

1.2.1 Number of Add on /Certificate programs offered during the last five years

1.2.2 Percentage of students enrolled in Certificate /Add-on/ Value added programs as against the total number of students during the last five years

Year - 2021-22						
Name of Add on /Certificate programs offered	Course Code (if any)	Year of offering	No. of times offered during the same year	Duration of course	Number of students enrolled in the year	Number of Students completing the course in the year
Building Information Modelling	NA	2021-2022	1	30 hrs	14	14
NPTEL & Coursera Courses	NA	2021-2022	one/two	1/2/3/4/5/7/8/12/23/24 weeks	21(NPTEL)+63 (Coursera)= 84	21 (NPTEL)+ 63 (Coursera)=84
Machine Learning with Python	NA	2021-2022	1	40hrs	32	32
Year - 2020-21						
Name of Add on /Certificate programs offered	Course Code (if any)	Year of offering	No. of times offered during the same year	Duration of course	Number of students enrolled in the year	Number of Students completing the course in the year
NPTEL	NA	2020-2021	1	8/12 weeks	31	31
Online Aptitude Training in association with NSIC	NA	2020-2021	1	6 days	42	42
Year - 2019-20						
Name of Add on /Certificate programs offered	Course Code (if any)	Year of offering	No. of times offered during the same year	Duration of course	Number of students enrolled in the year	Number of Students completing the course in the year
Introduction to Revit & Etabs Software	NA	2019-20	1	1 day	22	22
Group Discussion Seminar	NA	2019-20	1	3 day	110	110
Year - 2018-19						
Name of Add on /Certificate programs offered	Course Code (if any)	Year of offering	No. of times offered during the same year	Duration of course	Number of students enrolled in the year	Number of Students completing the course in the year
ETABS Software	NA	2018-19	1	6 days	20	20



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Uluberia, Howrah, West Bengal-711316

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Prof. (Dr.) Kalyan Kumar Mukherjee
Director

TO WHOMSOEVER IT MAY CONCERN

This is to certify that total Number of Add on /Certificate/Value added programs offered during the last five years is 8

Sl. No.	Academic Year	Number
1	2021-22	3
2	2020-21	2
3	2019-20	2
4	2018-19	1
5	2017-18	-

Year 2021-22			
Sl. No.	Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year
1	Building Information Modelling	30 hrs	14
2	NPTEL & Coursera Courses	1/2/3/4/5/7/8/12/23/24 weeks	21 (NPTEL)+ 63 (Coursera)=84
3	Machine Learning with Python	40hrs	32
Year 2020-21			
Sl. No.	Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year
1	NPTEL	8/12 weeks	31
2	Online Aptitude Training in association with NSIC	6 days	42
Year 2019-20			
Sl. No.	Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year
1	Introduction to Revit & Etabs Software	1 day	22
2	Group Discussion Seminar	3 days	110
Year 2018-19			
Sl. No.	Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year
1	ETABS Software	6 days	20



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Add on /Certificate/Value added programs offered during 2021-22

Year 2021-22			
Sl. No.	Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year
1	Building Information Modelling	30 hrs	14
2	NPTEL & Coursera Courses	1/2/3/4/5/7/8/12/23/24 weeks	21 (NPTEL)+ 63 (Coursera)=84
3	Machine Learning with Python	40hrs	32



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Building Information Modelling

Course Title-“Building Information Modelling” in collaboration with Basak Associates

Duration-30 hrs

Course Start Date-22th April, 2022

Course End Date-6th May, 2022

Mode- Hybrid (10 Hrs offline, 20 Hrs Online)

Number of Students Enrolled- 14

Number of Students Passed- 14

Instructor- Mr. Subhajit Basak

Assessment -Minimum 80% attendance & Project completion

BEM WORKSHOP

List of students

SL No	Name	Year	Signature
1	Ankush Samanta	4th	Ankush Samanta.
2	Debojyoti Ghosh	4th	Debojyoti Ghosh
3	Koushik Sen	4th	Koushik Sen.
4	Md Sahazad Alam	4th	Md. Alam.
5	Swarnendu Patra	4th	Swarnendu Patra
6	Bodhisattwa Mahata	3rd	Bodhisattwa Mahata
7	Mousumi Manna	3rd	Mousumi Manna.
8	Palden Gurung	3rd	Palden Gurung.
9	Samphel Moktan	3rd	Samphel Moktan.
10	Sayan Das	2nd	Sayan Das.
11	Sayan Roy	2nd	Sayan Roy
12	Subhankar Samanta	2nd	Subhankar Samanta
13	Sujata Mandi	2nd	Sujata Mandi
14	Suman Gayen	2nd	Suman Gayen.

COURSE DETAILS

5D-BIM (30 HRS.)

INTRODUCTION TO 5D-BIM

**INTRODUCTION TO REVIT
ARCHITECTURE AND STRUCTURE**

**MODELING G+1 BUILDING WITH
HELP OF REVIT**

INTRODUCTION NAVIS-WORKS

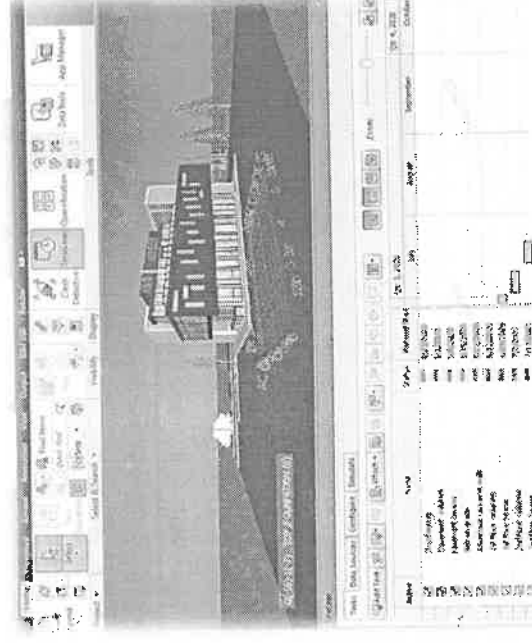
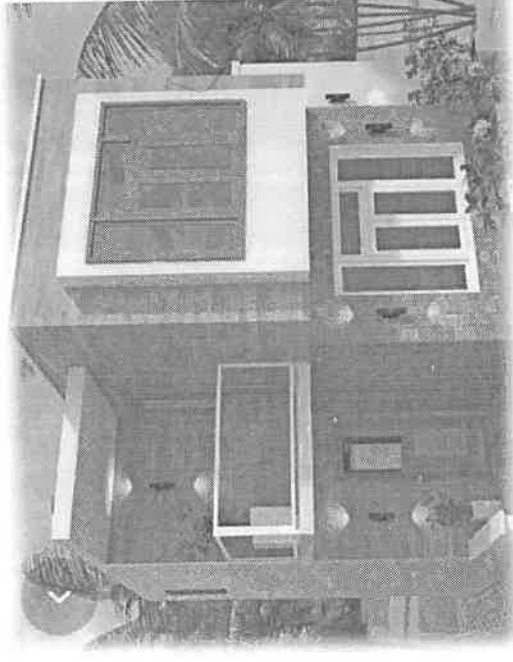
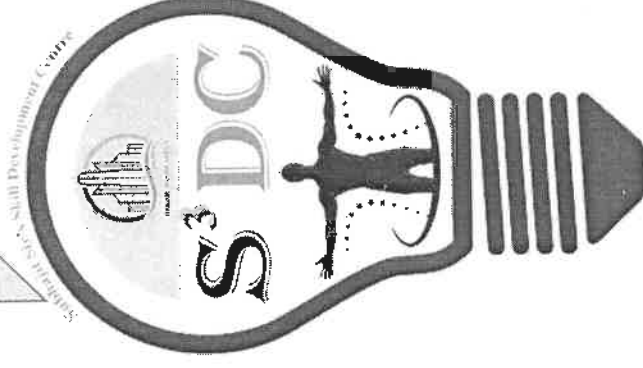
REVIEW THE MODEL

CLASH DETECTION

TIMELINEAR

QUANTIFICATION

RENDERING





OMDAYAL GROUP OF INSTITUTIONS

ENGINEERING COLLEGE | ARCHITECTURE COLLEGE | VOCATIONAL DIPLOMA COLLEGE

Uluberia – 711316 (Howrah) West Bengal, India

AICTE & COA APPROVED, NAAC ACCREDITED AND MAKAUT (WBUT) & WBSCTVESD AFFILIATED INSTITUTION

Workshop on 5D BIM

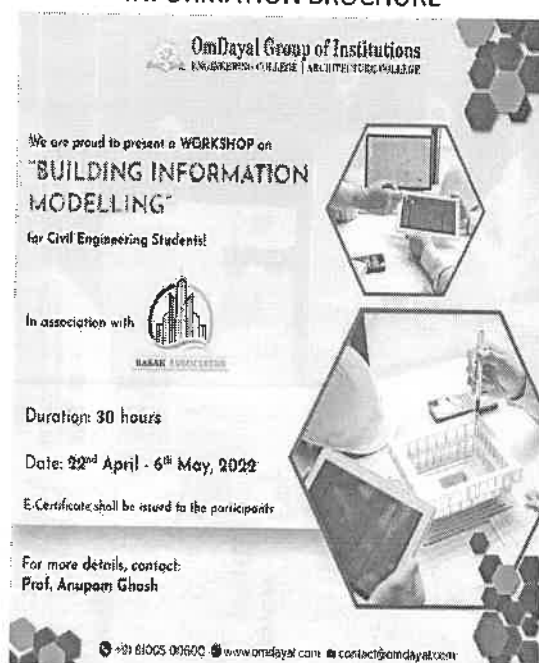
Organized by Department of Civil Engineering

Date of event: 22nd April, 2022- 6th May, 2022

Mode: Hybrid (10 Hrs offline, 20 Hrs Online)

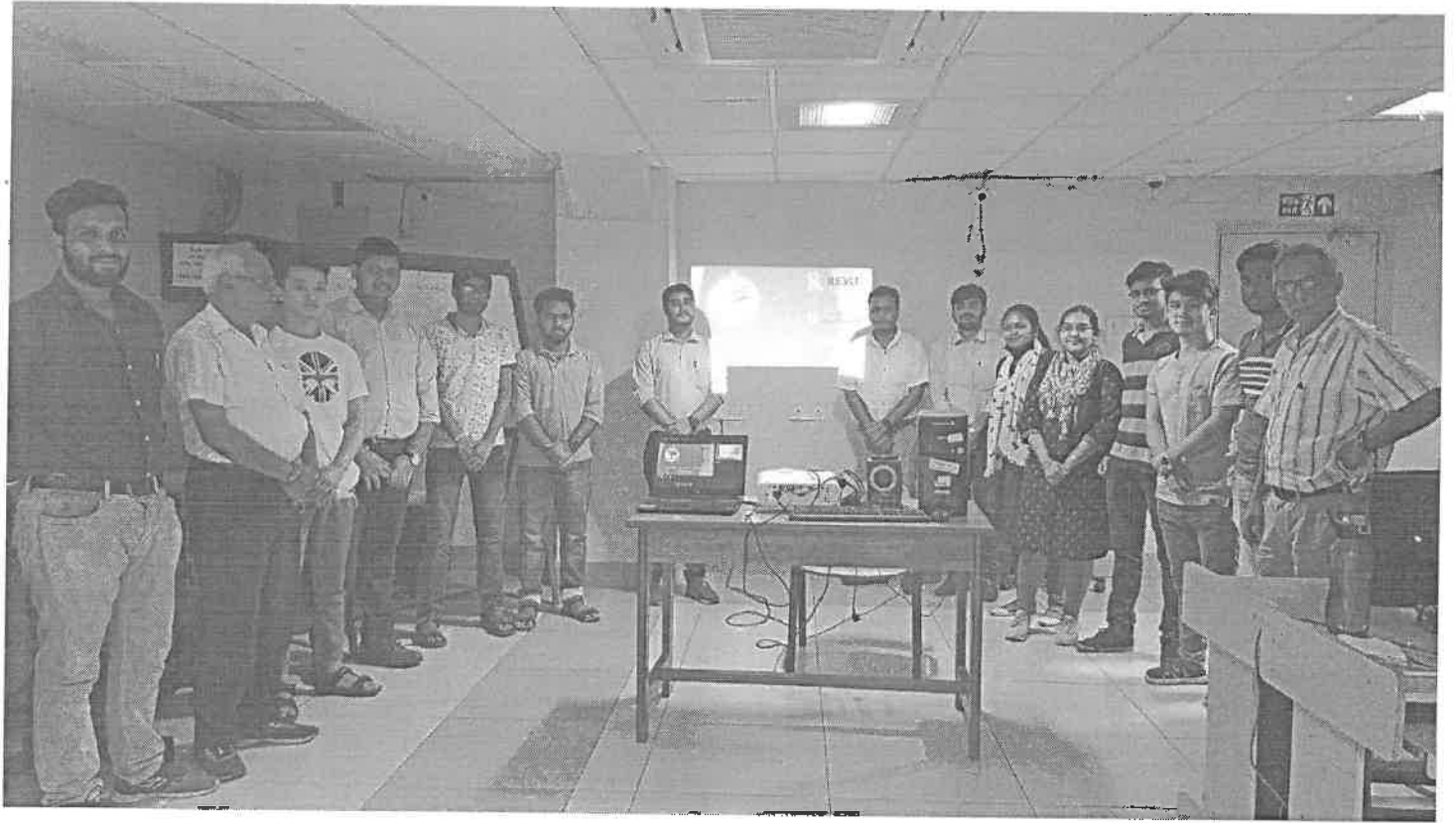
In collaboration with Basak Associates

INFORMATION BROCHURE



Summary:

A 30 Hrs Workshop on “5D BIM” was successfully organized with 14 participants from 22nd April, 2022 to 6th May, 2022. The workshop is conducted in hybrid mode- 10 Hrs offline classes and 20 Hrs online classes. It was organized with the collaboration of Basak Associates. Students from 3rd year and 4th year have participated in this workshop. The aim of the workshop was to provide knowledge about building information modeling software and provide handwork experience of real project.





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Objectives

- Describe building information modeling methodology and its benefits.
- Use different parts of the Revit Architecture user interface and work with different types of architectural elements and families.
- Use the different views listed in the Project Browser, control the visibility and graphical
- Representation of objects in architecture model, and work with elevation, section, and 3D views.
- Set up a project and transfer standards between projects, add and modify levels in project model, create and modify grids.
- Work with architectural components:
 - Grids and Levels
 - Wall
 - Floors
 - Roof
 - Ceiling
 - Staircase
 - Railing
 - Revit Model Family
- Work with documentation components:
 - Text
 - Tag
 - Titleblock
 - Room
 - Colourfill
 - Schedules
- Work with detail views, add 3D and 2D elements and detail components.
- Work with sheets and title blocks, print sheets, and export Revit architecture content to CAD formats.

Outcomes

The Revit Architecture by Autodesk is one of the most popular and efficient Building Information Modeling tool. Courtesy the ease-of-use, architects, engineers, structural engineers, designers, and even contractors are inclining towards this BIM tool for their buildings' architectural and designing needs. It not only helps the students in the building industry for designing and architecting a building structure and its components but also in accessing the building information from the database. It enables smooth operations by enabling the students related to the project to collaborate and access the information from their own end. It also helps the people in tracking the various stages of the architectural process and the design construction.

Revit Architecture has certainly offered a consistent and coordinated model-based approach to construct a building as per the design ideas. But that's not all. There are a number of other learning outcomes that people have after taking a Revit Architecture Course in Abu Dhabi or any other country of the world for that matter. Let's have a look at some of these outcomes.



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Develop Accurate Architectural Designs

Revit Architecture is a popular BIM tool that enables the architects to design and create accurate and high-quality architectural designs and their components in 3D and 2D drafting elements. The models created using the Autodesk Revit Architecture are highly accurate and precise which let you create well-planned and precisely executed building structures.

Set Up Levels, Grids & Views

After taking the Revit Architecture course, the architects or design engineers learn how to set up levels and grids and even create views for cost-effective and energy-efficient design creation of the building. Architects can use this feature to create design models that are superbly precise and strictly as per the design ideas.

Manage The Construction Documentation

Revit Architecture course also enables the architects, engineers, and designers to manage the construction documentation in a much efficient manner. People can access information from the building design database at any point in time and keep a tab on the documentation process related to the construction of the building structure as per the designs.

Scan Revit Models For Collisions

One of the key learning outcomes that you after taking the Revit Architecture course is that you learn how to scan the Revit models for any type of collisions or any signs of collisions in the building even before its construction.

Perform Building Element Energy Analysis

In order to create an energy-efficient building, it is important to perform a building element energy analysis. Revit Architecture enables its users to do this task with efficiency and ease. The model and its component and elements can be analyzed through various perspectives to create a more energy-efficient building.

BTM WORKSHOP

Attendance Sheet

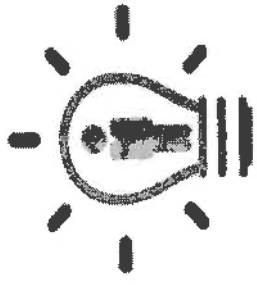
SL No	Date	Name	Year	Signature
1	06/05/2022	Ankush Samanta	4th	Ankush Samanta
2	06/05/2022	Debojyoti Ghosh	4th	Debojyoti Ghosh
3	06/05/2022	Koushik Sen	4th	Koushik Sen
4	06/05/2022	Md Sahazad Alam	4th	Md Alam
5	06/05/2022	Swarnendu Patra	4th	Swarnendu Patra
6	06/05/2022	Bodhisattwa Mahata	3rd	Bodhisattwa Mahata
7	06/05/2022	Mousumi Manna	3rd	Mousumi Manna
8	06/05/2022	Palden Gurung	3rd	Palden Gurung
9	06/05/2022	Samphel Moktan	3rd	Samphel Moktan
10	06/05/2022	Sayan Das	2nd	Sayan Das
11	06/05/2022	Sayan Roy	2nd	Sayan Roy
12	06/05/2022	Subhankar Samanta	2nd	Subhankar Samanta
13	06/05/2022	Sujata Mandi	2nd	Sujata Mandi
14	06/05/2022	Suman Gayen	2nd	Suman Gayen

BIM WORKSHOP

Attendance Sheet

SL No	Date	Name	Year	Signature
1	22/04/2022	Ankush Samanta	4th	Ankush Samanta
2	22/04/2022	Debojyoti Ghosh	4th	Debojyoti Ghosh
3	22/04/2022	Koushik Sen	4th	Koushik Sen
4	22/04/2022	Md Sahazad Alam	4th	Md. Alam
5	22/04/2022	Swarnendu Patra	4th	Swarnendu Patra
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12	22/04/2022	Subhankar Samanta	2nd	Subhankar Samanta
13	22/04/2022	Sujata Mandi	2nd	Sujata Mandi
14	22/04/2022	Suman Gayen	2nd	Suman Gayen

Workshop Participation Certificate



*This is to certify that **PALDEN GURUNG** has successfully completed the 5D - BIM Workshop Course from 22nd April to 6th May, 2022 organised by OmDayal Group of Institutions in association with Basak Associates, Haridevpur, Kolkata - 7000008 (W.B.)*

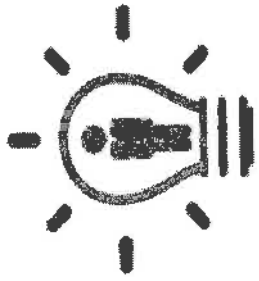
BASAK ASSOCIATES

Subhojit Basak

Proprietary Signature

Date : 10-05-2022

Workshop Participation Certificate



*This is to certify that **SAYAN DAS** has successfully completed the 5D - BIM Workshop Course from 22nd April to 6th May, 2022 organised by OmDayal Group of Institutions in association with Basak Associates, Haridevpur, Kolkata - 7000008 (W.B.)*

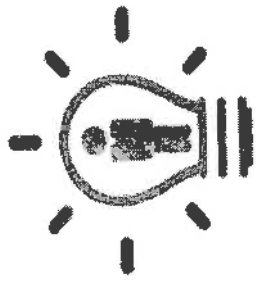
BASAK ASSOCIATES

Subhojit B. Das

Proprietary Signature

Date : 10-05-2022

Workshop Participation Certificate



This is to certify that **ANKUSH SAMANTA** has successfully completed the 5D - BIM Workshop Course from 22nd April to 6th May, 2022 organised by OmDayal Group of Institutions in association with Basak Associates, Haridevpur, Kolkata - 7000008 (W.B.)

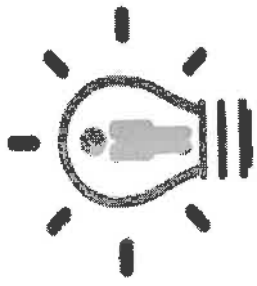
BASAK ASSOCIATES

Subhojit Basak

Proprietary Signature

Date : 10-05-2022

Workshop Participation Certificate



This is to certify that **DEBOJYOTI GHOSH** has successfully completed the 5D - BIM Workshop Course from 22nd April to 6th May, 2022 organised by OmDayal Group of Institutions in association with Basak Associates, Haridwarpur, Kolkata - 7000008 (W.B.)

BASAK ASSOCIATES

Subhojit Basak

Proprietary Signature

Date : 10-05-2022



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NPTEL Courses (2021-22)



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Student Enrollment Details

SL. No.	Name of Add on /Certificate Programs Offered	Duration of Course	Name of the student	Department	Number of Students Enrolled in the Year
1	Ethics in Engineering Practice	8 weeks (Aug 2021-Oct 2021)	Abranal Das Biswas	CSE	10
			AnubhabSantra		
			Ayon Das		
			Subham Agarwal		
			Tania Hazra		
			Shivam Jha		
			Manjira Das		
			Rahul Shaw		
			PayelPramanik		
			Pinaki Shashi Sekhar Mathan		
2	Sustainable Transportation System	12 weeks (July 2021- Oct 2021)	Debojyoti Ghosh	CE	2
			Koushik Sen		
3	Entrepreneurship	12 weeks (July 2021- Oct 2021)	Akash Kumar	ME	1
4	Enhancing Soft Skills and Personality	8 weeks (Feb 2022-April 2022)	Amit Patra	CSE	5
			Aniket Paul		
			ShuvrojitGolui		
			SkDilsadHossen		
			ShnehaPolley		
5	Cloud Computing	12 weeks (Jan 2022-April 2022)	Pinaki Shashi Sekhar Mathan	CSE	1
6	Water Supply Engineering	12 weeks (Jan 2022-April 2022)	Snehasis Mondal	CE	1
7	Groundwater Hydrology and Management	12 weeks (Jan 2022-April 2022)	Mousumi Manna	CE	1

[\(https://swayam.gov.in/\)](https://swayam.gov.in/) [\(https://swayam.gov.in/nc_details/NPTEL\)](https://swayam.gov.in/nc_details/NPTEL)

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Ethics in Engineering Practice

By Prof. Susmita Mukhopadhyay | IIT Kharagpur

Learners enrolled: 4704

Ethics in Engineering Practice by Prof Susmita Mukhopadh...



Engineering as a profession is meant to serve the public by strictly adhering to codes of conduct and placing paramount the health, safety and welfare of public. However it raises few conflicting questions like : who is the public? Does it include future generation? Who decides what is best for public? Do engineers have managerial and technical responsibilities? What is the acceptable risk? Do Engineers have responsibilities towards the environment also? Engineering ethics is the study of moral issues and decisions confronting individuals and organizations engaged in engineering and the study of related questions about the moral ideals, character, policies and relationships of people and corporations involved in technological activity. To prepare students for their professional responsibilities as Engineers. To help them recognize and think through ethically significant problem situations that are common in Engineering and to evaluate the existing ethical standards for ENGINEERING Practice.

INTENDED AUDIENCE : Any interested student**PREREQUISITES** : Basic understanding of business management**INDUSTRY SUPPORT** : Being ethical is an integral part of being a good engineer. So this course will have strong industry support.

Summary


[\(https://swayam.gov.in/\)](https://swayam.gov.in/)

 [\(https://swayam.gov.in/nc_details/NPTEL\)](https://swayam.gov.in/nc_details/NPTEL)

Course Status : **Completed** | [About Swayam \(https://swayam.gov.in/about\)](https://swayam.gov.in/about) | [All Courses](#) | **0**

Course Type : Elective

Duration : 8 weeks

Start Date : 23 Aug 2021

End Date : 15 Oct 2021

Exam Date : 23 Oct 2021 IST

Enrollment Ends : 30 Aug 2021

Category :

- Management Studies
- Faculty Domain - Advanced
- Faculty Domain - Fundamental

Credit Points : 2

Level : Undergraduate/Postgraduate

This is an AICTE approved FDP course

[\(/#facebook\)](#)

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[\(/#linkedin\)](#)

[\(/#whatsapp\)](#)

[\(https://www.addtoany.com/share#url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc21_mg60%2Fpreview&title=Ethics%20in%20Engineering%20Practice%20-%20Course\)](https://www.addtoany.com/share#url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc21_mg60%2Fpreview&title=Ethics%20in%20Engineering%20Practice%20-%20Course)

Course layout

Week 1 : Introduction to Ethical Reasoning and Engineer Ethics

Week 2 : Professional Practice in Engineering

Week 3 : Ethics as Design - Doing Justice to Moral Problems

Week 4 : Central Professional Responsibilities of Engineers

Week 5 : Computers, Software, and Digital Information

Week 6 : Rights and Responsibilities Regarding Intellectual Property

Week 7 : Workplace Rights and Responsibilities

Week 8 : Responsibility for the Environment



Books and ref


[\(https://swayam.gov.in/\)](https://swayam.gov.in/)

 [\(https://swayam.gov.in/noc_details/NPTEL\)](https://swayam.gov.in/noc_details/NPTEL)

Ethics in Engineering practice and Research (2nd Edition) by Caroline Whitbeck Cambridge
 About Swayam (<https://swayam.gov.in/about>) | All Courses |
 Ethics in Engineering MW Martin and R Schinzinger MC Graw Hill
 Engineering a

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Instructor bio



Prof. Susmita Mukhopadhyay

IIT Kharagpur

SusmitaMukhopadhyay, Associate Professor, VGSOM (Ph.D., Calcutta University, Fellow ISI, Kolkata)

Susmita Mukhopadhyay's areas of specialization include Human Resource Management and Industrial Psychology, Business Values and Ethics, and Organizational Behaviour. A gold medalist in M.Sc., she is the recipient of the Young Scientist Award and Search of Excellence Award. She was selected for the Microfinance Researchers Alliance Fellow Program Centre for microfinance, Institute of Financial Management and Research, Chennai, in 2009.

Course certificate

The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.

The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).

Date and Time of Exams: **23 October 2021** Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.

Registration url: Announcements will be made when the registration form is open for registrations.

The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.

Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

CRITERIA TO GET A CERTIFICATE

Average assignment score = 25% of average of best 6 assignments out of the total 8 assignments given in the course.

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

Final score = Average assignment score + Exam score

YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE $\geq 10/25$ AND EXAM SCORE $\geq 30/75$. If one of the 2 criteria is not met, you will not get the certificate even if the Final score $\geq 40/100$.

Certificate will have your name, photograph and the score in the final exam with the breakup. It will have the logos of NPTEL and IIT Kharagpur. It will be e-verifiable at nptel.ac.in/noc (<http://nptel.ac.in/noc>).

Only the e-certificate will be made available. Hard copies will not be dispatched.



Roll No: NPTEL21MG60523830781

TO
ABHRANIL DAS BISWAS
OASIS RESIDENCY, I.E. JALTAJHATI,
PO. BANGKURA, PS. BANGKURA SADAR
BANGKURA
WEST BENGAL - 722101
PH. NO. 9002633767



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 fit on the actual student effort involved.



NPTEL Online Certification

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



This certificate is awarded to

ABHRANIL DAS BISWAS

for successfully completing the course

Ethics in Engineering Practice

with a consolidated score of **50** %

Online Assignments	17.33/25	Proctored Exam	33/75
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Total number of candidates certified in this course: 1029

Signature

Abhranil

Roll No: NPTEL21MG60S23830828

To
ANUBHAB SANTRA
VILL JORNABARI PO PRIPUR
PS ULUBERIA
HOWRAH
WEST BENGAL - 711303
PH. NO. 7044583336



Score	Type of Certificate
>=80	Elite+Gold
75-80	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
ANUBHAB SANTRA
for successfully completing the course

Ethics in Engineering Practice

with a consolidated score of **54** %

Online Assignments	19.46/25	Proctored Exam	34.5/75
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Total number of candidates certified in this course: 1029

Signature

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: NPTEL21MG60523830972

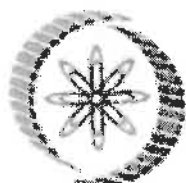
To
AYON DAS
CHANDIPUR, KHURIGACHI, SHYAMPUR, HOWRAH,
CHANDIPUR, KHURIGACHI, SHYAMPUR, HOWRAH
58 GATES
WEST BENGAL - 711315
PH. NO : 7044021273



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

AYON DAS


for successfully completing the course

Ethics in Engineering Practice

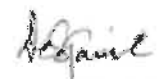
with a consolidated score of **53** %

Online Assignments	22.92/25	Proctored Exam	30/75
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Total number of candidates certified in this course: 1029


Prof. G P Raja Sekhar
Deputy Continuing Education
IIT Kharagpur

Aug-Oct 2021
(8 week course)


Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL21MG60523830972

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: NPTEL21MG60S23831020

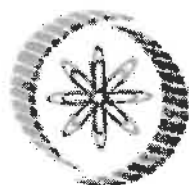
To
SUBHAM AGARWAL
34, BHAIKAR DUTTA LANE
NANDI BAGAN
SALKIA
WEST BENGAL - 711106
PH. NO. 9433214282



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
SUBHAM AGARWAL
for successfully completing the course

Ethics in Engineering Practice

with a consolidated score of **55** %

Online Assignments	14.96/25	Proctored Exam	40.5/75
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Total number of candidates certified in this course: 1029

Prof. G P Raja Sekhar
Deen. Continuing Education
IIT Kharagpur

Aug-Oct 2021
(8 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL21MG60S23831020

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: NPTEL21MG60S23831052

To
TANIA HAZRA
METAL, AMTA, HOWRAH
WEST BENGAL - 711401
PH. NO. 9297269773



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

TANIA HAZRA


for successfully completing the course

Ethics in Engineering Practice


with a consolidated score of **63** %

Online Assignments	22.92/25	Proctored Exam	40.5/75
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Total number of candidates certified in this course: 1029


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

Aug-Oct 2021
(8 week course)


Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL21MG60S23831052

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: NPTEL21MG60S23831084

To
SHIVAM JHA
SANTINAGAR NEAR MARINUS DAY SCHOOL
PO. D.S. LANE
HOWRAH
WEST BENGAL - 711109
PH. NO. 7655027396



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

SHIVAM JHA


for successfully completing the course

Ethics in Engineering Practice


with a consolidated score of **53** %

Online Assignments	18.25/25	Proctored Exam	34.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: 1029


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

Aug-Oct 2021
(8 week course)


Prof. Dasjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL21MG60S23831084

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: NPTEL21MG60S23831228

To
MANJIRA DAS
ANDUL PURBAPARA (BAJBARI)
ANDUL MOURI
HOWRAH
WEST BENGAL - 711302
PH. NO. 8902255512



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

MANJIRA DAS

for successfully completing the course

Ethics in Engineering Practice

with a consolidated score of **48** %

Online Assignments	18.25/25	Proctored Exam	30/75
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Total number of candidates certified in this course: 1029


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

Aug-Oct 2021
(8 week course)


Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL21MG60S23831228

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: NPTEL21MG60S23831276

To
RAHUL SHAW
11/11 NEM CHAKRABORTY LANE HOWRAH-1
WEST BENGAL - 711101
PH. NO :6296741412



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

RAHUL SHAW

for successfully completing the course

Ethics in Engineering Practice

with a consolidated score of **60** %

Online Assignments	17.38/25	Proctored Exam	43/75
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Total number of candidates certified in this course: 1029

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

Aug-Oct 2021
(8 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL,
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL21MG60S23831276

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: NPTEL21MG60523831340

To
PAYEL PRAMANICK
CHAKKASHI 2ND COLONY
WEST BENGAL - 711307
PIN NO: 5290682045



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

PAYEL PRAMANICK


for successfully completing the course

Ethics in Engineering Practice


with a consolidated score of **54** %

Online Assignments	20.75/25	Proctored Exam	33/75
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Total number of candidates certified in this course: 1029


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

Aug-Oct 2021
(8 week course)


Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL21MG60523831340

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: NPTEL21MG60523831356

To
PINAKI SHASHISHEKHAR MATHAN
T/51, MURPARA ROAD, LILUAN
JALAMATH
HOWRAH
WEST BENGAL - 711203
PH. NO. 9007401551



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

PINAKI SHASHISHEKHAR MATHAN


for successfully completing the course

Ethics in Engineering Practice


with a consolidated score of **60** %

Online Assignments	24.17/25	Proctored Exam	36/75
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Total number of candidates certified in this course: 1029


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

Aug-Oct 2021
(8 week course)


Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL21MG60523831356

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

[\(https://swayam.gov.in/\)](https://swayam.gov.in/) [\(https://swayam.gov.in/nc_details/NPTEL\)](https://swayam.gov.in/nc_details/NPTEL)

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Sustainable Transportation Systems

By Prof. Bhola Ram Gurjar | IIT Roorkee

Learners enrolled: 1464

Promo of Sustainable Transportation Systems



The objective of the course is to impart knowledge and skills of environmental issues related to transportation systems, concept of sustainability and related issues. The course includes the various environmental aspects of mass rapid transportation systems, air quality management through transportation planning in mega cities and current case studies regarding the same.

INTENDED AUDIENCE : PG/Pre-PhD (UG Students, Professionals and Policy Makers can also attend)

INDUSTRY SUPPORT : Automobile, road and transportation related other industries may find this course informative.

Summary

Course Status :

Completed

Course Type :

Elective

Duration :

12 weeks



Start Date :



26 Jul 2021
(<https://swayam.gov.in/>)
15 Oct 2021



(https://swayam.gov.in/nc_details/NPTEL)

End Date :

Exam Date :

About Swayam (<https://swayam.gov.in/About/2021/Courses>) |

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Enrollment Ends :

09 Aug 2021

Category :

• Civil Engineering

Credit Points :

3

Level :

Postgraduate

This is an AICTE approved FDP course

(/#facebook)

(/#twitter)

(/#email)

(/#linkedin)

(/#whatsapp)

(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc21_ce74%2Fpreview&title=Sustainable%20Transportation%20Systems%20-%20Course)

Course layout

Week 1: Introduction to Environmental Impact Assessment (EIA) and Transportation systems

Week 2: Land-use plans, zoning schemes and provisions

Week 3: Urban and regional transport planning

Week 4: Impacts on humans, flora and fauna, soil, water, air, climate and landscape

Week 5: Establishment of baseline conditions w.r.t soil, water and air quality

Week 6: Noise, air and water pollution modelling

Week 7: Modelling of impacts and scenario-based analysis

Week 8: Assessment of potential project impacts including indirect, cumulative and synergistic impacts

Week 9: Decision support systems for EIA of transport infrastructures

Week 10: Abatement measures

Week 11: Sustainable transportation systems

Week 12: Case studies of highway, railway and airport projects, OpenLCA tool for life Cycle Assessment, STAN for material flow analysis

Books and references

1. Assessment & Decision Making for Sustainable Transport, European Conference of Ministers of Transport, OECD Publishing 2004.
2. Wood, C. and Wood, C., "Environmental Impact Assessment: A Comparative Review", Prentice Hall. 2002.
3. Petts, J., "Handbook of Environmental Impact Assessment", Blackwell Publishing. 1999.
4. Sucharov, L.J. and Baldasano, J.M., "Urban Transport and the Environment, Vol. II", Computational Mechanics Publications. 1996.
5. Zannetti P. (Ed.), "Environmental Modeling, Vol. I", Computational Mechanics Publication, Elsevier Applied Science. 1993.



Instructor bio


[\(https://swayam.gov.in/\)](https://swayam.gov.in/)

 [\(https://swayam.gov.in/noc_details/NPTEL\)](https://swayam.gov.in/noc_details/NPTEL)
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**Prof. Bhola Ram Gurjar**

IIT Roorkee

Dr. Bhola Ram Gurjar holds a PhD in the area of Environmental Risk Analysis from India's premier technological institution I.I.T. Delhi followed by Postdoctoral research at the Max Planck Institute for Chemistry (MPIC) in Mainz, Germany. He is a Professor of Environmental Engineering in Civil Engineering Department and a Joint Faculty in Centre of Excellence for Sustainable Transportation Systems (CTRANS) at I.I.T. Roorkee. He has been Dean of Resources and Alumni Affairs (DORA) from June 2017 - April 2021 and Head of CTRANS from February 2015 - February 2018 at IIT Roorkee. He has also headed the Max Planck Partner Group for Megacities & Global Change at IIT Roorkee from 2006-2011. Prof. Gurjar has about 30 years' progressive professional experience in industry, teaching, training, research, and consultancy. He is among the leading academics and researchers who have worked extensively in the area of environmental science and engineering specially focused on air and water pollution, and environmental quality and health risk assessment, which is reflected in his several highly cited research papers published on these themes. His present research interests include megacities; air and water pollution; environmental impact and risk assessment; atmospheric emissions and climate change; Biofuels and their emissions, and integrated cross-disciplinary study of science and policy issues of the environment, health, energy, economy, technology, infrastructure and resources – particularly from the global change, sustainable development and risk governance perspectives.

Course certificate

The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.

The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).

Date and Time of Exams: **23 October 2021** Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.

Registration url: Announcements will be made when the registration form is open for registrations.

The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.

Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

CRITERIA TO GET A CERTIFICATE

Average assignment score = 25% of average of best 8 assignments out of the total 12 assignments given in the course.

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

Final score = Average assignment score + Exam score

YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE $\geq 10/25$ AND EXAM SCORE $\geq 30/75$. If one of the 2 criteria is not met, you will not get the certificate even if the Final score $\geq 40/100$.

Certificate will have your name, photograph and the score in the final exam with the breakup. It will have the logos of NPTEL and IIT Roorkee. It will be e-verifiable at nptel.ac.in/noc (<http://nptel.ac.in/noc>).

Only the e-certificate will be made available. Hard copies will not be dispatched.



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: NPTEL21CE74S13830286

To
DEBOJYOTI GHOSH
VILLAGE POST-JHOREHAT, P.S.-SANKRAIL
DIST-HOWRAH
HOWRAH
WEST BENGAL - 711302
PH. NO : 9289543051



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
DEBOJYOTI GHOSH
for successfully completing the course

Sustainable Transportation Systems

with a consolidated score of **68** %

Online Assignments	22.44/25	Proctored Exam	45.75/75
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Total number of candidates certified in this course: 179

Vinil

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

Jul-Oct 2021
(12 week course)

Prof. Priiti Maheshwari

Prof. Priiti Maheshwari
NPTEL Coordinator
IIT Roorkee



Indian Institute of Technology Roorkee



Roll No: NPTEL21CE74S13830286

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: NPTEL21CE74S23590080

To
KOUSHIK SEN
KANTALDAHA, SHYAMPUR, HOWRAH, PIN 711312
MONSATALA, FULESWAR
HOWRAH
HOWRAH - 711316
PH. NO : 919775724125

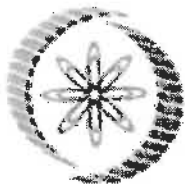


Score	Type of Certificate
≥ 90	Elite+Gold
75-89	Elite+Silver
≥ 60	Elite
40-59	Successfully Completed
< 40	No Certificate

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

KOUSHIK SEN


for successfully completing the course

Sustainable Transportation Systems


with a consolidated score of **64** %

Online Assignments	22.78/25	Proctored Exam	41.25/75
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Total number of candidates certified in this course: 179


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

Jul-Oct 2021
(12 week course)


Prof. Priit Maheshwari
NPTEL Coordinator
IIT Roorkee



Indian Institute of Technology Roorkee



Roll No: NPTEL21CE74S23590080

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

[\(https://swayam.gov.in/\)](https://swayam.gov.in/) [\(https://swayam.gov.in/nc_details/NPTEL\)](https://swayam.gov.in/nc_details/NPTEL)

X

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Entrepreneurship

By Prof. C Bhaktavatsala Rao | IIT Madras

Learners enrolled: 11566

Entrepreneurship _ Introductory video



This course provides a detailed overview of entrepreneurship as the foundation of business growth and value creation in the national economy. It provides multiple constructs for entrepreneurs to be successful, and pathways for their companies to achieve sustainable growth. Each week/module of the course will cover one specific theme/topic with conceptual perspectives as well as practical examples.

Upon successful completion of the course, the student will gain an expansive and deep appreciation of entrepreneurship, and its pivotal role in the economy. The student or aspiring entrepreneur will be able to approach entrepreneurship with

clarity and for nced understanding of the key success factors as well as possible risks and potential mitigation strategies. (https://swayam.gov.in/) be able to navigate and cope with the challenges of entrepreneurs more effectively with the additional insights available.

About Swayam (https://swayam.gov.in/about) | All Courses |

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INTENDED AUDIENCE : Newly graduating UG and PG students, including MBA students; employed professionals seeking to set up their own enterprises; entrepreneurs and start-up founders seeking additional perspectives.

PREREQUISITES : No special pre-requisites except that the participants must be preferably in the Third or Fourth Year of UG.

INDUSTRY SUPPORT : Start-ups may give weightage to this course

Summary

Course Status :	Completed
Course Type :	Core
Duration :	12 weeks
Start Date :	26 Jul 2021
End Date :	15 Oct 2021
Exam Date :	24 Oct 2021 IST
Enrollment Ends :	09 Aug 2021
Category :	<ul style="list-style-type: none"> Management Studies Faculty Domain - Advanced
Credit Points :	3
Level :	Undergraduate/Postgraduate

This is an AICTE approved FDP course

(/facebook) (/twitter) (/email) (/linkedin) (/whatsapp)

(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc21_mg70%2Fpreview&title=Entrepreneurship%20-%20Course)



Course k


[\(https://swayam.gov.in/\)](https://swayam.gov.in/)

 [\(https://swayam.gov.in/nc_details/NPTEL\)](https://swayam.gov.in/nc_details/NPTEL)

The course structure and content covers, over a period of 12 weeks, the following 15 modules.
[About Swayam \(https://swayam.gov.in/about\)](https://swayam.gov.in/about) | [All Courses](#) |

0

- Module 1:** Entrepreneurial Journey
- Module 2:** Entrepreneurial Discovery
- Module 3:** Ideation and Prototyping
- Module 4:** Testing, Validation and Commercialisation
- Module 5:** Disruption as a Success Driver
- Module 6:** Technological Innovation and Entrepreneurship – 1
- Module 7:** Technological Innovation and Entrepreneurship – 2
- Module 8:** Raising Financial Resources
- Module 9:** Education and Entrepreneurship
- Module 10:** Beyond Founders and Founder-Families
- Module 11:** India as a Start-up Nation
- Module 12:** National Entrepreneurial Culture
- Module 13:** Entrepreneurial Thermodynamics
- Module 14:** Entrepreneurship and Employment
- Module 15:** Start-up Case Studies

Books and references

1. Zero to One: Notes on Startups, or How the Build the Future by Peter Thiel
2. The Lean Startup: How Today's Entrepreneurs Use Continuous Innovation to Create Radically Successful Businesses by Eric Ries
3. India as Global Start-up Hub: Mission with Passion by C B Rao
4. Elon Musk: Tesla, SpaceX, and the Quest for a Fantastic Future by Ashlee Vance
5. Steve Jobs by Walter Isaacson
6. Innovation and Entrepreneurship: Practice and Principles by Peter F Drucker
7. The Innovator's Solution: Creating and Sustaining Successful Growth by Clayton M Christensen

Note: My book "India as Global Start-up Hub" contains an extensive bibliography. I will be happy to provide Top 20 Reference citations as part of course support

Instructor bio





Prof. C Bhaktavatsala Rao

(https://swayam.gov.in/)

IIT Madras



(https://swayam.gov.in/nc_details/NPTEL)

Dr. C. Bhaktavatsala Rao received his Ph.D. Degree in Industrial Management and M. Tech. Degree in Industrial Engineering from the Indian Institute of Technology Madras, Chennai. He received his B.E. Degree in Mechanical Engineering from Sri Venkateswara University, Tirupati.

Dr. C. B. Rao has over forty-four years of diversified experience in strategic and operational leadership of large reputed companies, including global multi-national corporations, in India. Dr. Rao is a prolific writer with over one hundred and thirty publications in economic and business dailies and refereed journals. He has authored and published seven books under his LeaderCrest banner over the last thirty six months.

Dr. C. B. Rao is currently Dr. Ajit Singhvi Chair Professor in Department of Management Studies at the Indian Institute of Technology Madras, Chennai. Dr. Rao also supports select global and Indian corporations as Senior Advisor.

Course certificate

The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.

The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).

Date and Time of Exams: **24 October 2021** Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.

Registration url: Announcements will be made when the registration form is open for registrations.

The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.

Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

CRITERIA TO GET A CERTIFICATE

Average assignment score = 25% of average of best 8 assignments out of the total 12 assignments given in the course.

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

Final score = Average assignment score + Exam score

YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE $\geq 10/25$ AND EXAM SCORE $\geq 30/75$. If one of the 2 criteria is not met, you will not get the certificate even if the Final score $\geq 40/100$.

Certificate will have your name, photograph and the score in the final exam with the breakup. It will have the logos of NPTEL and IIT Madras. It will be e-verifiable at nptel.ac.in/noc (<http://nptel.ac.in/noc>).

Only the e-certificate will be made available. Hard copies will not be dispatched.

Once again, thanks for your interest in our online courses and certification. Happy learning.



Roll No: NPTEL21MG70S33400011

To

AKASH KUMAR

ARKHANGO, DHANWAR, GIRIDIH, JHARKHAND 825418

193 ANDUL ROAD, BL-CG-16 4TH FL, HOWRAH

HOWRAH

WESTBENGAL - 711109

PH. NO : 7366978726



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 KUMAR

for successfully completing the course

Entrepreneurship

with a consolidated score of **56** %

Online Assignments	20.94/25	Proctored Exam	35.25/75
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Total number of candidates certified in this course: **1468**



(<https://swayam.gov.in/>)



(https://swayam.gov.in/nc_details/NPTEL)

X

About Swayam (<https://swayam.gov.in/about>) | All Courses | SIGN-IN / REGISTER 0

Courses (<https://swayam.gov.in/explorer>) >

Enhancing Soft Skills and Personality

By Prof. T. Ravichandran | IIT Kanpur

Learners enrolled: 44059

noc19-hs22-Enhancing Soft Skills and Personality



The course aims to cause an enhanced awareness about the significance of soft skills in professional and inter-personal communications and facilitate an all-round development of personality. Hard or technical skills help securing a basic position in one's life and career. But only soft skills can ensure a person retain it, climb further, reach a pinnacle, achieve excellence, and derive fulfilment and supreme joy. Soft skills comprise pleasant and appealing personality traits as self-confidence, positive attitude, emotional intelligence, social grace, flexibility, friendliness and effective communication skills. The focus of this course is on interpersonal and management skills. It has been approved for "Faculty Development Programme (https://nptel.ac.in/AICTE_FDP/)" by AICTE.

INTENDED AUDIENCE : Students, Teachers, Professionals, Trainers, Leaders, Employers

PREREQUISITES : No prerequisite is required. Background knowledge of MOOC Course on "Developing Soft Skills and Personality" is preferred. "Developing Soft Skills and Personality" course was also recognized as FDP during Aug-Oct'18 Period.

INDUSTRY SUPPORT : All industry/companies/organisations will recognize and value this course and recommend this for their employees and trainee programs

Summary

Course Status :



Completed
(<https://swayam.gov.in/>)
Elective



(https://swayam.gov.in/nc_details/NPTEL)

Course Type :

Duration :

About Swayam (<https://swayam.gov.in/about>) | All Courses |

0

Start Date :

21 Feb 2022

End Date :

15 Apr 2022

Exam Date :

24 Apr 2022 IST

Enrollment Ends :

21 Feb 2022

Category :

• Humanities and Social Sciences

Credit Points :

2

Level :

Undergraduate/Postgraduate

This is an AICTE approved FDP course

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([/#twitter](#))

([/#email](#))

([/#linkedin](#))

([/#whatsapp](#))

(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc22_hs08%2Fpreview&title=Enhancing%20Soft%20Skills%20and%20Personality%20-%20Course)

Course layout

Week 1 :

- Highlights of Developing Soft Skills and Personality Course-1-24
- Highlights of Developing Soft Skills and Personality Course-25-48
- Definitions and Types of Mindset
- Learning Mindsets
- Secrets of Developing Growth Mindsets

Week 2 :

- Importance of Time and Understanding Perceptions of Time
- Using Time Efficiently
- Understanding Procrastination
- Overcoming Procrastination
- Don't Say "Yes" to Make Others Happy!

Week 3 :

- Types of People
- How to Say "No"
- Controlling Anger
- Gaining Power from Positive Thinking-1
- Gaining Power from Positive Thinking-2

Week 4 :

- What Makes Others Dislike You?

- What Makes Others Like Us
 - What Makes Others Love Us
 - Being Attractive-1
 - Being Attractive-2
- About Swayam (<https://swayam.gov.in/about>) | All Courses | 0



(<https://swayam.gov.in/>)



(https://swayam.gov.in/nc_details/NPTEL)

Week 5 :

- Common Errors-1
- Common Errors-2
- Common Errors-3
- Common Errors-4
- Common Errors-5

Week 6 :

- Humour in Communication
- Humour in the Workplace
- Function of Humour in the Workplace
- Money and Personality
- Managing Money

Week 7 :

- Health and Personality
- Managing Health-1: Importance of Exercise
- Managing Health-2: Diet and Sleep
- Love and Personality
- Managing Love

Week 8 :

- Ethics and Etiquette
- Business Etiquette
- Managing Mind and Memory
- Improving Memory
- Care for Environment
- Highlights of the Course

Books and references

- Dorch, Patricia. What Are Soft Skills? New York: Execu Dress Publisher, 2013.
- Kamin, Maxine. Soft Skills Revolution: A Guide for Connecting with Compassion for Trainers, Teams, and Leaders. Washington, DC: Pfeiffer & Company, 2013.
- Klaus, Peggy, Jane Rohman & Molly Hamaker. The Hard Truth about Soft Skills. London: HarperCollins E-books, 2007.
- Petes S. J., Francis. Soft Skills and Professional Communication. New Delhi: Tata McGraw-Hill Education, 2011.
- Stein, Steven J. & Howard E. Book. The EQ Edge: Emotional Intelligence and Your Success. Canada: Wiley & Sons, 2006.

Instructor bio



Prof. T. Ravichandran

IIT Kanpur

Dr. T. RAVICHANDRAN is Professor of English in the Department of Humanities and Social Sciences at the Indian Institute of Technology Kanpur, Uttar Pradesh, India. He is a recipient of the Fulbright-Nehru Academic and Professional Excellence Fellowship (2014-15) for his research/teaching at Duke University, North Carolina, USA. He is honored with Champa Devi Gangwal Chair Professorship at IIT Kanpur. In his distinguished twenty-five years of teaching career, he has taught various courses in English Language and Literature. His NPTEL Video and Web courses on Communication Skills are well-acclaimed nationally and internationally. His NPTEL MOOC on Developing Soft Skills and Personality became hugely popular and well-received by about fifteen thousand participants from India and abroad.

Course certificate

The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.

The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).

Date and Time of Exams: **24 April 2022** Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.

Registration url: Announcements will be made when the registration form is open for registrations.

The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.

Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

CRITERIA TO GET A CERTIFICATE

Average assignment score = 25% of average of best 6 assignments out of the total 8 assignments given in the course.

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

Final score = Average assignment score + Exam score

YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE $\geq 10/25$ AND EXAM SCORE $\geq 30/75$. If one of the 2 criteria is not met, you will not get the certificate even if the Final score $\geq 40/100$.

Certificate will have your name, photograph and the score in the final exam with the breakup. It will have the logos of NPTEL and IIT Kanpur. It will be e-verifiable at npTEL.ac.in/noc (<http://npTEL.ac.in/noc>).

Only the e-certificate will be made available. Hard copies will not be dispatched.

Once again, thanks for your interest in our online courses and certification. Happy learning.

- NPTEL team

APPRECIATIONS AND COMMENTS BY THE CURRENT AND PREVIOUS BATCH STUDENTS:

I wish to convey a heartfelt thank you for the wonderful course on enhancing soft skills and personality. It is a blessing especially to people who are about to start their careers. They could be saved from committing many mistakes that could actually ruin their lives. I greatly appreciate the tremendous and sincere efforts that have been put in to design this course and make it available for all. Sir, you are very gentle in your speech and I have been looking forward each day to learning something new from you. I admire the way you explain with so many examples and quotes. It was a great learning experience for me. Thank you so much!- **Manali Mehta**

This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22HS08S33701126

To
AMIT PATRA
TALKUR, DISTRICT - PASCHIM MEDINIPUR
PO - ABASH
MEDINIPUR
WEST BENGAL - 721102
PIN NO - 9883263996



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 MoE, Govt. of India)



This certificate is awarded to

AMIT PATRA

for successfully completing the course

Enhancing Soft Skills and Personality

with a consolidated score of **69** %

Online Assignments	22.75/25	Proctored Exam	46.21/75
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Total number of candidates certified in this course: 9994

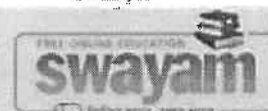
Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Feb-Apr 2022
(8 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL22HS08S33701126

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.

Roll No: NPTEL22HS08533700201

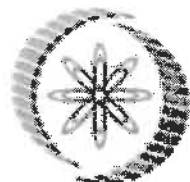
To
ANIKET PAUL
PODRAH, SIBTOLA
WEST BENGAL - 711109
PH. NO. 9290966717



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 MoE, Govt. of India)



This certificate is awarded to

ANIKET PAUL

for successfully completing the course

Enhancing Soft Skills and Personality

with a consolidated score of **66** %

Online Assignments	22.75/25	Proctored Exam	43.45/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 9994

Pathish

Prof. B. V. Halish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Feb-Apr 2022
(8 week course)

Satyaki Roy

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL22HS08533700201

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.

Roll No: NPTEL22HS08S43702791

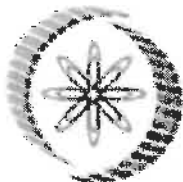
To
SHUVROJIT GOLUI
DAKSHIN MAJU, MAJU, HOWRAH WEST BENGAL
WEST BENGAL - 711141
PH. NO. 6296401791



Score	Type of Certificate
>=90	Elite+Gold
75-89	Elite+Silver
>=80	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 MoE, Govt. of India)



This certificate is awarded to

SHUVROJIT GOLUI

for successfully completing the course

Enhancing Soft Skills and Personality

with a consolidated score of **52** %

Online Assignments	21.5/25	Proctored Exam	30/75
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Total number of candidates certified in this course: 9994

Ratish

Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Feb-Apr 2022
(8 week course)

Satyaki

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL22HS08S43702791

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.

Roll No: NPTEL22HS08543702825

To
SK DILSAD HOSSEN
MACHAL, GORINDAPUR SHIBTALA, J.B PUR
WEST BENGAL - 711414
PH. NO : 7076482945



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 MoE, Govt. of India)



This certificate is awarded to

SK DILSAD HOSSEN

for successfully completing the course

Enhancing Soft Skills and Personality

with a consolidated score of **53** %

Online Assignments	22.21/25	Proctored Exam	30.8/75
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Total number of candidates certified in this course: 9994

Pathish

Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Feb-Apr 2022
(8 Week course)

Satyaki Roy

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL22HS08543702825

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.

Roll No: NPTEL22HS08S43702736

To
SHNEHA POLLEY
MAJUKSHETRA, PANPUR, HOWRAH
WEST BENGAL - 711401
PH. NO :8944073813



Score	Type of Certificate
≥ 90	Elite+Gold
75-89	Elite+Silver
≥ 80	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 MoE, Govt. of India)



This certificate is awarded to

SHNEHA POLLEY

for successfully completing the course

Enhancing Soft Skills and Personality

with a consolidated score of **56** %

Online Assignments	22.54/25	Proctored Exam	33.65/75
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Total number of candidates certified in this course: 9994

Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Feb-Apr 2022
(8 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL22HS08S43702736

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



(<https://swayam.gov.in/>)



(https://swayam.gov.in/nc_details/NPTEL)

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Courses (<https://swayam.gov.in/explorer>) >

Cloud computing

By Prof. Soumya Kanti Ghosh | IIT Kharagpur

Learners enrolled: 31202

Prof S K Ghosh



Cloud computing is a scalable services consumption and delivery platform that provides on-demand computing service for shared pool of resources, namely servers, storage, networking, software, database, applications etc., over the Internet. It is a model for enabling ubiquitous, on-demand access to a shared pool of configurable computing resources, which can be rapidly provisioned and released with minimal management effort. This course will introduce various aspects of cloud computing, including fundamentals, management issues, security challenges and future research trends. This will help students (both UG and PG levels) and researchers to use and explore the cloud computing platforms.

Summary

Course Status :	Completed
Course Type :	Elective
Duration :	12 weeks
Start Date :	24 Jan 2022
End Date :	15 Apr 2022
Exam Date :	24 Apr 2022 IST
Enrollment Ends :	07 Feb 2022
Category :	<ul style="list-style-type: none">◦ Computer Science and Engineering◦ Systems◦ Programming
Credit Points :	3
Level :	Undergraduate

This is an AICTE approved FDP course

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(/twitter)

(/email)

(/linkedin)

(/whatsapp)

(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc22_cs20%2Fpreview&title=Cloud%20computing%20-%20Course)

Course layout

Week 1: Introduction to Cloud Computing

Week 2: Cloud Computing Architecture

Week 3: Service Cloud Computing

Week 4: Data (https://swayam.gov.in/)



(https://swayam.gov.in/nc_details/NPTEL)

Week 5: Resource management in Cloud

Week 6: Cloud Security About Swayam (https://swayam.gov.in/about) | All Courses |

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Week 7: Open Source and Commercial Clouds, Cloud Simulator

Week 8: Research trend in Cloud Computing, Fog Computing

Week 9: VM Resource Allocation, Management and Monitoring

Week 10: Cloud-Fog-Edge enabled Analytics

Week 11: Serverless Computing and FaaS Model

Week 12: Case Studies and Recent Advancements

Books and references

1. Cloud Computing: Principles and Paradigms, Editors: Rajkumar Buyya, James Broberg, Andrzej M. Goscinski, Wiley, 2011
2. Enterprise Cloud Computing - Technology, Architecture, Applications, Gautam Shroff, Cambridge University Press, 2010
3. Cloud Computing Bible, Barrie Sosinsky, Wiley-India, 2010
4. Cloud Security: A Comprehensive Guide to Secure Cloud Computing, Ronald L. Krutz, Russell Dean Vines, Wiley- India, 2010

Instructor bio



Prof. Soumya Kanti Ghosh

IIT Kharagpur

Prof. Soumya K. Ghosh received the Ph.D. and M.Tech. degrees from Department of Computer Science and Engineering, Indian Institute of Technology (IIT), Kharagpur, India. Presently, he is a Professor with Department of Computer Science and Engineering, IIT Kharagpur. Before joining IIT Kharagpur, he worked for the Indian Space Research Organization in the area of satellite remote sensing and geographic information systems. He has more than 200 research papers in reputed journals and conference proceedings. His research interests include spatial data science, spatial web services and cloud computing.

Course certificate

The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.

The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).

Date and Time of Exams: **24 April 2022** Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.

Registration url: Announcements will be made when the registration form is open for registrations.

This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22CS20S33650125
To
PINAKI SHASHISHEKHAR MATHAN
1/51, MIRPURA ROAD, SILIGU
JALPAIGU
HOWRAH
WEST BENGAL - 711203
PH. NO. : 9007401551



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 MoE, Govt. of India)



This certificate is awarded to

PINAKI SHASHISHEKHAR MATHAN

for successfully completing the course

Cloud Computing

with a consolidated score of **67** %

Online Assignments	23.53/25	Proctored Exam	43.75/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 4701

Prof. Jayarita Mukhopadhyay
Dean Outreach
IIT Kharagpur

Jan-Apr 2022
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL22CS20S33650125

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



(<https://swayam.gov.in/>)



(https://swayam.gov.in/nc_details/NPTEL)

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Courses (<https://swayam.gov.in/explorer>) >

Water Supply Engineering

By Prof. Manoj Kumar Tiwari | IIT Kharagpur

Learners enrolled: 2051

Intro ,Water Supply Engineering



Water supply schemes are a basic necessity of every town/city. With growing concerns over managing urban water demands along with resource sustainability, concept of efficient and smart urban water supply systems is progressively getting more pertinent. Incorporating sustainable design and operation principles based on innovative water technologies such as cost-effective treatment solutions, automated supervisory controls, leakage detection and control etc. into water supply systems improves water supply from sustainable perspectives. This course aims to discuss the technical aspects of modern systems for drinking water treatment and distribution in an integrated way. The course will cover topics from traditional aspects of demand calculations and source selections to the up-to-date treatment methods, network design tools etc. The course will also provide insight to smart water supply systems including automation, leakage detection. The financial sustainability of water supply systems and sustainable water pricing models will also be covered.

INTENDED AUDIENCE : Environmental Engineering / Water Engineering / Urban Planning / Architecture / Infrastructure
Specializations in Environmental Engineering / Water Engineering / Urban Planning / Architecture / Infrastructure

PREREQUISITES : Nil
About Swayam (<https://swayam.gov.in/about>) | All Courses |

INDUSTRY SUPPORT : Municipal Corporations and Jal Boards of various cities Public Health Engineering Departments Companies working in water management sector, such as TCE, L&T, JUSCO, CH2MHill, Veolia Water, Phonix, WABAG, Vulture Innovations, Wipro Infra etc.

Summary

Course Status :	Completed
Course Type :	Elective
Duration :	12 weeks
Start Date :	24 Jan 2022
End Date :	15 Apr 2022
Exam Date :	24 Apr 2022 IST
Enrollment Ends :	07 Feb 2022
Category :	<ul style="list-style-type: none">Civil Engineering
Credit Points :	3
Level :	Undergraduate/Postgraduate

This is an AICTE approved FDP course

([/facebook](#))

([/twitter](#))

([/email](#))

([/linkedin](#))

([/whatsapp](#))

(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc22_ce07%2Fpreview&title=Water%20Supply%20Engineering%20-%20Course)

Course layout

Week 1 : Introduction: General outline of water supply; Water availability and uses; Temporal and spatial distribution; Key issues and concerns; Features and elements of a water distribution systems

Week 2 : Water Demand: Concept of water demand; Estimation of water demand; Factors affecting demand; Components of demand; Demand fluctuations; Demand forecasting; Population forecasting methods



Prof. Manoj Kumar Tiwari

(<https://swayam.gov.in/>)



(https://swayam.gov.in/nc_details/NPTEL)

Dr. Manoj Kumar Tiwari [Ph.D. (IIT Kanpur)] is a civil engg. graduate with specialization in environmental engg. and holds expertise in water and wastewater treatment, water distribution systems, water pricing, and contaminant fate and transport. He is a recipient of prestigious Fulbright Fellowship. Dr. Tiwari has co-authored several papers in apex international journals, and has presented his research in various top ranked conferences across the globe. Dr. Tiwari has over 8 years of teaching experience with both UG as well as PG level course. He has designed several new courses at IIT Kharagpur for Masters programme in Water Engineering and Management. He has delivered several invited lectures at various organizations, and has also conducted short-term course under Technical Education Quality Improvement Programme (TEQIP) with participants ranging from Faculties and Ph.D. students from NITs to field professionals working in government organizations as well as private companies.

Course certificate

The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.

The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).

Date and Time of Exams: **24 April 2022** Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.

Registration url: Announcements will be made when the registration form is open for registrations.

The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.

Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

CRITERIA TO GET A CERTIFICATE

Average assignment score = 25% of average of best 8 assignments out of the total 12 assignments given in the course.

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

Final score = Average assignment score + Exam score

YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE $\geq 10/25$ AND EXAM SCORE $\geq 30/75$. If one of the 2 criteria is not met, you will not get the certificate even if the Final score $\geq 40/100$.

Certificate will have your name, photograph and the score in the final exam with the breakup. It will have the logos of NPTEL and IIT Kharagpur. It will be e-verifiable at nptel.ac.in/noc (<http://nptel.ac.in/noc>).

Only the e-certificate will be made available. Hard copies will not be dispatched.

Once again, thanks for your interest in our online courses and certification. Happy learning.

- NPTEL team

This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22CE07S43020127

To
SNEHASIS MONDAL
VIII + PO - GOBINDAPUR
PS - SHYAMPUR
HOWRAH
WEST BENGAL - 711314
PH. NO. 9901794156



Score	Type of Certificate
≥ 80	Elite+Gold
75-80	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 MoE, Govt. of India)



This certificate is awarded to
SNEHASIS MONDAL
for successfully completing the course

Water Supply Engineering

with a consolidated score of **55** %

Online Assignments	20.5/25	Proctored Exam	34.5/75
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Total number of candidates certified in this course: 94

Prof. Jayanta Mukhopadhyay
Dean Outreach
IIT Kharagpur

Jan-Apr 2022
(12 week course)

Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL22CE07S43020127

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



(<https://swayam.gov.in/>)



(https://swayam.gov.in/nc_details/NPTEL)

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About Swayam (<https://swayam.gov.in/about>) | All Courses | SIGN-IN / REGISTER ()

Courses (<https://swayam.gov.in/explorer>) >

Groundwater hydrology and management

By Prof. Pennan Chinnasamy | IIT Bombay

Learners enrolled: 1359

Course Introduction - Groundwater Hydrology and Management



Groundwater is the most important water resource that aids during climate change extremes (floods and droughts). Groundwater has also been the key factor for increase in cropped area, rotation and profit for farmers. However, the groundwater science is not well understood and hence it is depleted at alarming rates. India is the highest extractor of groundwater in the world and it is necessary to understand groundwater hydrology to better work in water resources management activities.

PRE-REQUISITE: Nil

INTENDED AUDIENCE: Students in Civil Engineering, Rural Development, Earth Science, Geology and Rural development departments. Development, Earth Science, Geology and Rural development departments.

Summary

Course Status :	Completed
Course Type :	Elective
Duration :	12 weeks

Start Date :

End Date :

Exam Date :

Enrollment Ends :

Category :

Credit Points :

Level :



(<https://swayam.gov.in/>)
24 Jan 2022
15 Apr 2022



(https://swayam.gov.in/nc_details/NPTEL)

About Swayam (<https://swayam.gov.in/>) 24 Jan 2022 15 Apr 2022

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07 Feb 2022

- Civil Engineering
- Environment

3

Undergraduate

This is an AICTE approved FDP course

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([/#whatsapp](#))

(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnc22_ce44%2Fpreview&title=Groundwater%20hydrology%20and%20management%20-%20Course)

Course layout

Week 1: Introduction to Groundwater.

Week 2: International importance of groundwater and focus groundwater use in India.

Week 3: Physics and hydrology of Groundwater.

Week 4: Groundwater governing equations 1 (unconfined aquifer).

Week 5: Groundwater governing equations 2 (confined aquifer).

Week 6: Groundwater recharge and discharge.

Week 7: Types of groundwater wells and pumping sources.

Week 8: Groundwater well types and energy sources.

Week 9: Aquifer stratification and groundwater data.

Week 10: Groundwater data access in India.

Week 11: Groundwater databases and Conceptual model.

Week 12: Groundwater Models.

Books and references

- 1) Freeze P.A., Cherry J. 1979 Groundwater. Prentice-Hall
- 2) Ward, R.C and Robinson. M. 1967. Principles of Hydrology. Tata McGraw Hill
- 3) Dingman, S.L. and Dingman, S.L. 2015. Physical hydrology (Vol. 575). Upper Saddle River, NJ: Prentice Hall.
- 4) Viessman, W., Lewis, G.L. and Knapp, J.W. 2003. Introduction to hydrology (No. GB 661.2. V53 1972.). Upper Saddle River, NJ: Prentice Hall.
- 5) Fetter, C.W. 2018. Applied hydrogeology. Waveland Press.
- 6) Field notes from instructor
- 7) Raghunath H.M. 2006. Hydrology: principles, analysis and design

Instructor bio



(<https://swayam.gov.in/>)



(https://swayam.gov.in/nc_details/NPTEL)

About Swayam (<https://swayam.gov.in/about>) | All Courses |

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Prof. Pennan Chinnasamy

IIT Bombay

Pennan Chinnasamy obtained his Masters degree in Physics from Wesleyan University, Connecticut - US, followed by a doctoral degree, with focus on hydrology, from University of Missouri, US. After his Research fellow position with Ashoka Trust for Research in Ecology and the Environment (ATREE), he joined the International Water Management Institute (IWMI) as a Researcher (Geohydrology and Remote Sensing), and was stationed in Nepal and Indian offices, where he focused on climate change impacts on under developed and developing nations. He then joined Nanyang Technological University, Singapore, as a Senior Researcher developing real time flood predicting models for Singapore. He is currently an Assistant Professor with Indian Institute of Technology, Bombay - India, under the Centre for Technology Alternatives for Rural Areas (CTARA) department, where his work primarily focuses on natural resources assessment, monitoring and management in rural regions. He is the founding director of the Rural Data Research and Analysis (RuDRA) lab, which is the first Big data lab for rural regions, housed in an academic institution in India. He is also an associate faculty with the Interdisciplinary Climate Program and Policy Study Centre in IITB. Pennan is also a visiting professor with University of Oulu, Finland. Over the past decade, Pennan has experience working in NGOs, national and regional government agencies and academic institutions, focusing on sustainable surface and groundwater management plans, climate change impacts, large data analysis and hydrological simulation models. His work has been recognized in many internationally peer reviewed journals, policy briefs and government reports (e.g. EPA, NEA- Nepal, World Bank, Asian Development Bank) and are being used to formulate scientifically validated best management plans.

Course certificate

The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.

The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).

Date and Time of Exams: **24 April 2022** Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.

Registration url: Announcements will be made when the registration form is open for registrations.

The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.

Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

CRITERIA TO GET A CERTIFICATE

Average assignment score = 25% of average of best 8 assignments out of the total 12 assignments given in the course.

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

Final score = Average assignment score + Exam score

YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE $\geq 10/25$ AND EXAM SCORE $\geq 30/75$. If one of the 2 criteria is not met, you will not get the certificate even if the Final score $\geq 40/100$.

Certificate will have your name, photograph and the score in the final exam with the breakup. It will have the logos of NPTEL and IIT Bombay. It will be e-verifiable at nptel.ac.in/noc (<http://nptel.ac.in/noc>).

Only the e-certificate will be made available. Hard copies will not be dispatched.

Once again, thanks for your interest in our online courses and certification. Happy learning.

This certificate is computer generated and can be verified by scanning the QR code given below.

Roll No: NPTEL22CE44543701983

To:
MOUSUMI MANNA
B.Sc.(H) (HON) IN HYDROLOGY & WATER
SCIENCE
HONORARI
NORTH BANGALORE UNIVERSITY
Ph. No: 084470021



No. of credits recommended by NPTEL is

As mentioned it may be awarded after successfully clearing it in the subject in the official semester after the exam.

Score	Type of Certificate
0-49	Eligible
50-59	Eligible
60-69	Letter
70-79	Successfully Completed
80	No Certificate



NPTEL Online Certification

(Funded by the Min. Govt. of India)



This certificate is awarded to

MOUSUMI MANNA

for successfully completing the course

Groundwater Hydrology and Management

with a consolidated score of **46 %**

Online Assignments **14.69/25** | Practiced Exam **31.5/75**

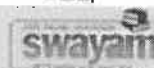
Total number of candidates certified in this course: **130**

Jan-Apr 2022
(12 week course)

Prof. Sankar Kumar Ghosh
Prof. Sankar Kumar Ghosh
Head (GATEWAY) Coordinator
of Swamy



Indian Institute of Technology Bombay



Roll No: NPTEL22CE44543701983

To validate and check status: <https://npTEL.in/valid>



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Coursera Courses (2021-22)



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Student Enrollment Details

Sl No	Course Name	Duration of Course	Student Name	Department	Number of Students enrolled in the Year
1	Introduction to HTML	4 Weeks	Sanatan Bag	CSE	1
2	What is Data Science	3 Weeks	Archi Choudhary		4
			Sanatan Bag		
			Pramita Sarkar		
			Pinaki Shashishekhar Mathan		
3	Python Programming Essentials	4 Weeks	Thamim Mollah		4
			Samma Yasmin		
			Sanatan Bag		
			Payel Pramanick		
4	Data-driven Decision Making	2 Weeks	Ashish Das		2
			Pramita Sarkar		
5	What is data sci.	3 Weeks	Ashish Das		1
6	Divide and conquer ,Sorting, Searching and Randomized Algorithm	4 Weeks	Ashish Das		4
			Samma Yasmin		
			Archi Choudhary		
			Pramita Sarkar		
7	Introduction to Big Data	3 Weeks	Pritam Pal		4
			Ashish Das		
			Pramita Sarkar		
			Soumili Dey		
8	Introduction to Virtual Reality	4 Weeks	Ashish Das		5



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			Samma Yasmin		
			Anubhab Santra		
			Soumili Dey		
			Pritam Pal		
9	A crash course in data science	1 Week	Pritam Pal		
			Soumili Dey		
			Moumita Nath		
			Pinaki Shashishekhar Mathan		
			Mitali Metla		5
10	Introduction to scripting in Python (Specialization)	8 Weeks	Pritiman Sikder		
			Achiman Kundu		
			Nemai Roy		3
11	The Bits and Bytes of Computer Networking	4 Weeks	Pramita Sarkar		
			Anubhab Santra		
			Nemai Roy		
			Achiman Kundu		
			Pinaki Shashishekhar Mathan		5
12	Bayesian Statistics: Techniques and Models	5 Weeks	Pritiman Sikder		
			Achiman Kundu		
			Nemai Roy		3
13	Cloud Computing	5 Weeks	Pritiman Sikder		
			Achiman Kundu		
			Nemai Roy		3
14	Introduction to Machine Learning	8 Weeks	Payel Pramanick		
15	Cyber Security and it's ten domain	7 Weeks	Anubhab Santra		1
			Shivam Jha		3



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			Pinaki Shashishekhar Mathan	
16	Data-driven Decision Making	2 Weeks	Soumili Dey	1
17	Technical Support Fundamentals	6 Weeks	Trisha Mondal	1
18	Introduction to TCP/IP	5 Weeks	Trisha Mondal	1
19	Introduction to Data Science in Python	4 Weeks	Pramita Sarkar Pinaki Shashishekhar Mathan	2
20	Introduction to Cybersecurity Tools & Cyber Attacks.	4 Weeks	Trisha Mondal	1
21	Introduction of Internet of Things & Embedded System	8 Weeks	Pinaki Shashishekhar Mathan	1
22	Fundamentals of Network Communication.	5 Weeks	Trisha Mondal	1
23	Structuring Machine Learning Project	12 Weeks	Pinaki Shashishekhar Mathan	1
24	Advanced Machine Learning	8 Weeks	Pinaki	1



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	with TensorFlow on Google Cloud Platform Specialization - Google Cloud		Shashishekhar Mathan		
25	Machine Learning (12 week)	12 Weeks	Pinaki Shashishekhar Mathan		1
26	Robotics: Aerial Robotics	6 Weeks	Pinaki Shashishekhar Mathan		1
27	Neural Network & Deep Learning	4 Weeks	Pinaki Shashishekhar Mathan		1
28	IBM Data Science Professional Certificate	8 Weeks	Pinaki Shashishekhar Mathan		1
29	Convolution Neural Network	4 Weeks	Pinaki Shashishekhar Mathan		1

UC SANTA CRUZ

Jan 26, 2022

ACHISMAN KUNDU

has successfully completed

Bayesian Statistics: Techniques and Models

an online non-credit course authorized by University of California, Santa Cruz and
offered through Coursera



Matthew Heiner
Graduate Student Instructor, PHD and Data
Science

**COURSE
CERTIFICATE**



Verify at coursera.org/verify/5D8QLMP5D9ZD

Coursera has confirmed the identity of this individual and their
participation in the course.







Nov 12, 2023

Pritam paul

has successfully completed

Introduction to Virtual Reality

an online non credit course authorized by University of London, Goldsmiths, University of London and offered through Coursera

**COURSE
CERTIFICATE**Dr Philip Krumm
Secretary, Department of Computing
Goldsmiths, University of LondonDr Maria Gillies
Computing Department
Goldsmiths, University of LondonVerify at coursera.org/verify/T85ZMKN2JVMH

Coursera has confirmed the identity of this individual and their participation in the course

UC San Diego

Aug 28, 2023

Soumili Dey

has successfully completed

Introduction to Big Data

an online non-credit course authorized by University of California San Diego and offered through Coursera.



Anand Kumar
Assistant University Officer
San Diego Supercomputer Center

Arumudh Kumar
Research Scientist
San Diego Supercomputer Center

COURSE
CERTIFICATE



Verify at: <https://coursera.org/verify/UCSDUCEN08>

Coursera has confirmed the identity of this individual and their participation in the course.



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Machine Learning with Python

Course Title-“Machine Learning with Python” in collaboration with Ardent Technologies.

Duration-40 hrs

Course Start Date-15th Nov, 2021

Course End Date-20th Nov, 2021

Mode- Online

Number of Students Enrolled-32

Number of Students Passed-32

Instructor- Dr.KinsukGiri

Assessment -Minimum 65% attendance &Project Completion Score



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Student Enrollment Details

Sl No	Email Address	Student Name	Phone No	Department	Semester
1	subhadipdas632@gmail.com	Subhadip Das	8777346342	Computer Science and Engineering	5th
2	sayanchakraborty710@gmail.com	Sayan Chakraborty	06291952495	Computer Science and Engineering	5th
3	sayantanmaity.ind@gmail.com	Sayantanmaity	8335882507	Computer Science and Engineering	5th
4	krishnendubar0611@gmail.com	KRISHNENDU BAR	9564014230	Electrical Engineering	5th
5	mukherjeeshubhosree@gmail.com	Shubhosree Mukherjee	7439405690	Electrical Engineer	5th
6	mondaisouvik837@gmail.com	Souvik Mondal	9903868722	Electrical Engineering	5th
7	ayushullas28@gmail.com	Ayushullas	08902084931	Computer Science and Engineering	5th
8	debika96mondal@gmail.com	TRISHA MONDAL	9674275014	Computer Science and Engineering	5th
9	csoniya2209@gmail.com	Sonam Choudhary	9831044305	Computer Science and Engineering	7th
10	nasrinkhatu584@gmail.com	Nasrin Khatun	9749776985	Computer Science and Engineering	5th
11	swagatochatterjee454@gmail.com	Swagato Chatterjee	8296825077	Computer Science and Engineering	5th
12	rajrajtswaribag4610@gmail.com	Rajrajeswari Bag	7439444048	Electrical Engineering	5th
13	archichoudhary254@gmail.com	Archi Choudhary	7890215208	Computer Science and Engineering	5th
14	sahilmolla1822@gmail.com	Sahil molla	8637863815	Electrical Engineering	7th
15	pradhandippanjan82@gmail.com	Dipanjan Pradhan	9038749411	Computer Science and Engineering	7th
16	santanusahoo822@gmail.com	SANTANU SAHOO	8972646339	Computer Science and Engineering	5th
17	alekhyasarkar808@gmail.com	Alekhyasarkar	7439588674	Electrical Engineering	7th
18	subhampanja10@gmail.com	SubhamPanja	8274965296	Electrical Engineering	7th
19	maitysouvik767@gmail.com	Souvikmaity	9474789373	Electrical engineering	7th
20	samantapradip727@gmail.com	Pradip samanta	8617674778	Electrical Engineering	7th
21	rupdeepaghosh1@gmail.com	Rupdeepa Ghosh	+918240110835	Computer Science and Engineering	7th
22	aritrasmukherjee360@gmail.com	Aritra Mukherjee	8334871400	Computer Science and Engineering	7th
23	dasashish1999@yahoo.com	ASHISH DAS	9891918867	Computer Science and Engineering	5th



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24	Pritampaul803@gmail.com	Pritam paul	9144997181	Computer Science and Engineering	5th
25	sammayasmin14@gmail.com	MOSAMMAT SAMMA YASMIN	09907811287	Computer Science and Engineering	5th
26	rabindranathmanna1967@gmail.com	INDRANIL MANNA	6294111747	Computer Science and Engineering	7th
27	deysoumili196@gmail.com	Soumilidey	9903916685	Computer Science and Engineering	5th
28	abhishekrjhp@gmail.com	Abhishek Raj	+917004435670	Computer Science and Engineering	7th
29	tutul3917@gmail.com	Anamitrasarkar	6291965633	Electrical Engineering	7th
30	royalroy1703@gmail.com	Shivamkumarroy	6201495995	Computer Science and Engineering	7th
31	oishiksinha.india@gmail.com	Oishik Sinha	+917679733872	Computer Science and Engineering	7th
32	aniruddhadutta200a@gmail.com	Aniruddha Dutta	8017340264	Electrical Engineering	7th

Machine Learning using Python

Description

This Machine Learning with Python Internship dives into the basics of machine learning using an approachable, and well-known, programming language. You will learn about Supervised vs. Unsupervised Learning, look into how Statistical Modeling relates to Machine Learning, and do a comparison of each.

Expectations and Goals

This Internship helps participants understand what data scientists do, the problems they solve, and the tools and techniques they use. Through in-class simulations, participants apply data science methods to real-world challenges in different industries and, ultimately, prepare for data scientist roles in the field.

- ✦ Live Sessions by the mentor.
- ✦ Opportunity to interact with trainer.
- ✦ After each session the recording of the session shall be provided.
- ✦ Doubt clearing sessions.
- ✦ 24/7 Support team to assist in software installation and other issues.
- ✦ Live Project implementation.
- ✦ Internship Certificate.
- ✦ Ardent Certificate contains logos of all the affiliations like Microsoft, Adobe, AutoDESK, EC-COUNCIL, MSME, NCVT, ISO 9001:2015.
- ✦ Softcopy of study materials shall be provided.

Prerequisites

This Internship is suitable for students, developers, data analysts, and statisticians with basic knowledge of Computer Science and python programming.

Course Schedule

Module	Topic
Module 1	The Machine Learning Landscape What Is Machine Learning? Why Use Machine Learning? Types of Machine Learning Systems Supervised/Unsupervised Learning Batch and Online Learning Instance-Based Versus Model-Based Learning Main Challenges of Machine Learning Insufficient Quantity of Training Data Non representative Training Data Poor-Quality Data Irrelevant Features Overfitting the Training Data Underfitting the Training Data Testing and Validating
Module 2	NumPy Basics: Arrays and Vectorized Computation The NumPy ndarray: A Multidimensional Array Object Creating ndarrays Data Types for ndarrays

	Arithmetic with NumPy Arrays Basic Indexing and Slicing Boolean Indexing Fancy Indexing Transposing Arrays and Swapping Axes Universal Functions: Fast Element-Wise Array Functions Array-Oriented Programming with Arrays Expressing Conditional Logic as Array Operations Mathematical and Statistical Methods Methods for Boolean Arrays Sorting Unique and Other Set Logic File Input and Output with Arrays Linear Algebra Pseudorandom Number Generation Example: Random Walks Simulating Many Random Walks at Once
Module 3	Getting Started with pandas Introduction to pandas Data Structures Series DataFrame Index Objects Essential Functionality Reindexing Dropping Entries from an Axis Indexing, Selection, and Filtering Integer Indexes Arithmetic and Data Alignment Function Application and Mapping Sorting and Ranking Axis Indexes with Duplicate Labels Summarizing and Computing Descriptive Statistics Correlation and Covariance Unique Values, Value Counts, and Membership
Module 4	End-to-End Machine Learning Project Working with Real Data Look at the Big Picture Frame the Problem Select a Performance Measure Check the Assumptions Get the Data Create the Workspace Download the Data Take a Quick Look at the Data Structure Create a Test Set

	<p>Discover and Visualize the Data to Gain Insights</p> <p>Visualizing Geographical Data</p> <p>Looking for Correlations</p> <p>Experimenting with Attribute Combinations</p> <p>Prepare the Data for Machine Learning Algorithms</p> <p>Data Cleaning</p> <p>Handling Text and Categorical Attributes</p> <p>Custom Transformers</p> <p>Feature Scaling</p> <p>Transformation Pipelines</p> <p>Select and Train a Model</p> <p>Training and Evaluating on the Training Set</p> <p>Better Evaluation Using Cross-Validation</p> <p>Fine-Tune Your Model</p> <p>Grid Search</p> <p>Randomized Search</p> <p>Ensemble Methods</p> <p>Analyze the Best Models and Their Errors</p> <p>Evaluate Your System on the Test Set</p> <p>Launch, Monitor, and Maintain Your System</p>
Module 5	<p>Classification</p> <p>MNIST</p> <p>Training a Binary Classifier</p> <p>Performance Measures</p> <p>Measuring Accuracy Using Cross-Validation</p> <p>Confusion Matrix</p> <p>Precision and Recall</p> <p>Precision/Recall Tradeoff</p> <p>The ROC Curve</p> <p>Multiclass Classification</p> <p>Error Analysis</p> <p>Multilabel Classification</p> <p>Multioutput Classification</p>
Module 6	<p>Training Models</p> <p>Linear Regression</p> <p>The Normal Equation</p> <p>Computational Complexity</p> <p>Gradient Descent</p> <p>Batch Gradient Descent</p> <p>Stochastic Gradient Descent</p> <p>Mini-batch Gradient Descent</p> <p>Polynomial Regression</p> <p>Learning Curves</p> <p>Regularized Linear Models</p> <p>Ridge Regression</p>

	<p>Lasso Regression</p> <p>Elastic Net</p> <p>Early Stopping</p> <p>Logistic Regression</p> <p>Estimating Probabilities</p> <p>Training and Cost Function</p> <p>Decision Boundaries</p> <p>Softmax Regression</p>
Module 7	<p>Support Vector Machines</p> <p>Linear SVM Classification</p> <p>Soft Margin Classification</p> <p>Nonlinear SVM Classification</p> <p>Polynomial Kernel</p> <p>Adding Similarity Features</p> <p>Gaussian RBF Kernel</p> <p>Computational Complexity</p> <p>SVM Regression</p> <p>Under the Hood</p> <p>Decision Function and Predictions</p> <p>Training Objective</p> <p>Quadratic Programming</p> <p>The Dual Problem, Generalized Lagrangian for the Hard margin problem and KKT multiplier</p> <p>Kernelized SVM and Mercer's Theorem</p> <p>Online SVMs and Hinge loss and how is it used in SGD classification</p>
Module 8	<p>Decision Tree</p> <p>Training and visualizing a decision tree</p> <p>Making predictions</p> <p>Estimating class probabilities</p> <p>The CART (Classification and Regression Tree) training algorithm</p> <p>Computational Complexity</p> <p>Gini Impurity or Entropy?</p> <p>Regularization hyper parameters</p> <p>Regression</p> <p>Instability</p>
Module 9	<p>Ensemble Learning and Random Forest</p> <p>Voting Classifiers</p> <p>Bagging and Pasting</p> <p>Random Patches and Random subspaces</p> <p>Random Forests</p> <p>Boosting</p> <p>Stacking</p>
Module 10	<p>Dimensionality Reduction</p> <p>The Curse of Dimensionality</p> <p>Main Approaches for Dimensionality Reduction</p> <p>Projection</p>

	<p>Manifold Learning</p> <p>PCA</p> <p>Preserving the Variance</p> <p>Principal Components</p> <p>Projecting Down to d Dimensions</p> <p>Using Scikit-Learn</p> <p>Explained Variance Ratio</p> <p>Choosing the Right Number of Dimensions</p> <p>PCA for Compression</p> <p>Randomized PCA</p> <p>Incremental PCA</p> <p>Kernel PCA</p> <p>Selecting a Kernel and Tuning Hyperparameters</p> <p>LLE</p> <p>Other Dimensionality Reduction Techniques</p>
Module 11	<p>Unsupervised Learning Techniques</p> <p>Clustering</p> <p>K-Means</p> <p>Limits of K-Means</p> <p>Using Clustering for Image Segmentation</p> <p>Using Clustering for Preprocessing</p> <p>Using Clustering for Semi-Supervised Learning</p> <p>DBSCAN</p> <p>Other Clustering Algorithms</p> <p>Gaussian Mixtures</p> <p>Anomaly Detection Using Gaussian Mixtures</p> <p>Selecting the Number of Clusters</p> <p>Bayesian Gaussian Mixture Models</p> <p>Other Algorithms for Anomaly and Novelty Detection</p>
Module 12	Project work and documentation



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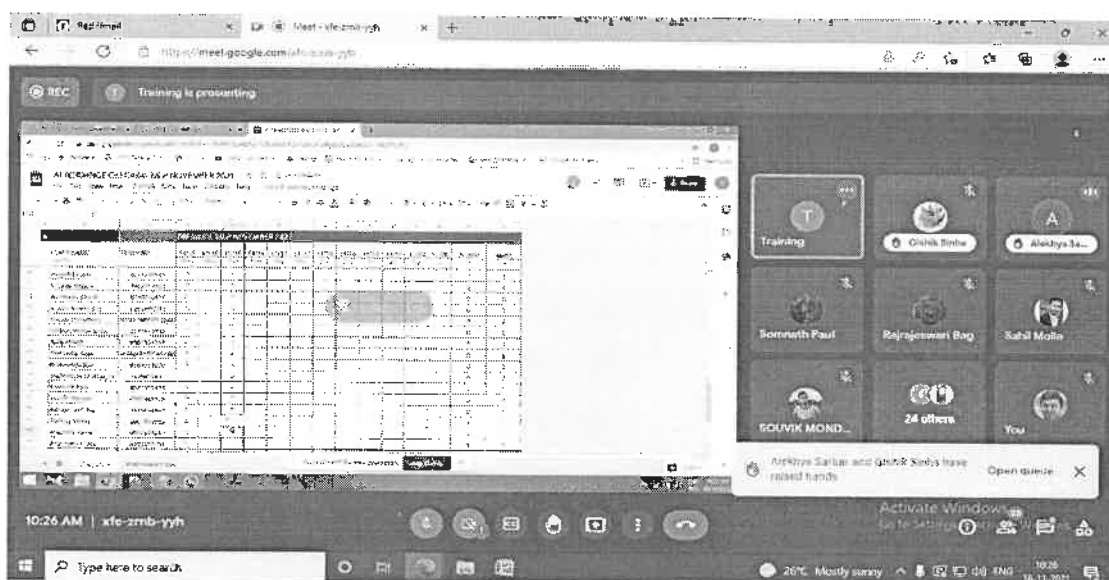
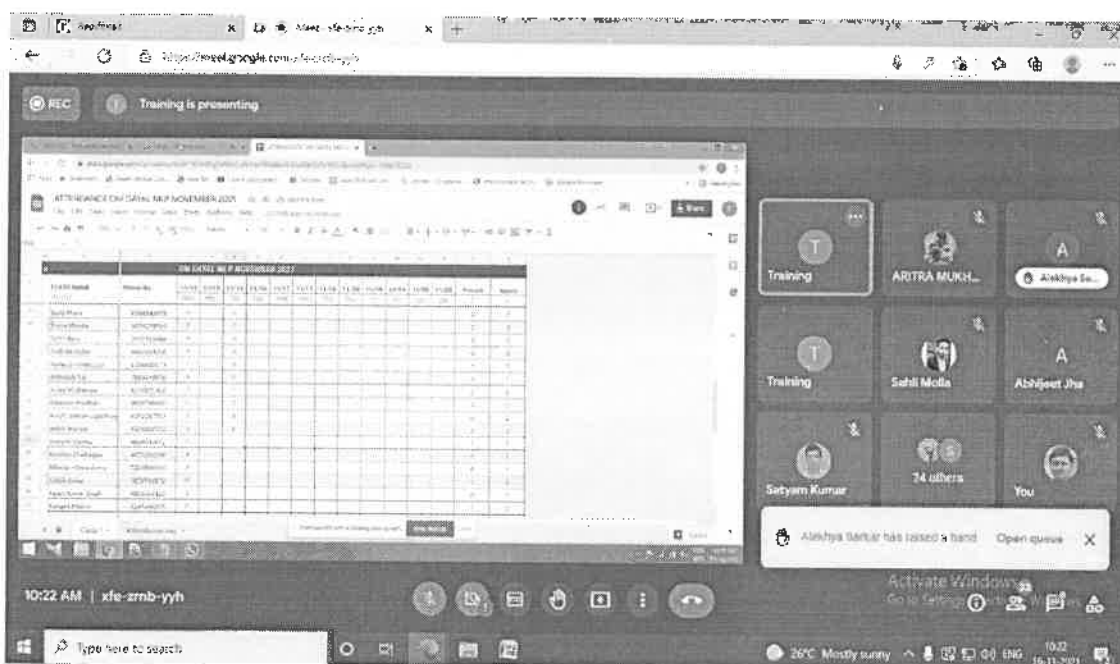
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Summary Report of “Machine Learning with PYTHON”

A workshop has been conducted by department of Computer Science & Engineering from 15th Nov to 20th Nov, 2021 on “Machine Learning with Python” in collaboration with Ardent Technologies. It was an online program. Total 32 students have participated in the program. An online test was also conducted at the end of the program and e-certificates are distributed to all participated students.

Pictures during the training:





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Outcomes-

This course helps participants understand what data scientists do, the problems they solve, and the tools and techniques they use. Through in-class simulations, participants apply data science methods to real-world challenges in different industries and, ultimately, prepare for data scientist roles in the field.

- Live Sessions by the mentor.
- Opportunity to interact with trainer.
- After each session the recording of the session shall be provided.
- Doubt clearing sessions.
- 24/7 Support team to assist in software installation and other issues.
- Live Project implementation.
- Internship Certificate.
- Ardent Certificate contains logos of all the affiliations like Microsoft, Adobe, AutoDESK, EC-COUNCIL, MSME, NCVT, ISO 9001:2015.
- Softcopy of study materials shall be provided.



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OM DAYAL MLP NOVEMBER 2021															
Students Name	Phone No	11/15	11/15	11/16	11/16	11/17	11/17	11/18	11/18	11/19	11/19	11/20	11/20	Present	Absent
		Mon	Mon	Tue	Tue	Wed	Wed	Thu	Thu	Fri	Fri	Sat	Sat	P	A
Archit Choudhary	7890215208	P	P	P	P	P	P	P	P	P	P	P	P	12	0
Ashish Das	9891918867	P	P	P	P	P	P	P	P	P	P	P	P	12	0
Ayush Ullas	8902084931	P	P	P	P	P	P	P	P	P	P	P	P	12	0
Mosammat Samma Yasir	7319468242	P	P	P	P	P	P	P	P	P	P	P	P	12	0
Nasrin Khatun	7872342749	P	P	P	P	P	P	P	P	P	P	P	P	12	0
Pritam Paul	9144997181	P	P	P	P	P	P	P	P	P	P	P	P	12	0
Santanu Sahoo	8972646339	A	A	A	A	P	P	P	P	P	P	P	P	8	4
Sayan Chakraborty	6291952495	P	P	P	P	P	P	P	P	P	P	P	P	12	0
Sayantan Maity	8335882507	P	P	P	P	P	P	P	P	P	P	P	P	12	0
Soumiti Dey	9903916685	P	P	P	P	P	P	P	P	P	P	P	P	12	0
Subhadip Das	8777346342	P	P	A	A	P	P	P	P	P	P	P	P	10	2
Trisha Mondal	9674275014	P	P	P	P	P	P	P	P	P	P	P	P	12	0
Swagato Chatterjee	8296825077	P	P	P	P	P	P	P	P	P	P	P	P	12	0
Abhishek Raj	7004435670	P	P	P	P	P	P	P	P	P	P	P	P	12	0
Aritra Mukherjee	8334871400	P	P	P	P	P	P	P	P	P	P	P	P	12	0
Dipanjana Pradhan	9038749411	P	P	P	P	P	P	P	P	P	P	P	P	12	0
Indrani Manna	9836949632	P	P	P	P	P	P	P	P	P	P	P	P	12	0
Oishik Sinha	7679733872	P	P	P	P	P	P	P	P	P	P	P	P	12	0
Rupdeeba Ghosh	8240110835	P	P	P	P	P	P	P	P	P	P	P	P	12	0
Shivam Kumar Roy	6201495995	P	P	A	A	P	P	P	A	P	P	P	P	9	3
Sonam Choudhary	30022798/98310443	P	P	P	P	P	P	P	P	P	P	P	P	12	0
Krishnendu Bar	9564014230	A	P	P	P	P	P	P	P	P	P	P	P	11	1
Shubhosree Mukherjee	7439405690	A	P	P	P	P	P	P	P	P	P	P	P	11	1
Souvik Mondal	9903868722	P	P	P	P	P	P	P	P	P	P	P	P	12	0
Rajajeswari Bag	7439444048	P	P	P	P	P	P	P	P	P	P	P	P	12	0
Alekhyia Sarkar	9007802013	A	P	P	P	P	P	P	P	P	P	P	P	11	1
Anamitra Sarkar	9007802013	A	P	P	P	P	P	P	P	P	P	P	P	11	1
Aniruddha Dutta	8013555361	P	P	P	P	P	P	P	P	P	P	P	P	12	0
Pradip Samanta	8617674778	P	P	P	P	P	P	P	P	P	P	P	P	12	0
Sahil Molla	8637863815	P	P	P	P	P	P	P	P	P	P	P	P	12	0
Souvik Maity	9474789373	A	P	P	P	P	P	P	P	P	P	P	P	11	1
Subham Panja	74965296/82408157	A	P	P	P	P	P	P	P	P	P	P	P	11	1



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Assessment

Sl No	Email Address	Student Name	Phone No	Department	Semester	Percentage of Score
1	abhishekrajhp@gmail.com	Abhishek Raj	+917004435670	Computer Science and Engineering	7th	70
2	alekhyasarkar808@gmail.com	Alekhyasarkar	7439588674	Electrical Engineering	7th	90
3	tutul3917@gmail.com	Anamitra sarkar	6291965633	Electrical Engineering	7th	90
4	aniruddhadutta200a@gmail.com	Aniruddha Dutta	8017340264	Electrical Engineering	7th	90
5	archichoudhary254@gmail.com	Archi Choudhary	7890215208	Computer Science and Engineering	5th	60
6	aritrasmukherjee360@gmail.com	Arira Mukherjee	8334871400	Computer Science and Engineering	7th	70
7	dasashish1999@yahoo.com	ASHISH DAS	9891918867	Computer Science and Engineering	5th	90
8	ayushullas28@gmail.com	Ayush ullas	08902084931	Computer Science and Engineering	5th	80
9	pradiandipnjan82@gmail.com	Dipnjan Pradhan	9038749411	Computer Science and Engineering	7th	80
10	rabindranathnanna1967@gmail.com	INDRANIL MANNA	6294111747	Computer Science and Engineering	7th	70
11	krishnendubara0611@gmail.com	KRISHNENDU BAR	9564014230	Electrical Engineering	5th	70
12	sammayasmin14@gmail.com	SAMMA YASMIN	09907811287	Computer Science and Engineering	5th	90
13	nasrinkhatu584@gmail.com	Nasrin Khatun	9749776985	Computer Science and Engineering	5th	90
14	oishiksinha.india@gmail.com	Oishik Sinha	+917679733872	Computer Science and Engineering	7th	80
15	samanta pradip727@gmail.com	Pradip samanta	8617674778	Electrical Engineering	7th	90
16	Pritampaul803@gmail.com	Pritam paul	9144997181	Computer Science and Engineering	5th	90
17	rajrajswanibag4610@gmail.com	Rajrajeswari Bag	7439444048	Electrical Engineering	5th	90
18	rupdeepagosh1@gmail.com	Rupdeepa Ghosh	+918240110835	Computer Science and Engineering	7th	70
19	sahilmolla1822@gmail.com	Sahil molla	8637863815	Electrical Engineering	7th	90
20	santanusahoo822@gmail.com	SANTANU SAHOO	8972646339	Computer Science and Engineering	5th	96
21	sayanchakraborty710@gmail.com	Sayan Chakraborty	06291952495	Computer Science and Engineering	5th	80
22	sayantanmaiti.ind@gmail.com	Sayantan maiti	8335882507	Computer Science and Engineering	5th	80
23	royalroy1703@gmail.com	Shivam kumar roy	6201495995	Computer Science and Engineering	7th	90
24	mukherjeeshubhosree@gmail.com	Shubhosree Mukherjee	7439405690	Electrical Engineer	5th	70
25	sonija2209@gmail.com	Sonam Choudhary	9831044305	Computer Science and Engineering	7th	70
26	deysoumiti196@gmail.com	Soumiti dey	9903916685	Computer Science and Engineering	5th	90
27	maitysouvik767@gmail.com	Souvik maiti	9474789373	Electrical engineering	7th	80
28	mondalsouvik837@gmail.com	Souvik Mondal	9903868722	Electrical Engineering	5th	60
29	subhadipdas632@gmail.com	Subhadip Das	8777346342	Computer Science and Engineering	5th	80
30	subhampanja10@gmail.com	Subham Panja	8274965296	Electrical Engineering	7th	80
31	swagatochatterjee454@gmail.com	Swagato Chatterjee	8296825077	Computer Science and Engineering	5th	80
32	debika96mondal@gmail.com	TRISHA MONDAL	9674275014	Computer Science and Engineering	5th	90



Certificate of Completion

15-11-2021 to 20-11-2021

This certificate is hereby awarded to

RUPDEEPA GHOSH

of

OMDAYAL GROUP OF INSTITUTIONS

who has successfully completed the **ONE WEEK TRAINING** on the subject

MACHINE LEARNING USING PYTHON

and developed the project titled

EMPLOYEE SALARY PREDICTION

by following all the necessary criteria of the Company.



Certificate ID: ARDENT/2021/AD14192

Date of Issue: 20-11-2021



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AUTODESK
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Director - HR

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www.ardentcollaborations.com

Module - 12: Gradient Boosting Machine (GBM) and XGBoost



Certificate of Completion

15-11-2021 to 20-11-2021

This certificate is hereby awarded to

SHIVAM KUMAR ROY
of

OMDAYAL GROUP OF INSTITUTIONS

who has successfully completed the

ONE WEEK TRAINING

on the subject

MACHINE LEARNING USING PYTHON

and developed the project titled

A NON-MAX SUPPRESSION BASED R-CNN FOR FAST OBJECT DETECTION

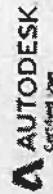
by following all the necessary criteria of the Company.


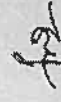
Certificate ID: ARDENT/2021/AD14198

Date of Issue: 20-11-2021



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Director - HR
ARDENT COMPUTECH PVT. LTD.
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Module: IT3, Ground Floor, SDT Building, Sahi Lake Sector V, Block CP, Kolkata - 700091



Certificate of Completion



15-11-2021 to 20-11-2021

This certificate is hereby awarded to

PRADIP SAMANTA

of

OMDAYAL GROUP OF INSTITUTIONS

who has successfully completed the

ONE WEEK TRAINING

on the subject

MACHINE LEARNING USING PYTHON

and developed the project titled

CANCER CELL DETECTION

by following all the necessary criteria of the Company.

Certificate ID: ARDENT/2021/AD14187

Date of Issue: 20-11-2021



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Technology Associate



[Signature]

Director - Technology Services

Director - HR

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Mobile: (01) 6060415511 Building: 5th Floor, Sector 17, Phase 1, Gurgaon, Haryana





Certificate of Completion



15-11-2021 to 20-11-2021

This certificate is hereby awarded to

INDRANIL MANNA

of

OMDAYAL GROUP OF INSTITUTIONS

who has successfully completed the

ONE WEEK TRAINING

on the subject

MACHINE LEARNING USING PYTHON

and developed the project titled

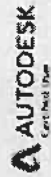
DIABETES CLASSIFICATION

by following all the necessary criteria of the Company.



Certificate ID: ARDENT2021/AD14182

Date of Issue: 20-11-2021



f.2
Director - Technology Services
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Mobile: 943 4444444 Pooni Shiv Building, Subi Lake Sector V, Block GP, Kolkata - 700091



Certificate of Completion



15-11-2021 to 20-11-2021

This certificate is hereby awarded to

DIPANJAN PRADHAN
of

OMDAYAL GROUP OF INSTITUTIONS

who has successfully completed the

ONE WEEK TRAINING

on the subject

MACHINE LEARNING USING PYTHON

and developed the project titled

DIABETES PREDICTION

by following all the necessary criteria of the Company.

Certificate ID: ARDENT/2021/AD14181

Date of Issue: 20-11-2021




Director - Technology Services

Director - HR
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Module: 112, Ground Floor, 10th Building, Sub-Laxmi, Sector V, Block-C.P. Kolkata - 700094





Certificate of Completion



15-11-2021 to 20-11-2021

This certificate is hereby awarded to

AYUSH ULLAS
of

OMDAYAL GROUP OF INSTITUTIONS

who has successfully completed the

ONE WEEK TRAINING

on the subject

MACHINE LEARNING USING PYTHON

by following all the necessary criteria of the Company.

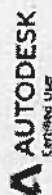


Certificate ID: ARDENT/2021/AD14211

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Technology Associate



[Signature]

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Director - HR

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Module: ITQ Ground Floor SDF Building, Sai Lakshmi V. Bhaskar G.P. Kodasa, 750001



Certificate of Completion

15-11-2021 to 20-11-2021

This certificate is hereby awarded to

ABHISHEK RAJ

of

OMDAYAL GROUP OF INSTITUTIONS

who has successfully completed the

ONE WEEK TRAINING

on the subject

MACHINE LEARNING USING PYTHON

and developed the project titled

A NON-MAX SUPPRESSION BASED FASTER R-CNN FOR OBJECT DETECTION

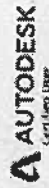
by following all the necessary criteria of the Company.

Certificate ID: ARDENT/2021/AD14174

Date of Issue: 20-11-2021



Microsoft
Technology Associate



[Signature]

Director - Technology Services

Director - HR

ARDENT COMPUTECH PVT. LTD.

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Module: B2 Ground Floor, SDF Building, NRI Lane, Sector V, Block GP, Kolkata - 700091





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Add on /Certificate/Value added programs offered during 2020-21

Year 2020-21			
Sl. No.	Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year
1	NPTEL	8/12 weeks	31
2	Online Aptitude Training in association with NSIC	6 days	42



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NPTEL Courses (2020-21)



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Student Enrollment Details

SL. No.	Name of Add on /Certificate Programs Offered	Duration of Course	Name of the student	Department	Number of Students Enrolled in the Year
1	Computer Architecture and organization	12 weeks (Sep 2020 to Dec 2020)	Trisha Mondal	CSE	1
2	Electrical Machines I	12 weeks (Sep 2020 to Dec 2020)	Rajrajeswari Bag	EE	1
3	Introduction to Internet of Things	12 weeks (Sep 2020 to Dec 2020)	Chandanneswar Ghosh Iman Chatterjee	ME	2
4	Geotechnical Engineering Laboratory	4 weeks (Sep 2020- Oct 2020)	Debojyoti Ghosh Koushik Sen Swarnendu Patra	CE	3
5	Building Materials and Composites	8 weeks (Sep 2020 to Nov 2020)	Debasmita Chandra	ARCH	1
6	Foundation Engineering	12 weeks (Sep 2020 to Dec 2020)	Nilendu Dutta	CE	1
7	Introduction to Internet of Things	12 weeks (Jan 2021 to April 2021)	Akash Kumar	ME	1
8	Enhancing Soft Skills & Personality	8 weeks (Feb 2021 to April 2021)	Abranil Das Biswas Namala Anisha Dhora Anubhab Santra Dedipya Siddhanta Subham Agarwal Tania Hazra Shivam Jha Manjira Das Rahul Shaw Payel Pramanik Pinaki Shashi Sekhar Samrat Adhikary Ayan Samanta Mrinmoy Sasmal	CSE	18



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			Shishir Jha		
			Souma Maity		
			Rahul Hazra		
			Twinkle jana		
9	Introduction to Civil Engineering Profession	8 weeks (Jan 2021- March 2021)	Bodhisattwa Mahata	CE	3
			Joydebpanja		
			Mousumi Manna		

[\(https://swayam.gov.in/\)](https://swayam.gov.in/) [\(https://swayam.gov.in/nc_details/NPTEL\)](https://swayam.gov.in/nc_details/NPTEL)

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Computer architecture and organization

By Prof. Indranil Sengupta, Prof. Kamalika Datta | IIT Kharagpur

Learners enrolled: 10808

Computer Architecture and Organization



This course will discuss the basic concepts of computer architecture and organization that can help the participants to have a clear view as to how a computer system works. Examples and illustrations will be mostly based on a popular Reduced Instruction Set Computer (RISC) platform. Illustrative examples and illustrations will be provided to convey the concepts and challenges to the participants. Starting from the basics, the participants will be introduced to the state-of-the-art in this field.

INTENDED AUDIENCE : Computer Science and Engineering
Information Technology
Electronics and Communication Engineering
Electrical Engineering



PREREQUISITES : Basic c  <https://swayam.gov.in/>  <https://www.nptel.ac.in/details/NPTEL>

INDUSTRY SUPPORT : TCS About Swayam (<https://swayam.gov.in/about>) | All Courses |

Wipro

CTS

Google

Microsoft

HP

Intel

Summary

Course Status :	Completed
Course Type :	Core
Duration :	12 weeks
Start Date :	14 Sep 2020
End Date :	04 Dec 2020
Exam Date :	19 Dec 2020 IST
Enrollment Ends :	25 Sep 2020
Category :	◦ Computer Science and Engineering
Credit Points :	3
Level :	Undergraduate

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(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc20_cs64%2Fpreview&title=Computer%20architecture%20and%20organization%20-%20Course)

Course layout

Week 1: Evolution of Computer Systems

Week 2: Instruction Set Architecture



Week 3: Quantitative Principles of Computer Design

Week 4: Control Unit Design

Week 5: Memory System Design

Week 6: Design of Cache Memory Systems



Week 7: Design of Arithmetic**Week 8:** Design of Arithmetic (contd.)  (<https://swayam.gov.in/>)  (https://swayam.gov.in/nc_details/NPTEL)**Week 9:** Input-Output System Design**Week 10:** Input-Output System Design (contd.)  (<https://swayam.gov.in/about>) | All Courses | ()**Week 11:** Instruction Set Pipelining**Week 12:** Parallel Processing Architectures

Books and references

1. D.A. Patterson and J.L. Hennessy, "Computer Architecture: A Quantitative Approach, 5/E", Morgan Koffman, 2011.
2. D.A. Patterson and J.L. Hennessy, "Computer Organization and Design: The Hardware/Software Interface, 5/E", Elsevier India, 2016.
3. W. Stallings, "Computer Organization and Architecture: Designing for Performance", Pearson, 2015.
4. C. Hamacher, Z. Vranesic and S. Zaky, "Computer Organization, 5/E", McGraw Hill, 2011.
5. J.P. Hayes, "Computer Architecture and Organization, 3/E", McGraw Hill, 1998.

Instructor bio



Prof. Indranil Sengupta

IIT Kharagpur

Indranil Sengupta has obtained his B.Tech., M.Tech. and Ph.D. degrees in Computer Science and Engineering from the University of Calcutta. He joined the Indian Institute of Technology, Kharagpur, as a faculty member in 1988, in the Department of Computer Science and Engineering, where he is presently a full Professor. He had been the former Heads of the Department of Computer Science and Engineering and also the School of Information Technology of the Institute. He has over 28 years of teaching and research experience. He has guided 22 PhD students, and has more than 200 publications to his credit in international journals and conferences. His research interests include cryptography and network security, VLSI design and testing, and mobile computing.

He is a Senior Member of IEEE. He had been the General Chairs of Asian Test Symposium (ATS-2005), International Conference on Cryptology in India (INDOCRYPT-2008), International Symposium on VLSI Design and Test (VDAT-2012), International Symposium on Electronic System Design (ISED-2012), and the upcoming Conference on reversible Computation (RC-2017). He had delivered invited and tutorial talks in several conferences in the areas of VLSI design and testing, and network security.



Prof. Kamalika Datta
[\(https://swayam.gov.in/\)](https://swayam.gov.in/)

 [\(https://swayam.gov.in/noc_details/NPTEL\)](https://swayam.gov.in/noc_details/NPTEL)

Dr. Kamalika Datta completed her Bachelor's degree in Computer Science from Ravenshaw College, Cuttack, India in the year 2003, Master of Computer Application from Biju Pattanaik University of Technology, Bhubaneswar, India in the year 2006, and then Master of Science degree from Indian Institute of Technology, Kharagpur, India in 2010. She completed her Ph.D. from Indian Institute of Engineering Science and Technology, Shibpur, India. She has worked in industry and academia for almost 6 years. Currently she is a research fellow at Nanyang Technological University Singapore.

She has guided 2 PhD scholars, and has more than 60 publications in peer reviewed journals and conferences to her credit. Her research interests include logic design using emerging technologies, synthesis and optimization of reversible and quantum circuit, and embedded systems.

Course certificate

- The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.
- The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).
- **Date and Time of Exams:** 19 December 2020, Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.
- Registration url: Announcements will be made when the registration form is open for registrations.
- The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.
- Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

CRITERIA TO GET A CERTIFICATE:

- Average assignment score = 25% of average of best 8 assignments out of the total 12 assignments given in the course.
- Exam score = 75% of the proctored certification exam score out of 100
- Final score = Average assignment score + Exam score

YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE $\geq 10/25$ AND EXAM SCORE $\geq 30/75$.

- If one of the 2 criteria is not met, you will not get the certificate even if the Final score $\geq 40/100$.
- Certificate will have your name, photograph and the score in the final exam with the breakup. It will have the logos of NPTEL and IIT Kharagpur. It will be e-verifiable at nptel.ac.in/noc (<http://nptel.ac.in/noc>)
- Only the e-certificate will be made available. Hard copies will not be dispatched.



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: NPTEL20CS64S61810754

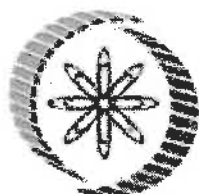
To
TRISHA MONDAL
V ROAD, PANCHANANTALA (UTTAR PARA)
DASNAGAR
HOWRAH
WEST BENGAL - 711105
PH. NO :9674275014



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

TRISHA MONDAL


for successfully completing the course

Computer Architecture and Organization


with a consolidated score of **52** %

Online Assignments	18.47/25	Proctored Exam	33.59/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 98


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

Sep-Dec 2020
(12 week course)


Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL20CS64S61810754

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

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Electrical Machines - I

By Prof. Tapas Kumar Bhattacharya | IIT Kharagpur

Learners enrolled: 9840

Electrical Machines - I



Transformer and D.C rotating machine will be the main topics to be discussed in this course. Working principle of ideal transformer and its equivalent circuit referred to two sides. Analysis of practical transformer & its equivalent circuit. Equivalent circuit referred to different sides and phasor diagram. Core loss and copper loss. Regulation & efficiency. The basic transformer connection & vector group. Parallel operation of transformers. Autotransformer. Basic constructional features of D.C

machine. Elements of winding used in armature. Emf and torque equations of D.C. machine – generator and motor mode. Armature reaction and its effect on induced emf and torque. Winding factor. Synchronous machines. Generator characteristics. Motor characteristics. Efficiency, Basic tests. **INTENDED AUDIENCE:** UG Electrical Engineering as core subject. UG Mechanical and Mining Engineering as Elective subject. **PREREQUISITES:** Basic Electrical Technology. Knowledge of elementary calculus. **INDUSTRY SUPPORT:** BHEL, CESC, NTPC, WBPDC

Summary

Course Status :	Completed
Course Type :	Core
Duration :	12 weeks
Start Date :	14 Sep 2020
End Date :	04 Dec 2020
Exam Date :	20 Dec 2020 IST
Enrollment Ends :	25 Sep 2020
Category :	<ul style="list-style-type: none"> Electrical, Electronics and Communications Engineering Power Systems and Power Electronics
Credit Points :	3
Level :	Undergraduate

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[\(/#linkedin\)](#)
[\(/#whatsapp\)](#)

(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc20_ee60%2Fpreview&title=Electrical%20Machines%20-%20I%20-%20Course)

Course layout

Week 1: Single phase Ideal transformer and basic equations. Its equivalent circuit. **Week 2:** Core loss: Eddy current and hysteresis loss – factors on which it depends. **Week 3:** Taking Leakage flux, winding resistances and core loss in the equivalent circuit of the transformer. **Week 4:** Exact and approximate equivalent circuit. Phasor diagram. Regulation & efficiency. **Week 5:**

Open circuit and short circuit tests. Estimation of equivalent circuit parameters. **Week 6:** Three phase transformer and various connections with tap changing. **Week 7:** Induction motor constructional features and basic operating principles. Armature winding, commutator segments and brushes. **Week 8:** Lap and wave windings and number of parallel paths in armature circuit. Emf equation. **Week 9:** Torque equation. Separately excited and shunt generator characteristics. **Week 10:** Armature reaction and its ill effects. How to nullify the effects of armature reaction. **Week 11:** Shunt, series and compound motor characteristic. **Week 12:** Starting, speed control and braking of DC motor. Testing.

Books and references

1. Electric Machinery Fundamentals 4th Edition by Stephen Chapman 2. Electrical Machinery 7th Edition P. S. Bimbhra 3. Electric Machines and Power System by Del Toro

Instructor bio



Prof. Tapas Kumar Bhattacharya

IIT Kharagpur

Tapas Kumar Bhattacharya has over thirty years of teaching experience at IIT Kharagpur. Taught signals & system core course at IIT Kharagpur several times. Area of research interest is in the field of electrical machines and special electrical machines and circuits..

Course certificate

The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.

The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).

Date and Time of Exams: **20 December 2020** Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.

Registration url: Announcements will be made when the registration form is open for registrations.

The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.

Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

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: NPTEL20EE60S71010073

To

RAJRAJESWARI BAG
BARABELU, BAGPARA, SERAMPORE, HODGHIY
BARABELU, BAGPARA, P.S.-SERAMPORE, DIST-
HODGHIY
SERAMPORE
WEST BENGAL - 712223
PH. NO :7439444048



Score	Type of Certificate
≥ 80	Elite+Gold
75-80	Elite+Silver
≥ 60	Elite
40-59	Successfully Completed
< 40	No Certificate

No. of credits recommended by NPTEL:3

All 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
RAJRAJESWARI BAG
for successfully completing the course



Electrical Machines - I

with a consolidated score of **75** %

Online Assignments	23.97/25	Proctored Exam	51.36/75
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Total number of candidates certified in this course: 317

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

Sep-Dec 2020
(12 week course)

Prof. Subhani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL20EE60S71010073

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

[\(https://swayam.gov.in/\)](https://swayam.gov.in/) [\(https://swayam.gov.in/nc_details/NPTEL\)](https://swayam.gov.in/nc_details/NPTEL)

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Introduction to internet of things

By Prof. Sudip Misra | IIT Kharagpur

Learners enrolled: 28585

Prof Sudip Misra



Internet of Things (IoT) is presently a hot technology worldwide. Government, academia, and industry are involved in different aspects of research, implementation, and business with IoT. IoT cuts across different application domain verticals ranging from civilian to defence sectors. These domains include agriculture, space, healthcare, manufacturing, construction, water, and mining, which are presently transitioning their legacy infrastructure to support IoT. Today it is possible to envision pervasive connectivity, storage, and computation, which, in turn, gives rise to building different IoT solutions. IoT-based applications such as innovative shopping system, infrastructure management in both urban and rural areas, remote health monitoring and emergency notification systems, and transportation systems, are gradually relying on IoT based systems. Therefore, it is very important to learn the fundamentals of this emerging technology.

INTENDED AUDIENCE : CSE, IT, ECE, EE, Instrumentation Engg, Industrial Engineering

PREREQUISITES : Basic



Knowledge

(<https://swayam.gov.in/>)(https://swayam.gov.in/nc_details/NPTEL)

Summary

[About Swayam \(https://swayam.gov.in/about\)](https://swayam.gov.in/about) | [All Courses](#) |

0

Course Status :	Completed
Course Type :	Elective
Duration :	12 weeks
Start Date :	14 Sep 2020
End Date :	04 Dec 2020
Exam Date :	20 Dec 2020 IST
Enrollment Ends :	25 Sep 2020
Category :	<ul style="list-style-type: none"> Computer Science and Engineering Systems Programming
Credit Points :	3
Level :	Undergraduate

This is an AICTE approved FDP course

([/#facebook](#))([/#twitter](#))([/#email](#))([/#linkedin](#))([/#whatsapp](#))

(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc20_cs66%2Fpreview&title=Introduction%20to%20internet%20of%20things%20-%20Course)

Course layout

Week 1: Introduction to IoT: Part I, Part II, Sensing, Actuation, Basics of Networking: Part-I

Week 2: Basics of Networking: Part-II, Part III, Part IV, Communication Protocols: Part I, Part II

Week 3: Communication Protocols: Part III, Part IV, Part V, Sensor Networks: Part I, Part II

Week 4: Sensor Networks: Part III, Part IV, Part V, Part VI, Machine-to-Machine Communications

Week 5: Interoperability in IoT, Introduction to Arduino Programming: Part I, Part II, Integration of Sensors and Actuators with Arduino: Part I, Part II

Week 6: Introduction to Python programming, Introduction to Raspberry Pi, Implementation of IoT with Raspberry Pi



Week 7: Implementation of Raspberry Pi (contd), Introduction to SDN, SDN for IoT
Week 8: SDN for IoT (contd) | About Swayam | (https://swayam.gov.in) | All Courses | 0
Week 9: Cloud Computing, Sensor Cloud
Week 10: Fog Computing, Smart Cities and Smart Homes
Week 11: Connected Vehicles, Smart Grid, Industrial IoT
Week 12: Industrial IoT (contd), Case Study: Agriculture, Healthcare, Activity Monitoring

Books and references

1. "The Internet of Things: Enabling Technologies, Platforms, and Use Cases", by Pethuru Raj and Anupama C. Raman (CRC Press)
2. "Internet of Things: A Hands-on Approach", by Arshdeep Bahga and Vijay Madisetti (Universities Press)
3. Research papers

Instructor bio



Prof. Sudip Misra

IIT Kharagpur

Dr. Sudip Misra is a Professor in the Department of Computer Science and Engineering at the Indian Institute of Technology Kharagpur. Prior to this he was associated with Cornell University (USA), Yale University (USA), Nortel Networks (Canada) and the Government of Ontario (Canada). He received his Ph.D. degree in Computer Science from Carleton University, in Ottawa, Canada. He has several years of experience working in the academia, government, and the private sectors in research, teaching, consulting, project management, architecture, software design and product engineering roles. His current research interests include Wireless Ad Hoc and Sensor Networks, Internet of Things (IoT), Computer Networks, Learning Systems, and algorithm design for emerging communication networks. Dr. Misra is the author of over 260 scholarly research papers, including 140+ reputed journal papers. He has won seven research paper awards in different conferences. Recently, he and his students won Samsung Innovation Award and the IEEE ComSoc Student Competition. He was awarded the fellow of NASI. He was also awarded the IEEE ComSoc Asia Pacific Outstanding Young Researcher Award at IEEE GLOBECOM 2012, Anaheim, California, USA. He was also the recipient of several academic awards and fellowships such as the Young Scientist Award (National Academy of Sciences, India), Young Systems Scientist Award (Systems Society of India), Young Engineers Award (Institution of Engineers, India), (Canadian) Governor General's Academic Gold Medal at Carleton University, the University Outstanding Graduate Student Award in the Doctoral level at Carleton University and the National Academy of Sciences, India - Swarna Jayanti Puraskar (Golden Jubilee Award). Dr. Misra was also awarded the Canadian Government's prestigious NSERC Post-Doctoral Fellowship and the Humboldt Research Fellowship in Germany. Dr. Misra has been serving the editorial boards of distinguished journals such as the Transactions on Vehicular Technology, Transactions on Mobile Computing, International Journal of Communication Systems (Wiley) and the IET Wireless Sensor Systems (UK). In the past, he served as the Associate Editor/Editorial Board Member of the Telecommunication Systems Journal (Springer), Security and Communication Networks Journal (Wiley), and the EURASIP Journal of Wireless Communications and Networking, IET Communications Journal, and the Computers and Electrical Engineering Journal (Elsevier). Dr. Misra has published 10 books in the areas of wireless ad hoc networks, wireless sensor networks, wireless mesh networks, communication networks and distributed systems, network reliability and fault tolerance, and information and coding theory, published by reputed publishers such as Cambridge University Press, Springer, Wiley, and World Scientific.

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: NPTEL20CS66S81790002

To
CHANDANESWAR GHOSH
VILL- TIRAYETPUR
P/O- ASANBONI
JHARGHAM
WEST BENGAL - 721506
PH. NO 6296334519



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
CHANDANESWAR GHOSH
for successfully completing the course

Introduction to Internet of Things

with a consolidated score of **52** %

Online Assignments	22.09/25	Proctored Exam	30/75
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Total number of candidates certified in this course: **4785**


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

Sep-Dec 2020
(12 week course)


Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL20CS66S81790002

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: NPTEL20CS66S81811694

To
IMAN CHATTERJEE
11/13, MOHINATH POBEL LANE
P.O. - SALKIA
HOWRAH
WEST BENGAL - 711106
PH. NO. 8240188243



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
IMAN CHATTERJEE
for successfully completing the course

Introduction to Internet of Things

with a consolidated score of **57** %

Online Assignments	21.47/25	Proctored Exam	36/75
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Total number of candidates certified in this course: 4785


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

Sep-Dec 2020
(12 week course)


Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL20CS66S81811694

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

Course Name: Geotechnical Engineering Laboratory

[About Course](#)

[Certificate Type](#)

[Toppers list](#)

[Statistics](#)

Prof J N Mandal



Course abstract

This course will show how to conduct the various types of tests used for soil testing. Each experiment of soil testing is presented with a brief introduction covering the important details of the experiment, the theory and the purpose for which it is to be performed, followed by the detailed explanation of apparatus required, procedure and specimen calculations. These should enable students to perform the experiment and compute the results of experiments very easily.

Course Instructor



Prof. J. N. Mandal

Dr. J.N. Mandal is professor of Civil engineering at Indian Institute of Technology Bombay in Powai, Mumbai, India. The primary area of research interests include geotechnical and geosynthetics engineering, centrifuge, physical and numerical modeling, ground improvement, waste and nano materials, transportation and environmental geotechnics. He founded

geosynthetics research and testing laboratory, offered the undergraduate and postgraduate courses on geosynthetics in 1984. Since then the significance growth of world class research and development has focused completely in the fore front of

activities in the emerging area of geosynthetics. He is the author/editor of six books and also founded the International Geosynthetics Society chapter for India in 1988. He organized the first Indian Geotextile Conference in 1988 and chairman for International Conference of Geosynthetics and Geoenvironmental Engineering in 2004. He had the privilege of chairing many technical sessions at several national and international conferences in India and abroad. He developed a video film on **Geosynthetics Edge** in 1986 and focused on turning point program in TV on geosynthetics in 1993. He has previously served as an editorial board/advisory board members of International Journal of Geotextiles and Geomembranes, and International Journal of Construction and Building Materials, respectively and editor of Indian Geotechnical Journal. He was the member of International society of Soil Mechanics and Geotechnical Engineering technical committee TC 9 on Geotextiles and Geosynthetics and International Geosynthetic society Education Committee and Member of the International Scientific Advisory Board (ISAB) of the world city water Forum 2009. Dr. Mandal earned International/national awards for his outstanding contribution on geosynthetics reinforced soil structures. He has supervised many PhD theses and Masters Projects. He has carried out a large number of sponsored and challenging consultancy projects for various industries and agencies. He is also a reviewer for many international/national journals. He has more than 400 research papers to his credit in referred international /national journals/conferences.

More info (<https://www.civil.iitb.ac.in/~cejnm/>)


Teaching Assistant(s)


No teaching assistant data available for this course yet

 Course Duration : Sep-Oct 2020

 View Course (<http://archive.nptel.ac.in/courses/105/101/105101160/>)

 Enrollment : 20-May-2020 to 21-Sep-2020

 Exam registration : 14-Sep-2020 to 02-Nov-2020

 Exam Date : 18-Dec-2020

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: NPTEL20CE48531560009

To
KOUSHIK SEN
VILL. KANTALDAHA, POST- KULTIKARY,
PS-SHYAMPUR, DIST- HOWRAH, PIN 711312
SHYAMPUR, HOWRAH
HOWRAH - 711312
PH. NO. 9197757261



Score	Type of Certificate
≥ 90	Elite+Gold
75-89	Elite+Silver
≥ 60	Elite
40-59	Successfully Completed
≤ 40	No Certificate

No. of credits recommended by NPTEL:1

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



NPTEL Online Certification

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



This certificate is awarded to

KOUSHIK SEN

for successfully completing the course


Geotechnical Engineering Laboratory

with a consolidated score of **53** %

Online Assignments	22.50/25	Proctored Exam	30/75
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Total number of candidates certified in this course: 442

Sep-Oct 2020
(4 week course)


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



Indian Institute of Technology Bombay



Roll No: NPTEL20CE48531560009

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: NPTEL20CE48531560040

To
SWARNENDU PATRA
NEAR RICE MILL, MELOCK
DEULTI, HOWRAH
MELOCK (DEULTI)
WEST BANGAL - 711303
PH. NO: 9800297976



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

No. of credits recommended by NPTEL:1

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



NPTEL Online Certification

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



This certificate is awarded to
SWARNENDU PATRA
for successfully completing the course

Geotechnical Engineering Laboratory

with a consolidated score of **55** %

Online Assignments	22.50/25	Proctored Exam	32.81/75
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Total number of candidates certified in this course: **442**

Sep-Oct 2020
(4 week course)


Prof. Sridhar Iyer
Head, CUEEP & NPTEL Coordinator
IIT Bombay



Indian Institute of Technology Bombay



Roll No: NPTEL20CE48531560040

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: NPTEL20CE48S41810471

To
DEBOJYOTI GHOSH
VILL & POST: JHOREHAT, P.S.-SANKRAIL, DIST-HOWRAH
WEST BENGAL - 711302
PH. NO : 8289543951



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 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
DEBOJYOTI GHOSH

for successfully completing the course


Geotechnical Engineering Laboratory

with a consolidated score of **75** %

Online Assignments	23.33/25	Proctored Exam	52.01/75
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Total number of candidates certified in this course: 442

Sep-Oct 2020
(4 week course)


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



Indian Institute of Technology Bombay



Roll No: NPTEL20CE48S41810471

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

[\(https://swayam.gov.in/\)](https://swayam.gov.in/) [\(https://swayam.gov.in/nc_details/NPTEL\)](https://swayam.gov.in/nc_details/NPTEL)

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Building Materials and Composites

By Prof. Sumana Gupta | IIT Kharagpur

Learners enrolled: 4387

Introduction to the course on Building Materials and Composites



Students as a beginner in the trade of Architecture through this course will get exposed to the different materials used in building construction. Conventional materials would be discussed with an outline of its manufacturing or procuring process, properties, applications and simultaneously the alternative materials replacing them would be also covered. A number of engineered materials have come up in use in the building industry as a substitute of the original material like engineered wood replacing wood or AAC and flyash bricks replacing clay bricks. A coverage on such alternate materials would be included. Large span and highrise structures use composite flooring system or steel for structural system, use of precast walling and flooring systems for fast delivery are other contents to expose students to other material applications in building industry. Finishes as in floors and walls like tiles, stone and clay tile cladding, paints and their appropriateness on different surfaces would be discussed. Nanotechnologies used in this trade would also be mentioned for specific materials stating their use. Specific ways of assembling different materials would also be highlighted to give consolidated knowledge to the students.


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 [\(https://swayam.gov.in/nc_details/NPTEL\)](https://swayam.gov.in/nc_details/NPTEL)
INTENDED AUDIENCE : Architecture

PREREQUISITES : Not Applicable

INDUSTRIES SUPPORT : None

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Summary

Course Status :	Completed
Course Type :	Core
Duration :	8 weeks
Start Date :	14 Sep 2020
End Date :	06 Nov 2020
Exam Date :	18 Dec 2020 IST
Enrollment Ends :	25 Sep 2020
Category :	<ul style="list-style-type: none"> ◦ Architecture and Planning ◦ Construction Materials Technology
Credit Points :	2
Level :	Undergraduate

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(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc20_ar04%2Fpreview&title=Building%20Materials%20and%20Composites%20-%20Course)

Course layout

- Week 1:** Clay products and alternatives like Fly-ash, CEB, CSEB
- Week 2:** Stone, stone tiles and stone dust blocks Wood and engineered wood
- Week 3:** Glass and glazing systems, ceramic tiles, vitrified tiles, insulation
- Week 4:** Fine aggregate, Coarse aggregate, Cement, Concrete
- Week 5:** Precast Items – flooring, roofing, walling system, HBC, AAB
- Week 6:** Ferrous and non-ferrous metals
- Week 7:** Bitumen as damp proofing materials, Paints
- Week 8:** Plastics, Composites, nanotechnology applications



Books and reference


[\(https://swayam.gov.in/\)](https://swayam.gov.in/)

 [\(https://swayam.gov.in/nc_details/NPTEL\)](https://swayam.gov.in/nc_details/NPTEL)

Building Materials, S.K. Duggal

About Swayam (<https://swayam.gov.in/about>) | All Courses |

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Instructor bio



Prof. Sumana Gupta

IIT Kharagpur

Dr. Sumana Gupta is currently working as Assistant Professor in the Department of Architecture and Regional Planning at IIT Kharagpur since 2013. She completed her Masters degree and Doctoral Degree from the same Institute in 2008 and 2012 with a special interest in transportation planning and service quality evaluation of transport related facilities. Prior to this she worked for fourteen years as a professional architect and as a Lecturer in a Government Polytechnic College in India. She completed her Bachelor degree in Architecture in 1992 from Calcutta University. During her professional exposure as an architect she was involved in Science city auditorium design and presently offers the Building Acoustics course to the fourth year architecture students for the last four years.

Course certificate

- The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.
- The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).
- **Date and Time of Exams: 18 December, 2020**, Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.
- Registration url: Announcements will be made when the registration form is open for registrations.
- The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.
- Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

CRITERIA TO GET A CERTIFICATE:

- Average assignment score = 25% of average of best 6 assignments out of the total 8 assignments given in the course.
- Exam score = 75% of the proctored certification exam score out of 100
- Final score = Average assignment score + Exam score

YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE $\geq 10/25$ AND EXAM SCORE $\geq 30/75$.

- If one of the 2 criteria is not met, you will not get the certificate even if the Final score $\geq 40/100$.
- Certificate will have your name, photograph and the score in the final exam with the breakup. It will have the logos of NPTEL and IIT Kharagpur. It will be e-verifiable at nptel.ac.in/noc. (<http://nptel.ac.in/noc>)
- Only the e-certificate will be made available. Hard copies will not be dispatched.



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: NPTEL20AR04S41400054

To
DEBASMITA CHANDRA
2/38, BENACHITY ROAD, KAZI NAZRUL ISLAM
ROAD, A- ZONE, DURGAPUR
WEST BENGAL - 713204
PH. NO :7586950497



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
DEBASMITA CHANDRA
for successfully completing the course

Building Materials and Composites

with a consolidated score of **72** %

Online Assignments	22.04/25	Proctored Exam	49.5/75
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Total number of candidates certified in this course: 379


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

Sep-Nov 2020
(8 week course)


Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL20AR04S41400054

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



FOUNDATION ENGINEERING

PROF. KOUSIK DEB

Department of Civil Engineering
IIT Kharagpur

INTENDED AUDIENCE : Civil Engineering

PRE-REQUISITES : Soil Mechanics

INDUSTRIES APPLICABLE TO : Most of the Civil Engineering companies

COURSE OUTLINE :

This course is an undergraduate core course. The course will focus on the design of shallow foundation and axially loaded pile foundation. The field and laboratory soil testing methods will be discussed to determine the required design parameters. Lateral earth pressures theories and design of various retaining structures will be covered. Design of sheet piles and bracing system will also be discussed. It will also focus on soil arching and its application to design the underground conduits. The selection of proper foundation or characteristics of foundations for different soils will be discussed. The course is suitable for undergraduate students who are preparing for competitive examination like GATE, IES and for university or college examinations. Field Engineers can also be benefited from this course.

ABOUT INSTRUCTOR :

Prof. Kousik Deb is presently working as Associate Professor in Civil Engineering at IIT Kharagpur. Dr. Deb has more than 11 years of research experience and working in the areas of Geosynthetic- Reinforced Earth, Numerical Modeling, Embankment stability. He has published/accepted 90 research articles including about 50 papers in referred journals. He has developed number of numerical and analytical models to study the behavior of improved grounds, embankment stability and underground structures. Under Dr. Deb's guidance, three Ph.D. are awarded and six more are in progress. He has also supervised 13 M.Tech dissertations. Dr. Deb has completed 2 sponsored research projects funded by DST. He has successfully completed more than 12 consultancy projects. As a visiting research fellow at RWTH, Aachen, Germany; Dr. Deb has gained expertise in the cutting edge technologies on ground improvement such as applications of geosynthetics in roadways.

COURSE PLAN :

Week 01 : Introduction, Soil Exploration

Week 02 : Penetration Tests, Geophysical Exploration

Week 03 : Bearing capacity of shallow foundation

Week 04 : Settlement of shallow foundations

Week 05 : Design of shallow foundation

Week 06 : Deep foundation, load transfer mechanism in piles, pile capacity, Pile load test

Week 07 : Pile group capacity, settlement of pile, Design of Pile Foundation

Week 08 : Lateral Earth Pressures-I

Week 09 : Lateral Earth Pressures-II

Week 10 : Earth retaining structures

Week 11 : Sheet Piles and Braced Excavation

Week 12 : Soil Arching, Underground Conduits

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: NPTEL20CE36551810476

To
NILENDU DUTTA
51G, POTTERY ROAD(2ND FLOOR)
PO: TANGRA, PS. ENTALLY
KOLKATA
WEST BENGAL - 700015
PH. NO. 8697748771



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

NILENDU DUTTA


for successfully completing the course

Foundation Engineering


with a consolidated score of **47** %

Online Assignments	16.88/25	Proctored Exam	30/75
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Total number of candidates certified in this course: 138


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

Sep-Dec 2020
(12 week course)


Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL20CE36551810476

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

[\(https://swayam.gov.in/\)](https://swayam.gov.in/) [\(https://swayam.gov.in/nc_details/NPTEL\)](https://swayam.gov.in/nc_details/NPTEL)

X

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Introduction to internet of things

By Prof. Sudip Misra | IIT Kharagpur

Learners enrolled: 28320

Prof Sudip Misra



Internet of Things (IoT) is presently a hot technology worldwide. Government, academia, and industry are involved in different aspects of research, implementation, and business with IoT. IoT cuts across different application domain verticals ranging from civilian to defence sectors. These domains include agriculture, space, healthcare, manufacturing, construction, water, and mining, which are presently transitioning their legacy infrastructure to support IoT. Today it is possible to envision pervasive connectivity, storage, and computation, which, in turn, gives rise to building different IoT solutions. IoT-based applications such as innovative shopping system, infrastructure management in both urban and rural areas, remote health monitoring and emergency notification systems, and transportation systems, are gradually relying on IoT based systems. Therefore, it is very important to learn the fundamentals of this emerging technology.

INTENDED AUDIENCE : CSE, IT, ECE, EE, Instrumentation Engg, Industrial Engineering

PREREQUISITES : Basic



Knowledge

(<https://swayam.gov.in/>)(https://swayam.gov.in/nc_details/NPTEL)

Summary

About Swayam (<https://swayam.gov.in/about>) | All Courses |

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Course Status :	Completed
Course Type :	Elective
Duration :	12 weeks
Start Date :	18 Jan 2021
End Date :	09 Apr 2021
Exam Date :	24 Apr 2021 IST
Enrollment Ends :	01 Feb 2021
Category :	<ul style="list-style-type: none"> Computer Science and Engineering Systems Programming
Credit Points :	3
Level :	Undergraduate

This is an AICTE approved FDP course

(/#facebook)

(/#twitter)

(/#email)

(/#linkedin)

(/#whatsapp)

(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc21_cs17%2Fpreview&title=Introduction%20to%20internet%20of%20things%20-%20Course)

Course layout

Week 1: Introduction to IoT: Part I, Part II, Sensing, Actuation, Basics of Networking: Part-I

Week 2: Basics of Networking: Part-II, Part III, Part IV, Communication Protocols: Part I, Part II

Week 3: Communication Protocols: Part III, Part IV, Part V, Sensor Networks: Part I, Part II

Week 4: Sensor Networks: Part III, Part IV, Part V, Part VI, Machine-to-Machine Communications

Week 5: Interoperability in IoT, Introduction to Arduino Programming: Part I, Part II, Integration of Sensors and Actuators with Arduino: Part I, Part II

Week 6: Introduction to Python programming, Introduction to Raspberry Pi, Implementation of IoT with Raspberry Pi



Week 7: Implementation of Raspberry Pi (contd), Introduction to SDN, SDN for IoT
Week 8: SDN for IoT (contd), Raspberry Pi, Cloud Computing (contd), Sensor Cloud
Week 9: Cloud Computing (contd), Sensor Cloud
Week 10: Fog Computing, Smart Cities and Smart Homes
Week 11: Connected Vehicles, Smart Grid, Industrial IoT
Week 12: Industrial IoT (contd), Case Study: Agriculture, Healthcare, Activity Monitoring

Books and references

- 1) S. Misra, A. Mukherjee, and A. Roy, 2020. *Introduction to IoT*. Cambridge University Press.
- 2) S. Misra, C. Roy, and A. Mukherjee, 2020. *Introduction to Industrial Internet of Things and Industry 4.0*. CRC Press.
- 3) Research Papers

Instructor bio



Prof. Sudip Misra

IIT Kharagpur

Dr. Sudip Misra is a Professor in the Department of Computer Science and Engineering at the Indian Institute of Technology Kharagpur. Prior to this he was associated with Cornell University (USA), Yale University (USA), Nortel Networks (Canada) and the Government of Ontario (Canada). He received his Ph.D. degree in Computer Science from Carleton University, in Ottawa, Canada. He has several years of experience working in the academia, government, and the private sectors in research, teaching, consulting, project management, architecture, software design and product engineering roles. His current research interests include Wireless Ad Hoc and Sensor Networks, Internet of Things (IoT), Computer Networks, Learning Systems, and algorithm design for emerging communication networks. Dr. Misra is the author of over 260 scholarly research papers, including 140+ reputed journal papers. He has won seven research paper awards in different conferences. Recently, he and his students won Samsung Innovation Award and the IEEE ComSoc Student Competition. He was awarded the fellow of NASI. He was also awarded the IEEE ComSoc Asia Pacific Outstanding Young Researcher Award at IEEE GLOBECOM 2012, Anaheim, California, USA. He was also the recipient of several academic awards and fellowships such as the Young Scientist Award (National Academy of Sciences, India), Young Systems Scientist Award (Systems Society of India), Young Engineers Award (Institution of Engineers, India), (Canadian) Governor General's Academic Gold Medal at Carleton University, the University Outstanding Graduate Student Award in the Doctoral level at Carleton University and the National Academy of Sciences, India - Swarna Jayanti Puraskar (Golden Jubilee Award). Dr. Misra was also awarded the Canadian Government's prestigious NSERC Post-Doctoral Fellowship and the Humboldt Research Fellowship in Germany. Dr. Misra has been serving the editorial boards of distinguished journals such as the Transactions on Vehicular Technology, Transactions on Mobile Computing, International Journal of Communication Systems (Wiley) and the IET Wireless Sensor Systems (UK). In the past, he served as the Associate Editor/Editorial Board Member of the Telecommunication Systems Journal (Springer), Security and Communication Networks Journal (Wiley), and the EURASIP Journal of Wireless Communications and Networking, IET Communications Journal, and the Computers and Electrical Engineering Journal (Elsevier). Dr. Misra has published 10 books in the areas of wireless ad hoc networks, wireless sensor networks, wireless mesh networks, communication networks.

distributed systems, net
Cambridge University Pr



fault tolerance, and information and coding theory, published by reputed publishers such as
(<https://swayam.gov.in/>) (https://swayam.gov.in/nc_details/NPTEL)



Course certificate

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The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.

The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).

Date and Time of Exams: **24 April 2021** Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.

Registration url: Announcements will be made when the registration form is open for registrations.

The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.

Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

CRITERIA TO GET A CERTIFICATE

Average assignment score = 25% of average of best 8 assignments out of the total 12 assignments given in the course.

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

Final score = Average assignment score + Exam score

YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE $\geq 10/25$ AND EXAM SCORE $\geq 30/75$. If one of the 2 criteria is not met, you will not get the certificate even if the Final score $\geq 40/100$.

Certificate will have your name, photograph and the score in the final exam with the breakup. It will have the logos of NPTEL and IIT Kharagpur. It will be e-verifiable at nptel.ac.in/noc (<http://nptel.ac.in/noc>).

Only the e-certificate will be made available. Hard copies will not be dispatched.

Once again, thanks for your interest in our online courses and certification. Happy learning.

- NPTEL team



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: NPTEL21CS17513840727

To
AKASH KUMAR
ARHANGO, DHANWAN GIRIDIH, JHARKHAND 825418
193 ANDUL ROAD, BL CG-16 4TH FL, HOWRAH
HOWRAH
WESTBENGAL - 711109
PH. NO. 7366978726



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

AKASH KUMAR


for successfully completing the course

Introduction to Internet of Things


with a consolidated score of **62** %

Online Assignments	23.06/25	Proctored Exam	39/75
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Total number of candidates certified in this course: 2555


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

Jan-Apr 2021
(12 week course)


Prof. Debjani Chakraborty
Coordinator, NPTEL
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No: NPTEL21CS17513840727

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

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Enhancing Soft Skills and Personality

By Prof. T. Ravichandran | IIT Kanpur

Learners enrolled: 44708

noc19-hs22-Enhancing Soft Skills and Personality



The course aims to cause an enhanced awareness about the significance of soft skills in professional and inter-personal communications and facilitate an all-round development of personality. Hard or technical skills help securing a basic position in one's life and career. But only soft skills can ensure a person retain it, climb further, reach a pinnacle, achieve excellence, and derive fulfilment and supreme joy. Soft skills comprise pleasant and appealing personality traits as self-confidence, positive attitude, emotional intelligence, social grace, flexibility, friendliness and effective communication skills. The focus of this course is on interpersonal and management skills. It has been approved for "Faculty Development Programme (https://nptel.ac.in/AICTE_FDP/)" by AICTE.

INTENDED AUDIENCE : Students, Teachers, Professionals, Trainers, Leaders, Employers**PREREQUISITES :** No prerequisite is required. Background knowledge of MOOC Course on "Developing Soft Skills and Personality" is preferred. "Developing Soft Skills and Personality" course was also recognized as FDP during Aug-Oct'18 Period.

INDUSTRY SUPPORT : All
trainee programs



is/organisations will recognize and value this course and recommend this for their employees and
(<https://swayam.gov.in/>) (https://swayam.gov.in/nc_details/NPTEL)

Summary

About Swayam (<https://swayam.gov.in/about>) | All Courses |

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Course Status :	Completed
Course Type :	Elective
Duration :	8 weeks
Start Date :	15 Feb 2021
End Date :	09 Apr 2021
Exam Date :	24 Apr 2021 IST
Enrollment Ends :	15 Feb 2021
Category :	<ul style="list-style-type: none"> Humanities and Social Sciences
Credit Points :	2
Level :	Undergraduate/Postgraduate

This is an AICTE approved FDP course

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(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc21_hs02%2Fpreview&title=Enhancing%20Soft%20Skills%20and%20Personality%20-%20Course)

Course layout

Week 1 :

- Highlights of Developing Soft Skills and Personality Course-1-24
- Highlights of Developing Soft Skills and Personality Course-25-48
- Definitions and Types of Mindset
- Learning Mindsets
- Secrets of Developing Growth Mindsets

Week 2 :

- Importance of Time and Understanding Perceptions of Time
- Using Time Efficiently
- Understanding Procrastination
- Overcoming Procrastination



- Don't Say "Yes" to Ma

Week 3 :
[\(https://swayam.gov.in/\)](https://swayam.gov.in/)

 [\(https://swayam.gov.in/nc_details/NPTEL\)](https://swayam.gov.in/nc_details/NPTEL)

- Types of People
- How to Say "No"
- Controlling Anger
- Gaining Power from Positive Thinking-1
- Gaining Power from Positive Thinking-2

[About Swayam \(https://swayam.gov.in/about\)](https://swayam.gov.in/about) | [All Courses](#) |

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Week 4 :

- What Makes Others Dislike You?
- What Makes Others Like You?-1
- What Makes Others Like You?-2
- Being Attractive-1
- Being Attractive-2

Week 5 :

- Common Errors-1
- Common Errors-2
- Common Errors-3
- Common Errors-4
- Common Errors-5

Week 6 :

- Humour in Communication
- Humour in the Workplace
- Function of Humour in the Workplace
- Money and Personality
- Managing Money

Week 7 :

- Health and Personality
- Managing Health-1: Importance of Exercise
- Managing Health-2: Diet and Sleep
- Love and Personality
- Managing Love

Week 8 :

- Ethics and Etiquette
- Business Etiquette
- Managing Mind and Memory
- Improving Memory
- Care for Environment
- Highlights of the Course

Books and references

- Dorch, Patricia. What Are Soft Skills? New York:Execu Dress Publisher, 2013.
- Kamin, Maxine. Soft Skills Revolution: A Guide for Connecting with Compassion for Trainers, Teams, and Leaders. Washington, DC: Pfeiffer & Company, 2013.
- Klaus, Peggy, Jane Rohman & Molly Hamaker. The Hard Truth about Soft Skills. London:HarperCollins E-books, 2007.



- Petes S. J., Francis. S. Professional Communication. New Delhi: Tata McGraw-Hill Education, 2011.
- Stein, Steven J. & ... (https://swayam.gov.in/) ... (https://swayam.gov.in/) ... (https://swayam.gov.in/)

Instructor bio

About Swayam (<https://swayam.gov.in/about>) | All Courses |

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Prof. T. Ravichandran

IIT Kanpur

Dr. T. RAVICHANDRAN is presently a Professor of English in the Department of Humanities and Social Sciences at the Indian Institute of Technology Kanpur, Uttar Pradesh, India. He has written about fifty research articles/book chapters, supervised six doctoral theses, edited a special issue on Cyberpunk Literature for the Creative Forum Journal, and published a book on Postmodern Identity. He is a recipient of the Fulbright-Nehru Academic and Professional Excellence Fellowship (2014-15) for his research/teaching at Duke University, North Carolina, USA. He is honored with Champa Devi Gangwal Chair Professorship at IIT Kanpur. In his distinguished twenty-five years of teaching career, he has taught various courses in English Language and Literature. His NPTEL Video and Web courses on Communication Skills are well-acclaimed nationally and internationally. His NPTEL MOOC on Developing Soft Skills and Personality became hugely popular and well-received by about fifteen thousand participants from India and abroad.

Course certificate

The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.

The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).

Date and Time of Exams: **24 April 2021** Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.

Registration url: Announcements will be made when the registration form is open for registrations.

The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.

Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

CRITERIA TO GET A CERTIFICATE

Average assignment score = 25% of average of best 6 assignments out of the total 8 assignments given in the course.

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

Final score = Average assignment score + Exam score

YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE $\geq 10/25$ AND EXAM SCORE $\geq 30/75$. If one of the 2 criteria is not met, you will not get the certificate even if the Final score $\geq 40/100$.

Certificate will have your name, photograph and the score in the final exam with the breakup. It will have the logos of NPTEL and IIT Kanpur e-verifiable at nptel.ac.in/noc (<http://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: NPTEL21HS02S23160125

To
ABHRANIL DAS BISWAS
OASIS RESIDENCY, I-5, NUTANCHATI,
PO- BANKURA, PS- BANKURA SADAR
BANKURA
WEST BENGAL - 722101
PH. NO. 9602635767



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

ABHRANIL DAS BISWAS

for successfully completing the course

Enhancing Soft Skills and Personality

with a consolidated score of **62** %

Online Assignments	22.92/25	Proctored Exam	39.26/75
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Total number of candidates certified in this course: 7339

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

Feb-Apr 2021
(8 week course)

Prof. Satyaki Froy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL21HS02S23160125

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: NPTEL21HS02S13840360

To
ANUBHAB SANTRA
VILL JOYNAGAR PO PIRPUR
PS ULUBERIA
HOWRAH
WEST BENGAL - 711303
PH. NO : 7044389336



Score	Type of Certificate
≥ 90	Elite+Gold
75-89	Elite+Silver
≥ 80	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

ANUBHAB SANTRA

for successfully completing the course

Enhancing Soft Skills and Personality

with a consolidated score of **71** %

Online Assignments	22.67/25	Proctored Exam	48.35/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 7339

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

Feb-Apr 2021
(8 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL21HS02S13840360

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: NPTEL21HS02S13840414

To
NAMALA ANISHA DORA
ANJALI APARTMENT FLAT NO-1 GROUND FLOOR
UTTAR BAKSARA FARIDPUR BLOCK SANTRAGACHI
HOWRAH
WEST BENGAL - 711110
PH. NO :7980618607



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

NAMALA ANISHA DORA

for successfully completing the course

Enhancing Soft Skills and Personality

with a consolidated score of 62 %

Online Assignments	21.17/25	Proctored Exam	40.56/75
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Total number of candidates certified in this course: 7339

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

Feb-Apr 2021
(8 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL21HS02S13840414

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: NPTEL21HS02523840207

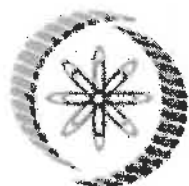
To
AYAN SAMANTA
VILL: CHANDANAPARA
BENAPUR
BAGNAH
WEST BENGAL - 711312
PH. NO: 8530926911



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

AYAN SAMANTA

for successfully completing the course

Enhancing Soft Skills and Personality

with a consolidated score of **52** %

Online Assignments	22.13/25	Proctored Exam	30/75
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Total number of candidates certified in this course: 7339

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

Feb-Apr 2021
(8 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL21HS02523840207

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: NPTEL21HS02S13840315

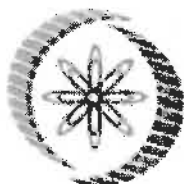
To
DEDIPYA SIDHANTA
28/1BHATTACHARYA PARA LANE
6/2 AKSHAY CHAKROBORTY LANE, SANTRAGACHI
HOWRAH
WEST BENGAL - 711104
PH. NO. 6290451471



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

DEDIPYA SIDHANTA

for successfully completing the course

Enhancing Soft Skills and Personality

with a consolidated score of **65** %

Online Assignments	12.29/25	Proctored Exam	52.34/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **7339**

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

Feb-Apr 2021
(8 week course)

Prof. Satyaki Ray
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL21HS02S13840315

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

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Roll No: NPTEL21HS02S13840255

To
TANIA HAZRA
BETA1, AMTA, HOWRAH
WEST BENGAL - 711401
PH. NO: 8297269773



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

TANIA HAZRA

for successfully completing the course

Enhancing Soft Skills and Personality

with a consolidated score of **71** %

Online Assignments	23.33/25	Proctored Exam	47.95/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 7339

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

Feb-Apr 2021
(8 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL21HS02S13840255

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: NPTEL21HS02523840357

To
SHIVAM JHA
SANTHAGAR NEAR MARIA'S DAY SCHOOL
P.O. D.S. LANE
HOWRAH
WEST BENGAL - 711109
PIN NO: 7685027396



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

All additional 1 credit may be awarded if the University deems it fit, based on the actual student efforts involved.



NPTEL Online Certification

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



This certificate is awarded to

SHIVAM JHA

for successfully completing the course

Enhancing Soft Skills and Personality

with a consolidated score of **56** %

Online Assignments	22.79/25	Proctored Exam	33.16/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 7339

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

Feb-Apr 2021
(8 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL21HS02523840357

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: NPTEL21HS02523840246

To
MANJIR ADAS
ANDUL PURBAPARA (RAJBARI)
ANDUL MOJURI
HOWRAH
WEST BENGAL - 711302
PH. NO :8902255512



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 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

MANJIR ADAS

for successfully completing the course

Enhancing Soft Skills and Personality

with a consolidated score of **73** %

Online Assignments	22.79/25	Proctored Exam	50.62/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 7339

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

Feb-Apr 2021
(8 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL21HS02523840246

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: NPTEL21HS02S23840231

To
PAYEL PRAMANICK
CHAKKASHI 2ND COLONY
WEST BENGAL - 711307
PH. NO. 8290658045



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
PAYEL PRAMANICK
for successfully completing the course

Enhancing Soft Skills and Personality

with a consolidated score of **58** %

Online Assignments	22.25/25	Proctored Exam	36.11/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 7339

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

Feb-Apr 2021
(8 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL21HS02S23840231

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: NPTEL21HS02S23840003

To
PINAKI SHASHISHEKHAR MATHAN
1/51, MIRPARA ROAD, LILUAN
JALAMATH
HOWRAH
WEST BENGAL - 711203
PH. NO 9007401551



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

PINAKI SHASHISHEKHAR MATHAN

for successfully completing the course

Enhancing Soft Skills and Personality

with a consolidated score of **57** %

Online Assignments	24.08/25	Proctored Exam	33.33/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 7339

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

Feb-Apr 2021
(8 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL21HS02S23840003

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: NPTEL21HS02S23580019

To
RAHUL HAZRA
VILL+P.O. GOPALPUR
P.S. MAHISHADAL
HALDIA
WEST BENGAL - 721638
PH. NO. 8927108792



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

RAHUL HAZRA

for successfully completing the course

Enhancing Soft Skills and Personality

with a consolidated score of **66** %

Online Assignments	23.21/25	Proctored Exam	42.8/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: 7339

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

Feb-Apr 2021
(8 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL21HS02S23580019

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: NPTEL21HS02S23840237

To
RAHUL SHAW
11/11 MEM CHAKRABORTY LANE HOWRAH-1
WEST BENGAL - 711101
PIN NO. 6290741412



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

RAHUL SHAW

for successfully completing the course



Enhancing Soft Skills and Personality

with a consolidated score of **75** %

Online Assignments	22.13/25	Proctored Exam	52.56/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 7339

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

Feb-Apr 2021
(8 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL21HS02S23840237

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: NPTEL21HS02S23840222

To
SAMRAT ADHIKARY
RAMCHANDRAPUR, PATRAPARA, SANKRAIL, HOWRAH
WEST BENGAL - 711313
PH. NO : 7435648130



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 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

SAMRAT ADHIKARY

for successfully completing the course

Enhancing Soft Skills and Personality

with a consolidated score of **52** %

Online Assignments	12.54/25	Proctored Exam	39.44/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 7339

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

Feb-Apr 2021
(8 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL21HS02S23840222

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: NPTEL21HS02S23580037

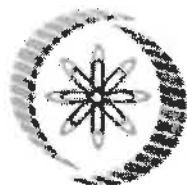
To
MRINMAY SASMAL
MANSANTOSH
JALPAI
MANDAKUMAR
WEST BENGAL - 721652
PH. NO : 6296038517



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

MRINMAY SASMAL

for successfully completing the course

Enhancing Soft Skills and Personality

with a consolidated score of **54** %

Online Assignments	23/25	Proctored Exam	31.47/75
--------------------	-------	----------------	----------

Total number of candidates certified in this course: 7339

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

Feb-Apr 2021
(8 week course)

Prof. Satyaki Hoiy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL21HS02S23580037

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: NPTEL21HS02S23840537

To
SHISHIR JHA
ANAND NAGAR
CHANDMARI, BELUR
HOWRAH
WEST BENGAL - 711227
PH. NO 9336024127



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

SHISHIR JHA

for successfully completing the course



Enhancing Soft Skills and Personality

with a consolidated score of **75** %

Online Assignments	22.21/25	Proctored Exam	53.18/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 7339

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

Feb-Apr 2021
(8 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL21HS02S23840537

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: NPTEL21HS02S23580007

To
SOUMA MAITI
VILL. BALIDANGRI, P.O. PANSKURA,
DIST. PURBA MEDINIPUR, STATE. WEST BENGAL
PANSKURA
WEST BENGAL - 721139
PH. NO :9134914937



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 3 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

SOUMA MAITI

for successfully completing the course



Enhancing Soft Skills and Personality

with a consolidated score of **78** %

Online Assignments	23.46/25	Proctored Exam	54.59/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 7339

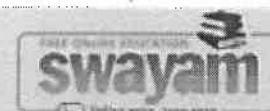
Prof. Rajesh M. Hegde
Chairman, Centre for Continuing Education
IIT Kanpur

Feb-Apr 2021
(8 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL21HS02S23580007

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: NPTEL21HS02S13840279

To
SUBHAM AGARWAL
BHAIKUN DUTTA LANE
NANDI BAGAN
SALUDA
WEST BENGAL - 711106
PH. NO. 9433214282



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

SUBHAM AGARWAL

for successfully completing the course

Enhancing Soft Skills and Personality

with a consolidated score of **65** %

Online Assignments	22.21/25	Proctored Exam	43.22/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 7339

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

Feb-Apr 2021
(8 week course)

Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL21HS02S13840279

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. Details of signature, address

NPTEL MESSAGE
 Dear Student,
 You have successfully completed the course.
 Your score is 50%.
 Your name is Twinkle Jena.
 Your address is [redacted].
 Your email is [redacted].



For more information, visit the NPTEL website.
 The website is www.nptel.ac.in.
 For any queries, contact the NPTEL helpdesk at npTEL@nptel.ac.in.

Score	Type of Certificate
50%	Distinction
75%	Distinction
60%	Distinction
50%	Distinction
40%	Distinction
30%	Distinction
20%	Distinction
10%	Distinction
0%	Distinction



NPTEL Online Certification

Presented by the Ministry of HRD, Govt. of India



This certificate is awarded to

TWINKLE JENA

for successfully completing the course

Enhancing Soft Skills and Personality

with a maximum score of 50 %

Online Assignments : 15.55% | Practical Exam : 34.45%

Total number of candidates certified in this course : 1234

[Signature]
 NPTEL
 National Institute of Technology

Highly Apt
 in online course

[Signature]
 NPTEL
 National Institute of Technology



National Institute of Technology



For the NPTEL (2014-2015) 1000000

To verify and check status, visit www.nptel.ac.in

[\(https://swayam.gov.in/\)](https://swayam.gov.in/) [\(https://swayam.gov.in/nc_details/NPTEL\)](https://swayam.gov.in/nc_details/NPTEL)

X

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Introduction to Civil Engineering Profession

By Prof. Ravindra Gettu, Prof. Subhadeep Banerjee | IIT Madras

Learners enrolled: 3014**Introduction to Civil Engineering Profession _ Introductory vid...**

The course introduces the civil engineering profession and the degree programme to first year students and prospective students. The different disciplines of civil engineering are briefly explained, along with the pre-requisites, scope and opportunities. Career prospects and novel/emerging areas are also presented. This should be a compulsory first course in civil engineering to present the perspective for the undergraduate students.

INTENDED AUDIENCE : 1st year civil engineering students**PREREQUISITES :** High school education**INDUSTRY SUPPORT :** NIL

Summary

Course Status :**Completed****Course Type :****Core**

Duration :	8 weeks
Start Date :	18 Jan 2021
End Date :	21 Mar 2021
Exam Date :	21 Mar 2021 IST
Enrollment Ends :	01 Feb 2021
Category :	<ul style="list-style-type: none"> Civil Engineering
Credit Points :	2
Level :	Undergraduate

[\(/#facebook\)](#)
[\(/#twitter\)](#)
[\(/#email\)](#)
[\(/#linkedin\)](#)
[\(/#whatsapp\)](#)

(https://www.addtoany.com/share?url=https%3A%2F%2Fonlinecourses.nptel.ac.in%2Fnoc21_ce12%2Fpreview&title=Introduction%20to%20Civil%20Engineering%20Profession%20-%20Course)

Course layout

Week 1: What is Civil Engineering? Different disciplines of civil engineering. Scope and prospects. Heritage structures, architecture **Week 2:** Environmental Engineering. Prevention of environmental impact. Pollution, waste and water treatment **Week 3:** Geotechnical Engineering. Soil mechanics and foundations. Hydraulics and water resources **Week 4:** Construction Materials and Methods. Infrastructure Engineering. Sustainability. **Week 5:** Structural Engineering. Analysis, design and modelling **Week 6:** Highway Engineering. Traffic Engineering and Planning **Week 7:** Automation and Robotics in Construction. Water Security. **Week 8:** Novel areas. Career Prospects

Books and references

NILL

Instructor bio



Prof. Ravindra Gettu

IIT Madras



Prof. Ravindra Gettu is a chair in civil engineering at IIT Madras. He has coordinated the introductory course at IITM and given lectures at other institutes on civil engineering. His specific area of expertise is construction materials.

About Swayam (<https://swayam.gov.in/about>) | All Courses |

0



Prof. Subhadeep Banerjee

Prof. Subhadeep Banerjee is an associate professor of civil engineering at IIT Madras. He received his PhD in Civil Engineering from National University of Singapore in 2010. Since 2012, he is involved in teaching various civil engineering core courses, such as Geology & Soil Mechanics, and Advanced Foundation Engineering for UG and PG students. His expertise includes seismic soil-foundation interactions, cyclic behaviour of geomaterials and finite element analysis of complex dynamic problems.

Course certificate

The course is free to enroll and learn from. But if you want a certificate, you have to register and write the proctored exam conducted by us in person at any of the designated exam centres.

The exam is optional for a fee of Rs 1000/- (Rupees one thousand only).

Date and Time of Exams: **21 March 2021** Morning session 9am to 12 noon; Afternoon Session 2pm to 5pm.

Registration url: Announcements will be made when the registration form is open for registrations.

The online registration form has to be filled and the certification exam fee needs to be paid. More details will be made available when the exam registration form is published. If there are any changes, it will be mentioned then.

Please check the form for more details on the cities where the exams will be held, the conditions you agree to when you fill the form etc.

CRITERIA TO GET A CERTIFICATE

Average assignment score = 25% of average of best 6 assignments out of the total 8 assignments given in the course.

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

Final score = Average assignment score + Exam score

YOU WILL BE ELIGIBLE FOR A CERTIFICATE ONLY IF AVERAGE ASSIGNMENT SCORE $\geq 10/25$ AND EXAM SCORE $\geq 30/75$. If one of the 2 criteria is not met, you will not get the certificate even if the Final score $\geq 40/100$.

Certificate will have your name, photograph and the score in the final exam with the breakup. It will have the logos of NPTEL and IIT Madras. It will be e-verifiable at nptel.ac.in/noc (<http://nptel.ac.in/noc>).

Only the e-certificate will be made available. Hard copies will not be dispatched.

Once again, thanks for your interest in our online courses and certification. Happy learning.

- NPTEL team



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: NPTEL21CE12S21820212

To
MOUSUMI MANNA
BALITIKURI KHALDHARPARA HOWRAH
SAME
HOWRAH
WEST BENGAL - 711113
PH. NO :9748470021



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

MOUSUMI MANNA

for successfully completing the course

Introduction to Civil Engineering Profession

with a consolidated score of **52** %

Online Assignments	17.33/25	Proctored Exam	34.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **439**

Devendra Jalihal

Prof. Devendra Jalihal
Chairman
Centre for Continuing Education, IITM

Jan-Mar 2021
(8 week course)

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



Indian Institute of Technology Madras



Roll No:NPTEL21CE12S21820212

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: NPTEL21CE12S11560017

To
BODHISATTWA MAHATA
VILL - FATEPUR, P.O. - UDANG
P.S. - AMTA
HOWRAH
WEST BENGAL - 711401
PH. NO : 7864838659



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

BODHISATTWA MAHATA

for successfully completing the course

Introduction to Civil Engineering Profession

with a consolidated score of **67** %

Online Assignments	16.88/25	Proctored Exam	50.25/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 439

Devendra Jalihal

Prof. Devendra Jalihal

Chairman

Centre for Continuing Education, IITM

Jan-Mar 2021

(8 week course)

Prof. Andrew Thangaraj

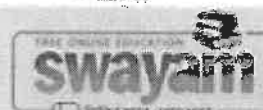
Prof. Andrew Thangaraj

NPTEL Coordinator

at Madras



Indian Institute of Technology Madras



Roll No: NPTEL21CE12S11560017

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: NPTEL21CE12S21820525

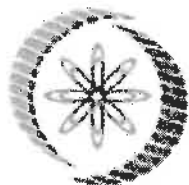
To
JOYDEB PANJA
FLAT NO. 504, RADHAKUNJ APART, ANDUL ROAD
OPP OF OXFORD HIGH SCHOOL, HALDER PARA
HOWRAH
WEST BENGAL - 711109
PH. NO : 9830140921



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

JOYDEB PANJA

for successfully completing the course

Introduction to Civil Engineering Profession

with a consolidated score of **71** %

Online Assignments	22.92/25	Proctored Exam	48/75
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Total number of candidates certified in this course: 439

Devendra Jalihal

Prof. Devendra Jalihal

Chairman

Centre for Continuing Education, IITM

Jan-Mar 2021

(8 week course)

Prof. Andrew Thangaraj

Prof. Andrew Thangaraj

NPTEL Coordinator

IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL21CE12S21820525

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



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Uluberia, Howrah, WestBengal-711316

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Online Aptitude Training

Course Title- “Online Aptitude Training” in association with National Small Industries Limited

Duration-6 Days

Course Start Date- 4th January, 2021

Course End Date- 9th January, 2021

Mode- Online

Number of Students Enrolled- 42

Number of Students Passed- 42

Assessment –Written and verbal test



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Students enrollment details

OmDayal Group of Institutions		
List of students for Online Aptitude Training (4/1/2021-9/1/2021)		
Sl. No.	Names	Stream
1	RANANITA BERA	CSE
2	SUSMITA MAITY	CSE
3	AMIT PRAKASH PRASAD	CSE
4	ARPAN JANA	CSE
5	SNEHASHIS BANERJEE	CSE
6	SAGUPTA PARVEEN	CSE
7	SRISHTI KARN	CSE
8	DEBOJYOTI ROY CHOWDHURY	CSE
9	PUJA KARATI	CSE
10	ARIJIT ADHIKARY	CSE
11	NISHA SHARMA	CSE
12	RITU PRAMANIK	CSE
13	KAZI AFRIDI	CSE
14	DIYA DEY	CSE
15	SHATABDI DAS	CSE
16	IMRAN ALAM	CSE
17	SHREYA MONDAL	CSE
18	PRITHA MUKHERJEE	CSE
19	PAMELA SENGUPTA	CSE
20	SOUMYODIP GHOSH	CSE
21	ADITI PAUL	CSE
22	ARYAMA JUIN	CSE
23	SATYAM SWET	CSE
24	SOUMYAJIT ACHARYA	CSE
25	ABHIRUP CHATTERJEE	CSE
26	YUKTA AGARWAL	CSE
27	DULAL MARANDI	CE
28	RIDDHI MONDAL	CE
29	SANJUKTA KOLEY	CE
30	SAMARPAN BAG	CE
31	SUBHABRATA PAL	CE
32	KAASHIF ZAMAN	CE
33	CHETANA SEN	CE



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34	ABHIK MALLIK	ME
35	SAURA SHUVRA KUMAR	ME
36	AMAN SINGH	ME
37	RAJESWARI DAS	ECE
38	PRATYUSHA DAS	ECE
39	MONALISA MANNA	ECE
40	SUNAM BANERJEE	ECE
41	SUMIT MALAKAR	ECE
42	OLIVIA GUPTA	ECE



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ONLINE APTITUDE TRAINING

[04.01.2021 – 09.01.2021]

Curriculum & Schedule

DAY 1 04/01/2021	NUMERICAL APTITUDE
DAY 1 05/01/2021	REASONING
DAY 1 06/01/2021	VERBAL ABILITY
DAY 1 07/01/2021	TECHNICAL WRITING ABILITY
DAY 1 08/01/2021	GENERAL AWARENESS
DAY 1 09/01/2021	APTITUDE TESTS



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ONLINE APTITUDE TRAINING

Summary Report

An Online Aptitude Training was conducted by National Small Industries Corporation (NSIC) and organised by OmDayal Group of Institutions from 4th to 9th January, 2021. The resource person of this program was Mr. Sourav Basak, Aptitude Trainer, NSIC.

The 6-Day Training session included topics on Quantitative Aptitude, Logical Reasoning, Verbal and Non-Verbal Ability and General Awareness. An assessment test was conducted on the final day to evaluate the learning outcomes of the students.

A total of 42 students actively participated in the Training Session.



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ONLINE APTITUDE TRAINING

[04.01.2021 – 09.01.2021]

Training Assessment

The students participated in the Aptitude Training Program were assessed through written and verbal tests conducted on 09.01.2021. The marks obtained by the students are provided below.

OmDayal Group of Institutions			Assessment Test (Marks)					
List of students for Online Aptitude Training								
Sl. No.	Names	Stream	Numerical Aptitude (20)	Reasoning (20)	Technical Writing (20)	General Awareness (20)	GD/PI (20)	Total (100)
1	Rananita Bera	CSE	17	16	15	12	15	75
2	Susmita Maity	CSE	18	13	13	15	16	75
3	Amit Prakash Prasad	CSE	16	13	16	13	15	73
4	Arpan Jana	CSE	16	17	15	12	16	76
5	Snehashis Banerjee	CSE	17	16	16	11	16	76
6	Sagupta Parveen	CSE	18	14	15	13	15	75
7	Srishti Karn	CSE	17	17	14	13	16	77
8	Debojyoti Roy Chowdhury	CSE	16	16	11	12	15	70
9	Puja Karati	CSE	15	16	12	11	16	70
10	Arijit Adhikary	CSE	14	15	13	15	15	72
11	Nisha Sharma	CSE	14	13	13	16	16	72
12	Ritu Pramanik	CSE	15	16	11	13	15	70
13	Kazi Afridi	CSE	13	17	15	15	15	75
14	Diya Dey	CSE	16	16	14	11	15	72
15	Shatabdi Das	CSE	17	16	15	11	16	75
16	Imran Alam	CSE	16	14	13	12	15	70
17	Shreya Mondal	CSE	14	15	15	13	16	73
18	Pritha Mukherjee	CSE	15	14	15	12	15	71
19	Pamela Sengupta	CSE	16	16	15	11	16	74
20	Soumyodip Ghosh	CSE	14	16	14	11	15	70

OmDayal Group of Institutions			Assessment Test (Marks)					
List of students for Online Aptitude Training								
Sl. No.	Names	Stream	Numerical Aptitude (20)	Reasoning (20)	Technical Writing (20)	General Awareness (20)	GD/PI (20)	Total (100)
21	Aditi Paul	CSE	13	14	15	15	15	72
22	Aryama Jain	CSE	15	13	14	14	15	71
23	Satyam Swet	CSE	17	13	16	12	15	73
24	Soumyajit Acharya	CSE	14	15	15	13	15	72
25	Abhirup Chatterjee	CSE	13	14	16	12	16	71
26	Yukta Agarwal	CSE	15	15	16	12	15	73
27	Dulal Marandi	CE	15	16	15	12	15	73
28	Riddhi Mondal	CE	17	15	14	15	16	77
29	Sanjukta Koley	CE	16	15	15	12	16	74
30	Samarpan Bag	CE	15	16	15	14	16	76
31	Subhabrata Pal	CE	12	16	15	14	15	72
32	Kaashif Zaman	CE	13	14	16	13	15	71
33	Chetana Sen	CE	15	16	12	13	15	71
34	Abhik Mallik	ME	16	14	13	16	16	75
35	Saura Shuvra Kumar	ME	18	16	15	12	15	76
36	Aman Singh	ME	14	13	15	13	15	70
37	Rajeswari Das	ECE	16	15	14	14	15	74
38	Pratyusha Das	ECE	13	16	13	12	16	70
39	Monalisa Manna	ECE	16	16	15	12	15	74
40	Sunam Banerjee	ECE	18	14	17	12	15	76
41	Sumit Malakar	ECE	18	13	13	12	16	72
42	Olivia Gupta	ECE	16	14	15	12	15	72

Dipankar Hazra

Prof. Dipankar Hazra
Event Coordinator (Online Aptitude Training)
OmDayal Group of Institutions



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ATTENDANCE

OmDayal Group of Institutions								
List of students for Online Aptitude Training (4/1/2021-9/1/2021)								
Sl. No.	Names	Stream	04-01-2021	05-01-2021	06-01-2021	07-01-2021	08-01-2021	09-01-2021
1	RANANITA BERA	CSE	P	P	P	P	P	P
2	SUSMITA MAITY	CSE	P	P	P	P	P	P
3	AMIT PRAKASH PRASAD	CSE	P	A	P	P	P	P
4	ARPAN JANA	CSE	P	P	P	P	P	P
5	SNEHASHIS BANERJEE	CSE	P	P	P	P	P	P
6	SAGUPTA PARVEEN	CSE	P	P	P	P	P	P
7	SRISHTI KARN	CSE	P	P	P	P	P	P
8	DEBOJYOTI ROY CHOWDHURY	CSE	P	P	P	P	P	P
9	PUJA KARATI	CSE	P	A	P	P	P	P
10	ARIJIT ADHIKARY	CSE	P	P	P	P	P	P
11	NISHA SHARMA	CSE	P	P	P	P	P	P
12	RITU PRAMANIK	CSE	P	P	P	P	P	P
13	KAZI AFRIDI	CSE	P	P	P	P	P	P
14	DIYA DEY	CSE	P	P	P	P	A	P
15	SHATABDI DAS	CSE	P	P	P	P	P	P
16	IMRAN ALAM	CSE	P	P	P	A	P	P
17	SHREYA MONDAL	CSE	P	P	P	P	P	P
18	PRITHA MUKHERJEE	CSE	P	P	P	P	P	P
19	PAMELA SENGUPTA	CSE	P	P	P	P	P	P
20	SOUMYODIP GHOSH	CSE	P	P	P	P	P	P
21	ADITI PAUL	CSE	P	P	P	P	P	P
22	ARYAMA JUIN	CSE	P	P	P	P	P	P
23	SATYAM SWET	CSE	P	P	P	P	P	P
24	SOUFYAJIT ACHARYA	CSE	P	P	P	P	P	P
25	ABHIRUP CHATTERJEE	CSE	P	P	P	P	P	P
26	YUKTA AGARWAL	CSE	P	P	P	P	P	P
27	DULAL MARANDI	CE	P	P	P	P	P	P
28	RIDDHI MONDAL	CE	P	P	P	P	P	P
29	SANJUKTA KOLEY	CE	P	P	P	P	P	P
30	SAMARPAN BAG	CE	P	P	P	P	P	P
31	SUBHABRATA PAL	CE	P	P	P	P	P	P
32	KAASHIF ZAMAN	CE	P	P	P	P	P	P
33	CHETANA SEN	CE	P	P	P	P	P	P
34	ABHIK MALLIK	ME	P	P	P	P	P	P
35	SAURA SHUVRA KUMAR	ME	P	P	P	P	P	P
36	AMAN SINGH	ME	P	P	P	P	P	P
37	RAJESWARI DAS	ECE	P	P	P	P	P	P
38	PRATYUSHA DAS	ECE	P	P	P	P	P	P
39	MONALISA MANNA	ECE	P	P	P	P	P	P
40	SUNAM BANERJEE	ECE	P	P	P	P	P	P
41	SUMIT MALAKAR	ECE	P	P	P	P	P	P
42	OLIVIA GUPTA	ECE	P	P	P	P	P	P



CERTIFICATE OF PARTICIPATION



This is to certify that

Mr. / Ms. Saura Shuvra Kumar

of Department of Mechanical Engineering, 4th year,

has actively participated in the Online Aptitude Training Classes conducted by National Small Industries Corporation (NSIC) and organised by OmDayal Group of Institutions from
4th – 9th January 2021.

Dr. Prosenjit Sen
Vice Principal
OmDayal Group of Institutions

Prof. Dipankar Hazra
Event Coordinator (Online Aptitude Training)
OmDayal Group of Institutions



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ENGINEERING COLLEGE | ARCHITECTURE COLLEGE

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Add on /Certificate/Value added programs offered during 2019-20

Year 2019-20			
Sl. No.	Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year
1	Introduction to Revit & Etabs Software	1 day	22
2	Group Discussion Seminar	3 days	110



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Introduction to Revit &Etabs Software

Course Title-Introduction to Revit &Etabs Softwarein collaboration with EDUCADD

Duration-1 Day

Date-29/02/2020

Mode- Offline

Number of Students Enrolled-22

Number of Students Passed-22

Instructor- Mr. SubhajitBasak

Assessment -All participant students will get the certificate



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Student Enrollment Details

List of Students participated in Workshop

Roll No	Name	Signature
27501317064	Subhabrata Pal	Subhabrata Pal
27501317065	Sanjukta Koley	Sanjukta Koley
27501317066	Samarpan Bae	Samarpan Bae
27501317067	Riddhi Mondal	Riddhi Mondal
27501317068	P Pawankumar	P. Pawankumar
27501317069	Kaashif Zaman	Kaashif Zaman
27501317070	Dulal Marandi	Dulal Marandi
27501317071	Amam Ghose	Amam Ghose
27501318008	Srijita Maity	Srijita Maity
27501318023	Chetana Sen	Chetana Sen
27501318029	Swarnendu Patra	Swarnendu Patra
27501318030	Ad Shahzad Alam	Ad Shahzad Alam
27501318031	Koushik Sen	Koushik Sen
27501318032	Debojyoti Ghosh	Debojyoti Ghosh
27501318033	Ankush Samanta	Ankush Samanta
27501319017	MINAKSHI PRADHAN	Minakshi Pradhan
27501319024	JOYDEB PANJA	Joydeb Panja
27501319025	NILENDU DUTTA	Nilendu Dutta
27501319041	SUJAN PAL	Sujan Pal
27501319043	PRATYOUS PRAMANIK	Pratyous Pramanik
27501319044	DIBYENDU DUTTA	Dibyendu Dutta
27501319048	SUBHADIP KARAN	Subhadip Karan



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Curriculum

The course aims to offer comprehensive knowledge on the ETABS & Revit software and its applications. The course will help the candidates to acquire in-depth details about the different procedures and simplified analysis aspects of the design models. Topics of the event are given below-

- Comprehensive knowledge on the ETABS software and its applications
- Analyse& design of structures.
- Developing idea about BIM
- Brief idea about BIM software Revit



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One day Workshop on “INTRODUCTION TO REVIT & ETABS SOFTWARE”

Organized by Department of Civil Engineering

Date of event: 29/02/2020

Mode: Offline

INFORMATION BROCHURE



OmDayal Group of Institutions

ENGINEERING COLLEGE | ARCHITECTURE COLLEGE

Department of Civil Engineering
organises
A Workshop on

INTRODUCTION TO REVIT & ETABS SOFTWARE

For 3rd & 4th Year Students

@ STAAD Lab, Ground Floor

In Association
with

February
29
2020

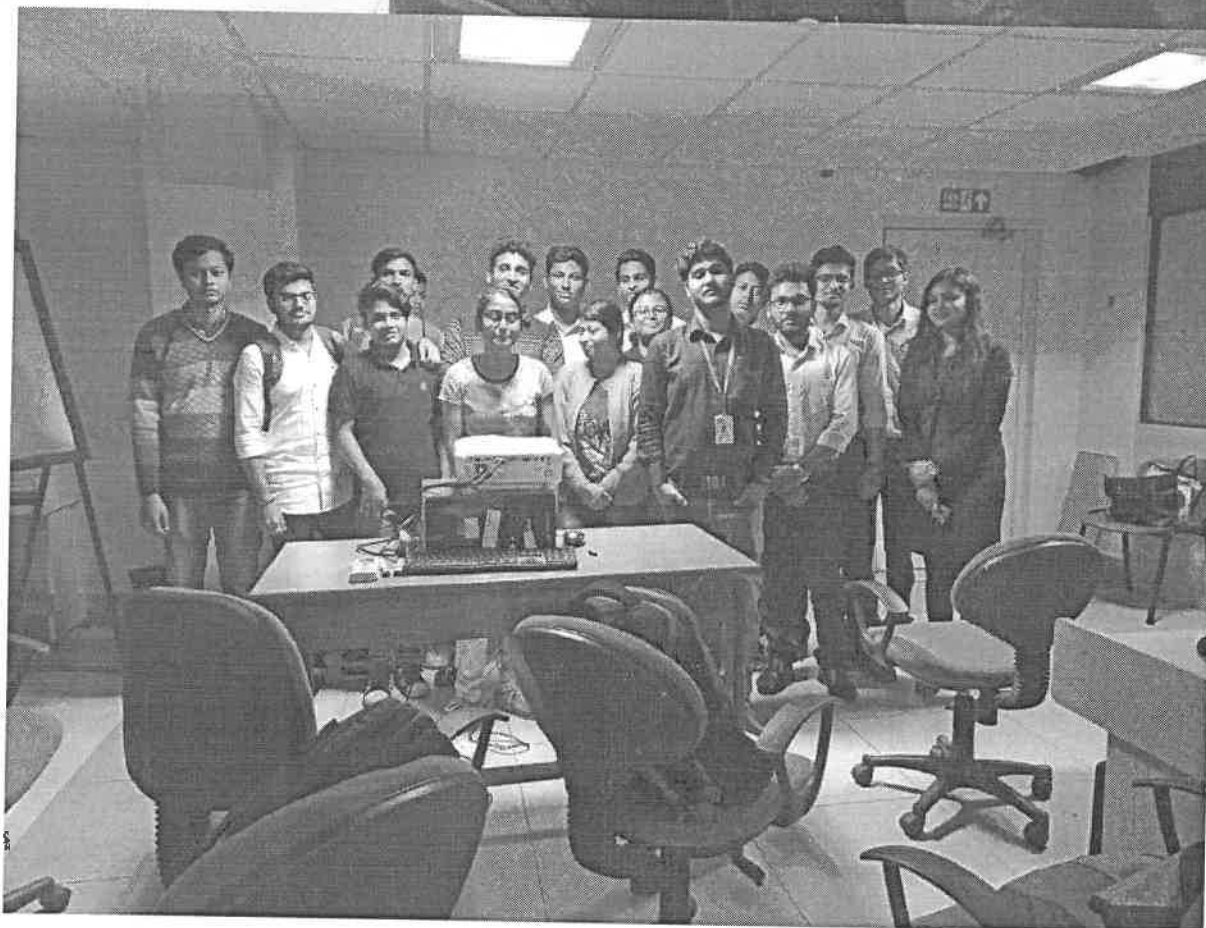
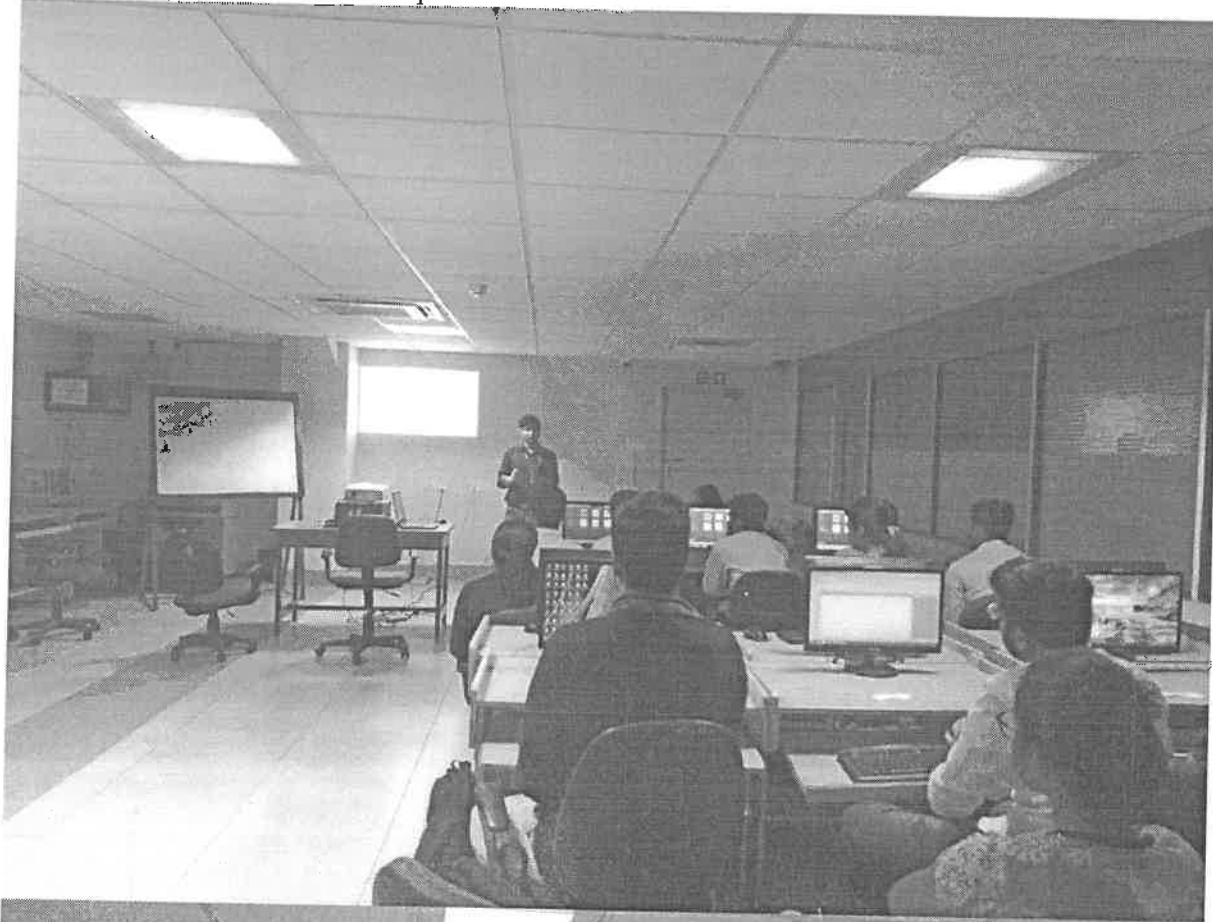
EduCADD
Leaders Through Quality Education
An ISO 2009:2015 Certified Institute

Summary:

Like every academic year, Department of Civil Engineering of OmDayal Group of Institutions had organised a workshop on “INTRODUCTION TO REVIT & ETABS SOFTWARE” for empowering the departmental students with the knowledge of latest technologies which are currently being used in the field of construction and practical civil engineering to help themselves build up a better professional carrier in the process. The workshop was held on 29th February, 2020 in collaboration with EDUCADD, an organisation who provides professional training on various technology related software at the college campus in the STAAD Laboratory from 10:30 am to 4:30 pm. The session was divided into two halves; morning session and post lunch session.

Introduction to Revit Architecture Software was carried out in the morning session and introduction to ETABS software was carried out in the post lunch session. The sessions were very informative and enjoyable as per the feedback what we have collected from the students who had participated in the workshop and they also had expressed their interest to participate in more workshops like this in future organised by the department.

Some Glimpses of the workshop –





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Course Outcomes

After completion of this course students will be able to

- Obtain comprehensive knowledge on the ETABS software and its applications
- Analyse& design of structures.
- Developing idea about BIM
- Brief idea about BIM software Revit



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Attendance

Roll No	Name	Signature
27501317064	Subhabrata Pal	Subhabrata Pal
27501317065	Sanjukta Koley	Sanjukta Koley
27501317066	Samarpan Bag	Samarpan Bag
27501317067	Riddhi Mondal	Riddhi Mondal
27501317068	P Pawankumar	P. Pawankumar
27501317069	Kaashif Zaman	Kaashif Zaman
27501317070	Dulal Marandi	Dulal Marandi
27501317071	Aman Ghose	Aman Ghose
27501318008	Srijita Maity	Srijita Maity
27501318023	Chetana Sen	Chetana Sen
27501318029	Swarnendu Patra	Swarnendu Patra
27501318030	Md Shahzad Alam	Md Shahzad Alam
27501318031	Koushik Sen	Koushik Sen
27501318032	Debojyoti Ghosh	Debojyoti Ghosh
27501318033	Ankush Samanta	Ankush Samanta
27501319017	MINAKSHI PRADHAN	Minakshi Pradhan
27501319024	JOYDEB PANJA	Joydeb Panja
27501319025	NILENDU DUTTA	Nilendu Dutta
27501319041	SUJAN PAL	Sujan Pal
27501319043	PRATYOUS PRAMANIK	Pratyous Pramanik
27501319044	DIBYENDU DUTTA	Dibyendu Dutta
27501319048	SUBHADIP KARAN	Subhadip Karan

CERTIFICATE

OF PARTICIPATION

This certificate is hereby awarded to

CHETANA SEN

For his/her active participation in
REVIT & ETABS Workshop Organised by

EduCADD Kolkata

at

OmDayal Group

of

Institutions

On 29th Feb, 2020

CERTIFICATE

OF PARTICIPATION

This certificate is hereby awarded to

DEBOJYOTI GHOSH

For his/her active participation in
REVIT & ETABS Workshop Organised by

EduCADD Kolkata

at

**OmDayal Group
of**

Institutions

On 29th Feb, 2020

CERTIFICATE

OF PARTICIPATION

This certificate is hereby awarded to

KOUSHIK SEN

For his/her active participation in
REVIT & ETABS Workshop Organised by

EduCADD Kolkata

at

**OmDayal Group
of**

Institutions

On 29th Feb, 2020



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Group Discussion Seminar

Course Title-Group Discussion Seminar

Duration-3 Days

Course Start Date-12th February, 2020

Course End Date-14th February, 2020

Mode- Hybrid (21 hrs offline + 9 hrs online)

Number of Students Enrolled-110

Number of Students Passed-110

Instructor- Mr. Pradipta Biswas & Mrs. Monita Mitra

Assessment -Minimum 80% attendance & Online quiz and writing assessment



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Curriculum

The key points which were discussed are:

- Group Discussion - Methods and Techniques
- Key Differences between a debate and a group discussion
- The two primary types of Group Discussion
- Group Discussion - Methods and Techniques
- The Key factors to determine a candidate's success in a group discussion
- Essential Leadership Traits
- Online quiz and writing assessment

Student Enrollment Details
Group Discussion Seminar (Date- 12/2/2020-14/2/2020)

Sl No	Name of the Student	Signature
1	BIPRADAS MONDAL	B. Mondal
2	BUDDHADEV ADHIKARY	BuddhaDEV Adhikary
3	DIPESH KUMAR	D. Kumar
4	FAIMUZ ZAMAN	F. Zaman
5	KRISHANU POREY	K. Porey
6	LIJA DUTTA	L. Dutta
7	PRALAY CHOWDHURY	P. Chowdhury
8	RAHUL ACHARJYA	R. Acharya
9	RAKESH PARUA	R. Parua
10	RAKHI MURMU	R. Murmu
11	RANJAN RAY	Ranjana Ray
12	ROHAN PAUL	Rohan Paul
13	ROHIT KUMAR RAY	R. K. Ray
14	SANTAYAN NAG	Santayan Nag
15	SARFARAJ KHAN	SarfaraJ Khan
16	SAYANTAN KHANRA	SayantaN Khanra
17	SAYANTAN SINGHA	S. Singha
18	SOUGATA SEN	S. Sen
19	SOUMITRA BERA	Soumitra Bera
20	SUBHADIP GIRI	S. Giri
21	SUBRATA PAL	S. Pal
22	SUJIT KUMAR DAS	S. K. Das
23	SUMANGAL MISTRY	Sumangal Mistry
24	SUNNY SHAW	S. Shaw
25	SUPRIYA MAITY	S. Maity
26	TAMIM SARKAR	Tamim Sarkar
27	UDAYAN BOSE	Udayan Bose
28	AMIT KUMAR PRAMANIK	A. Pramanik
29	JOYDEB PANJA	J. Panja
30	CHIRANTAN MONDAL	Chirantan Mondal
31	ASHUTOSH MAHATO	A. Mahato
32	SUBHADIP GIRI	S. Giri
33	DULAL MARANDI	Dulal Marandi
34	PAWAN KUMAR PUNKAKOTI	P. Kumar
35	RIDDHI MONDAL	Riddhi Mondal
36	SAMARPAN BAG	S. Bag
37	SANJUKTA KOLEY	S. Koley
38	SUBHABRATA PAL	S. Pal
39	KAASHIF ZAMAN	Kaashif Zaman
40	AMIT MAITY	Amit Maity
41	ANKAN SASMAL	Ankan Sasmal
42	ARNAB BERA	A. Bera
43	ARPITA KUNDU	Arpita Kundu
44	ARUNIMA PANDA	Arunima Panda
45	AVIRUP DAS	Avirup Das
46	BHASKAR BISWAS	B. Biswas
47	BHASKAR DAS	B. Das
48	BIDYUT HANSDA	Bidyut Hansda
49	BIMAL SAMANTA	B. Samanta

50	BISHAL MONDAL	Bishal Mondal.
51	CHINMOY SINGHA	Chinmoy Singha.
52	CHIRANTAN MITRA	Chirantan Mitra.
53	DIPANJAN PARIA	Dipankar Paria.
54	JAYANTA BHAUMIK	J. Bhattacharya
55	JAYSHREE MONDAL	Jayshree Mondal.
56	JYOTISH BARMAN	Jyotish Barman.
57	MADHUSRI MAJI	Madhusri Maji
58	MALAY KANTI BHUNIA	Malay Kanti Bhunia
59	MD RAMIM MIYA	Md. Ramim Miya
60	MITHILESH BHAKTA	M. Bhakta
61	MONISHA CHATTORAJ	Monish Chatterjee
62	MRINMOY PRADHAN	Mrinmoy Pradhan
63	NILADRI DAS	Niladri Das
64	NUR HASAN MONDAL	Nur H. Mondal
65	PARICHITA PARAI	Parichita Parai
66	PARTHA SARATHI KHAN	P. S. Khan
67	PARTHA SARATHI MONDAL	Parthasarathi Mondal
68	POUSALI NANDY	P. Nandy
69	PRAJESH SAHOO	Prajesh Sahoo
70	PRANABESH MANNA	Pranabesh Manna
71	PRITAM BERA	P. Bera
72	PRIYABRATA DAS	Priyabrata Das
73	PROTHAM ADAK	Protham Adak
74	RAGHUNATH ADHIKARY	Raghunath Adhikary
75	RAJASHREE DAS	Rajashree Das.
76	RAKESH GORAI	Rakesh Gorai
77	RAKESH KHANRA	Rakesh Khanra
78	SAGNIK SARKAR	Sagnik Sarkar
79	SAIKAT PAUL	S. Paul.
80	SAYAN MAITY	Sayan Maity
81	SHAIBAL BHATTACHARJEE	Shaibal Bhattacharjee
82	SAURA SHUVRA KUMAR	Saura Shuvra Kumar
83	ABHJIT SASMAL	Abhjit Sasmal
84	ABHIMANNU KUMAR PRASAD	Abhimannu K. Prasad.
85	AKSHAY SINGHA	Akshay Singha
86	ANKAN KAR MAHAPATRA	Ankan Kar Mahapatra.
87	ANUPAM MAITY	Anupam Maity
88	ARNAB MUKHERJEE	Arnob Mukherjee.
89	ASIM MAITY	Asim Maity
90	ATANU JANA	Atanu Jana.
91	AVIJIT GHOSH	A. Ghosh
92	BIBEK SAU HINDU	Bibek Sau
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94	BISWAJIT MAITY	Biswajit Maity
95	DEBTANU HAIT	Debtanu Hait
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106	SANDIP DUTTA	Sandip Dutta
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Summary Report of “Group Discussion Seminar”

A 3-day long Group Discussion seminar was organised for BTech at the seminar hall, on February 12, 13 and 14, 2020. The seminar took place in two halves on each day, followed by an online quiz and writing assessment session, and a total of 110 students, across all engineering departments, joined each of the sessions respectively. It was convened by Mr. Pradipta Biswas from the department of Science and Humanities.

The key points which were discussed are:

- Group Discussion - Methods and Techniques
- Key Differences between a debate and a group discussion
- The two primary types of Group Discussion
- Group Discussion - Methods and Techniques
- The Key factors to determine a candidate's success in a group discussion
- Essential Leadership Traits
- Online quiz and writing assessment

The seminar was an enlightening experience for all the participants, as it helped them in understanding group discussions, one of the most important forms of verbal technical communication, in a better, and more holistic manner.

Attendance on 12/02/2020

Group Discussion Seminar (Date- 12/2/2020-14/2/2020)

Sl No	Name of the Student	Signature
1	BIPRADAS MONDAL	B. Mondal
2	BUDDHADEV ADHIKARY	BuddhaDEV Adhikary
3	DIPESH KUMAR	D. Kumar
4	FAIMUZ ZAMAN	F. Zaman
5	KRISHANU POREY	Krishanu
6	LJA DUTTA	Lja
7	PRALAY CHOWDHURY	P. Chowdhury
8	RAHUL ACHARJYA	R. Acharya
9	RAKESH PARUA	R. Parua
10	RAKHI MURMU	Rakhi M. M.
11	RANJAN RAY	Ranjana Ray
12	ROHAN PAUL	Rohan Paul
13	ROHIT KUMAR RAY	RKR
14	SANTAYAN NAG	Santayan nag
15	SARFARAJ KHAN	Sarfaraaj Khan
16	SAYANTAN KHANNA	Sayanter Khanna
17	SAYANTAN SINGHA	S. Singha
18	SOUGATA SEN	S. Sen
19	SOUMITRA BERA	Soumitra Bera
20	SUBHADIP GIRI	S. Giri
21	SUBRATA PAL	SPal
22	SUJIT KUMAR DAS	S. K. Das
23	SUMANGAL MISTRY	Sumangal Mistry
24	SUNNY SHAW	Sunny Shaw
25	SUPRIYA MAITY	SM
26	TAMIM SARKAR	Tamim Sarkar
27	UDAYAN BOSE	Udayan Bose
28	AMIT KUMAR PRAMANIK	Amit
29	JOYDEB PANJA	Joydhan
30	CHIRANTAN MONDAL	Chirantan Mondal
31	ASHUTOSH MAHATO	AM
32	SUBHADIP GIRI	S. Giri
33	DULAL MARANDI	Dulal Marandi
34	PAWAN KUMAR PUNKAKOTI	P. Kumar
35	RIDDHI MONDAL	Riddhi Mondal
36	SAMARPAN BAG	S. Bag
37	SANJUKTA KOLEY	S. Koley
38	SUBHABRATA PAL	Sub. Pal
39	KAASHIF ZAMAN	Kaashif Zaman
40	AMIT MAITY	AMIT MAITY
41	ANKAN SASMAL	Ankan Sasmal
42	ARNAB BERA	A. Bera
43	ARPITA KUNDU	Arpita Kundu
44	ARUNIMA PANDA	Arunima Panda
45	AVIRUP DAS	Avirup Das
46	BHASKAR BISWAS	B. Biswas
47	BHASKAR DAS	B. Das
48	BIDYUT HANSDA	Bidyut Hansda
49	BIMAL SAMANTA	B. Samanta

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51	CHINMOY SINGHA	Chinmoy Singha.
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54	JAYANTA BHAUMIK	J. Bhattacharya
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60	MITHILESH BHAKTA	M. Bhakta
61	MONISHA CHATTORAJ	Monisha Chatterjee
62	MRINMOY PRADHAN	Mrinmoy Pradhan
63	NILADRI DAS	Niladri Das
64	NUR HASAN MONDAL	Nur H. Mondal
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70	PRANABESH MANNA	Pranabesh Manna
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82	SAURA SHUVRA KUMAR	Saura Shuvra Kumar
83	ABHJIT SASMAL	Abhjit Sasmal
84	ABHIMANNU KUMAR PRASAD	Abhimannu K. Prasad.
85	AKSHAY SINGHA	Akshay Singha
86	ANKAN KAR MAHAPATRA	Ankan Kar Mahapatra.
87	ANUPAM MAITY	Anupam
88	ARNAB MUKHERJEE	Arnab Mukherjee.
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94	BISWAJIT MAITY	Biswajit
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97	DIPAN ROY	Dipan Roy.
98	KANCHAN SARKAR	Kanchan Sarkar
99	KUNDAN KUMAR SAHA	Kundan K. Saha
100	PABITRA ISWAR	Pabitra Iswar
101	PARTHA PRATIM SAMAI	Partha Pratim Sami
102	PRADYOT DAS	Pradyot Das

103	PRASENJIT BAG	Prasenjit Bag
104	RAKESH BHUNIA	Rakesh Bhunia
105	SAHEB BERA	Sahab Bera
106	SANDIP DUTTA	Sandeep Dutta
107	TANMOY JANA	Tanmoy Jana
108	SANTANU SAMANTA	Santanu Samanta
109	SUBHANKAR BEJ	Subhankar Bej
110	SHYAMAL BERA	S. Bera

Attendance on 13/02/2020

Group Discussion Seminar (Date- 12/2/2020-14/2/2020)

Sl No	Name of the Student	Signature
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2	BUDDHADEV ADHIKARY	BuddhaDEV Adhikary
3	DIPESH KUMAR	D. Kumar
4	FAIMUZ ZAMAN	F. Zaman
5	KRISHANU POREY	Krishanu
6	LITA DUTTA	Lita
7	PRALAY CHOWDHURY	P. Choudhury
8	RAHUL ACHARJYA	R. Acharya
9	RAKESH PARUA	R. Parua
10	RAKHI MURMU	Rakhi M.
11	RANJAN RAY	Ranjana Ray
12	ROHAN PAUL	Rohan Paul
13	ROHIT KUMAR RAY	RKR
14	SANTAYAN NAG	Sayananta nag
15	SARFARAJ KHAN	Sarfaraaj Khan
16	SAYANTAN KHANRA	Sayananta Khanna
17	SAYANTAN SINGHA	S. Singha
18	SOUGATA SEN	S. Sen
19	SOUMITRA BERA	Soumitra Bera
20	SUBHADIP GIRI	S. Giri
21	SUBRATA PAL	S. Pal
22	SUJIT KUMAR DAS	S. K. Das
23	SUMANGAL MISTRY	Sumangal Mistry
24	SUNNY SHAW	Sunny Shaw
25	SUPRIYA MAITY	S. Maity
26	TAMIM SARKAR	Tamim Sarkar
27	UDAYAN BOSE	Udayan Bose
28	AMIT KUMAR PRAMANIK	Amit
29	JOYDEB PANJA	Joydeb
30	CHIRANTAN MONDAL	Chirantan Mondal
31	ASHUTOSH MAHATO	A. Mahato
32	SUBHADIP GIRI	S. Giri
33	DULAL MARANDI	Dulal Marandi
34	PAWAN KUMAR PUNKAKOTI	P. Kumar
35	RIDDHI MONDAL	Riddhi Mondal
36	SAMARPAN BAG	S. Bag
37	SANJUKTA KOLEY	S. Koley
38	SUBHABRATA PAL	S. Pal
39	KAASHIF ZAMAN	Kaashif Zaman
40	AMIT MAITY	AMIT MAITY
41	ANKAN SASMAL	Ankan Sasmal
42	ARNAB BERA	A. Bera
43	ARPITA KUNDU	Arpita Kundu
44	ARUNIMA PANDA	Arunima Panda
45	AVIRUP DAS	Avirup Das
46	BHASKAR BISWAS	B. Biswas
47	BHASKAR DAS	B. Das
48	BIDYUT HANSDA	Bidyut Hansda
49	BIMAL SAMANTA	B. Samanta

50	BISHAL MONDAL	Bishal Mondal.
51	CHINMOY SINGHA	Chinmoy Singha.
52	CHIRANTAN MITRA	Chirantan Mitra.
53	DIPANJAN PARIA	Dipankar Paria.
54	JAYANTA BHAUMIK	J. Bhattacharya.
55	JAYSHREE MONDAL	Jayshree Mondal.
56	JYOTISH BARMAN	Jyotish Barman.
57	MADHUSRI MAJI	Madhusri Maji.
58	MALAY KANTI BHUNIA	Malay Kanti Bhunia.
59	MD RAMIM MIYA	Md. Ramim Miya.
60	MITHILESH BHAKTA	Mithilesh Bhakta.
61	MONISHA CHATTORAJ	Monisha Chatterjee.
62	MRINMOY PRADHAN	Mrinmoy Pradhan.
63	NILADRI DAS	Niladri Das.
64	NUR HASAN MONDAL	Nur H. Mondal.
65	PARICHITA PARAI	Parichita Parai.
66	PARTHA SARATHI KHAN	P. Khan.
67	PARTHA SARATHI MONDAL	Partha Sarathi Mondal.
68	POUSALI NANDY	P. Nandy.
69	PRAJESH SAHOO	Prajesh Sahoo.
70	PRANABESH MANNA	Pranabesh Manna.
71	PRITAM BERA	Pritam Bera.
72	PRIYABRATA DAS	Priyabrata Das.
73	PROTHAM ADAK	Protham Adak.
74	RAGHUNATH ADHIKARY	Raghunath Adhikary.
75	RAJASHREE DAS	Rajashree Das.
76	RAKESH GORAI	Rakesh Gorai.
77	RAKESH KHANRA	Rakesh Khanra.
78	SAGNIK SARKAR	Sagnik Sarkar.
79	SAIKAT PAUL	S. Paul.
80	SAYAN MAITY	Sayan Maity.
81	SHAIBAL BHATTACHARJEE	Shaibal Bhattacharjee.
82	SAURA SHUVRA KUMAR	Saura Shuvra Kumar.
83	ABHIJIT SASMAL	Abhijit Sasmal.
84	ABHIMANNU KUMAR PRASAD	Abhimannu K. Prasad.
85	AKSHAY SINGHA	Akshay Singha.
86	ANKAN KAR MAHAPATRA	Ankan Kar Mahapatra.
87	ANUPAM MAITY	Anupam Maity.
88	ARNAB MUKHERJEE	Arnab Mukherjee.
89	ASIM MAITY	Asim Maity.
90	ATANU JANA	Atanu Jana.
91	AVIJIT GHOSH	A. Ghosh.
92	BIBEK SAU HINDU	Bibek Sau.
93	BISHWARUP KUILYA	Biswarup Kuila.
94	BISWAJIT MAITY	Biswajit Maity.
95	DEBTANU HAFT	Debtanu Haft.
96	DIBENDU KAR	Dibendu Kar.
97	DIPAN ROY	Dipan Roy.
98	KANCHAN SARKAR	Kanchan Sarkar.
99	KUNDAN KUMAR SAHA	Kundan K. Saha.
100	PABITRA ISWAR	Pabitra Iswar.
101	PARTHA PRATIM SAMAI	Partha Pratim Sami.
102	PRADYOT DAS	Pradyot Das.

103	PRASENJIT BAG	Prasenjit Bag
104	RAKESH BHUNIA	Rakesh Bhunia
105	SAHEB BERA	Saheb Bera
106	SANDIP DUTTA	Sandeep Dutta
107	TANMOY JANA	Tanmoy Jana
108	SANTANU SAMANTA	Santanu Samanta
109	SUBHANKAR BEJ	Subhankar Bej
110	SHYAMAL BERA	S. Bera

Attendance on 14/02/2020

Group Discussion Seminar (Date- 12/2/2020-14/2/2020)

Sl No	Name of the Student	Signature
1	BIPRADAS MONDAL	B. Mondal
2	BUDDHADEV ADHIKARY	BuddhaDEV Adhikary
3	DIPESH KUMAR	D. Kumar
4	FAIMUZ ZAMAN	F. Zaman
5	KRISHANU POREY	K. Porey
6	LIA DUTTA	L. Dutta
7	PRALAY CHOWDHURY	P. Chowdhury
8	RAHUL ACHARJYA	R. Acharya
9	RAKESH PARUA	R. Parua
10	RAKHI MURMU	Rakhi. M
11	RANJAN RAY	Ranjana Ray
12	ROHAN PAUL	Rohan Paul
13	ROHIT KUMAR RAY	RKR
14	SANTAYAN NAG	Santayan nag
15	SARFARAJ KHAN	SarfaraJ Khan
16	SAYANTAN KHANRA	Sayanter Khanra
17	SAYANTAN SINGHA	S. Singha
18	SOUGATA SEN	S. Sen
19	SOUMITRA BERA	Soumitra Bera
20	SUBHADIP GIRI	S. Giri
21	SUBRATA PAL	S. Pal
22	SUJIT KUMAR DAS	S. K. Das
23	SUMANGAL MISTRY	Sumangal Mistry
24	SUNNY SHAW	Sunny Shaw
25	SUPRIYA MAITY	S. Maity
26	TAMIM SARKAR	Tamim Sarkar
27	UDAYAN BOSE	Udayan Bose
28	AMIT KUMAR PRAMANIK	A. Pramanik
29	JOYDEB PANJA	J. Panja
30	CHIRANTAN MONDAL	Chirantan Mondal
31	ASHUTOSH MAHATO	A. Mahato
32	SUBHADIP GIRI	S. Giri
33	DULAL MARANDI	Dulal Marandi
34	PAWAN KUMAR PUNKAKOTI	P. Kumar
35	RIDDHI MONDAL	Riddhi Mondal
36	SAMARPAN BAG	S. Bag
37	SANJUKTA KOLEY	S. Koley
38	SUBHABRATA PAL	S. Pal
39	KAASHIF ZAMAN	Kaashif Zaman
40	AMIT MAITY	Amit Maity
41	ANKAN SASMAL	Ankan Sasmal
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43	ARPITA KUNDU	Arpita Kundu
44	ARUNIMA PANDA	Arunima Panda
45	AVIRUP DAS	Avirup Das
46	BHASKAR BISWAS	B. Biswas
47	BHASKAR DAS	B. Das
48	BIDYUT HANSDA	Bidyut Hansda
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108	SANTANU SAMANTA	Santanu Samanta
109	SUBHANKAR BEJ	Subhankar Bej
110	SHYAMAL BERA	S. Bera



CERTIFICATE

— OF PARTICIPATION —

This certificate is dedicated to:

Krishanu Porey

For participating in the "Seminar on Group Discussion" organized by the
Department of Science and Humanities, OmDayal Group of Institutions, on 12.02.2020, 13.02.2020 and
14.02.2020.

DR. PROSENIIT SEN
VICE-PRINCIPAL



MR. PRADIPTA BISWAS
CONVENER



CERTIFICATE

— OF PARTICIPATION —

This certificate is dedicated to:

Udayan Bose

For participating in the "Seminar on Group Discussion" organized by the
Department of Science and Humanities, Omdhayal Group of Institutions, on 12.02.2020, 13.02.2020 and
14.02.2020.

DR. PROSENIIT SEN
VICE-PRINCIPAL



MR. PRADIPTA BISWAS
CONVENER



CERTIFICATE

— OF PARTICIPATION —

This certificate is dedicated to:

Niladri Das

For participating in the "Seminar on Group Discussion" organized by the
Department of Science and Humanities, OmDayal Group of Institutions, on 12.02.2020, 13.02.2020 and
14.02.2020.

DR. PROSENIIT SEN
VICE-PRINCIPAL



MR. PRADIPTA BISWAS
CONVENER



CERTIFICATE

— OF PARTICIPATION —

This certificate is dedicated to:

Rahul Achariya

For participating in the "Seminar on Group Discussion" organized by the
Department of Science and Humanities, OmDayal Group of Institutions, on 12.02.2020, 13.02.2020 and
14.02.2020.

DR. PROSENIJT SEN
VICE-PRINCIPAL



MR. PRADIPTA BISWAS
CONVENER



CERTIFICATE

— OF PARTICIPATION —

This certificate is dedicated to:

Rohan Paul

For participating in the "Seminar on Group Discussion" organized by the
Department of Science and Humanities, Omdhayal Group of Institutions, on 12.02.2020, 13.02.2020 and
14.02.2020.

DR. PROSENIIT SEN
VICE-PRINCIPAL



MR. PRADIPTA BISWAS
CONVENER



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Add on /Certificate/Value added programs offered during 2018-19

Year 2018-19			
Sl. No.	Name of Add on /Certificate programs offered	Duration of course	Number of Students completing the course in the year
1	ETABS Software	6 days	20



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ETABS Software

Course Title-ETABS Software in association with Shourya Innovation

Duration-6 Days

Course Start Date-17 July, 2018

Course End Date-24 July, 2018

Mode- Offline

Number of Students Enrolled-20

Number of Students Passed-20

Instructor- Mr. Samrat Sen

Assessment -Minimum 80% attendance &Project Completion



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Student Enrollment Details

List of Students Attend in the Workshop

Roll Number	Name of the Student	Signature
27501315001	ABHIMANNU DEY	Abhimannu Dey
27501315003	ARKAJIT DUTTA	Arkajit Dutta
27501315004	BHASKAR DAS	Bhaskar Das.
27501315006	HIMANSHU PANDEY	Himanshu Pandey
27501315007	K UMA MAHESHWAR RAO	K. U. Maheshwar Rao
27501315008	RUDRANATH SAHA	Rudranath Saha
27501315009	SEKH AFRIDI	Sekh Afridi
27501315010	SK ABUL QASIM AZAD	Sk. Abul Qasim Azad
27501315011	SOMA PAUL	Soma Paul.
27501315012	SUBHAJIT BASAK	Subhajit Basak
27501315013	TASNEEM ALI	Tasneem Ali
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27501316034	APURBA HALDER	Apurba Halder
27501316037	AKRAM MALLICK	Akram Mallik

ETABS Course Content

- An Overview
 - Introductory Tutorial Steel
 - Introductory Tutorial Concrete
- Drawing Tools / Select Commands
- CAD Import / Composite Columns
 - Wall Modeling
- Shear Wall Design and Optimization
 - Steel Connection Design
- Programming ETABS using the OAPI
- Occupancy Loads using Shell Uniform Load Sets
 - Creating Reports
 - Buckling Factors
- Time History Plots due to Walking Excitation
 - Composite Beam Design
 - Sequential Construction
 - Section Cuts
- Synthetic Earthquake Generation
 - CSiXRevit
- Performance-Based Design
- Response Spectrum Analysis
- Vertical Displacements in Tall Buildings
 - Reinforced Concrete Slab Design
 - Automated Post Tensioning of Slabs
- Accidental Torsion/ Visualization Tools



OMDAYAL GROUPOF INSTITUTIONS

ENGINEERING COLLEGE | ARCHITECTURE COLLEGE | VOCATIONAL DIPLOMA COLLEGE

Uluberia-711316 (Howrah) West Bengal, India

AICTE & COA APPROVED, NAAC ACCREDITED AND MAKAUT (WBUT) & WBSCTVESDA AFFILIATED INSTITUTION

Workshop on ETABS Software

Organized by Department of Civil Engineering

Date of event: 17 July, 2018 - 24 July, 2018

Mode: Offline

In collaboration with Shourya Innovation

INFORMATION BROCHURE

Workshop on ETABS software in association with SHOURYA INNOVATION

Starting from 17-07-2018 to 24-07-2018
in Ground Floor STAAD Lab

**Name of Instructor - Mr. Samrat Sen
Coordinator - Prof. Pampa Sen**

Timing : 10:30 am - 4:00 pm



**Department of Civil Engineering
Omdayal Group of Institutions**

Summary:

A Workshop on “ETABS Software” was successfully organized with 20 participants from 17 July, 2018 to 24 July, 2018. The workshop was conducted in offline mode. It was organized with the collaboration of *Shourya Innovation*. Students from 3rd year and 4th year have participated in this workshop. The aim of the workshop was to provide knowledge about structural analysis and designing software and provide handwork experience of real project. The goal of this workshop was to encourage undergraduate Civil Engineering students to have a wide area of vision in the field of Structural Design by using the Structural Engineering software which will be a second option of the STAAD PRO software. By motivating them towards the professional way of work was the main motto of this workshop. After completion of course

all the students have completed a G+5 Building Design in E-Tabs and certificates has been provided to them by the competent authorities.

Objectives and Workshop Modules:

The objectives of the proposed activities were

1. To encourage students to recognize a wide prospect in the field of Building Design by using E-TABS Software.
2. To receive knowledge from corporate peoples with personal one-on-one attention.
3. To give an adequate exposure to Building Design by become a master in Design and co-relate with STAAD PRO
5. To improve the job prospect of our students and to get an edge over others.
6. Learning through the interactive query sessions, live demos, power point presentation helps students to gain quicker knowledge in in Design.
7. To get certificate from the recognized Centre will be go prospects for them.



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Attendance-

Day 1 (17/7/2018)

Attendance Sheet 1

Roll Number	Name of the Student	Signature
27501315001	ABHIMANNU DEY	Abhimannu Dey
27501315003	ARKAJIT DUTTA	Arkajit Dutta
27501315004	BHASKAR DAS	Bhaskar Das
27501315006	HIMANSHU PANDEY	Himanshu Pandey
27501315007	K UMA MAHESHWAR RAO	K. U. Maheshwar Rao
27501315008	RUDRANATH SAHA	Rudranath Saha
27501315009	SEKH AFRIDI	Sekh Afridi
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Day 2 (18/7/2018)

Attendance Sheet 2

Roll Number	Name of the Student	Signature
27501315001	ABHIMANNU DEY	Abhimannu Dey
27501315003	ARKAJIT DUTTA	Arkajit Dutta
27501315004	BHASKAR DAS	Bhaskar Das
27501315006	HIMANSHU PANDEY	Himanshu Pandey
27501315007	K UMA MAHESHWAR RAO	K. U. Maheswar Rao
27501315008	RUDRANATH SAHA	Rudranath Saha
27501315009	SEKH AFRIDI	Sekh Afridi
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Day 3 (19/7/2018)

Attendance Sheet 3

Roll Number	Name of the Student	Signature
27501315001	ABHIMANNU DEY	Abhimannu Dey
27501315003	ARKAJIT DUTTA	Arkajit Dutta
27501315004	BHASKAR DAS	Bhaskar Das
27501315006	HIMANSHU PANDEY	Himanshu Pandey
27501315007	K UMA MAHESHWAR RAO	K. U. Maheshwar Rao
27501315008	RUDRANATH SAHA	Rudranath Saha
27501315009	SEKH AFRIDI	Sekh Afridi
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Day 4 (20/7/2018)

Attendance Sheet 4

Roll Number	Name of the Student	Signature
27501315001	ABHIMANNU DEY	Abhimannu Dey
27501315003	ARKAJIT DUTTA	Arkajit Dutta
27501315004	BHASKAR DAS	Bhaskar Das
27501315006	HIMANSHU PANDEY	Himanshu Pandey
27501315007	K UMA MAHESHWAR RAO	
27501315008	RUDRANATH SAHA	Rudranath Saha
27501315009	SEKH AFRIDI	Sekh Afridi
27501315010	SK ABUL QASIM AZAD	SK Abdul Qasim Azad
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27501316037	AKRAM MALLICK	Akram Mallick



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Day 5 (21/7/2018)

Attendance Sheet 5

Roll Number	Name of the Student	Signature
27501315001	ABHIMANNU DEY	Abhimannu Dey
27501315003	ARKAJIT DUTTA	Arkajit Dutta
27501315004	BHASKAR DAS	Bhaskar Das
27501315006	HIMANSHU PANDEY	Himanshu Pandey
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27501315008	RUDRANATH SAHA	Rudranath Saha
27501315009	SEKH AFRIDI	Sekh Afridi
27501315010	SK ABUL QASIM AZAD	SK Abdul Qasim Azad
27501315011	SOMA PAUL	
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27501316037	AKRAM MALLICK	Akram Mallick



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Day 6 (24/7/2018)

Attendance Sheet 6

Roll Number	Name of the Student	Signature
27501315001	ABHIMANNU DEY	Abhimannu Dey
27501315003	ARKAJIT DUTTA	Arkaajit Dutta
27501315004	BHASKAR DAS	Bhaskar Das
27501315006	HIMANSHU PANDEY	Himanshu Pandey
27501315007	K UMA MAHESHWAR RAO	K. U. Maheshwar Rao
27501315008	RUDRANATH SAHA	Rudranath Saha
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27501316034	APURBA HALDER	Apurba Halder
27501316037	AKRAM MALLICK	Akram Mallick

CERTIFICATE OF PARTICIPATION



*This certificate is hereby awarded to
Mr./Miss **ABHIMANNU DEY** for his/her active participation in
the "Workshop on ETABS Software" organized by SHAURYA
INNOVATION in association with the Department of Civil
Engineering, OmDayal Group of Institutions from 17-07-2018 to 24-07-
2018.*



SHAURYA INNOVATION

(Samrat Sen)

For Shaurya Innovation

CERTIFICATE OF PARTICIPATION

*This certificate is hereby awarded to
Mr./Miss **BHASKAR DAS** for his/her active participation in
the “Workshop on ETABS Software” organized by **SHAURYA
INNOVATION** in association with the Department of Civil
Engineering, OmDayal Group of Institutions from 17-07-2018 to 24-07-
2018.*



SHAURYA INNOVATION

(Samrat Sen)

For Shaurya Innovation