



COLLEGE OF ENGINEERING BHUBANESWAR

Plot No.1 (A), CNI Complex, Patia, Bhubaneswar – 751024, Odisha, India.

[AFFILIATED TO BPUT, ODISHA]

www.coeb.ac.in

DEPARTMENT OF CIVIL ENGINEERING

AD. COURSE

Course Titles: Introduction to Engineering Seismology

Branch: Civil Engineering

Programme: B.Tech

Year of Student: 3rd Year

Course Objective:

1. Know the basics of earthquake engineering
2. Develop an insight into mechanics of earthquake, hazards and its consequences and also covers earthquake measurement and instrumentation.
3. Able to understand earthquake hazard and know seismic optional of the region and better way of estimating the future seismic hazard.
4. Know the Concept of Intensity and Magnitude; different earthquake scales. Seismic instruments, earthquake data and interpretation of seismic data.

SYLLABUS

Total Lecture Hours: 36

Module –I

8 Hours

Introduction: The Wave Equation, The Momentum Equation, The Seismic Wave Equation, Plane Waves, Polarizations of P and S Waves, Basic seismological theory, waves on a string, stress and strain, seismic waves. Snell's law, General Plane Wave, Plane wave reflection and transmission. Dispersion in seismic surface waves,

Module –II

8 Hours

Normal modes of the earth, Investigation of Earthquake Source Properties with Normal Mode Data, Basic normal mode theory, Refraction seismology- P-wave refraction, S- wave refraction, Two Horizontal Layers, Two Layer Dipping Model, Reflection seismology- Reflection Seismic Method, Direct and refraction ray travel times, Dipping layer, Seismic waves in a spherical earth- Body waves, Primary waves, Secondary waves, Surface waves, Rayleigh waves, Love waves, Stoneley waves.

Module –III

12 Hours

Body wave travel time studies: Amplitude variation along the Earth's surface, Amplitude variation along Interface Inside the Earth for P and S waves. Anisotropic earth structure-Seismic anisotropy, Deformation experiments and rheology, Anisotropic models. Attenuation and Anelasticity-Coherency and Green's Functions, Data and Signal Processing, Phase Velocity, Attenuation Coefficients, One-Dimensional Phase and Q Model Inversion.

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Module –IV

8 Hours

Earth's Layers: Crust, Mantle, and Core, Most Abundant Elements of the Earth, Seismic Discontinuities. Earthquake focal mechanisms, Moment Tremor- Introduction, Applications, Features. Brief on Earthquake geodesy and hazard monitoring. Estimation of source parameters, geological investigations and historical record of earthquakes, Seismology and Plate tectonics, Convergent margins, Seafloor spreading, lithosphere.

Course Outcomes:

After successfully completing the course, students will be able to

- CO1: Explain how earth processes create hazards to life and property;
- CO2: Understanding all facts of earthquake hazards, will be able to quantify different earthquake hazards and its effects (e.g. site effects, liquefaction, landslides etc) using different methods, which facilitate in planning new structures/project and retrofit old buildings and infrastructures
- CO3: Describe the quantification of earthquake size: Concept of Intensity and Magnitude; different earthquake scales. Seismic instruments, earthquake data and interpretation of seismic data and seismic hazard estimation with examples.
- CO4: Get better understanding of earthquake hazard and know seismic optional of the region and better way of estimating the future seismic hazard.

Text Books

1. Seth Stein and Michael Wysession, "An Introduction to Seismology, Earthquakes and Earth Structure", , Wiley-Blackwell Publisher, 1st edition,2008
2. Havskov, J. and Alguacil, G. Springer, Netherlands, "Instrumentation in Earthquake Seismology", Springer publisher, 2nd edition, 2016.
3. Bozorgnia, Y. and Bertero, "Earthquake Engineering - From Engineering Seismology to Performance - Based Engineering" CRC Press Washington, 2004.


Digital Learning Resources


Course Name	Introduction To Engineering Seismology
Course Link	http://nptel.ac.in/courses/105108076/
Course Instructed	Prof. Anbazhagan Panjamani, Department of Civil Engineering IISC Bangalore


Evaluation Criteria

- Mandatory attendance of 75% for each student.
- Conduction of two internal assessments and students has to secure 50% marks in each assessment.
- Certificates will be awarded to each student fulfilling the above criteria.

Design and Developed By **Mr. Biswa Ranjan Tripathy** and **Mr. Pradeepta Kishore Dehury**


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H.O.D, Civil Engineering
H.O.D
Civil Engineering Department
College of Engineering, Bhubaneswar



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NOTICE

Add On Certificate Courses 2019-2020

Ref No: COEB/CIVIL/2019/ 43

Date: 07/08/2019

It is for the information of all the students of 3rd /5th /7th semester B.Tech that the Department of Civil Engineering is going to start the following Add-on courses for Academic year 2019-2020. All the students are instructed to enroll their names for the following courses on or before **14/08/2019**. The classes will be commenced from **16/08/2019**. The students can contact their respective co-coordinators for enrollment and further detail.

Sl No.	Name of Add-on Course	Semester	Duration in Hrs	Name of Course Co-ordinators
1.	Earth Science for Civil Engineering	3 rd	36	Mr.Pradeepta Kishore Dehury
2.	Introduction To Engineering Seismology	5 th	38	Mr.Biswa Ranjan Tripathy
3.	Water Economics And Governance	7 th	40	Mr.Sachikanta Pradhan

The class timing will be from 5.30 pm to 7.30 pm.

B. Reddy

HOD

Civil Engineering Department

H.O.D
Civil Engineering Department
College of Engineering, Bhubaneswar.

Copy to:

1. Office of the Registrar for kind Information.
2. Office of the Principal for kind information.
3. Departmental Notice Board.
4. Guard File

A. Bhuje

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COLLEGE OF ENGINEERING BHUBANESWAR (COEB)
ADD-ON COURSE

STUDENT ENROLLMENT SHEET

Name of the Department: CIVIL ENGINEERING

Course Title: Introduction To Engineering Seismology

Academic Year: 2019-2020

Semester : 5th

Student's Declaration/Undertaking

1. I do hereby undertake to participate in the above mentioned add on course.

2. I do hereby, promise to abide by the admissible rules and regulations, concerning discipline, attendance, etc. of the department, and also to follow the Code of Conduct prescribed for the students of the Institute, as in force from time to time.

Sl. No.	Registration No.	Name of the Student	Signature of the Student
1	1701219013	SWATY SOUMYA SETHY	Swaty Soumya Sethy
2	1701219030	CHIRANJIB PRADHAN	Chiranjib Pradhan
3	1701219048	SHIVA SUNANI	Shiva Sunani
4	1701219054	FESAL MUSHARRAF	Fesal Musharrat
5	1701219058	GYANAJYOTI SWAIN	Gyanajoti Swain
6	1701219067	SUBHAKANTA ROUT	Subhakanta Rout
7	1701219070	BHOLANATH MALLICK	Bholanath Mallick
8	1701219146	AJAY KRUSHNA RAITA	Ajay Krishna Raita
9	1701219147	AKASH DALAI	Akash Dalai
10	1701219148	AKASH LAKRA	Akash Lakra
11	1701219149	DHIRAJ GAURAV KERKETTA	Dhiraj Gaurav Kerketta
12	1701219150	ELIAJAR TOPPO	Eliajar Toppo
13	1701219151	GIRIDHARI RAITA	Giridhari Raita
14	1701219152	MANAS RANJAN SAMAL	Manash Ranjan Samal
15	1701219153	MAUSAM KUMARI	Mausam Kumari
16	1701219154	NIKHIL KUMAR	Nikhil Kumar
17	1701219155	RAHUL KUMAR SAMAL	Rahul Kumar Samal
18	1701219156	RAJDEEP KUMAR	Rajdeep Kumar
19	1701219157	RANJAN MAJHI	Randan Majhi
20	1701219158	RAVI KUMAR GUPTA	Ravi Kumar Gupta
21	1701219159	ROSHAN KUJUR	Roshan Kujur
22	1701219160	SAMBIT KHUNTIA	Sambit Khuntia
23	1701219161	SANTOSH KUMAR SETHY	Santosh Kumar Sethy
24	1701219162	SASMITA SWAIN	Sasmita Swain
25	1701219163	SOUMYA RANJAN SENAPATI	Soumya Ranjan Senapati
26	1701219164	SUCHARITA MOHANTY	Sucharita Mohanty
27	1701219178	WAQAS NASIR	Waqas Nasir
28	1701219215	ASHISH KUMAR JENA	Ashish Kumar Jena
29	1701219216	SANTOSHI MISHRA	Santoshi Mishra
30	1701219217	KHAGENDRA MAHANTA	Khagendra Mahanta
31	1701219218	PRIYANKA PRIYADARSHINI	Priyanka Priyadarshini
32	1701219219	PRIYANKA PRIYADARSHINI ROUT	Priyanka Priyadarshini Rout
33	1701219220	LUCKY PRASAD BEHERA	Lucky Prasad Behera
34	1701219221	BIJAYA KUMAR DALABEHERA	Bijaya Kumar Dalabehera
35	1701219222	DEBASIS PATRA	Debasis Patra

Signature of course coordinator

[Handwritten Signature]

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COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF CIVIL ENGINEERING

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

PRINCIPAL
College of Engineering Bhubaneswar
Sheet No. 01

Programme: B.Tech in Civil Engineering

Semester: 5th

Academic Year: 2019-20

Name of the Course: Introduction To Engineering Seismology

Duration : 3 Sths

Date & Signature of the Student

SL. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date:	Date:	Date:	Date:
1	1701219013	SWATY SOUMYA SETHY	16/10/19	19/10/19	20/10/19	21/10/19
2	1701219030	CHIRANJIB PRADHAN	Chiranjib Pradhan	Chiranjib Pradhan	Chiranjib Pradhan	Chiranjib Pradhan
3	1701219048	SHIVA SUNANI	Shiva Sunani	Shiva Sunani	Shiva Sunani	Shiva Sunani
4	1701219054	FESAL MUSHARRAF	F. Musharruf	F. Musharruf	F. Musharruf	F. Musharruf
5	1701219058	GYANAJYOTI SWAIN	G. J. Swain	G. J. Swain	G. J. Swain	G. J. Swain
6	1701219067	SUBHAKANTA ROUT	S. Rout	S. Rout	S. Rout	S. Rout
7	1701219070	BHOLANATH MALLICK	Bholanath Mallik	Bholanath Mallik	Bholanath Mallik	Bholanath Mallik
8	1701219146	AJAY KRUSHNA RAITA	A. Raita	A. Raita	A. Raita	A. Raita
9	1701219147	AKASH DALAI	Akash Dalai	Akash Dalai	Akash Dalai	Akash Dalai
10	1701219148	AKASH LAKRA	Akash Lakra	Akash Lakra	Akash Lakra	Akash Lakra
11	1701219149	DHIRAJ GAURAV KERKETTA	D. G. Kerketta	D. G. Kerketta	D. G. Kerketta	D. G. Kerketta
12	1701219150	ELIJAH TOPPO	Elijah Toppo	Elijah Toppo	Elijah Toppo	Elijah Toppo
13	1701219151	GIRIDHARI RAITA	Giridhari Raita	Giridhari Raita	Giridhari Raita	Giridhari Raita
14	1701219152	MANAS RANJAN SAMAL	M. R. Samal	M. R. Samal	M. R. Samal	M. R. Samal
15	1701219153	MAUSAM KUMARI	Mausam Kumari	Mausam Kumari	Mausam Kumari	Mausam Kumari
16	1701219154	NIKHIL KUMAR	Nikhil Kumar	Nikhil Kumar	Nikhil Kumar	Nikhil Kumar
17	1701219155	RAHUL KUMAR SAMAL	R. K. Samal	R. K. Samal	R. K. Samal	R. K. Samal
18	1701219156	RAJDEEP KUMAR	Rajdeep Kumar	Rajdeep Kumar	Rajdeep Kumar	Rajdeep Kumar
19	1701219157	RANJAN MAJHI	Ranjan Majhi	Ranjan Majhi	Ranjan Majhi	Ranjan Majhi
20	1701219158	RAVI KUMAR GUPTA	R. Gupta	R. Gupta	R. Gupta	R. Gupta
21	1701219159	ROSHAN KUJUR	Roshan Kujur	Roshan Kujur	Roshan Kujur	Roshan Kujur
22	1701219160	SAMBIT KHUNTIA	Sambit Khuntia	Sambit Khuntia	Sambit Khuntia	Sambit Khuntia
23	1701219161	SANTOSH KUMAR SETHY	S. K. Sethy	S. K. Sethy	S. K. Sethy	S. K. Sethy
24	1701219162	SASMITA SWAIN	Sasmita Swain	Sasmita Swain	Sasmita Swain	Sasmita Swain
25	1701219163	SOUMYA RANJAN SENAPATI	S. R. Senapati	S. R. Senapati	S. R. Senapati	S. R. Senapati
26	1701219164	SUCHARITA MOHANTY	S. Mohanty	S. Mohanty	S. Mohanty	S. Mohanty

Signature of the Course Coordinator



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF CIVIL ENGINEERING

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

PRINCIPAL
College of Engineering Bhubaneswar
Sheet No. 51

Programme: B.Tech in Civil Engineering

Semester: 5th

Academic Year: 2019-20

Name of the Course: Introduction To Engineering Seismology

Duration : 38 Hrs

Date & Signature of the Student

Sl. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date:	Date:	Date:	Date:
27	1701219178	WAQAS NASIR	16/07/19	19/07/19	20/07/19	21/07/19
28	1701219215	ASHISH KUMAR JENA	16/07/19	19/07/19	20/07/19	21/07/19
29	1701219216	SANTOSHI MISHRA	16/07/19	19/07/19	20/07/19	21/07/19
30	1701219217	KHAGENDRA MAHANTA	16/07/19	19/07/19	20/07/19	21/07/19
31	1701219218	PRIYANKA PRIYADARSHINI	16/07/19	19/07/19	20/07/19	21/07/19
32	1701219219	PRIYANKA PRIYADARSHINI ROUT	16/07/19	19/07/19	20/07/19	21/07/19
33	1701219220	LUCKY PRASAD BEHERA	16/07/19	19/07/19	20/07/19	21/07/19
34	1701219221	BIJAYA KUMAR DALABEHERA	16/07/19	19/07/19	20/07/19	21/07/19
35	1701219222	DEBASIS PATRA	16/07/19	19/07/19	20/07/19	21/07/19
36	1701219223	ISWAR PRUSTY	16/07/19	19/07/19	20/07/19	21/07/19
37	1701219224	PRANAYA TANDI	16/07/19	19/07/19	20/07/19	21/07/19
38	1701219225	LITU TAYSAM	16/07/19	19/07/19	20/07/19	21/07/19
39	1701219226	SRIKANTA GOCHHAYAT	16/07/19	19/07/19	20/07/19	21/07/19
40	1701219227	SUMIT KUMAR SAHU	16/07/19	19/07/19	20/07/19	21/07/19
41	1701219228	MANAS BEHERA	16/07/19	19/07/19	20/07/19	21/07/19
42	1701219229	SIUBHAKANTA BALIARISINGH	16/07/19	19/07/19	20/07/19	21/07/19
43	1701219230	ALISHA MISHRA	16/07/19	19/07/19	20/07/19	21/07/19
44	1701219231	AMRUTA BHANJA DEO	16/07/19	19/07/19	20/07/19	21/07/19
45	1701219232	ANKIT DAS	16/07/19	19/07/19	20/07/19	21/07/19
46	1701219233	BARADA PRASANNA DAS	16/07/19	19/07/19	20/07/19	21/07/19
47	1701219234	DUSMANT KUMAR BEHERA	16/07/19	19/07/19	20/07/19	21/07/19
48	1701219235	HIMANSU SEKHAR DANDAPAT	16/07/19	19/07/19	20/07/19	21/07/19
49	1701219236	KASTURI RAY	16/07/19	19/07/19	20/07/19	21/07/19
50	1701219237	NIBEDITA MOHANTY	16/07/19	19/07/19	20/07/19	21/07/19
51	1701219238	PRAVAT KUMAR SAHOO	16/07/19	19/07/19	20/07/19	21/07/19

Signature of the Course Coordinator



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF CIVIL ENGINEERING

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

Sheet No. 52

PRINCIPAL
College of Engineering Bhubaneswar

Programme: B.Tech in Civil Engineering

Semester: 5th

Academic Year: 2019-20

Name of the Course: Introduction To Engineering Seismology

Duration : 38 Wks

Date & Signature of the Student

Sl. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date:	Date:	Date:	Date:
1	1701219013	SWATY SOUMYA SETHY	22/10/19	26/10/19	27/10/19	28/10/19
2	1701219030	CHIRANJIB PRADHAN	Chiranjib Pradhan	Chiranjib Pradhan	Chiranjib Pradhan	Chiranjib Pradhan
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5	1701219058	GYANAJYOTI SWAIN	G. J. Swain	G. J. Swain	G. J. Swain	G. J. Swain
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9	1701219147	AKASH DALAI	Akash Dalai	Akash Dalai	Akash Dalai	Akash Dalai
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15	1701219153	MAUSAM KUMARI	Mausam Kumari	Mausam Kumari	Mausam Kumari	Mausam Kumari
16	1701219154	NIKHIL KUMAR	Nikhil Kumar	Nikhil Kumar	Nikhil Kumar	Nikhil Kumar
17	1701219155	RAHUL KUMAR SAMAL	R. K. Samal	R. K. Samal	R. K. Samal	R. K. Samal
18	1701219156	RAJDEEP KUMAR	Rajdeep Kumar	Rajdeep Kumar	Rajdeep Kumar	Rajdeep Kumar
19	1701219157	RANJAN MAJHI	Ranjana Majhi	Ranjana Majhi	Ranjana Majhi	Ranjana Majhi
20	1701219158	RAVI KUMAR GUPTA	R. K. Gupta	R. K. Gupta	R. K. Gupta	R. K. Gupta
21	1701219159	ROSHAN KUJUR	Roshan Kujur	Roshan Kujur	Roshan Kujur	Roshan Kujur
22	1701219160	SAMBIT KHUNTIA	Sambit Khuntia	Sambit Khuntia	Sambit Khuntia	Sambit Khuntia
23	1701219161	SANTOSH KUMAR SETHY	S. K. Sethy	S. K. Sethy	S. K. Sethy	S. K. Sethy
24	1701219162	SASMITA SWAIN	Sasmita Swain	Sasmita Swain	Sasmita Swain	Sasmita Swain
25	1701219163	SOUMYA RANJAN SENAPATI	S. R. Senapati	S. R. Senapati	S. R. Senapati	S. R. Senapati
26	1701219164	SUCHARITA MOHANTY	S. Mohanty	S. Mohanty	S. Mohanty	S. Mohanty

Signature of the Course Coordinator



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF CIVIL ENGINEERING

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

PRINCIPAL
College of Engineering Bhubaneswar
Sheet No. 02

Programme: B.Tech in Civil Engineering

Semester: 5th

Academic Year: 2019-20

Name of the Course: Introduction To Engineering Seismology

Duration : 38 Nos

Date & Signature of the Student

Sl. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date: <u>22/10/19</u>	Date: <u>26/10/19</u>	Date: <u>27/10/19</u>	Date: <u>28/10/19</u>
27	1701219178	WAQAS NASIR	<u>Waqas Nasir</u>	<u>Waqas Nasir</u>	<u>Waqas Nasir</u>	<u>Waqas Nasir</u>
28	1701219215	ASHISH KUMAR JENA	<u>A.K.Jena</u>	<u>A.K.Jena</u>	<u>A.K.Jena</u>	<u>A.K.Jena</u>
29	1701219216	SANTOSHI MISHRA	<u>Santoshi Mishra</u>	<u>Santoshi Mishra</u>	<u>Santoshi Mishra</u>	<u>Santoshi Mishra</u>
30	1701219217	KHAGENDRA MAHANTA	<u>ABS</u>	<u>ABS</u>	<u>ABS</u>	<u>ABS</u>
31	1701219218	PRIYANKA PRIYADARSHINI	<u>P.Priyadarshini</u>	<u>P.Priyadarshini</u>	<u>P.Priyadarshini</u>	<u>P.Priyadarshini</u>
32	1701219219	PRIYANKA PRIYADARSHINI ROUT	<u>P.P Rout</u>	<u>P.P Rout</u>	<u>P.P Rout</u>	<u>P.P Rout</u>
33	1701219220	LUCKY PRASAD BEHERA		<u>Lucky P. Behera</u>	<u>Lucky P. Behera</u>	<u>Lucky P. Behera</u>
34	1701219221	BIJAYA KUMAR DALABEHERA	<u>B.K Dalabhera</u>	<u>B.K Dalabhera</u>	<u>B.K Dalabhera</u>	<u>B.K Dalabhera</u>
35	1701219222	DEBASIS PATRA	<u>Debasis Patra</u>	<u>Debasis Patra</u>	<u>Debasis Patra</u>	<u>Debasis Patra</u>
36	1701219223	ISWAR PRUSTY	<u>Iswar Prusty</u>	<u>Iswar Prusty</u>	<u>Iswar Prusty</u>	<u>Iswar Prusty</u>
37	1701219224	PRANAYA TANDI	<u>Pranaya Tandi</u>	<u>Pranaya Tandi</u>	<u>Pranaya Tandi</u>	<u>ABS</u>
38	1701219225	LITU TAYSAM	<u>Litu Taysam</u>	<u>Litu Taysam</u>	<u>Litu Taysam</u>	<u>Litu Taysam</u>
39	1701219226	SRIKANTA GOCHHAYAT	<u>Srikanta Gochhayat</u>	<u>Srikanta Gochhayat</u>	<u>Srikanta Gochhayat</u>	<u>Srikanta Gochhayat</u>
40	1701219227	SUMIT KUMAR SAHU	<u>S.K. Saha</u>	<u>S.K. Saha</u>	<u>S.K. Saha</u>	<u>S.K. Saha</u>
41	1701219228	MANAS BEHERA	<u>Manas Behera</u>	<u>Manas Behera</u>	<u>Manas Behera</u>	<u>Manas Behera</u>
42	1701219229	SHUBHAKANTA BALLARISINGH	<u>S. Ballarsingh</u>	<u>S. Ballarsingh</u>	<u>S. Ballarsingh</u>	<u>S. Ballarsingh</u>
43	1701219230	ALISHA MISHRA	<u>Alisha Mishra</u>	<u>Alisha Mishra</u>	<u>Alisha Mishra</u>	<u>Alisha Mishra</u>
44	1701219231	AMRUTA BHANJA DEO	<u>A.B Deo</u>	<u>A.B Deo</u>	<u>A.B Deo</u>	<u>A.B Deo</u>
45	1701219232	ANKIT DAS	<u>Ankit Das</u>	<u>Ankit Das</u>	<u>Ankit Das</u>	<u>Ankit Das</u>
46	1701219233	BARADA PRASANNA DAS	<u>B.P. Das</u>	<u>B.P. Das</u>	<u>B.P. Das</u>	<u>B.P. Das</u>
47	1701219234	DUSMANT KUMAR BEHERA	<u>Dusmant K. Behera</u>	<u>Dusmant K. Behera</u>	<u>Dusmant K. Behera</u>	<u>Dusmant K. Behera</u>
48	1701219235	HIMANSU SEKHAR DANDAPAT	<u>ABS</u>	<u>ABS</u>	<u>ABS</u>	<u>ABS</u>
49	1701219236	KAJSTURI RAY	<u>Kajsturi Ray</u>	<u>Kajsturi Ray</u>	<u>Kajsturi Ray</u>	<u>Kajsturi Ray</u>
50	1701219237	NIBEDITA MOHANTY	<u>N. Mohanty</u>	<u>N. Mohanty</u>	<u>N. Mohanty</u>	<u>N. Mohanty</u>
51	1701219238	PRAVAT KUMAR SAHOO	<u>P.K. Sahoo</u>	<u>P.K. Sahoo</u>	<u>P.K. Sahoo</u>	<u>P.K. Sahoo</u>

Signature of the Course Coordinator

(Signature)

(Signature)

(Signature)

(Signature)



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF CIVIL ENGINEERING

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

PRINCIPAL
College of Engineering Bhubaneswar
Sheet No. 63

Programme: B.Tech in Civil Engineering

Semester: 5th

Academic Year: 2019-20

Name of the Course: Introduction To Engineering Seismology

Duration: 38 hrs

Date & Signature of the Student

Sl. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date:	Date:	Date:	Date:
1	1701219013	SWATY SOUMYA SETHY	S.S. SETHY 29/08/19	S.S. SETHY 30/08/19	S.S. SETHY 01/09/19	S.S. SETHY 05/09/19
2	1701219030	CHIRANJIB PRADHAN	Chiranjib Pradhan Shree Suren	Shree Suren	Chiranjib Pradhan Shree Suren	Chiranjib Pradhan Shree Suren
3	1701219048	SHIVA SUNANI	Shree Suren Pradhaan	Shree Suren	Shree Suren	Shree Suren
4	1701219054	FESAL MUSHARRAF	Faisal Musharraf G.P. Suren	Faisal Musharraf G.P. Suren	Faisal Musharraf G.P. Suren	Faisal Musharraf G.P. Suren
5	1701219058	GYANAJYOTI SWAIN	G. Rout	G. Rout	G. Rout	G. Rout
6	1701219067	SUBHAKANTA ROUT	S. Rout	S. Rout	S. Rout	S. Rout
7	1701219070	BHOLANATH MALLICK	ABD	Bholanath Mallik A.K. Raifa	Bholanath Mallik A.K. Raifa	Bholanath Mallik A.K. Raifa
8	1701219146	AJAY KRUSHNA RAITA	Akash Dalai	Akash Dalai	Akash Dalai	Akash Dalai
9	1701219147	AKASH DALAI	ABD	Akash Dalai	Akash Dalai	Akash Dalai
10	1701219148	AKASH LAKRA	Akash Lakra	Akash Lakra	Akash Lakra	Akash Lakra
11	1701219149	DHIRAJ GAURAV KERKETTA	D.G. Kerketta	D.G. Kerketta	D.G. Kerketta	D.G. Kerketta
12	1701219150	ELIJAR TOPPO	Elijar Toppo	Elijar Toppo	Elijar Toppo	Elijar Toppo
13	1701219151	GIRIDHARI RAITA	Giridhari Raifa	Giridhari Raifa	Giridhari Raifa	Giridhari Raifa
14	1701219152	MANAS RANJAN SAMAL	M.R. Samal	M.R. Samal	M.R. Samal	M.R. Samal
15	1701219153	MAUSAM KUMARI	Mausam Kumari	Mausam Kumari	Mausam Kumari	Mausam Kumari
16	1701219154	NIKHIL KUMAR	Nikhil Kumar	Nikhil Kumar	Nikhil Kumar	Nikhil Kumar
17	1701219155	RAHUL KUMAR SAMAL	R.K. Samal	R.K. Samal	R.K. Samal	R.K. Samal
18	1701219156	RAJDEEP KUMAR	Rajdeep Kumar	Rajdeep Kumar	Rajdeep Kumar	Rajdeep Kumar
19	1701219157	RANJAN MAJHI	Ranjan Majhi	Ranjan Majhi	Ranjan Majhi	Ranjan Majhi
20	1701219158	RAVI KUMAR GUPTA	R.K. Gupta	R.K. Gupta	R.K. Gupta	R.K. Gupta
21	1701219159	ROSHAN KUJUR	Roshan Kujur	Roshan Kujur	Roshan Kujur	Roshan Kujur
22	1701219160	SAMBIT KHUNTIA	Sambit Khuntia	Sambit Khuntia	Sambit Khuntia	Sambit Khuntia
23	1701219161	SANTOSH KUMAR SETHY	S.K. SETHY	S.K. SETHY	S.K. SETHY	S.K. SETHY
24	1701219162	SASMITA SWAIN	Sasmita Swain	Sasmita Swain	Sasmita Swain	Sasmita Swain
25	1701219163	SOUMYA RANJAN SENAPATI	S.R. Senapati	S.R. Senapati	S.R. Senapati	S.R. Senapati
26	1701219164	SUCHARITA MOHANTY	S. Mohanty	S. Mohanty	S. Mohanty	S. Mohanty

Signature of the Course Coordinator



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF CIVIL ENGINEERING

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

PRINCIPAL
College of Engineering Bhubaneswar
Sheet No. 03

Programme: B.Tech in Civil Engineering

Semester: 5th

Academic Year: 2019-20

Name of the Course: Introduction To Engineering Seismology

Duration : 38 Nos Date & Signature of the Student

Sl. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date:	Date:	Date:	Date:
27	1701219178	WAQAS NASIR	29/08/19	30/08/19	04/09/19	08/09/19
28	1701219215	ASHISH KUMAR JENA	A.K. Jena	A.K. Jena	A.K. Jena	A.K. Jena
29	1701219216	SANTOSHI MISHRA	SANTOSHI MISHRA	SANTOSHI MISHRA	SANTOSHI MISHRA	SANTOSHI MISHRA
30	1701219217	KHAGENDRA MAHANTA	ABS	ABS	ABS	ABS
31	1701219218	PRIYANKA PRIYADARSHINI	P. Priyadarshini	P. Priyadarshini	P. Priyadarshini	P. Priyadarshini
32	1701219219	PRIYANKA PRIYADARSHINI ROUT	P.P Rout	P.P Rout	P.P Rout	P.P Rout
33	1701219220	LUCKY PRASAD BEHERA	Lucky P. Behera	Lucky P. Behera	Lucky P. Behera	Lucky P. Behera
34	1701219221	BIJAYA KUMAR DALABEHERA	B. K. Dalabhera	B. K. Dalabhera	B. K. Dalabhera	B. K. Dalabhera
35	1701219222	DEBASIS PATRA	Debasis patra	Debasis patra	Debasis patra	Debasis patra
36	1701219223	ISWAR PRUSTY	ABS	Iswar Prusty	Iswar Prusty	Iswar Prusty
37	1701219224	PRANAYA TANDI	Pranaya Tandi	Pranaya Tandi	Pranaya Tandi	Pranaya Tandi
38	1701219225	LITU TAYSAM	Lita Taysam	Lita Taysam	Lita Taysam	Lita Taysam
39	1701219226	SRIKANTA GOCHHAYAT	Srikanta Gochhayat	Srikanta Gochhayat	ABS	Srikanta Gochhayat
40	1701219227	SUMIT KUMAR SAHU	S.K. Saha	S.K. Saha	S.K. Saha	S.K. Saha
41	1701219228	MANAS BEHERA	Manas Behera	Manas Behera	Manas Behera	Manas Behera
42	1701219229	SHUBHAKANTA BALLARISINGH	S. Ballarsingh	S. Ballarsingh	S. Ballarsingh	S. Ballarsingh
43	1701219230	ALISHA MISHRA	Alisha Mishra	Alisha Mishra	Alisha Mishra	Alisha Mishra
44	1701219231	AMRUTA BHANJA DEO	A.B. Deo	A.B. Deo	A.B. Deo	A.B. Deo
45	1701219232	ANKIT DAS	Ankit Das	Ankit Das	Ankit Das	Ankit Das
46	1701219233	BARADA PRASANNA DAS	B.P. Das	B.P. Das	B.P. Das	B.P. Das
47	1701219234	DUSMANT KUMAR BEHERA	Dusmant kumar Behera	Dusmant kumar Behera	Dusmant kumar Behera	Dusmant kumar Behera
48	1701219235	HIMANSU SEKHAR DANDAPAT	ABS	ABS	ABS	ABS
49	1701219236	KASTURI RAY	Kasturi ray	Kasturi ray	Kasturi ray	Kasturi ray
50	1701219237	NIBEDITA MOHANTY	N. Mohanty	N. Mohanty	N. Mohanty	N. Mohanty
51	1701219238	PRAVAT KUMAR SAHOO	P. K. Sahoo	P. K. Sahoo	P. K. Sahoo	P. K. Sahoo

Signature of the Course Coordinator

(Signature)

(Signature)

(Signature)

(Signature)



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF CIVIL ENGINEERING

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

Sheet No. _____

PRINCIPAL
College of Engineering Bhubaneswar

Programme: B.Tech in Civil Engineering

Semester: 5th

Academic Year: 2019-20

Name of the Course: Introduction To Engineering Seismology

Duration : 38 hrs Date & Signature of the Student

Sl. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date:	Date:	Date:	Date:
1	1701219013	SWATY SOUMYA SETHY	S.S. sethy	S.S. sethy	S.S. sethy	S.S. sethy
2	1701219030	CHIRANJIB PRADHAN	Chiranjib Pradhan	Chiranjib Pradhan	Chiranjib Pradhan	Chiranjib Pradhan
3	1701219048	SHIVA SUNANI	Shree Sunani	Shree Sunani	Shree Sunani	Shree Sunani
4	1701219054	FESAL MUSHARRAF	Fahad	Fahad	Fahad	Fahad
5	1701219058	GYANAJYOTI SWAIN	G.J. Swain	A.B.S	G.J. Swain	G.J. Swain
6	1701219067	SUBHAKANTA ROU	S. Rou	S. Rou	S. Rou	S. Rou
7	1701219070	BHOLANATH MALLICK	Bholanath Mallik	Bholanath Mallik	Bholanath Mallik	Bholanath Mallik
8	1701219146	AJAY KRUSHNA RAITA	Ak Raite	Ak Raite	Ak Raite	Ak Raite
9	1701219147	AKASH DALAI	Akash Dalai	Akash Dalai	Akash Dalai	Akash Dalai
10	1701219148	AKASH LAKRA	Akash Lakra	Akash Lakra	Akash Lakra	Akash Lakra
11	1701219149	DHIRAJ GAURAV KERKETTA	D.G. Kerketta	D.G. Kerketta	D.G. Kerketta	D.G. Kerketta
12	1701219150	ELIJAH TOPPO	Eliabur toppo	Eliabur toppo	Eliabur toppo	Eliabur toppo
13	1701219151	GIRIDHARI RAITA	Giridhari Raite	Giridhari Raite	Giridhari Raite	Giridhari Raite
14	1701219152	MANAS RANJAN SAMAL	M.R. Samal	M.R. Samal	M.R. Samal	M.R. Samal
15	1701219153	MAUSAM KUMARI	Mausam Kumari	Mausam Kumari	Mausam Kumari	Mausam Kumari
16	1701219154	NIKHIL KUMAR	Nikhil Kumar	Nikhil Kumar	Nikhil Kumar	Nikhil Kumar
17	1701219155	RAHUL KUMAR SAMAL	R.K. Samal	A.P.S	A.S	A.P.S
18	1701219156	RAJDEEP KUMAR	Rajdeep Kumar	Rajdeep Kumar	Rajdeep Kumar	Rajdeep Kumar
19	1701219157	RANJAN MAJHI	Ranjan Majhi	Ranjan Majhi	Ranjan Majhi	Ranjan Majhi
20	1701219158	RAVI KUMAR GUPTA	Rk Gupta	Rk Gupta	Rk Gupta	Rk Gupta
21	1701219159	ROSHAN KUJUR	Roshan Kujur	Roshan Kujur	Roshan Kujur	Roshan Kujur
22	1701219160	SAMBIT KHUNTIA	Sambit Khuntia	Sambit Khuntia	Sambit Khuntia	Sambit Khuntia
23	1701219161	SANTOSH KUMAR SETHY	S.K. Sethy	S.K. Sethy	S.K. Sethy	S.K. Sethy
24	1701219162	SASMITA SWAIN	Sasmita Swain	Sasmita Swain	Sasmita Swain	Sasmita Swain
25	1701219163	SOUMYA RANJAN SENAPATI	S. Senapati	S. Senapati	S. Senapati	S. Senapati
26	1701219164	SUCHARITA MOHANTY	S. Mohanty	S. Mohanty	S. Mohanty	S. Mohanty

Signature of the Course Coordinator



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF CIVIL ENGINEERING

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

Sheet No. 04

PRINCIPAL
College of Engineering Bhubaneswar

Programme: B.Tech in Civil Engineering

Semester: 5th

Academic Year: 2019-20

Name of the Course: Introduction To Engineering Seismology

Duration : 38 Max

Date & Signature of the Student

Sl. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date:	Date:	Date:	Date:
27	1701219178	WAQAS NASIR	06/09/19	10/09/19	11/09/19	12/09/19
28	1701219215	ASHISH KUMAR JENA	Waqas Nasir	Waqas Nasir	Waqas Nasir	Waqas Nasir
29	1701219216	SANTOSHI MISHRA	A.K. Jena	A.K. Jena	A.K. Jena	A.K. Jena
30	1701219217	KHAGENDRA MAHANTA	Santoshi Mishra	Santoshi Mishra	Santoshi Mishra	Santoshi Mishra
31	1701219218	PRIYANKA PRIYADARSHINI	ABR	ABR	ABR	ABR
32	1701219219	PRIYANKA PRIYADARSHINI ROUT	P.P Rout	P.P Rout	P.P Rout	P.P Rout
33	1701219220	LUCKY PRASAD BEHERA	Lucky P. Behera	Lucky P. Behera	Lucky P. Behera	Lucky P. Behera
34	1701219221	BIJAYA KUMAR DALABEHERA	B. B. Dalabhera	B. B. Dalabhera	B. B. Dalabhera	B. B. Dalabhera
35	1701219222	DEBASIS PATRA	Debasis Patra	Debasis Patra	Debasis Patra	Debasis Patra
36	1701219223	ISWAR PRUSTY	Iswar Prusty	Iswar Prusty	Iswar Prusty	Iswar Prusty
37	1701219224	PRANAYA TANDI	Pranaya Tandi	Pranaya Tandi	Pranaya Tandi	Pranaya Tandi
38	1701219225	LITU TAYSAM	Lita Taysam	Lita Taysam	Lita Taysam	Lita Taysam
39	1701219226	SRIKANTA GOCHHAYAT	Srikanta Gochhayat	Srikanta Gochhayat	Srikanta Gochhayat	Srikanta Gochhayat
40	1701219227	SUMIT KUMAR SAHU	S.K. Saha	S.K. Saha	S.K. Saha	S.K. Saha
41	1701219228	MANAS BEHERA	Manas Behera	Manas Behera	Manas Behera	Manas Behera
42	1701219229	SHUBHAKANTA BALIARSINGH	ABR	S. Baligamby	Manas Behera	Manas Behera
43	1701219230	ALISHA MISHRA	Alisha Mishra	Alisha Mishra	Alisha Mishra	Alisha Mishra
44	1701219231	AMRUTA BHANJA DEO	A.B Deo	A.B Deo	A.B Deo	A.B Deo
45	1701219232	ANKIT DAS	Ankita Das	Ankita Das	Ankita Das	Ankita Das
46	1701219233	BARADA PRASANNA DAS	B.P. Das	B.P. Das	B.P. Das	B.P. Das
47	1701219234	DUSMANT KUMAR BEHERA	Dusmant Ku. Behera	Dusmant Ku. Behera	Dusmant Ku. Behera	Dusmant Ku. Behera
48	1701219235	HIMANSU SEKHAR DANDAPAT	ABR	ABR	ABR	ABR
49	1701219236	KASTURI RAY	Kasturi Ray	Kasturi Ray	Kasturi Ray	Kasturi Ray
50	1701219237	NIBEDITA MOHANTY	N. Mohanty	N. Mohanty	N. Mohanty	N. Mohanty
51	1701219238	PRAVAT KUMAR SAHOO	P.K. Sahoo	P.K. Sahoo	P.K. Sahoo	P.K. Sahoo

Signature of the Course Coordinator



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF CIVIL ENGINEERING
ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

PRINCIPAL
College of Engineering Bhubaneswar
Sheet No. 05

Programme: B.Tech in Civil Engineering

Semester: 5th

Academic Year: 2019-20

Name of the Course: Introduction To Engineering Seismology

Duration : 28 Wks

Date & Signature of the Student

Sl. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date:	Date:	Date:	Date:
1	1701219013	SWATY SOUMYA SETHY	S.S. Sethy 13/09/19	S.S. Sethy 16/09/19	S.S. Sethy 19/09/19	
2	1701219030	CHIRANJIB PRADHAN	Chiranjib Pradhan Shriya Swarni	Chiranjib Pradhan Shriya Swarni	Chiranjib Pradhan Shriya Swarni	
3	1701219048	SHIWA SUNANI	ABBS ABBS	Mukherjee S. Rout	Mukherjee S. Rout	
4	1701219054	FESAL MUSHARRAF				
5	1701219058	GYANAJYOTI SWAIN				
6	1701219067	SUBHAKANTA ROUT	S. Rout	S. Rout	S. Rout	
7	1701219070	BHOLANATH MALLICK	Bholanath Mallik Ak Raita	Bholanath Mallik Ak Raita	ABBS Ak Raita	
8	1701219146	AAAY KRUSHNA RAITA				
9	1701219147	AKASH DALAI	Akash Dalai	Akash Dalai	Akash Dalai	
10	1701219148	AKASH LAKRA	Akash Lakra	Akash Lakra	Akash Lakra	
11	1701219149	DHIRAJ GAURAV KERKETTA	D.G. Kerketta	D.G. Kerketta		
12	1701219150	EIJAJAR TOPPO	Chhabar toppo Giridhari Raita	Chhabar toppo Giridhari Raita	Chhabar toppo Giridhari Raita	
13	1701219151	GIRDHARI RAITA				
14	1701219152	MANAS RANJAN SAMAL	M.R. Samal	M.R. Samal	M.R. Samal	
15	1701219153	MAUSAM KUMARI	Mausam kumari	Mausam kumari	Mausam kumari	
16	1701219154	NIKHIL KUMAR	Nikhil Kumar	Nikhil Kumar	Nikhil Kumar	
17	1701219155	RAHUL KUMAR SAMAL	R.K. Samal	ABBS	R.K. Samal	
18	1701219156	RAJDEEP KUMAR	Rajdeep Kumar	Rajdeep Kumar	Rajdeep Kumar	
19	1701219157	RANJAN MAJHI	Ranjan Majhi	Ranjan Majhi	Ranjan Majhi	
20	1701219158	RAVI KUMAR GUPTA	Rk Gupta	Rk Gupta	Rk Gupta	
21	1701219159	ROSHAN KUJUR	Roshan Kujur	Roshan Kujur	Roshan Kujur	
22	1701219160	SAMBIT KHUNTIA	Sambit Khuntia	Sambit Khuntia	Sambit Khuntia	
23	1701219161	SANTOSH KUMAR SETHY	S.K. Sethy	S.K. Sethy	S.K. Sethy	
24	1701219162	SASMITA SWAIN	Sasmita Swain	Sasmita Swain	Sasmita Swain	
25	1701219163	SOUMYA RANJAN SENAPATI	S.R. Senapati	S.R. Senapati	S.R. Senapati	
26	1701219164	SUCHARITA MOHANTY	S. Mohanty	S. Mohanty	S. Mohanty	

Signature of the Course Coordinator



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF CIVIL ENGINEERING

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

Sheet No. 05

PRINCIPAL
College of Engineering Bhubaneswar

Programme: B.Tech in Civil Engineering

Semester: 5th

Academic Year: 2019-20

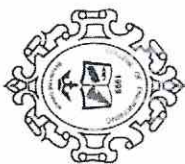
Name of the Course: Introduction To Engineering Seismology

Date & Signature of the Student

Duration: 38 hrs

Sl. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date:	Date:	Date:	Date:
27	1701219178	WAQAS NASIR	13/09/19	18/09/19	19/09/19	
28	1701219215	ASHISH KUMAR JENA	Waqas Nasir	Waqas Nasir	Waqas Nasir	
29	1701219216	SANTOSHI MISHRA	A.K. Jena	A.K. Jena	A.K. Jena	
30	1701219217	KHAGENDRA MAHANTA	Santoshi Mishra	Santoshi Mishra	Santoshi Mishra	
31	1701219218	PRIYANKA PRIYADARSHINI	ADs	ADs	ADs	
32	1701219219	PRITYANKA PRIYADARSHINI ROUT	P.P Rout	P.P Rout	P.P Rout	
33	1701219220	LUCKY PRASAD BEHERA	Lucky P. Behera	Lucky P. Behera	Lucky P. Behera	
34	1701219221	BIJAYA KUMAR DALABEHERA	ADs	B.K Dalabehra	B.K Dalabehra	
35	1701219222	DEBASIS PATRA	Debasis patra	Debasis patra	Debasis patra	
36	1701219223	ISWAR PRUSTY	Iswar Prusty	Iswar Prusty	Iswar Prusty	
37	1701219224	PRANAYA TANDI	Pranaya Tandi	Pranaya Tandi	Pranaya Tandi	
38	1701219225	LITU TAYSAM	Lita Taysam	Lita Taysam	Lita Taysam	
39	1701219226	SRIKANTA GOCHHAYAT	Srikanta Gochhayat	Srikanta Gochhayat	Srikanta Gochhayat	
40	1701219227	SUMIT KUMAR SAHU	S.K. Saha	S.K. Saha	S.K. Saha	
41	1701219228	MANAS BEHERA	Manas Behera	Manas Behera	Manas Behera	
42	1701219229	SHUBHAKANTA BALIARSINGH	S. Balarsingh	S. Balarsingh	S. Balarsingh	
43	1701219230	ALISHA MISHRA	Alisha Mishra	Alisha Mishra	Alisha Mishra	
44	1701219231	AMRUTA BHANIA DEO	A.B Deo	A.B Deo	A.B Deo	
45	1701219232	ANKIT DAS	Ankita Das	Ankita Das	Ankita Das	
46	1701219233	BARADA PRASANNA DAS	B.P. Das	B.P. Das	B.P. Das	
47	1701219234	DUSMANT KUMAR BEHERA	Dusmant Kumar Behera	Dusmant Kumar Behera	Dusmant Kumar Behera	
48	1701219235	HIMANSU SEKHAR DANDAPAT	ADs	ADs	ADs	
49	1701219236	KASTURI RAY	Kasturi ray	Kasturi ray	Kasturi ray	
50	1701219237	NIBEDITA MOHANTY	Nimohantny	Nimohantny	Nimohantny	
51	1701219238	PRAVAT KUMAR SAHOO	P.K. Sahoo	P.K. Sahoo	P.K. Sahoo	

Signature of the Course Coordinator



COLLEGE OF ENGINEERING BHUBANESWAR
PLOT NO-1(A), CNI COMPLEX, PATIA, BHUBANESWAR, KHORDHA, ODISHA-751024



Certificate of Completion

This is to certify that Mr./Ms. AKASH DALAI, student of the Department


of Civil Engg. semester Fifth bearing registration number 1701219147

has successfully completed the ADD-ON Course titled Introduction To Engineering Seismology

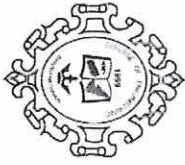
conducted at College of Engineering Bhubaneswar in the academic year 2019-20.


Course-Coordinator


Principal


PRINCIPAL
College of Engineering Bhubaneswar

TRUE COPY



COLLEGE OF ENGINEERING BHUBANESWAR
PLOT NO-1(A), CNI COMPLEX, PATIA, BHUBANESWAR, KHORDHA, ODISHA-751024



Certificate of Completion


This is to certify that Mr./Ms. AKASH LAKRA, student of the Department


of Civil Engg. semester Fifth bearing registration number 1701219148

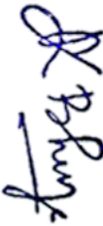
has successfully completed the ADD-ON Course titled Introduction To Engineering Seismology

conducted at College of Engineering Bhubaneswar in the academic year 2019-20.

TRUE COPY


Course-Coordinator


Principal


PRINCIPAL
College of Engineering Bhubaneswar



COLLEGE OF ENGINEERING BHUBANESWAR
 PLOT NO-1(A), CNI COMPLEX, PATIA, BHUBANESWAR, KHORDHA, ODISHA-751024



Certificate of Completion

This is to certify that Mr./Ms. DHIRAJ GAURAV KERKETTA student of the Department

of Civil Engg. semester Fifth bearing registration number 1701219149

has successfully completed the ADD-ON Course titled Introduction To Engineering Seismology

conducted at College of Engineering Bhubaneswar in the academic year 2019-20.

[Signature]
 Course-Coordinator

[Signature]
 Principal

[Signature]
 PRINCIPAL
 College of Engineering Bhubaneswar

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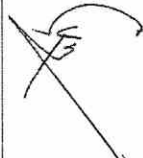


Certificate of Completion

This is to certify that Mr./Ms. ELIJAR TOPPO, student of the Department
of Civil Engg. semester Fifth bearing registration number 1701219150
has successfully completed the ADD-ON Course titled Introduction To Engineering Seismology
conducted at College of Engineering Bhubaneswar in the academic year 2019-20.

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Course-Coordinator


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Certificate of Completion

This is to certify that Mr./Ms. GIRIDHARIRAITA, student of the Department
of Civil Engg. semester Fifth bearing registration number 1701219151
has successfully completed the ADD-ON Course titled Introduction To Engineering Seismology
conducted at College of Engineering Bhubaneswar in the academic year 2019-20.

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