



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- 2018-2019

Ref No: COEB/CIVIL/2018/45

Date: 02/07/2018

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 2018-2019. All the students are instructed to enroll their names for the following courses on or before **12/07/2018**. The classes will be commenced from **16/07/2018**. 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	Ms. Sipra Mallick

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

E. 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

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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

Semester : 5TH


Academic Year: 2018-2019

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	1601219007	ASHISH KUMAR SINGH	Ashish Kumar Singh
2	1601219008	MONALISA BAL	Monalisha Bal
3	1601219009	SANSU PRIYA	Sansu Priya
4	1601219010	SURAJ KUMAR	Suraj Kumar
5	1601219071	PRIYA XALXO	Priya Xalxo
6	1601219184	SIDDHARTH SAHOO	Siddharth Sahoo
7	1601219185	SATYANARAYAN DAS	Satyanarayan Das
8	1601219186	DEEPANKAR TRIPATHY	Deepankar Tripathy
9	1601219187	KALI PRASAD NANDI	Kali Prasad Nandi
10	1601219188	MEGHA MAYUREE ROUT	Megha Mayuree Rout
11	1601219189	PRASANJIT NAYAK	Prasanjit Nayak
12	1601219190	RAJASHREE MALLIK	Rajashree Mallik
13	1601219191	SABYASACHI SAHOO	Sabyasachi Sahoo
14	1601219192	SASMITA DAS	Sasmita Das
15	1601219193	SRINIBAS ROUT	Srinibas Rout
16	1601219194	SUBHRAKALI PARIDA	Subhrakali Parida
17	1601219195	SUKANYA KUNDU	Sukanya Kundu
18	1601219196	SUMAN SANGITA SETHI	Suman Sangita Sethi
19	1601219197	SUSHREE SUCHISMITA	Sushree Suchismita
20	1601219198	ALOK RANJAN SATAPATHY	Alok Ranjan Satapathy
21	1601219199	ANANDITA PRITIDARSINI	Anandita Prtidarsini
22	1601219200	ANANYA MOHANTY	Ananya Mohanty
23	1601219201	ARPAN MOHANTY	Arpan Mohanty
24	1601219202	BINODINI BEHERA	Binodini Behera
25	1601219203	BISHNU PRASAD PANIGRAHI	Bishnu Prasad Panigrahi
26	1601219204	BISWAJIT JENA	Biswajit Jena
27	1601219205	CHETANA NAYAK	Chetana Nayak
28	1601219206	DEEPAN SHANKAR NAYAK	DEEPAN SHANKAR NAYAK
29	1601219207	DHEERAJ KUMAR	Dheeraj Kumar
30	1601219208	GIRISH CHANDRA KAR	Girish Chandra Kar
31	1601219209	JAYASHREE MARANDI	Jayashree Marandi
32	1601219210	LIPISHREE NAIK	Lipishree Naik
33	1601219211	MAMATA MURMU	Mamata Murmu
34	1601219212	MANOJ KUMAR EKKA	MANOJ KUMAR EKKA
35	1601219213	MOUSUMEE PATEL	Mousumee Patel

Signature of course coordinator


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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

Name of the Course: Introduction To Engineering Seismology

Semester: 5th

Academic Year: 2018-19

Duration : 38 Wks

Date & Signature of the Student

SL. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date:	Date:	Date:	Date:
1	1601219007	ASHISH KUMAR SINGH	16/07/18	17/07/18	18/07/18	19/07/18
2	1601219008	MONALISA BAL	Monalisa bal	monalisa bal	monalisa bal	monalisa bal
3	1601219009	SANSU PRIYA	Sansu Priya	Sansu Priya	Sansu Priya	Sansu Priya
4	1601219010	SURAJ KUMAR	Suresh Kumar	Suresh Kumar	Suresh Kumar	Suresh Kumar
5	1601219071	PRIYA XALXO	ABS	ABS	ABS	ABS
6	1601219184	SIDDHARTH SAHOO	Siddharth Sahoo	Siddharth Sahoo	Siddharth Sahoo	Siddharth Sahoo
7	1601219185	SATYANARAYAN DAS	S.N Das	S.N Das	S.N Das	S.N Das
8	1601219186	DEEPANKAR TRIPATHY	D. Tripathy	D. Tripathy	D. Tripathy	D. Tripathy
9	1601219187	KALI PRASAD NANDI	Kali Prasad Nandi	Kali Prasad Nandi	Kali Prasad Nandi	Kali Prasad Nandi
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12	1601219190	RAJASHREE MALLIK	Rajashree Mallik	Rajashree Mallik	Rajashree Mallik	Rajashree Mallik
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14	1601219192	SASMITA DAS	Sasmita Das	Sasmita Das	Sasmita Das	Sasmita Das
15	1601219193	SRINIBAS ROUT	Srinibas Rout	Srinibas Rout	Srinibas Rout	Srinibas Rout
16	1601219194	SUBHRAKALI PARIDA	S. Parida	S. Parida	S. Parida	S. Parida
17	1601219195	SUKANYA KUNDU	Sukanya Kundu	Sukanya Kundu	Sukanya Kundu	Sukanya Kundu
18	1601219196	SUMAN SANGITA SETHI	S.S. Sethi	S.S. Sethi	S.S. Sethi	S.S. Sethi
19	1601219197	SUSHREE SUCHISMITA	S. Suchismita	S. Suchismita	S. Suchismita	S. Suchismita
20	1601219198	ALOK RANJAN SATAPATHY	AR. Satapathy	AR. Satapathy	AR. Satapathy	AR. Satapathy
21	1601219199	ANANDITA PRITIDARSINI PANDA	AP PANDA	AP PANDA	AP PANDA	AP PANDA
22	1601219200	ANANYA MOHANTY	Ananya Mohanty	Ananya Mohanty	Ananya Mohanty	Ananya Mohanty
23	1601219201	ARPAN MOHANTY	Arpan Mohanty	Arpan Mohanty	Arpan Mohanty	Arpan Mohanty
24	1601219202	BINODINI BEHERA	Binodini Behera	Binodini Behera	Binodini Behera	Binodini Behera
25	1601219203	BISHNU PRASAD PANIGRAHI	B.P Panigrahi	B.P Panigrahi	B.P Panigrahi	B.P Panigrahi
26	1601219204	BISWAJIT JENA	Biswasit Jena	Biswasit Jena	Biswasit Jena	Biswasit Jena
27	1601219205	CHETANA NAYAK	Chetana Nayak	Chetana Nayak	Chetana Nayak	Chetana Nayak

Signature of the Course Coordinator

Chetana Nayak

Chetana Nayak

Chetana Nayak

Chetana Nayak



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

Name of the Course: Introduction To Engineering Seismology

Semester: 5th

Academic Year: 2018-19

Duration : 28 X 25

Date & Signature of the Student

Sl. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date:	Date:	Date:	Date:
28	1601219206	DEEPAN SHANKAR NAYAK	16/07/18	17/07/18	18/07/18	19/07/18
29	1601219207	DHEERAJ KUMAR	Dheeraj Kumar	Dheeraj Kumar	Dheeraj Kumar	Dheeraj Kumar
30	1601219208	GIRISH CHANDRA KAR	G C J Kar	G C J Kar	G C J Kar	G C J Kar
31	1601219209	JAYASHREE MARANDI	Jayashree Marandi	Jayashree Marandi	Jayashree Marandi	Jayashree Marandi
32	1601219210	LIPISHREE NAIK	Lipishree Naik	Lipishree Naik	Lipishree Naik	Lipishree Naik
33	1601219211	MAMATA MURMU	Mamata Murmu	Mamata Murmu	Mamata Murmu	Mamata Murmu
34	1601219212	MANOJ KUMAR EKKA	M. V. Eever	M. V. Eever	M. V. Eever	M. V. Eever
35	1601219213	MOUSUMEE PATEL	Mousumee Patel	Mousumee Patel	Mousumee Patel	Mousumee Patel
36	1601219214	NAGEN SAHU	Nagen Sahu	Nagen Sahu	Nagen Sahu	Nagen Sahu
37	1601219215	PRABIR KUMAR TUDU	P. K Studu	P. K Studu	P. K Studu	P. K Studu
38	1601219216	PRAASHUN KANTI	Prashun Kanti	Prashun Kanti	Prashun Kanti	Prashun Kanti
39	1601219217	PRATIKSHA SARANGI	Pratiksha Sarangi	Pratiksha Sarangi	Pratiksha Sarangi	Pratiksha Sarangi
40	1601219218	PRIYABRATA KONAR	Prityabrata Konar	Prityabrata Konar	Prityabrata Konar	Prityabrata Konar
41	1601219219	RAKESH MUDULI	Rakesh Muduli	Rakesh Muduli	Rakesh Muduli	Rakesh Muduli
42	1601219220	ROJALIN PRIYADARSHINI	Rojalin Priyadarshini	Rojalin Priyadarshini	Rojalin Priyadarshini	Rojalin Priyadarshini
43	1601219221	ROJALIN SWAIN	Rojalin Swain	Rojalin Swain	Rojalin Swain	Rojalin Swain
44	1601219222	SABITRU NARAYAN MISHRA	S. Mishra	S. Mishra	S. Mishra	S. Mishra
45	1601219223	SANJEEBANEE BEHERA	S. Behera	S. Behera	S. Behera	S. Behera
46	1601219224	SANJEEV KUMAR	Sanjeev Kumar	Sanjeev Kumar	Sanjeev Kumar	Sanjeev Kumar
47	1601219225	SANTOSH KUMAR SAHOO	Santosh Kumar Sahoo	Santosh Kumar Sahoo	Santosh Kumar Sahoo	Santosh Kumar Sahoo
48	1601219226	SAROJ KUMAR PAITAL	Saroj Kumar Paital	Saroj Kumar Paital	Saroj Kumar Paital	Saroj Kumar Paital
49	1601219227	SATIYA NARAYAN NAYAK	Satya Narayan Nayak	Satya Narayan Nayak	Satya Narayan Nayak	Satya Narayan Nayak
50	1601219228	SHASHI RANJAN	Shashi Ranjan	Shashi Ranjan	Shashi Ranjan	Shashi Ranjan
51	1601219229	SHASHIKANT KUMAR	S. K Kumar	S. K Kumar	S. K Kumar	S. K Kumar
52	1601219230	SHEJAL SUMAN	Shejal Suman	Shejal Suman	Shejal Suman	Shejal Suman
53	1601219231	SIDDHANTA PRATIK	Siddhanta Das	Siddhanta Das	Siddhanta Das	Siddhanta Das
54	1601219232	SIDHARTHA DAS	Sidharta Das	Sidharta Das	Sidharta Das	Sidharta Das

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. 22

Programme: B.Tech in Civil Engineering

Semester: 5th

Academic Year: 2018-19

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:
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10	1601219188	MEGHA MAYUREE ROUF	M. M. Rouf	M.M. Rouf	M. M. Rouf	M.M. ROUF
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27	1601219205	CHEETANA NAYAK	Cheetana Nayak	Cheetana Nayak	Cheetana Nayak	Cheetana Nayak

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: 2018-19

Name of the Course: Introduction To Engineering Seismology

Duration : 38 Ws

Date & Signature of the Student

Sl. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date: <u>20/07/18</u>	Date: <u>23/07/18</u>	Date: <u>24/07/18</u>	Date: <u>25/07/18</u>
28	1601219206	DEEPAN SHANKAR NAYAK	D.S Nayak	D.S Nayak	D.S Nayak	D.S Nayak
29	1601219207	DHEERAJ KUMAR	Dheeraj Kumar	Dheeraj Kumar	Dheeraj Kumar	Dheeraj Kumar
30	1601219208	GIRISH CHANDRA KAR	G C Kar	G C Kar	G C Kar	G C Kar
31	1601219209	JAYASHREE MARANDI	Jayashree Marandi	Jayashree Marandi	Jayashree Marandi	Jayashree Marandi
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35	1601219213	MOUSUMEE PATEL	<u>ABG</u>	Mousume Patel	Mousume Patel	Mousume Patel
36	1601219214	NAGEN SAHU	Nagen Sahu	Nagen Sahu	Nagen Sahu	Nagen Sahu
37	1601219215	PRABIR KUMAR TUDU	P.K Tudu	P.K Tudu	P.K Tudu	P.K Tudu
38	1601219216	PRAASHUN KANTI	Prashun Kanti	Prashun Kanti	Prashun Kanti	Prashun Kanti
39	1601219217	PRATIKSHA SARANGI	Pratiksha Sarangi	Pratiksha Sarangi	Pratiksha Sarangi	Pratiksha Sarangi
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42	1601219220	ROJALIN PRIYADARSHINI	R.Priyadarshini	R.Priyadarshini	R.Priyadarshini	R.Priyadarshini
43	1601219221	ROJALIN SWAIN	Rojalin Swain	Rojalin Swain	Rojalin Swain	Rojalin Swain
44	1601219222	SABITRU NARAYAN MISHRA	S.N Mishra	S.N Mishra	S.N Mishra	S.N Mishra
45	1601219223	SANJEEBANEE BEHERA	S. Behera	S. Behera	S. Behera	S. Behera
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52	1601219230	SHEJAL SUMAN	Shejal Suman	Shejal Suman	Shejal Suman	Shejal Suman
53	1601219231	SIDDHANTA PRATIK	<u>ABG</u>	<u>ABG</u>	<u>ABG</u>	<u>ABG</u>
54	1601219232	SIDHARTHA DAS	Sidharta Das	<u>ABG</u>	Sidharta Das	Sidharta Das

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
Sheet No. 5
College of Engineering Bhubaneswar

Programme: B.Tech in Civil Engineering

Semester: 5th

Academic Year: 2018-19

Name of the Course: Introduction To Engineering Seismology

Duration : 30 Mins Date & Signature of the Student

SL. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date:	Date:	Date:	Date:
1	1601219007	ASHISH KUMAR SINGH	26/07/18	27/07/18	01/08/18	02/08/18
2	1601219008	MONALISA BAL	Ashish Ku. Singh monalisa bal.	Ashish Ku. Singh monalisa bal	Ashish Ku. Singh monalisa bal	monalisa bal
3	1601219009	SANSU PRIYA	Sansu Priya	Sansu Priya	Sansu Priya	Sansu Priya
4	1601219010	SURAJ KUMAR	Suresh Kumar	Suresh Kumar	Suresh Kumar	Suresh Kumar
5	1601219071	PRIYA XALXO	AB3	AB3	AB3	AB3
6	1601219184	SIDDHARTH SAHOO	Siddharth Sahoo	Siddharth Sahoo	Siddharth Sahoo	Siddharth Sahoo
7	1601219185	SATYANARAYAN DAS	AB3	S.N Das	J.N Das	S.N Das
8	1601219186	DEEPANKAR TRIPATHY	D. Tripathy	D. Tripathy	D. Tripathy	Tripathy
9	1601219187	KALI PRASAD NANDI	Kali Prasad Nandi	Kali Prasad Nandi	AB3	Tripathy and Nandi
10	1601219188	MEGHA MAYUREE ROUT	M.M. Rout	M.M. Rout	M.M. Rout	M.M. Rout
11	1601219189	PRASANJIT NAYAK	Prasanjit Nayak	Prasanjit Nayak	Prasanjit Nayak	AB3
12	1601219190	RAJASHREE MALLIK	Rajashree Mallik	Rajashree Mallik	Rajashree Mallik	Rajashree Mallik
13	1601219191	SABYASACHI SAHOO	Sabyasachi Sahoo	Sabyasachi Sahoo	Sabyasachi Sahoo	Sabyasachi Sahoo
14	1601219192	SASMITA DAS	Sasmita Das	Sasmita Das	Sasmita Das	Sasmita Das
15	1601219193	SRINIBAS ROUT	Srinibas Rout	Srinibas Rout	Srinibas Rout	Srinibas Rout
16	1601219194	SUBHRAKALI PARIDA	S. Parida	S. Parida	S. Parida	S. Parida
17	1601219195	SUKANYA KUNDU	Sukanya Kundu	Sukanya Kundu	Sukanya Kundu	Sukanya Kundu
18	1601219196	SUMAN SANGITA SETHI	S.S. Sethi	S.S. Sethi	S.S. Sethi	AB3
19	1601219197	SUSHREE SUCHISMITA	AB3	S. Suchismita	S. Suchismita	S. Suchismita
20	1601219198	ALOK RANJAN SATAPATHY	AB3	A.P. Satapathy	A.P. Satapathy	AB3
21	1601219199	ANANDITA PRITIDARSHINI PANDA	A.P. Panda	A.P. Panda	A.P. Panda	A.P. Panda
22	1601219200	ANANYA MOHANTY	Ananya Mohanty	Ananya Mohanty	Ananya Mohanty	Ananya Mohanty
23	1601219201	ARPAN MOHANTY	Arpan Mohanty	Arpan Mohanty	Arpan Mohanty	Arpan Mohanty
24	1601219202	BINODINI BEHERA	Binodini Behera	Binodini Behera	Binodini Behera	Binodini Behera
25	1601219203	BISHNU PRASAD PANIGRAHI	B.P. Panigrahi	B.P. Panigrahi	B.P. Panigrahi	B.P. Panigrahi
26	1601219204	BISWAJIT JENA	Biswajit Jena	Biswajit Jena	Biswajit Jena	Biswajit Jena
27	1601219205	CHEYTANA NAYAK	Cheyta Nayak	Cheyta Nayak	Cheyta Nayak	Cheyta Nayak

Signature of the Course Coordinator



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF CIVIL ENGINEERING

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

Sheet No. 03 PRINCIPAL

College of Engineering Bhubaneswar

Programme: B.Tech in Civil Engineering

Semester: 5th

Academic Year: 2018-19

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:
28	1601219206	DEEPAN SHANKAR NAYAK	D.S Nayak 26/09/18	D.S Nayak 29/09/18	D.S Nayak 01/10/18	D.S Nayak 02/10/18
29	1601219207	DHEERAJ KUMAR	Dheeraj Kumar	Dheeraj Kumar	Dheeraj Kumar	Dheeraj Kumar
30	1601219208	GIRISH CHANDRA KAR	G.C Kar	G.N Kar	G.C Kar	G.D Kar
31	1601219209	JAYASHREE MARANDI	Jayashree Marandi	Jayashree Marandi	Jayashree Marandi	Jayashree Marandi
32	1601219210	LIPISHREE NAIK	Lipishree Naik	Lipishree Naik	Lipishree Naik	Lipishree Naik
33	1601219211	MAMATA MURMU	Mamata Murmu	AB S	Mamata Murmu	Mamata Murmu
34	1601219212	MANOJ KUMAR EKKA	M.V. Eka	AB S	M.V. Eka	M.V. Eka
35	1601219213	MOUSUMEE PATEL	Mousumee Patel	Mousumee Patel	Mousumee Patel	Mousumee Patel
36	1601219214	NAGEN SAHU	Nagen Sahu	Nagen Sahu	Nagen Sahu	Nagen Sahu
37	1601219215	PBABIR KUMAR TUDU	P.B. Tudu	AB S	P.B. Tudu	P.B. Tudu
38	1601219216	PRAASHUN KANTI	Prashun Kanti	Prashun Kumar	AB S	Prashun Kanti
39	1601219217	PRAKTIKSHA SARANGI	Praktiksha Sarangi	Praktiksha Sarangi	Praktiksha Sarangi	Praktiksha Sarangi
40	1601219218	PRIVABRATA KONAR	Privabrata Konar	Privabrata Konar	Privabrata Konar	Privabrata Konar
41	1601219219	RAKESH MUDULI	Rakesh Mudali	Rakesh Mudali	AB S	Rakesh Mudali
42	1601219220	ROJALIN PRIYADARSHINI	R. Priyadarshini	R. Priyadarshini	R. Priyadarshini	R. Priyadarshini
43	1601219221	ROJALIN SWAIN	Rojalin Swain	Rojalin Swain	Rojalin Swain	Rojalin Swain
44	1601219222	SABITRU NARAYAN MISHRA	S.N. Mishra	S.N. Mishra	S.N. Mishra	S.N. Mishra
45	1601219223	SANJEEBANE BEHERA	S. Behera	S. Behera	AB S	S. Behera
46	1601219224	SANJEEV KUMAR	Sanjeev Kumar	Sanjeev Kumar	Sanjeev Kumar	Sanjeev Kumar
47	1601219225	SANTOSH KUMAR SAHOO	Santosh Kumar	Santosh Kumar	Santosh Kumar	Santosh Kumar
48	1601219226	SAROJ KUMAR PAITAL	S.K. Patil	S.K. Patil	S.K. Patil	S.K. Patil
49	1601219227	SATYA NARAYAN NAYAK	Satyajit Nayak	Satyajit Nayak	Satyajit Nayak	Satyajit Nayak
50	1601219228	SHASHI RANJAN	Shashi Ranjan	Shashi Ranjan	Shashi Ranjan	Shashi Ranjan
51	1601219229	SHASHIKANT KUMAR	S. Kumar	S. Kumar	S. Kumar	S. Kumar
52	1601219230	SHEJAL SUMAN	Shejal Suman	Shejal Suman	AB S	Shejal Suman
53	1601219231	SIDDEHANTA PRATIK	AB S	AB S	AB S	AB S
54	1601219232	SIDDHARTHA DAS	Siddhartha Das	Siddhartha Das	Siddhartha Das	Siddhartha Das

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. _____

Programme: B.Tech in Civil Engineering

Semester: 5th

Academic Year: 2018-19

Name of the Course: Introduction To Engineering Seismology

Duration : 3 Bks Date & Signature of the Student

SL. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date:	Date:	Date:	Date:
1	1601219007	ASHISH KUMAR SINGH	03/08/18	06/08/18	07/08/18	08/10/18
2	1601219008	MONALISA BAL	Ashish ku. Singh monalisa bal	Ashish ku. Singh monalisa bal	Ashish ku. Singh monalisa bal	Ashish ku. Singh monalisa bal
3	1601219009	SANSU PRIYA	Sansen priya	Sansen Priya	Sansen Priya	Sansen Priya
4	1601219010	SURAJ KUMAR	Sural Kumar	Sural Kumar	Sural Kumar	Sural Kumar
5	1601219071	PRIYA XALXO	A13	A13	A13	A13
6	1601219184	SIDDHARTH SAHOO	Siddharth Sahu	Siddharth Sahu	Siddharth Sahu	Siddharth Sahu
7	1601219185	SATYANARAYAN DAS	S.N Das	S.N Das	S.N Das	S.N Das
8	1601219186	DEEPANKAR TRIPATHY	D. Tripathy	D. Tripathy	D. Tripathy	D. Tripathy
9	1601219187	KALI PRASAD NANDI	Kali Prasad Nandi	Kali Prasad Nandi	M.M. Rout	M. Prasad Nandi
10	1601219188	MEGHA MAYUREE ROUT	A13	M.M. Rout	M.M. Rout	M.M. Rout
11	1601219189	PRASANJIT NAYAK	A13	Prasanjit Nayak	Prasanjit Nayak	Prasanjit Nayak
12	1601219190	RAJASHREE MALLIK	Rajashree Mallik	Rajashree Mallik	A13	Rajashree Mallik
13	1601219191	SABYASACHI SAHOO	Sabyasachi Sahoo	Sabyasachi Sahoo	Sabyasachi Sahoo	A13
14	1601219192	SASMITA DAS	Sasmita Das	Sasmita Das	Sasmita Das	Sasmita Das
15	1601219193	SRINIBAS ROUT	Srinibas Rout	Srinibas Rout	Srinibas Rout	Srinibas Rout
16	1601219194	SUBHRAKALI PARIDA	S. Parida	S. Parida	S. Parida	S. Parida
17	1601219195	SUKANYA KUNDU	Lokanayak Kundu	Sukanya Kundu	Sukanya Kundu	Sukanya Kundu
18	1601219196	SUMAN SANGITA SETHI	S.S. Sethi	S.S. Sethi	S.S. Sethi	S.S. Sethi
19	1601219197	SUSHREE SUCHISMITA	S. Suchismita	S. Suchismita	S. Suchismita	S. Suchismita
20	1601219198	ALOK RANJAN SATAPATHY	A.P. Satapathy	A.P. Satapathy	A.P. Satapathy	A.P. Satapathy
21	1601219199	ANANDITA PRITIDARSINI PANDA	A.P. Panda	A.P. Panda	A.P. Panda	A.P. Panda
22	1601219200	ANANYA MOHANTY	Ananya Mohanty	Ananya Mohanty	Ananya Mohanty	Ananya Mohanty
23	1601219201	ARPAN MOHANTY	Arpan Mohanty	Arpan Mohanty	Arpan Mohanty	Arpan Mohanty
24	1601219202	BINODINI BEHERA	Binodini Behera	Binodini Behera	Binodini Behera	Binodini Behera
25	1601219203	BISHNU PRASAD PANIGRAHI	B.P. Panigrahi	B.P. Panigrahi	B.P. Panigrahi	B.P. Panigrahi
26	1601219204	BISWAJIT JENA	Biswajit Jena	Biswajit Jena	Biswajit Jena	Biswajit Jena
27	1601219205	CHEYTANA NAYAK	Chetana Nayak	Chetana Nayak	Chetana Nayak	Chetana Nayak

Signature of the Course Coordinator



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF CIVIL ENGINEERING
ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

PRINCIPAL
She College of Engineering Bhubaneswar

[Signature]

Programme: B.Tech in Civil Engineering

Semester: 5th

Academic Year: 2018-19

Name of the Course: Introduction To Engineering Seismology

Duration : 28 Weeks

Date & Signature of the Student

Sl. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date:	Date:	Date:	Date:
28	1601219206	DEEPAN SHANKAR NAYAK	03/08/18 D.S Nayak	06/08/18 ABS	09/08/18 D.S Nayak	08/08/18 D.S Nayak
29	1601219207	DHEERAJ KUMAR	Deheraj Kumar	Deheraj Kumar	Deheraj Kumar	ABS
30	1601219208	GIRISH CHANDRA KAR	G.C Kar	G.C Kar	G.C Kar	ABS
31	1601219209	JAYASHREE MARANDI	ABS	Jayashree Marandi	Jayashree Marandi	Jayashree Marandi
32	1601219210	LIPISHREE NAIK	Lipishree Naik	Lipishree Naik	Lipishree Naik	Lipishree Naik
33	1601219211	MAMATA MURMU	Mamata Murmu	Mamata Murmu	Mamata Murmu	Mamata Murmu
34	1601219212	MANOJ KUMAR EKKA	M.V Ekka	M.V Ekka	M.V Ekka	M.V Ekka
35	1601219213	MOUSUMEE PATEL	Mousumee Patel	Mousumee Patel	Mousumee Patel	Mousumee Patel
36	1601219214	NAGEN SAHU	Nagen Sahu	ABS	Nagen Sahu	Nagen Sahu
37	1601219215	PRABIR KUMAR TUDU	P.K Tudu	P.K Tudu	P.K Tudu	P.K Tudu
38	1601219216	PRAASHUN KANTLI	Prashun Kantli	Prashun Kantli	ABS	Prashun Kantli
39	1601219217	PRATIKSHA SARANGI	Pratiksha Sarangi	Pratiksha Sarangi	Pratiksha Sarangi	ABS
40	1601219218	PRIYABRATA KONAR	Pratiksha Sarangi	Pratiksha Sarangi	Pratiksha Sarangi	ABS
41	1601219219	RAKESH MUDULI	Rakesh Muduli	Rakesh Muduli	Rakesh Muduli	Rakesh Muduli
42	1601219220	ROJALIN PRIYADARSHINI	ABS	R.Priyadarshini	R.Priyadarshini	R.Priyadarshini
43	1601219221	ROJALIN SWAIN	Royalini Swain	ABS	Royalini Swain	Royalini Swain
44	1601219222	SABITRU NARAYAN MISHRA	S.N Mishra	S.N Mishra	S.N Mishra	S.N Mishra
45	1601219223	SANJEEBANE BEHERA	S. Behera	ABS	S. Behera	S. Behera
46	1601219224	SANJEEV KUMAR	Sanjeev Kumar	Sanjeev Kumar	Sanjeev Kumar	Sanjeev Kumar
47	1601219225	SANTOSH KUMAR SAHOO	Santosh Kumar	Santosh Kumar	Santosh Kumar	Santosh Kumar
48	1601219226	SAROJ KUMAR PAITAL	S.K Paital	S.K Paital	S.K Paital	S.K Paital
49	1601219227	SATYA NARAYAN NAYAK	Satyajay Narayan	Satyajay Narayan	Satyajay Narayan	Satyajay Narayan
50	1601219228	SHASHI RANJAN	Shashi Ranjan	Shashi Ranjan	Shashi Ranjan	Shashi Ranjan
51	1601219229	SHASHIKANT KUMAR	S. Kumar	S. Kumar	S. Kumar	S. Kumar
52	1601219230	SHEAL SUMAN	Shejal Suman	Shejal Suman	Shejal Suman	Shejal Suman
53	1601219231	SIDDHANTA PRATIK	ABS	Shejal Suman	Shejal Suman	Shejal Suman
54	1601219232	SIDHARTHA DAS	Sidhartha Das	Sidhartha Das	Sidhartha Das	Sidhartha Das

Signature of the Course Coordinator

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COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF CIVIL ENGINEERING
ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

Sheet No. 05

Programme: B.Tech in Civil Engineering		Semester: 5th		Academic Year: 2018-19		
Name of the Course: Introduction To Engineering Seismology		Date & Signature of the Student				
SL. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date:	Signature	Date:	Signature
1	1601219007	ASHISH KUMAR SINGH	09/08/18	<i>Ashish Kumar Singh</i>	13/08/18	<i>Ashish Kumar Singh</i>
2	1601219008	MONALISA BAL	09/08/18	<i>Monalisa Bal</i>	13/08/18	<i>Monalisa Bal</i>
3	1601219009	SANSU PRIYA	09/08/18	<i>Sansu Priya</i>	13/08/18	<i>Sansu Priya</i>
4	1601219010	SURAJ KUMAR	09/08/18	<i>Suraj Kumar</i>	13/08/18	<i>Suraj Kumar</i>
5	1601219071	PRIYA XALXO	09/08/18	<i>Priya Xalxo</i>	13/08/18	<i>Priya Xalxo</i>
6	1601219184	SIDDHARTH SAHOO	09/08/18	<i>Siddharth Sahoo</i>	13/08/18	<i>Siddharth Sahoo</i>
7	1601219185	SATYANARAYAN DAS	09/08/18	<i>S.N Das</i>	13/08/18	<i>S.N Das</i>
8	1601219186	DEEPANKAR TRIPATHY	09/08/18	<i>D. Tripathy</i>	13/08/18	<i>D. Tripathy</i>
9	1601219187	KALI PRASAD NANDI	09/08/18	<i>Kali Prasad Nandi</i>	13/08/18	<i>Kali Prasad Nandi</i>
10	1601219188	MEGHA MAYUREE ROUT	09/08/18	<i>M.M. Rout</i>	13/08/18	<i>M.M. Rout</i>
11	1601219189	PRASANJIT NAYAK	09/08/18	<i>Prasanjit Nayak</i>	13/08/18	<i>Prasanjit Nayak</i>
12	1601219190	RAJASHREE MALLIK	09/08/18	<i>Rajashree Mallik</i>	13/08/18	<i>Rajashree Mallik</i>
13	1601219191	SABYASACHI SAHOO	09/08/18	<i>Sabyasachi Sahoo</i>	13/08/18	<i>Sabyasachi Sahoo</i>
14	1601219192	SASMITA DAS	09/08/18	<i>Sasmita Das</i>	13/08/18	<i>Sasmita Das</i>
15	1601219193	SRINIBAS ROUT	09/08/18	<i>Srinibas Rout</i>	13/08/18	<i>Srinibas Rout</i>
16	1601219194	SUBHRAKALI PARIDA	09/08/18	<i>S. Parida</i>	13/08/18	<i>S. Parida</i>
17	1601219195	SUKANYA KUNDU	09/08/18	<i>Sukanya Kundu</i>	13/08/18	<i>Sukanya Kundu</i>
18	1601219196	SUMAN SANGITA SETHI	09/08/18	<i>S.S. Sethi</i>	13/08/18	<i>S.S. Sethi</i>
19	1601219197	SUSHREE SUCHISMITA	09/08/18	<i>S. Suchismita</i>	13/08/18	<i>S. Suchismita</i>
20	1601219198	ALOK RANJAN SATAPATHY	09/08/18	<i>A.R. Satapathy</i>	13/08/18	<i>A.R. Satapathy</i>
21	1601219199	ANANDITA PRITIDARSINI PANDA	09/08/18	<i>A.P. Panda</i>	13/08/18	<i>A.P. Panda</i>
22	1601219200	ANANYA MOHANTY	09/08/18	<i>Ananya Mohanty</i>	13/08/18	<i>Ananya Mohanty</i>
23	1601219201	ARPAN MOHANTY	09/08/18	<i>Arpan Mohanty</i>	13/08/18	<i>Arpan Mohanty</i>
24	1601219202	BINODINI BEHERA	09/08/18	<i>Binodini Behera</i>	13/08/18	<i>Binodini Behera</i>
25	1601219203	BISHNU PRASAD PANIGRAHI	09/08/18	<i>B.P. Panigrahi</i>	13/08/18	<i>B.P. Panigrahi</i>
26	1601219204	BISWAJIT JENA	09/08/18	<i>Biswajit Jena</i>	13/08/18	<i>Biswajit Jena</i>
27	1601219205	CHEETANA NAYAK	09/08/18	<i>Cheetana Nayak</i>	13/08/18	<i>Cheetana Nayak</i>

PRINCIPAL
College of Engineering Bhubaneswar

[Signature]

Signature of the Course Coordinator

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COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF CIVIL ENGINEERING
ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

Sheet No. 05

Programme: B.Tech in Civil Engineering

Semester: 5th

Academic Year: 2018-19

Name of the Course: Introduction To Engineering Seismology

Duration : 38 Wk Date & Signature of the Student

Sl. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date:	Date:	Date:	Date:
28	1601219206	DEEPAN SHANKAR NAYAK	D.S Nayak 09/08/18	D.S Nayak 10/08/18	D.S Nayak 13/08/18	
29	1601219207	DHEERAJ KUMAR	Dheeraj Kumar	Dheeraj Kumar	Dheeraj Kumar	
30	1601219208	GIRISH CHANDRA KAR	G.C Kar	G.C Kar	G.C Kar	
31	1601219209	JAYASHREE MARANDI	Jayashree Marandi	Jayashree Marandi	Jayashree Marandi	
32	1601219210	LIPSHREE NAIK	Lipshree Naik	Lipshree Naik	Lipshree Naik	
33	1601219211	MAMATA MURMU	Mamata Murmu	Mamata Murmu	Mamata Murmu	
34	1601219212	MANOJ KUMAR EKKA	M. E. Eeka	M. E. Eeka	M. E. Eeka	
35	1601219213	MOUSUMEE PATEL	Mousumee Patel	Mousumee Patel	Mousumee Patel	
36	1601219214	NAGEN SAHU	Nagen Sahu	Nagen Sahu	Nagen Sahu	
37	1601219215	PRABIR KUMAR TUDU	P. K Tudu	P. K Tudu	P. K Tudu	
38	1601219216	PRAASHUN KANTLI	Prashun Kantli	Prashun Kantli	Prashun Kantli	
39	1601219217	PRATIKSHA SARANGI	Pratiksha Sarangi	Pratiksha Sarangi	Pratiksha Sarangi	
40	1601219218	PRIYABRATA KONAR				
41	1601219219	RAKESH MUDDLI	Rakesh muduli	Rakesh muduli	Rakesh muduli	
42	1601219220	ROJALIN PRIYADARSHINI	Rojalin Priyadarshini	Rojalin Priyadarshini	Rojalin Priyadarshini	
43	1601219221	ROJALIN SWAIN	Rojalin Swain	Rojalin Swain	Rojalin Swain	
44	1601219222	SABITRU NARAYAN MISHRA	S.N Mishra	S.N Mishra	S.N Mishra	
45	1601219223	SANJEEBANEE BEHERA	S. Behera	S. Behera	S. Behera	
46	1601219224	SANJEEV KUMAR	Sanjeev Kumar	Sanjeev Kumar	Sanjeev Kumar	
47	1601219225	SANTOSH KUMAR SAHOO	S. K Sahoo	S. K Sahoo	S. K Sahoo	
48	1601219226	SAROJ KUMAR PAITAL	Saroj Kumar	Saroj Kumar	Saroj Kumar	
49	1601219227	SATIYA NARAYAN NAYAK	Satya Narayan Nayak	Satya Narayan Nayak	Satya Narayan Nayak	
50	1601219228	SHASHI RANJAN	Shashi Ranjan	Shashi Ranjan	Shashi Ranjan	
51	1601219229	SHASHIKANT KUMAR	S. K Kumar	S. K Kumar	S. K Kumar	
52	1601219230	SHEJAL SUMAN	Shejal Suman	Shejal Suman	Shejal Suman	
53	1601219231	SIDDHANTA PRATIK	Siddhanta Pratik	Siddhanta Pratik	Siddhanta Pratik	
54	1601219232	SIDHARTHA DAS	Sidharta Das	Sidharta Das	Sidharta Das	

PRINCIPAL
College of Engineering
Bhubaneswar

Signature of the Course Coordinator

Ran

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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. CHETANA NAYAK, student of the Department

of Civil Engg. semester Fifth bearing registration number 1601219205

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

conducted at College of Engineering Bhubaneswar in the academic year 2018-19.

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. DEEPAN SHANKAR NAYAK, student of the Department

of Civil Engg. semester Fifth bearing registration number 1601219206

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

conducted at College of Engineering Bhubaneswar in the academic year 2018-19.

TRUE COPY

Course-Coordinator

Principal

PRINCIPAL
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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. DHEERAJ KUMAR, student of the Department

of Civil Engg. semester Fifth bearing registration number 1601219207

has successfully completed the ADD-ON Course titled Intro. Junction To Engineering Seismology

conducted at College of Engineering Bhubaneswar in the academic year 2018-19.

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Course-Coordinator

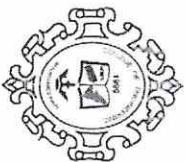


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Certificate of Completion


This is to certify that Mr./Ms. GIRISH CHANDRA KAR, student of the Department


of Civil Engg. semester Fifth bearing registration number 1601219208

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

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This is to certify that Mr./Ms. JAYASHREE MARANDI, student of the Department


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