173 S.S BOSE SARANI  
BAIDYABATI  
HOOGHLY  
WEST BENGAL - 712222  
PH. NO :9073297620



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  
**ANKIT KUMAR GHOSH**  
for passing the course

**The Joy of Computing using Python**

with Score\* **98** %

Covid-19  
impacted  
January 2020  
semester

*Devendra Jalihal*

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

**Jan-Apr 2020**  
(12 week course)

*Prof. Andrew Thangaraj*

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



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: NPTEL20CS35S1790223

To  
SUBHRAMOY SARKAR  
1482, BANERJEE PARA ROAD  
SHYAMNAGAR  
NORTH 24 PARGANAS  
WEST BENGAL - 743127  
PH. NO :9007059846



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  
**SUBHRAMOY SARKAR**  
for passing the course

**The Joy of Computing using Python**

with Score\* **99** %



*Devendra Jalihal*

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

**Jan-Apr 2020**  
(12 week course)

*Prof. Andrew Thangaraj*

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



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: NPTEL20CS35S1865642

To  
RAKTIM PRAMANIK  
45 A NANDARAM SEN STREET  
SOVABAZAR  
KOLKATA  
WEST BENGAL - 700005  
PH. NO :9831208691



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  
**RAKTIM PRAMANIK**  
for passing the course

**The Joy of Computing using Python**

with Score\* **98** %



*Devendra Jalihal*

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

**Jan-Apr 2020**  
(12 week course)

*Prof. Andrew Thangaraj*

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



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: NPTEL20CS35S1915997

To  
ANUSHREE SAHA  
16067B  
BARRACKPORE  
NORTH 24 PARGANAS  
WEST BENGAL - 700122  
PH. NO :9330189225



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

**ANUSHREE SAHA**

for passing the course

**The Joy of Computing using Python**

with Score\* **98** %

**Covid-19  
impacted  
January 2020  
semester**

*Devendra Jalihal*

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

**Jan-Apr 2020**  
(12 week course)

*Andrew Thangaraj*

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



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: NPTEL20CS35S1925891

To

ASHISH MISHRA  
RAMJIT SINGH KHATAL JAI HIND UDYAANNEAR  
SHANI MANDIR  
HOWRAH  
WEST BENGAL-711206  
PH. NO :9330371885



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

**ASHISH MISHRA**

for passing the course

**The Joy of Computing using Python**

with Score\* **97** %

Covid-19  
impacted  
January 2020  
semester

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

Jan-Apr 2020  
(12 week course)

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



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: NPTEL20CS35S1944916

To  
ROHAN SAMANTA  
COSUBIR KUMAR SAMANTAKARANDA SAMANTA  
PARA  
KARANDA  
BARDHAMAN  
WEST BENGAL - 713422  
PH. NO :7365982983



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  
**ROHAN SAMANTA**  
for passing the course

**The Joy of Computing using Python**

with Score\* **96** %

Covid-19  
impacted  
January 2020  
semester

*Devendra Jalihal*

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

**Jan-Apr 2020**  
(12 week course)

*Prof. Andrew Thangaraj*

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



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: NPTEL20CS35S1947823

To  
SAYAN GHOSH  
SANYASHI BAZAR  
RANAGHAT  
NADIA  
WEST BENGAL - 741201  
PH. NO :9333558635



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

**SAYAN GHOSH**

for passing the course

**The Joy of Computing using Python**

with Score\* **54** %

Covid-19  
impacted  
January 2020  
semester

*Devendra Jalihal*

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

Jan-Apr 2020  
(12 week course)

*Andrew Thangaraj*

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



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: NPTEL20CS35S1995865

To  
RAVI ANSHUMAN  
HN 56 , TULSINAGAR , TILKAMANJHI  
BHAGALPUR  
BIHAR-812001  
PH. NO :9199579246



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

**RAVI ANSHUMAN**

for passing the course

**The Joy of Computing using Python**

with Score\* **97** %

Covid-19  
impacted  
January 2020  
semester

*Devendra Jalihal*

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

**Jan-Apr 2020**  
(12 week course)

*Prof. Andrew Thangaraj*

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



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: NPTEL20CS37S1333736

To  
JULIAS BISWAS  
101  
JAGANNATHPUR  
MURSHIDABAD  
WEST BENGAL - 742165  
PH. NO :6294160823



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

**JULIAS BISWAS**

for passing the course

**Discrete Mathematics**

with Score\* **64** %

Covid-19  
impacted  
January 2020  
semester

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

Jan-Apr 2020  
(12 week course)

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



Indian Institute of Technology Madras



\*Continuous online assessment score

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

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Roll No: NPTEL20CS53S1023616

To  
SOUMYAJIT DAS  
244 ROCKY PATH, CITY CENTER  
DURGAPUR  
BARDHAMAN  
WEST BENGAL - 713216  
PH. NO :9476425091



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

**SOUMYAJIT DAS**

for passing the course

**An Introduction to Programming through C++**

with Score\* **90** %

**Covid-19  
impacted  
January 2020  
semester**

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

**Jan-Apr 2020**  
(12 week course)



Indian Institute of Technology Bombay



\*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: NPTEL20CS53S1193786

To  
DEBAPRIYA MITRA  
59, GANGULY PARA, JHIL PAAR  
SHYAMNAGAR  
NORTH 24 PARGANAS  
WEST BENGAL - 743127  
PH. NO :8584926160



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  
**DEBAPRIYA MITRA**  
for passing the course

**An Introduction to Programming through C++**

with Score\* **82** %



Jan-Apr 2020  
(12 week course)

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



Indian Institute of Technology Bombay



\*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: NPTEL20CS53S1562922

To  
SUDIPA GHOSH  
22B CENTRAL ROAD, NONACHANDANPUKUR  
BARRACKPORE  
NORTH 24 PARGANAS  
WEST BENGAL - 700122  
PH. NO : 7278107923



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

**SUDIPA GHOSH**

for passing the course

**An Introduction to Programming through C++**

with Score\* **84** %

Covid-19  
impacted  
January 2020  
semester

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

Jan-Apr 2020  
(12 week course)



Indian Institute of Technology Bombay



\*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: NPTEL20EE24S1736244

To

MITRANI GHOSH  
12, PORT BLAIR LINE,  
SANTIBAZAR, CHIRIAMORE, BARRACKPORE  
BARRACKPORE  
NORTH 24 PARGANAS  
WEST BENGAL - 700120  
PH. NO : 8420834258



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

**MITRANI GHOSH**

for passing the course

**Analog Circuits**

with Score\* **95** %

**Covid-19  
impacted  
January 2020  
semester**

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

Jan-Mar 2020  
(8 week course)



Indian Institute of Technology Bombay



\*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: NPTEL20EE31S1679550

To

MITRANI GHOSH  
12, PORT BLAIR LINE,  
SANTIBAZAR, CHIRIAMORE, BARRACKPORE  
BARRACKPORE  
NORTH 24 PARGANAS  
WEST BENGAL - 700120  
PH. NO : 8420834258



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

**MITRANI GHOSH**

for passing the course

**Discrete Time Signal Processing**

with Score\* **70** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

Prof. Adrijit Goswami

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Jan-Mar 2020  
(8 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20EE32S1841175

To

MITRANI GHOSH  
12, PORT BLAIR LINE,  
SANTIBAZAR, CHIRIAMORE, BARRACKPORE  
BARRACKPORE  
NORTH 24 PARGANAS  
WEST BENGAL - 700120  
PH. NO : 8420834258



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

**MITRANI GHOSH**

for passing the course

**Digital Electronic Circuits**

with Score\* **89** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

**Prof. Adrijit Goswami**

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Jan-Apr 2020  
(12 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20EE38S1098199

To  
MITRANI GHOSH  
12, PORT BLAIR LINE,  
SANTIBAZAR, CHIRIAMORE, BARRACKPORE  
BARRACKPORE  
NORTH 24 PARGANAS  
WEST BENGAL - 700120  
PH. NO : 8420834258



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

**MITRANI GHOSH**

for passing the course

**Electrical Machines - II**

with Score\* **95** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

**Prof. Adrijit Goswami**

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Jan-Apr 2020  
(12 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20EE38S1228515

To  
NELOY KANTI SAHA  
DEBASREE PALLY, FEEDER ROAD  
SHYAMNAGAR  
NORTH 24 PARGANAS  
WEST BENGAL - 743127  
PH. NO :8620020082



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  
**NELOY KANTI SAHA**  
for passing the course

**Electrical Machines - II**

with Score\* **77** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

Prof. Adrijit Goswami  
Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Jan-Apr 2020  
(12 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20EE38S1298510

To  
SHIVAM NATH  
RAVINDRANATH, DHANADIHARI  
JEHANABAD  
BIHAR-804429  
PH. NO :7563009738



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

**SHIVAM NATH**

for passing the course

**Electrical Machines - II**

with Score\* **77** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

**Prof. Adrijit Goswami**

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Jan-Apr 2020  
(12 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20EE38S1389273

To  
SAMIRAN BANERJEE  
46 ADYANATH SAHA ROAD, LAKE TOWN,  
KOLKATA 700048  
KOLKATA  
NORTH 24 PARGANAS  
WEST BENGAL - 700048  
PH. NO :7980742756



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

**SAMIRAN BANERJEE**

for passing the course

**Electrical Machines - II**

with Score\* **93** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

**Prof. Adrijit Goswami**

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Jan-Apr 2020

(12 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20EE38S1762961

To  
SUBHAJIT ADHIKARY  
10A KARTICK BOSE LANE  
KOLKATA  
WEST BENGAL-700006  
PH. NO :9163909045



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  
**SUBHAJIT ADHIKARY**  
for passing the course

**Electrical Machines - II**

with Score\* **77** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

Prof. Adrijit Goswami  
Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Jan-Apr 2020  
(12 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20EE38S1808672

To  
SAYAN DAS  
2013 B.B.GHOSH SARANI ( MURARI PUKUR  
ROAD )  
MANICKTALA  
KOLKATA  
WEST BENGAL - 700067  
PH. NO :7003775020



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

**SAYAN DAS**

for passing the course

**Electrical Machines - II**

with Score\* **93** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

**Prof. Adrijit Goswami**

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Jan-Apr 2020  
(12 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20EE46S1498238

To  
MITRANI GHOSH  
12,PORT BLAIR LINE,  
SANTIBAZAR,CHIRIAMORE,BARRACKPORE  
BARRACKPORE  
NORTH 24 PARGANAS  
WEST BENGAL - 700120  
PH. NO :8420834258



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

**MITRANI GHOSH**

for passing the course

**Network Analysis**

with Score\* **96** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

**Prof. Adrijit Goswami**

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Jan-Apr 2020  
(12 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20GE02S1041753

To  
SUDIPTA MANDAL  
SHIBPUR  
VILL+PO-SHIBPUR  
NADIA  
WEST BENGAL - 741124  
PH. NO :7584862751



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  
**SUDIPTA MANDAL**  
for passing the course

**Ethics in Engineering Practice**

with Score\* **90** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

Prof. Adrijit Goswami  
Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Feb-Apr 2020  
(8 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20GE02S1090938

To  
RAKTIM PRAMANIK  
45 A NANDARAM SEN STREET  
SOVABAZAR  
KOLKATA  
WEST BENGAL - 700005  
PH. NO :9831208691



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  
**RAKTIM PRAMANIK**  
for passing the course

**Ethics in Engineering Practice**

with Score\* **90** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

Prof. Adrijit Goswami  
Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Feb-Apr 2020  
(8 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20GE02S1122467

To  
RAVI ANSHUMAN  
HN 56 , TULSINAGAR , TILKAMANJHI  
BHAGALPUR  
BIHAR-812001  
PH. NO :9199579246



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

**RAVI ANSHUMAN**

for passing the course

**Ethics in Engineering Practice**

with Score\* **78** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

**Prof. Adrijit Goswami**

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Feb-Apr 2020  
(8 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20GE02S1161463

To  
ASHISH MISHRA  
RAMJIT SINGH KHATAL JAI HIND UDYAANNEAR  
SHANI MANDIR  
HOWRAH  
WEST BENGAL-711206  
PH. NO :9330371885



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

**ASHISH MISHRA**

for passing the course

**Ethics in Engineering Practice**

with Score\* **90** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

**Prof. Adrijit Goswami**

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Feb-Apr 2020  
(8 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20GE02S1186217  
To  
SHIVAM MISHRA  
26,ARMENIAN STREET  
KOLKATA  
WEST BENGAL-700001  
PH. NO :9674308205



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

**SHIVAM MISHRA**

for passing the course

**Ethics in Engineering Practice**

with Score\* **88** %



*A. Goswami*

**Prof. Adrijit Goswami**

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Feb-Apr 2020  
(8 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20GE02S1271982

To  
SUBHADIP MANDAL  
VILL+P.O KOKLAMARI, P.S PUKHURIA  
KOKLAMARI  
MALDA  
WEST BENGAL - 732208  
PH. NO :7430066953



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  
**SUBHADIP MANDAL**  
for passing the course

**Ethics in Engineering Practice**

with Score\* **83** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

Prof. Adrijit Goswami  
Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Feb-Apr 2020  
(8 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20GE02S1298183

To  
ANKIT SHAW  
1021 NASKAR PARA ROAD  
GHUSURI  
HOWRAH  
WEST BENGAL - 711107  
PH. NO :9330509853



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

**ANKIT SHAW**

for passing the course

**Ethics in Engineering Practice**

with Score\* **92** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

**Prof. Adrijit Goswami**

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Feb-Apr 2020  
(8 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20GE02S1540800

To  
DINANATH MISHRA  
BC.005.0319  
BUDHANATH  
BHAGALPUR  
BIHAR - 812001  
PH. NO :8434517104



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  
**DINANATH MISHRA**  
for passing the course

**Ethics in Engineering Practice**

with Score\* **90** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

Prof. Adrijit Goswami  
Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Feb-Apr 2020  
(8 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20GE02S1582710

To  
SUBHRAMOY SARKAR  
1482, BANERJEE PARA ROAD  
SHYAMNAGAR  
NORTH 24 PARGANAS  
WEST BENGAL - 743127  
PH. NO :9007059846



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

**SUBHRAMOY SARKAR**

for passing the course

**Ethics in Engineering Practice**

with Score\* **91** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

Prof. Adrijit Goswami

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Feb-Apr 2020  
(8 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20GE02S1605825

To  
SAYAK RANA  
VILL+P.O BENGAI , P.S GOGHAT  
BENGAI  
HOOGHLY  
WEST BENGAL - 712611  
PH. NO :8637804747



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

**SAYAK RANA**

for passing the course

**Ethics in Engineering Practice**

with Score\* **85** %

**Covid-19  
impacted  
January 2020  
semester**

*A. Goswami*

**Prof. Adrijit Goswami**

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

**Feb-Apr 2020  
(8 week course)**



Indian Institute of Technology Kharagpur



\*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: NPTEL20GE02S1657645

To  
ANKIT KUMAR GHOSH  
173 S.S BOSE SARANI  
BAIDYABATI  
HOOGHLY  
WEST BENGAL - 712222  
PH. NO :9073297620



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  
**ANKIT KUMAR GHOSH**  
for passing the course

**Ethics in Engineering Practice**

with Score\* **90** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

Prof. Adrijit Goswami  
Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Feb-Apr 2020  
(8 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20GE02S1705703

To

ARGHYA KHAN  
VILL+P.OPALASHAN, P.S RAINA, DISTPURBA  
BARDHAMAN  
PALASHAN  
BARDHAMAN  
WEST BENGAL - 713424  
PH. NO :8327079301



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

**ARGHYA KHAN**

for passing the course

**Ethics in Engineering Practice**

with Score\* **88** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

**Prof. Adrijit Goswami**

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Feb-Apr 2020  
(8 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20GE02S1748865

To  
NIRAJ THAKUR  
42B.C. CHATTERJEE STREET  
BELGHARIA, KOLKATA  
NORTH 24 PARGANAS  
WEST BENGAL - 700056  
PH. NO :9163061606



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

**NIRAJ THAKUR**

for passing the course

**Ethics in Engineering Practice**

with Score\* **83** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

**Prof. Adrijit Goswami**

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Feb-Apr 2020  
(8 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20GE02S1750720

To  
SANGITA DEY  
P665 BASUNAGAR GATE NO 1  
MADHYAMGRAM  
NORTH 24 PARGANAS  
WEST BENGAL - 700129  
PH. NO :9830661207



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

**SANGITA DEY**

for passing the course

**Ethics in Engineering Practice**

with Score\* **60** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

**Prof. Adrijit Goswami**

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Feb-Apr 2020  
(8 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20GE02S1805520

To  
RADHA RANI  
123 KONNAGAR  
KONNAGAR  
HOOGHLY  
WEST BENGAL - 712246  
PH. NO :8240839264



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

**RADHA RANI**

for passing the course

**Ethics in Engineering Practice**

with Score\* **90** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

**Prof. Adrijit Goswami**

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Feb-Apr 2020  
(8 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20GE02S1809094

To

ANKIT KUMAR DAS  
340,RAILWAY QTR.DANGAPARANEARHUDIRAM  
BOSE INSTITUTE  
KANCHRAPARA  
NORTH 24 PARGANAS  
WEST BENGAL - 743145  
PH. NO :9674091379



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  
**ANKIT KUMAR DAS**  
for passing the course

**Ethics in Engineering Practice**

with Score\* **47** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

Prof. Adrijit Goswami  
Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Feb-Apr 2020  
(8 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20GE02S1828811

To  
ROHAN SAMANTA  
COSUBIR KUMAR SAMANTAKARANDA SAMANTA  
PARA  
KARANDA  
BARDHAMAN  
WEST BENGAL - 713422  
PH. NO :7365982983



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  
**ROHAN SAMANTA**  
for passing the course

**Ethics in Engineering Practice**

with Score\* **87** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

Prof. Adrijit Goswami  
Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Feb-Apr 2020  
(8 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20GE02S1889774

To  
ANIRUDHYA MALAKAR  
CO RATAN MALAKAR  
BIRNAGAR  
UTTAR DINAJPUR  
WEST BENGAL - 733134  
PH. NO :8436196782



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

**ANIRUDHYA MALAKAR**

for passing the course

**Ethics in Engineering Practice**

with Score\* **88** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

**Prof. Adrijit Goswami**

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Feb-Apr 2020  
(8 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20GE02S1909659

To  
RITWIK PAL  
207  
KETHARDANGA  
BANKURA  
WEST BENGAL - 722101  
PH. NO :6295511207



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

**RITWIK PAL**

for passing the course

**Ethics in Engineering Practice**

with Score\* **90** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

**Prof. Adrijit Goswami**

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Feb-Apr 2020  
(8 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20GE02S1930135

To  
SAYAN KONER  
N0021 JATHAL PARA  
ORGRAM  
BARDHAMAN  
WEST BENGAL - 713128  
PH. NO :8927791558



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

**SAYAN KONER**

for passing the course

**Ethics in Engineering Practice**

with Score\* **65** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

**Prof. Adrijit Goswami**

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Feb-Apr 2020  
(8 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20GE02S1968292

To  
MANISH PATHAK  
21, SHIV THAKUR LANE  
KOLKATA  
WEST BENGAL-700007  
PH. NO :9903125814



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

**MANISH PATHAK**

for passing the course

**Ethics in Engineering Practice**

with Score\* **90** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

Prof. Adrijit Goswami

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Feb-Apr 2020  
(8 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20GE09S1574016

To  
ARINDITA SAHA  
3A02 AKASHDEEP APARTMENT  
NONACHANDANPUKUR BARRACKPORE  
BARRACKPORE  
NORTH 24 PARGANAS  
WEST BENGAL - 700122  
PH. NO :9774451245



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

**ARINDITA SAHA**

for passing the course

**Fuzzy Logic and Neural Networks**

with Score\* **82** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

Prof. Adrijit Goswami

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Feb-Apr 2020  
(8 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20HS10S1036622

To  
DINANATH MISHRA  
BC.005.0319  
BUDHANATH  
BHAGALPUR  
BIHAR - 812001  
PH. NO :8434517104



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  
**DINANATH MISHRA**  
for passing the course

**Enhancing Soft Skills and Personality**

with Score\* **99** %



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

**Feb-Apr 2020**  
**(8 week course)**

**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



\*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: NPTEL20HS10S1100050

To  
ANKIT KUMAR DAS  
340,RAILWAY QTR.DANGAPARANEARKHUDIRAM  
BOSE INSTITUTE  
KANCHRAPARA  
NORTH 24 PARGANAS  
WEST BENGAL - 743145  
PH. NO :9674091379



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  
**ANKIT KUMAR DAS**  
for passing the course

**Enhancing Soft Skills and Personality**

with Score\* **58** %

Covid-19  
impacted  
January 2020  
semester

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

Feb-Apr 2020  
(8 week course)

**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



\*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: NPTEL20HS10S1221167

To  
ANKIT SHAW  
1021 NASKAR PARA ROAD  
GHUSURI  
HOWRAH  
WEST BENGAL - 711107  
PH. NO :9330509853



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

**ANKIT SHAW**

for passing the course

**Enhancing Soft Skills and Personality**

with Score\* **99** %

Covid-19  
impacted  
January 2020  
semester

**Prof. Rajesh M. Hegde**

Chairman, Centre for Continuing Education  
IIT Kanpur

Feb-Apr 2020  
(8 week course)

**Prof. Satyaki Roy**

NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



\*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: NPTEL20HS10S1285300

To  
KUSHAL DAWN  
218 BIHARI LAL PAUL STREET  
KOLKATA  
NORTH 24 PARGANAS  
WEST BENGAL - 700036  
PH. NO :8443008804



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

**KUSHAL DAWN**

for passing the course

**Enhancing Soft Skills and Personality**

with Score\* **79** %

Covid-19  
impacted  
January 2020  
semester

**Prof. Rajesh M. Hegde**

Chairman, Centre for Continuing Education  
IIT Kanpur

Feb-Apr 2020  
(8 week course)

**Prof. Satyaki Roy**

NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



\*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: NPTEL20HS10S1388408

To  
ARGHYA KHAN  
VILL+P.OPALASHAN, P.S RAINA, DISTPURBA  
BARDHAMAN  
PALASHAN  
BARDHAMAN  
WEST BENGAL - 713424  
PH. NO :8327079301



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

**ARGHYA KHAN**

for passing the course

**Enhancing Soft Skills and Personality**

with Score\* **99** %

**Covid-19  
impacted  
January 2020  
semester**

**Prof. Rajesh M. Hegde**

Chairman, Centre for Continuing Education  
IIT Kanpur

**Feb-Apr 2020**  
**(8 week course)**

**Prof. Satyaki Roy**

NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



\*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: NPTEL20HS10S1100050

To  
ANKIT KUMAR DAS  
340,RAILWAY QTR.DANGAPARANEARKHUDIRAM  
BOSE INSTITUTE  
KANCHRAPARA  
NORTH 24 PARGANAS  
WEST BENGAL - 743145  
PH. NO :9674091379



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  
**ANKIT KUMAR DAS**  
for passing the course

**Enhancing Soft Skills and Personality**

with Score\* **58** %

**Covid-19  
impacted  
January 2020  
semester**

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

**Feb-Apr 2020**  
**(8 week course)**

**Prof. Satyaki Roy**  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



\*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: NPTEL20HS10S1221167

To  
ANKIT SHAW  
1021 NASKAR PARA ROAD  
GHUSURI  
HOWRAH  
WEST BENGAL - 711107  
PH. NO :9330509853



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

**ANKIT SHAW**

for passing the course

**Enhancing Soft Skills and Personality**

with Score\* **99** %

Covid-19  
impacted  
January 2020  
semester

**Prof. Rajesh M. Hegde**

Chairman, Centre for Continuing Education  
IIT Kanpur

Feb-Apr 2020  
(8 week course)

**Prof. Satyaki Roy**

NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



\*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: NPTEL20HS10S1285300

To  
KUSHAL DAWN  
218 BIHARI LAL PAUL STREET  
KOLKATA  
NORTH 24 PARGANAS  
WEST BENGAL - 700036  
PH. NO :8443008804



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

**KUSHAL DAWN**

for passing the course

**Enhancing Soft Skills and Personality**

with Score\* **79** %

Covid-19  
impacted  
January 2020  
semester

**Prof. Rajesh M. Hegde**

Chairman, Centre for Continuing Education  
IIT Kanpur

Feb-Apr 2020  
(8 week course)

**Prof. Satyaki Roy**

NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



\*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: NPTEL20HS10S1388408

To  
ARGHYA KHAN  
VILL+P.OPALASHAN, P.S RAINA, DISTPURBA  
BARDHAMAN  
PALASHAN  
BARDHAMAN  
WEST BENGAL - 713424  
PH. NO :8327079301



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

**ARGHYA KHAN**

for passing the course

**Enhancing Soft Skills and Personality**

with Score\* **99** %

**Covid-19  
impacted  
January 2020  
semester**

**Prof. Rajesh M. Hegde**

Chairman, Centre for Continuing Education  
IIT Kanpur

**Feb-Apr 2020**  
**(8 week course)**

**Prof. Satyaki Roy**

NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



\*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: NPTEL20HS10S1393895

To  
SOUVIK SAHA  
54 M.M GHOSH ROAD, DUMDUM, KOLKATA  
700074  
KOLKATA  
NORTH 24 PARGANAS  
WEST BENGAL - 700074  
PH. NO :8420578510



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

**SOUVIK SAHA**

for passing the course

**Enhancing Soft Skills and Personality**

with Score\* **63** %

Covid-19  
impacted  
January 2020  
semester

**Prof. Rajesh M. Hegde**

Chairman, Centre for Continuing Education  
IIT Kanpur

Feb-Apr 2020  
(8 week course)

**Prof. Satyaki Roy**

NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



\*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: NPTEL20HS10S1401696

To  
SAYAK RANA  
VILL+P.O BENGAI , P.S GOGHAT  
BENGAI  
HOOGHLY  
WEST BENGAL - 712611  
PH. NO :8637804747



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

**SAYAK RANA**

for passing the course

**Enhancing Soft Skills and Personality**

with Score\* **95** %



**Prof. Rajesh M. Hegde**

Chairman, Centre for Continuing Education  
IIT Kanpur

**Feb-Apr 2020**  
**(8 week course)**

**Prof. Satyaki Roy**

NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



\*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: NPTEL20HS10S1408742

To  
JAYANTA PAUL  
40, RAMKRISHNA ASHRAM ROAD, P.O PANIHATI  
KOLKATA  
NORTH 24 PARGANAS  
WEST BENGAL - 700114  
PH. NO :8621029485



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

**JAYANTA PAUL**

for passing the course

**Enhancing Soft Skills and Personality**

with Score\* **74** %

Covid-19  
impacted  
January 2020  
semester

**Prof. Rajesh M. Hegde**

Chairman, Centre for Continuing Education  
IIT Kanpur

Feb-Apr 2020  
(8 week course)

**Prof. Satyaki Roy**

NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



\*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: NPTEL20HS10S1412253

To  
SOURAV KARMAKAR  
1, NARASINGHA LANE, AMHARST STREET  
KOLKATA  
WEST BENGAL-700009  
PH. NO :7278360033



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

**SOURAV KARMAKAR**

for passing the course

**Enhancing Soft Skills and Personality**

with Score\* **80** %

Covid-19  
impacted  
January 2020  
semester

**Prof. Rajesh M. Hegde**

Chairman, Centre for Continuing Education  
IIT Kanpur

Feb-Apr 2020  
(8 week course)

**Prof. Satyaki Roy**

NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



\*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: NPTEL20HS16S1173083

To  
MUKUL MANDAL  
NATUNKISHAN TOLA  
NATUNKISHAN TOLA  
MALDA  
WEST BENGAL - 732203  
PH. NO :7063842239



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

**MUKUL MANDAL**

for passing the course

**Soft Skill Development**

with Score\* **75** %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

**Prof. Adrijit Goswami**

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Jan-Mar 2020  
(8 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20HS16S1207197

To  
PROSHANTA MANDAL  
HIRANANDAPUR, MANIKCHAK, MALDA  
UTTAR NANDITOLA,  
MALDA  
WEST BENGAL - 732203  
PH. NO :8637882877



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  
**PROSHANTA MANDAL**  
for passing the course

**Soft Skill Development**

with Score\* **82** %



*A. Goswami*

**Prof. Adrijit Goswami**  
Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Jan-Mar 2020  
(8 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20HS29S1330611

To  
SOUVIK SAHA  
54 M.M GHOSH ROAD, DUMDUM, KOLKATA  
700074  
KOLKATA  
NORTH 24 PARGANAS  
WEST BENGAL - 700074  
PH. NO :8420578510



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

**SOUVIK SAHA**

for passing the course

**Introduction to Cognitive Psychology**

with Score\* **94** %

Covid-19  
impacted  
January 2020  
semester

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

Jan-Apr 2020  
(12 week course)



Indian Institute of Technology Guwahati



\*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: NPTEL20CS26S41810324

To  
ANKIT SHAW  
10/2/1 NASKAR PARA ROAD

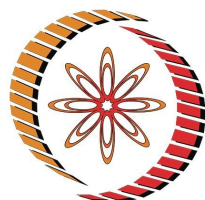
GHUSURI  
HOWRAH  
WEST BENGAL - 711107  
PH. NO :9330509853



| 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

**ANKIT SHAW**

for successfully completing the course

## Programming, Data Structures and Algorithms Using Python

with a consolidated score of **71** %

|                    |       |                  |       |                |          |
|--------------------|-------|------------------|-------|----------------|----------|
| Online Assignments | 25/25 | Programming Exam | 25/25 | Proctored Exam | 21.25/50 |
|--------------------|-------|------------------|-------|----------------|----------|

Total number of candidates certified in this course: **1579**

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

Jan-Mar 2020  
(8 week course)

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



Indian Institute of Technology Madras





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: NPTEL20GE02S81811793

To  
ANKIT SHAW  
10/2/1 NASKAR PARA ROAD

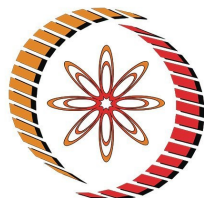
GHUSURI  
HOWRAH  
WEST BENGAL - 711107  
PH. NO :9330509853



| 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

**ANKIT SHAW**

for successfully completing the course

## Ethics in Engineering Practice

with a consolidated score of **60** %

|                    |          |                |         |
|--------------------|----------|----------------|---------|
| Online Assignments | 22.88/25 | Proctored Exam | 37.5/75 |
|--------------------|----------|----------------|---------|

Total number of candidates certified in this course: **1013**

A. Goswami

Prof. Adrijit Goswami

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Feb-Apr 2020  
(8 week course)



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: NPTEL20H510S1914517

To  
SOUVIK SARKAR  
140  
KAPSIT  
BANKURA  
WEST BENGAL - 722205  
PH. NO : 7001994571



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

**SOUVIK SARKAR**

for passing the course

**Enhancing Soft Skills and Personality**

with Score\* 76 %



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

Feb-Apr 2020  
(8 week course)

Prof. Satyaki Roy  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



\*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: NPTEL20CS22S1168538

To  
PINKY KUMARI RAJBHAR  
21H1 RUSTAM JEE PARSEE ROAD  
COSSIPORE, KOLKATA 700002  
KOLKATA  
WEST BENGAL - 700002  
PH. NO : 9681796100



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

**PINKY KUMARI RAJBHAR**

for passing the course

**Introduction to Internet of Things**

with Score\* 85 %

Covid-19  
impacted  
January 2020  
semester

A. Goswami

Prof. Adrijit Goswami

Dean, Continuing Education & NPTEL Coordinator  
IIT Kharagpur

Jan-Apr 2020  
(12 week course)



Indian Institute of Technology Kharagpur



\*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: NPTEL20HS2951330611

To  
SOUVIK SAHA  
54 M.M GHOSH ROAD, DUMDUM, KOLKATA  
700074  
KOLKATA  
NORTH 24 PARGANAS  
WEST BENGAL - 700074  
PH. NO :8420578510



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

**SOUVIK SAHA**

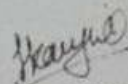
for passing the course

**Introduction to Cognitive Psychology**

with Score\* **94** %



Jan-Apr 2020  
(12 week course)

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



Indian Institute of Technology Guwahati



\*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: NPTEL20HS10S1393895

To  
SOUVIK SAHA  
54 M.M GHOSH ROAD, DUMDUM, KOLKATA  
700074  
KOLKATA  
NORTH 24 PARGANAS  
WEST BENGAL - 700074  
PH. NO :8420578510



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

**SOUVIK SAHA**

for passing the course

**Enhancing Soft Skills and Personality**

with Score\* 63 %



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

Feb-Apr 2020  
(8 week course)

Prof. Satyaki Roy  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



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

\*Continuous online assessment score

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: NPTEL20HS29S1274363

To  
NANDINI DAS  
132 KHAPRAIL BAZAR  
MIDNAPORE  
WEST BENGAL-721101  
PH. NO : 91 72344464



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

**NANDINI DAS**

for passing the course

**Introduction to Cognitive Psychology**

with Score\* 98 %

Covid-19  
Impacted  
January 2020  
semester

Jan-Apr 2020

(12 week course)

Prof. Hemant B Kaushik

Head, Centre for Educational Technology  
& NPTEL Coordinator  
IIT Guwahati



Indian Institute of Technology Guwahati

swayam

\*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/>

To Roll No: NPTEL20H51051199633  
NANDINI DAS  
132 KHAPRAH BAZAR  
MIDNAPORE  
WEST BENGAL-721101  
PH. NO :7872944464



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 IIR, Govt. of India)



This certificate is awarded to

**NANDINI DAS**

for passing the course

**Enhancing Soft Skills and Personality**

with Score\* 79 %



Prof. Rajnish M. Hingde  
Chairman, Centre for Continuing Education  
IIT Kanpur

Feb-Apr 2020  
(8 week course)

Prof. Satyaki Roy  
NPTEL Coord. IITK  
01.04.2020



Indian Institute of Technology Kanpur



\*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: NPTEL19EE51S41650148

To  
NANDINI DAS  
132 KHAPRAIL BAZAR  
MIDNAPORE  
WEST BENGAL  
721101  
PH. NO :7872944464



| 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  
**NANDINI DAS**  
for successfully completing the course  
**Digital Circuits**

with a consolidated score of **52** %

|                    |          |                |         |
|--------------------|----------|----------------|---------|
| Online Assignments | 20.03/25 | Proctored Exam | 31.5/75 |
|--------------------|----------|----------------|---------|

Total number of candidates verified in this course: 2864

Jul-Oct 2019  
(12 week course)

*A. Goswami*  
Prof. Adrijit Goswami  
Dean, Continuing Education & NPTEL, Coordinator  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL19EE51S41650148

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





6 Courses

Digital Transformations

Business Analytics and Digital Media

Accounting and Finance for IT professionals

IT Project Management

Leadership and Emotional Intelligence

Capstone Project: Business Technology Management



Jun 12, 2020

**Ankit Shaw**

has successfully completed the online, non-credit Specialization

# Business Technology Management

Products and business models in today's competitive environment are increasingly being transformed by technology. This new digital economy places IT at the center of firm strategy and operations, and requires a new breed of IT managers and leaders who can examine technology through a business lens. The Business Technology Management specialization empowers you with knowledge of the IT domain, management, leadership and team building skills, and functional and analysis skills. These skills are critical to leveraging technology to create competitive advantage.

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Ramnarayan Subramaniam  
Clinical Professor |  
Organisational Behaviour  
Business Technology Management

Business Technology Management

Business Technology Management

Business Technology Management

Ramabhadran Thirumalai  
Assistant Professor  
Indian School of Business

Verify this certificate at:  
[coursera.org/verify/specialization/9RML8QAZD5RG](https://coursera.org/verify/specialization/9RML8QAZD5RG)



5 Courses

**Technical Support  
Fundamentals**

**The Bits and Bytes of  
Computer Networking**

**Operating Systems and You:  
Becoming a Power User**

**System Administration and  
IT Infrastructure Services**

**IT Security: Defense against  
the digital dark arts**



May 25, 2020

**Ankit Shaw**

has successfully completed the online, non-credit Professional Certificate

## Google IT Support

Those who earn the Google IT Support Professional Certificate have completed five-courses, developed by Google, that include hands-on, practice-based assessments and are designed to prepare them for entry-level roles in IT support. They are competent in foundational skills, including troubleshooting and customer service, networking, operating systems, system administration, and security.

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Verify this certificate at:  
[coursera.org/verify/professional-  
cert/M34YW7D6CQAT](https://coursera.org/verify/professional-cert/M34YW7D6CQAT)