



## COLLEGE OF ENGINEERING BHUBANESWAR

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

[AFFILIATED TO BPUT, ODISHA]

[www.coeb.ac.in](http://www.coeb.ac.in)

### DEPARTMENT OF CIVIL ENGINEERING

### ADD-ON COURSE

**Course Titles: Earth Science for Civil Engineering**

**Branch: Civil Engineering**

**Programme: B.Tech**

**Year of Student: 2<sup>nd</sup> Year**

**Course Objectives:**

1. It gives basic knowledge of effect life on the Earth system directly such as climate change, global warming, using and wasting of natural resources, land use, environmental degradation, and biodiversity change.
2. Basic understandings on the atmosphere, hydrosphere, and lithosphere, including their interaction and interrelationships with the biosphere and antraposphere,
3. It gives basic knowledge of importance of geological structures in dams and tunnels, fluvial geomorphology and ground water, tsunami, landslide and flood hazard, mapping, monitoring and management of hazards.

### SYLLABUS

**Total Lecture Hours: 32**

#### **Module –I**

**10 Hours**

Introduction to Geosciences in Civil Engineering, Plate Tectonics and Continental Drift: Major tectonic plates Minor tectonic plates, Significance of Plate Tectonics, Comparison: Continental Drift – See Floor Spreading – Plate Tectonics, Rock-forming Minerals and their properties: Minerals of the Oceanic Crust, Minerals of the Continental Crust.

#### **Module –II**

**10 Hours**

Seismology and internal Structure of the Earth, Introduction to Geological Hazards, Environmental impacts of Geological hazards: Speed of development, Evaluation and mitigation, Faults and it's type: Active faults and its related hazard in India, Active faults and its related hazard in India, Active faults Mapping and Applications.

#### **Module –III**

**12 Hours**

Tsunami and related hazard, Tsunami Hazard and Risk Assessment, Landslide and Subsidence, Flood and related hazard, Groundwater Engineering: Calculation of groundwater flow, Water wells, Issues in

groundwater. Applications of Earth Sciences in Civil Engineering, Civil Engineering applications – geological considerations in Rivers, Civil Engineering applications–geological considerations in Dams, Civil Engineering applications–geological considerations in Tunnels.

**Course Outcomes:**

After successfully completing the course, students will be able to;

- CO1: Describe common earth materials and their relationship to environmental hazards.
- CO2: Explain how earth processes create hazards to life and property;
- CO3: Describe Earth’s major systems and explain how they interact.
- CO4: Explain the importance of tsunamis, landslide and flood hazard, mapping, monitoring and management of hazards.
- CO5: Explain the plate tectonic theory and explain its relationship to earth processes, features, and landforms

**Text Books:**

1. John Grotzinger, and Thomas H. Jordan, “*Understanding Earth*”, W.H.Freeman & Co Ltd, 5<sup>th</sup> edition ,2006.
2. Eddward A. Keller “*Environmental Geology*”, Pearson publisher, 9th edition, 2011.
3. U. Aswathanarayna, “ *Geoenvironment*”, A A Balkema Publishers, 1<sup>st</sup> edition, 1995.
4. Horn, W.L., Macdonald, G.A.,Bolt, B.A., and Scott, R.F. “*Geological Hazards: Earthquakes - Tsunamis - Volcanoes - Avalanches - Landslides – Floods*” Springer publisher, 1982

**Digital Learning Resources**

Course Name	Earth Science for Civil Engineering
Course Link	<a href="https://onlinecourses.nptel.ac.in/noc20_ce33/preview">https://onlinecourses.nptel.ac.in/noc20_ce33/preview</a>
Course Instructed	Prof. Javed N. Malik, Department of Civil Engineering IIT Kanpur

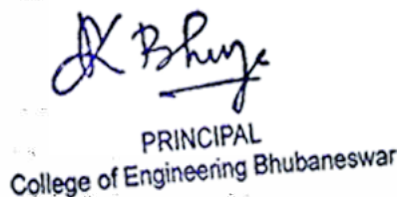
**Evaluation Criteria:**

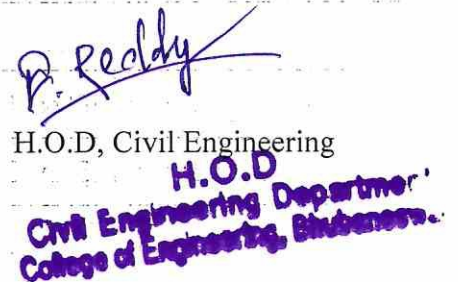
- Mandatory attendance of 75% for each student.
- Conduction of two internal assessments and students has to secure 50% marks in each assessment.
- Certificates will be awarded to each student fulfilling the above criteria.

*Design and developed by Dr. H.Vijay Kumar and Ms.Sipra Mallick*

  
Principal

PRINCIPAL  
College of Engineering Bhubaneswar

  
PRINCIPAL  
College of Engineering Bhubaneswar

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



DEPARTMENT OF CIVIL ENGINEERING  
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 3<sup>rd</sup> /5<sup>th</sup> /7<sup>th</sup> 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 <sup>rd</sup>	36	Mr.Pradeepta Kishore Dehury
2.	Introduction To Engineering Seismology	5 <sup>th</sup>	38	Mr.Biswa Ranjan Tripathy
3.	Water Economics And Governance	7 <sup>th</sup>	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



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)  
ADD-ON COURSE

STUDENT ENROLLMENT SHEET

Name of the Department: CIVIL ENGINEERING

Course Title: Earth Science for Civil Engineering

Semester : 3rd

Academic Year: 2019-2020

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	1801219014	ARJITA NARAYAN	Arjita Narayan
2	1801219024	BADAL KUMAR MOHAPATRA	Badal Kumar Mohapatra
3	1801219029	BIBHAS KUMAR SETHI	Bibhas Kumar Sethi
4	1801219052	DIPTI RANJAN MAHALIK	Dipti Ranjan Mahalik
5	1801219054	GIRISH CHANDRA MAJHI	Girish Chandra Majhi
6	1801219069	KUMAR SOURAV	Kumar Sourav
7	1801219070	KUMAR SOURAV	Kumar Sourav
8	1801219077	MANISH KUMAR VERMA	Manish Kumar Verma
9	1801219096	PRABHAT KUMAR SRIWASTAV	Prabhat Ku. Sriwastav
10	1801219102	PRATIK PRASUN	Pratik Prasun
11	1801219105	PRINCE KUMAR	Prince Kumar
12	1801219117	RAKESH KUMAR MALIK	Rakesh Kumar Malik
13	1801219125	SANATHA KUMAR NAYAK	Sanatha Kumar Nayak
14	1801219133	SAROJ KUMAR NAYAK	Saroj Kumar Nayak
15	1801219152	SOUMYA RANJAN DAS	Soumya Ranjan Das
16	1801219184	ABHISEK NAYAK	Abhisek Nayak
17	1801219185	ABINASH PRADHAN	Abinash Pradhan
18	1801219186	ALINA ROUT	Alina Rout
19	1801219187	ALOK KUMAR PARIDA	Alok Kumar Parida
20	1801219188	AMAN SRIVASTAVA	Aman Srivastava
21	1801219189	AMARESH GAYA	Amaresht Gaya
22	1801219190	ANIL KUMAR MEHER	Anil Kumar Meher
23	1801219191	ARNAPURNA MALLIK	Arnapurna Mallik
24	1801219192	ARUN KUMAR MISHRA	Arun Kumar Mishra
25	1801219193	ASHMITA MISHRA	Ashmita Mishra
26	1801219194	ASWINI KUMAR RAY	Aswini Kumar Ray
27	1801219195	BANAMALI PRADHAN	Banamali Pradhan
28	1801219196	BIBHUTI SETHI	Bibhuti S. Sethi
29	1801219197	BISHNU PRASAD BEHERA	Bishnu Prasad Behera
30	1801219198	CHANDAN KUMAR SWAIN	Chandan Kumar Swain
31	1801219199	CHANDRA SHEKHAR NAYAK	Chandra Shekhar Nayak
32	1801219200	CHELIN MOHANTY	Chelin Mohanty
33	1801219201	CHINMAYA KUMAR SETHY	Chinmaya Kumar Sethy
34	1801219202	DEBADATTA MALLIK	Debadatta Mallik
35	1801219203	DEEPANJALI JENA	Deepanjali Jena

Signature of course coordinator

P. Deepali Kish. Debnay

A. Bhuj

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College of Engineering Bhubaneswar





# COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF CIVIL ENGINEERING

ADD ON/CERTIFICATE COURSE

## STUDENT ATTENDANCE SHEET

Sheet No. 21

PRINCIPAL  
College of Engineering Bhubaneswar

Programme: B.Tech in Civil Engineering Semester: 3rd Academic Year: 2019-20

Name of the Course: Earth Science for Civil Engineering

Duration: 36 hrs Date & Signature of the Student

Sl. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date:	Date:	Date:	Date:
1	1801219014	ARJITA NARAYAN	A. Narayan	A. Narayan	A. Narayan	A. Narayan
2	1801219024	BADAL KUMAR MOHAPATRA	B.K. Mohapatra	B.K. Mohapatra	B.K. Mohapatra	B.K. Mohapatra
3	1801219029	BIBHAS KUMAR SETHI	Bibhas K. Sethi	Bibhas K. Sethi	Bibhas K. Sethi	Bibhas K. Sethi
4	1801219052	DIPTI RANJAN MAHALIK	D.P. Mahalik	D.P. Mahalik	D.P. Mahalik	D.P. Mahalik
5	1801219054	GIRISH CHANDRA MAJHI	<u>AB</u>	<u>AB</u>	<u>AB</u>	<u>AB</u>
6	1801219069	KUMAR SOURAV	Kumar Sourav	Kumar Sourav	<u>AB</u>	Kumar Sourav
7	1801219070	KUMAR SOURAV	Kumar Sourav	Kumar Sourav	Kumar Sourav	<u>AB</u>
8	1801219077	MANISH KUMAR VERMA	M. L. Verma	M. L. Verma	M. L. Verma	M. L. Verma
9	1801219096	PRABHAT KUMAR SRIWASTAV	Prabhat K. Srivastava	Prabhat K. Srivastava	Prabhat K. Srivastava	Prabhat K. Srivastava
10	1801219102	PRATIK PRASUN	Pratik Prasun	Pratik Prasun	Pratik Prasun	Pratik Prasun
11	1801219105	PRINCE KUMAR	Prince Kumar	Prince Kumar	Prince Kumar	Prince Kumar
12	1801219117	RAKESH KUMAR MALIK	<u>AB</u>	<u>AB</u>	<u>AB</u>	<u>AB</u>
13	1801219125	SANATHA KUMAR NAYAK	Sandhya K. Nayak	Sandhya K. Nayak	Sandhya K. Nayak	Sandhya K. Nayak
14	1801219133	SAROJ KUMAR NAYAK	S.K. Nayak	S.K. Nayak	S.K. Nayak	S.K. Nayak
15	1801219152	SOUMYA RANJAN DAS	S. P. Das	S. P. Das	S. P. Das	S. P. Das
16	1801219184	ABHISEK NAYAK	Abhishek Nayak	Abhishek Nayak	<u>AB</u>	Abhishek Nayak
17	1801219185	ABINASH PRADHAN	Abinash Pradhan	Abinash Pradhan	Abinash Pradhan	Abinash Pradhan
18	1801219186	ALINA ROUJ	Ashish Rout	Ashish Rout	Ashish Rout	Ashish Rout
19	1801219187	ALOK KUMAR PARIDA	Alok Parida	Alok Parida	Alok Parida	Alok Parida
20	1801219188	AMAN SRIVASTAVA	Aman Srivastava	Aman Srivastava	Aman Srivastava	<u>AB</u>
21	1801219189	AMARESH GAYA	Amaresh Gayak	Amaresh Gayak	Amaresh Gayak	Amaresh Gayak
22	1801219190	ANIL KUMAR MEHER	A. K. Meher	A. K. Meher	A. K. Meher	<u>AB</u>
23	1801219191	ARNAPURNA MALLIK	Arnapurna Mallik	Arnapurna Mallik	Arnapurna Mallik	Arnapurna Mallik
24	1801219192	ARUN KUMAR MISHRA	A. K. Mishra	A. K. Mishra	A. K. Mishra	<u>AB</u>
25	1801219193	ASHMITA MISHRA	Ashmita Mishra	Ashmita Mishra	Ashmita Mishra	Ashmita Mishra
26	1801219194	ASWINI KUMAR RAY	Ashwini K. Ray	Ashwini K. Ray	Ashwini K. Ray	Ashwini K. Ray

Signature of the Course Coordinator



# COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF CIVIL ENGINEERING

ADD ON/CERTIFICATE COURSE

## STUDENT ATTENDANCE SHEET

Sheet No. 01

PRINCIPAL  
College of Engineering Bhubaneswar

Programme: B.Tech in Civil Engineering

Semester: 3rd

Academic Year: 2019-20

Name of the Course: Earth Science for Civil Engineering

Duration : 36 Hrs

Date & Signature of the Student

Sl. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date:	Date:	Date:	Date:
27	1801219195	BANAMALI PRADHAN	16/08/19 ARCS	19/08/19 Banamali Pradhan	20/08/19 Banamali Pradhan	21/08/19 Banamali Pradhan
28	1801219196	BIBHUTI SETHI	16/08/19 Bibhuti Sethi	19/08/19 Bibhuti Sethi	20/08/19 Bibhuti Sethi	21/08/19 Bibhuti Sethi
29	1801219197	BISHNU PRASAD BEHERA	16/08/19 ARCS	19/08/19 B.P. Behera	20/08/19 B.P. Behera	21/08/19 B.P. Behera
30	1801219198	CHANDAN KUMAR SWAIN	16/08/19 C.K.S. Swain	19/08/19 C.K. Swain	20/08/19 ARCS	21/08/19 C.K. Swain
31	1801219199	CHANDRA SHEKHAR NAYAK	16/08/19 Chandra S. Nayak	19/08/19 Chandra S. Nayak	20/08/19 Chandra S. Nayak	21/08/19 Chandra S. Nayak
32	1801219200	CHELIN MOHANTY	16/08/19 Chelin Mohanty	19/08/19 Chelin Mohanty	20/08/19 Chelin Mohanty	21/08/19 Chelin Mohanty
33	1801219201	CHINMAYA KUMAR SETHY	16/08/19 C.K. Sethy	19/08/19 C.K. Sethy	20/08/19 ARCS	21/08/19 C.K. Sethy
34	1801219202	DEBADATTA MALLIK	16/08/19 D. Mallik	19/08/19 D. Mallik	20/08/19 ARCS	21/08/19 D. Mallik
35	1801219203	DEEPANJALI JENA	16/08/19 Deepanjali Jena	19/08/19 Deepanjali Jena	20/08/19 Deepanjali Jena	21/08/19 Deepanjali Jena
36	1801219204	DIBYA RANJAN BEHERA	16/08/19 D. Behera	19/08/19 D.R. Behera	20/08/19 ARCS	21/08/19 D.R. Behera
37	1801219205	DIPTEEMAYEE DAS	16/08/19 D. Das	19/08/19 D. Das	20/08/19 D. Das	21/08/19 D. Das
38	1801219206	ELORA PRIYADARSINI SATAPATHY	16/08/19 E.P. Satapathy	19/08/19 E.P. Satapathy	20/08/19 ARCS	21/08/19 E.P. Satapathy
39	1801219207	HAREKRISHNA BOHIDAR	16/08/19 Harekrishna Bohidar	19/08/19 Harekrishna Bohidar	20/08/19 Harekrishna Bohidar	21/08/19 Harekrishna Bohidar
40	1801219208	JITENDRA KUMAR PARIDA	16/08/19 J.K. Parida	19/08/19 J.K. Parida	20/08/19 J.K. Parida	21/08/19 J.K. Parida
41	1801219209	KALANDI GIRI	16/08/19 Kalandi Giri	19/08/19 Kalandi Giri	20/08/19 Kalandi Giri	21/08/19 Kalandi Giri
42	1801219210	LAXMIKANTA PYARILAL HEMBRAM	16/08/19 Laxmikanta Pyarilal Hembram	19/08/19 ARCS	20/08/19 Laxmikanta Pyarilal Hembram	21/08/19 Laxmikanta Pyarilal Hembram
43	1801219211	LIPSA JAYASINGH	16/08/19 Lipsa Jayasingh	19/08/19 Lipsa Jayasingh	20/08/19 Lipsa Jayasingh	21/08/19 Lipsa Jayasingh
44	1801219212	LOPANUDRA DALABEHERA	16/08/19 L.D. Behera	19/08/19 L.D. Behera	20/08/19 ARCS	21/08/19 L.D. Behera
45	1801219213	MAHESWAR BINDHANI	16/08/19 M. Bindhani	19/08/19 M. Bindhani	20/08/19 M. Bindhani	21/08/19 M. Bindhani
Signature of the Course Coordinator						



# COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF CIVIL ENGINEERING  
ADD ON/CERTIFICATE COURSE

PRINCIPAL  
College of Engineering Bhubaneswar

*[Signature]*

## STUDENT ATTENDANCE SHEET

Sheet No. 02

Programme: B.Tech in Civil Engineering

Semester: 3rd

Academic Year: 2019-20

Name of the Course: Earth Science for Civil Engineering

Duration: 56 hrs

Date & Signature of the Student

Sl. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date:	Date:	Date:	Date:
1	1801219014	ARJITA NARAYAN	22/08/19	26/08/19	27/08/19	28/08/19
2	1801219024	BADAL KUMAR MOHAPATRA	A.N Nayagan	A.N Nayagan	A.N Nayagan	A.N Nayagan
3	1801219029	BIBHAS KUMAR SETHI	B.K Mahapatra	Dr Mahapatra	B.K Mahapatra	B.K Mahapatra
4	1801219052	DIPTI RANJAN MAHALIK	Bibhas Ku Sethi	Bibhas Ku Sethi	Bibhas Ku Sethi	Bibhas Ku Sethi
5	1801219054	GIRISH CHANDRA MAJHI	Dipri Banjan mahalik	Dipranjan mahalik	Diptrajit mahalik	Dipranjan mahalik
6	1801219069	KUMAR SOURAV	ABAS	ABAS	ABAS	ABAS
7	1801219070	KUMAR SOURAV	Kumar Sourav	Kumar Sourav	Kumar Sourav	Kumar Sourav
8	1801219077	MANISH KUMAR VERMA	Kumar Sourav	ABAS	Kamat Sourav	Kumar Sourav
9	1801219096	PRABHAT KUMAR SRIWASTAV	M. L Verma	M. L Verma	M. L Verma	M. L Verma
10	1801219102	PRATIK PRASUN	Pratik Prasun	ABAS	Pratik Prasun	Pratik Prasun
11	1801219105	PRINCE KUMAR	Pratik Prasun	ABAS	Pratik Prasun	Pratik Prasun
12	1801219117	RAKESH KUMAR MALIK	Prince Kumar	Prince Kumar	Prince Kumar	Prince Kumar
13	1801219125	SANATHA KUMAR NAYAK	ABAS	ABAS	ABAS	ABAS
14	1801219133	SAROJ KUMAR NAYAK	Sankha K. Nayak	Sankha K. Nayak	Sankha K. Nayak	Sankha K. Nayak
15	1801219152	SOUMYA RANJAN DAS	S.K Nayak	S.K Nayak	S.K Nayak	S.K Nayak
16	1801219184	ABHISEK NAYAK	S.K Das	S.P Das	S.P Das	S.P Das
17	1801219185	ABINASH PRADHAN	Abhisar Nayak	ABAS	Abisat Nayak	Abhisat Nayak
18	1801219186	ALINA ROUT	Abinash Pradhan	Abinash Pradhan	Abinash Pradhan	Abinash Pradhan
19	1801219187	ALOK KUMAR PARIDA	Alok Rout	Alok Rout	Alok Rout	Alok Rout
20	1801219188	AMAN SRIVASTAVA	Alok Rout	Alok Rout	Alok Rout	Alok Rout
21	1801219189	AMARESH GAYA	Aman Srivastava	Aman Srivastava	Aman Srivastava	Aman Srivastava
22	1801219190	ANIL KUMAR MEHER	Amaresh Gaya	Amaresh Gaya	Amaresh Gaya	Amaresh Gaya
23	1801219191	ARNAPURNA MALLIK	Anil Kumar Meher	Anil Kumar Meher	Anil Kumar Meher	Anil Kumar Meher
24	1801219192	ARUN KUMAR MISHRA	ARNAS	ARNAS	ARNAS	ARNAS
25	1801219193	ASHMITA MISHRA	Arun Kumar Mishra	Arun Kumar Mishra	Arun Kumar Mishra	Arun Kumar Mishra
26	1801219194	ASWINI KUMAR RAY	Ashmita Mishra	Ashmita Mishra	Ashmita Mishra	Ashmita Mishra

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. 03

  
 PRINCIPAL  
 College of Engineering Bhubaneswar

Programme: B.Tech in Civil Engineering

Semester: 3rd

Academic Year: 2019-20

Name of the Course: Earth Science for Civil Engineering

Duration : 3 L 5 T 5

Date & Signature of the Student

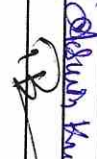
Sl. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date:	Date:	Date:	Date:
1	1801219014	ARJITA NARAYAN	A. Narayan 29/08/19	A. Narayan 30/08/19	A. Narayan 04/09/19	A. Narayan 05/09/19
2	1801219024	BADAL KUMAR MOHAPATRA	BK Mohapatra ARS	BK Mohapatra ARS	BK Mohapatra ARS	BK Mohapatra ARS
3	1801219029	BIBHAS KUMAR SETHI	Bibhas Ku Sethi D.R. Mahalik ARS	Bibhas Ku Sethi D.R. Mahalik ARS	Bibhas Ku Sethi D.R. Mahalik ARS	Bibhas Ku Sethi D.R. Mahalik ARS
4	1801219052	DIPTI RANJAN MAHALIK				
5	1801219054	GIRISH CHANDRA MAJHI				
6	1801219069	KUMAR SOURAV	Kumar Sourav Kumar Sourav	Kumar Sourav Kumar Sourav	Kumar Sourav Kumar Sourav	Kumar Sourav Kumar Sourav
7	1801219070	KUMAR SOURAV				
8	1801219077	MANISH KUMAR VERMA	M.V. Verma Prabhat K. Srivastava	M.V. Verma Prabhat K. Srivastava	M.V. Verma Prabhat K. Srivastava	M.V. Verma Prabhat K. Srivastava
9	1801219096	PRABHAT KUMAR SRIWASTAV				
10	1801219102	PRATIK PRASUN	Pratik Prason Pratik Prason	Pratik Prason Pratik Prason	Pratik Prason Pratik Prason	Pratik Prason Pratik Prason
11	1801219105	PRINCE KUMAR				
12	1801219117	RAKESH KUMAR MALIK	Rakesh Kumar Sankha Ku Nayak	Rakesh Kumar Sankha Ku Nayak	Rakesh Kumar Sankha Ku Nayak	Rakesh Kumar Sankha Ku Nayak
13	1801219125	SANATHA KUMAR NAYAK				
14	1801219133	SAROJ KUMAR NAYAK	S.K. Nayak S.P. Das	S.K. Nayak S.P. Das	S.K. Nayak S.P. Das	S.K. Nayak S.P. Das
15	1801219152	SOURYA RANJAN DAS				
16	1801219184	ABHISEK NAYAK	Abhisek Nayak Abhinash Pradhan	Abhisek Nayak Abhinash Pradhan	Abhisek Nayak Abhinash Pradhan	Abhisek Nayak Abhinash Pradhan
17	1801219185	ABINASH PRADHAN				
18	1801219186	ALINA ROUT	Alina Rout Anurag Rout	Alina Rout Anurag Rout	Alina Rout Anurag Rout	Alina Rout Anurag Rout
19	1801219187	ALOK KUMAR PARIDA	Alok Kumar Parida Alok Kumar Parida	Alok Kumar Parida Alok Kumar Parida	Alok Kumar Parida Alok Kumar Parida	Alok Kumar Parida Alok Kumar Parida
20	1801219188	AMAN SRIVASTAVA	Aman Srivastava Aman Srivastava	Aman Srivastava Aman Srivastava	Aman Srivastava Aman Srivastava	Aman Srivastava Aman Srivastava
21	1801219189	AMARESH GAYA				
22	1801219190	ANIL KUMAR MEHER	Anil Kumar Gaufa AK Meher	Anil Kumar Gaufa AK Meher	Anil Kumar Gaufa AK Meher	Anil Kumar Gaufa AK Meher
23	1801219191	ARNAPURNA MALLIK	Arnapurna Mallik Arnapurna Mallik	Arnapurna Mallik Arnapurna Mallik	Arnapurna Mallik Arnapurna Mallik	Arnapurna Mallik Arnapurna Mallik
24	1801219192	ARUN KUMAR MISHRA	Arun Ku Mishra Arun Ku Mishra	Arun Ku Mishra Arun Ku Mishra	Arun Ku Mishra Arun Ku Mishra	Arun Ku Mishra Arun Ku Mishra
25	1801219193	ASHMITA MISHRA	Ashmita Mishra Ashmita Mishra	Ashmita Mishra Ashmita Mishra	Ashmita Mishra Ashmita Mishra	Ashmita Mishra Ashmita Mishra
26	1801219194	ASWINI KUMAR RAY	Aswin Ku Ray Aswin Ku Ray	Aswin Ku Ray Aswin Ku Ray	Aswin Ku Ray Aswin Ku Ray	Aswin Ku Ray Aswin Ku Ray

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

Name of the Course: Earth Science for Civil Engineering

Semester: 3rd

Academic Year: 2019-20

Duration : 36 Hrs

Date & Signature of the Student

Sl. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date:	Date:	Date:	Date:
1	1801219014	ARJITA NARAYAN	<u>06/09/19</u>	<u>10/09/19</u>	<u>11/09/19</u>	<u>12/09/19</u>
2	1801219024	BADAL KUMAR MOHAPATRA	<u>Bk Mohapatra</u>	<u>Bk Mohapatra</u>	<u>Bk Mohapatra</u>	<u>Bk Mohapatra</u>
3	1801219029	BIBHAS KUMAR SETHI	<u>B.K. Sethi</u>	<u>B.K. Sethi</u>	<u>B.K. Sethi</u>	<u>B.K. Sethi</u>
4	1801219052	DIPTI RANJAN MAHALIK	<u>D.R. Mahalik</u>	<u>D.R. Mahalik</u>	<u>D.R. Mahalik</u>	<u>D.R. Mahalik</u>
5	1801219054	GIRISH CHANDRA MAJI	<u>AB</u>	<u>AB</u>	<u>AB</u>	<u>AB</u>
6	1801219069	KUMAR SOURAV	<u>Kumar Sourav</u>	<u>Kumar Sourav</u>	<u>Kumar Sourav</u>	<u>Kumar Sourav</u>
7	1801219070	KUMAR SOURAV	<u>K. Sourav</u>	<u>K. Sourav</u>	<u>K. Sourav</u>	<u>K. Sourav</u>
8	1801219077	MANISH KUMAR VERMA	<u>M.K. Verma</u>	<u>M.K. Verma</u>	<u>M.K. Verma</u>	<u>M.K. Verma</u>
9	1801219096	PRABHAT KUMAR SRIWASTAV	<u>P.K. Srivastav</u>	<u>P.K. Srivastav</u>	<u>P.K. Srivastav</u>	<u>P.K. Srivastav</u>
10	1801219102	PRATIK PRASUN	<u>Pratik Prasun</u>	<u>Pratik Prasun</u>	<u>Pratik Prasun</u>	<u>Pratik Prasun</u>
11	1801219105	PRINCE KUMAR	<u>Prince Kumar</u>	<u>Prince Kumar</u>	<u>Prince Kumar</u>	<u>Prince Kumar</u>
12	1801219117	RAKESH KUMAR MALIK	<u>R. K. Malik</u>	<u>R. K. Malik</u>	<u>R. K. Malik</u>	<u>R. K. Malik</u>
13	1801219125	SANATHA KUMAR NAYAK	<u>Santha K. Nayak</u>	<u>Santha K. Nayak</u>	<u>Santha K. Nayak</u>	<u>Santha K. Nayak</u>
14	1801219133	SAROJ KUMAR NAYAK	<u>S.K. Nayak</u>	<u>S.K. Nayak</u>	<u>S.K. Nayak</u>	<u>S.K. Nayak</u>
15	1801219152	SOURYA RANJAN DAS	<u>Sourya Ranjan Das</u>	<u>Sourya Ranjan Das</u>	<u>Sourya Ranjan Das</u>	<u>Sourya Ranjan Das</u>
16	1801219184	ABHISEK NAYAK	<u>Abhishek Nayak</u>	<u>Abhishek Nayak</u>	<u>Abhishek Nayak</u>	<u>Abhishek Nayak</u>
17	1801219185	ABINASH PRADHAN	<u>Abinash Pradhan</u>	<u>Abinash Pradhan</u>	<u>Abinash Pradhan</u>	<u>Abinash Pradhan</u>
18	1801219186	ALINA ROUT	<u>Alina Rout</u>	<u>Alina Rout</u>	<u>Alina Rout</u>	<u>Alina Rout</u>
19	1801219187	ALOK KUMAR PARIDA	<u>Alok K. Parida</u>	<u>Alok K. Parida</u>	<u>Alok K. Parida</u>	<u>Alok K. Parida</u>
20	1801219188	AMAN SRIVASTAVA	<u>Aman Srivastava</u>	<u>Aman Srivastava</u>	<u>Aman Srivastava</u>	<u>Aman Srivastava</u>
21	1801219189	AMARESH GAYA	<u>A. K. Meher</u>	<u>A. K. Meher</u>	<u>A. K. Meher</u>	<u>A. K. Meher</u>
22	1801219190	ANIL KUMAR MEHER	<u>A. K. Meher</u>	<u>A. K. Meher</u>	<u>A. K. Meher</u>	<u>A. K. Meher</u>
23	1801219191	ARNAPURNA MALLIK	<u>Arnapurna Mallik</u>	<u>Arnapurna Mallik</u>	<u>Arnapurna Mallik</u>	<u>Arnapurna Mallik</u>
24	1801219192	ARUN KUMAR MISHRA	<u>Arun K. Mishra</u>	<u>Arun K. Mishra</u>	<u>Arun K. Mishra</u>	<u>Arun K. Mishra</u>
25	1801219193	ASHMITA MISHRA	<u>Ashmita Mishra</u>	<u>Ashmita Mishra</u>	<u>Ashmita Mishra</u>	<u>Ashmita Mishra</u>
26	1801219194	ASWINI KUMAR RAY	<u>Aswini K. Ray</u>	<u>Aswini K. Ray</u>	<u>Aswini K. Ray</u>	<u>Aswini K. Ray</u>

Signature of the Course Coordinator



# COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF CIVIL ENGINEERING  
ADD ON/CERTIFICATE COURSE

## STUDENT ATTENDANCE SHEET

Sheet No. 01

PRINCIPAL  
College of Engineering Bhubaneswar

Programme: B.Tech in Civil Engineering

Semester: 3rd

Academic Year: 2019-20

Name of the Course: Earth Science for Civil Engineering

Duration: 36 Hrs

Date & Signature of the Student

Sl. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date:	Date:	Date:	Date:
27	1801219195	BANAMALI PRADHAN	06/09/19	10/09/19	11/09/19	12/09/19
28	1801219196	BIBHUTI SETHI	Banamali Pradhan Bibhuti Sethi	Banamali Pradhan Bibhuti Sethi	Banamali Pradhan Bibhuti Sethi	Banamali Pradhan Bibhuti Sethi
29	1801219197	BISHNU PRASAD BEHERA	BP Behera	BP Behera	BP Behera	BP Behera
30	1801219198	CHANDAN KUMAR SWAIN	OK Swain	CR Swain	ABCS Swain	BP Behera Civ Swain
31	1801219199	CHANDRA SHEKHAR NAYAK	Chandran Nayak	Chandran Nayak	Chandran Nayak	Chandran Nayak
32	1801219200	CHELIN MOHANTY	Chelin Mohanty	Chelin Mohanty	Chelin Mohanty	Chelin Mohanty
33	1801219201	CHINMAYA KUMAR SETHY	CR Sethy	CR Sethy	ABCS Sethy	CR Sethy
34	1801219202	DEBADATTA MALLIK	DM Mallik	DM Mallik	DM Mallik	DM Mallik
35	1801219203	DEEPANJALI JENA	Deepanjali Jena	Deepanjali Jena	Deepanjali Jena	Deepanjali Jena
36	1801219204	DIBYA RANJAN BEHERA	DR Behera	DR Behera	DR Behera	DR Behera
37	1801219205	DIPTHEEMAYEE DAS	D.P Das	D.P Das	D.P Das	D.P Das
38	1801219206	ELORA PRIYADARSINI SATAPATHY	E.P Satapathy	E.P Satapathy	E.P Satapathy	E.P Satapathy
39	1801219207	HAREKRISHNA BOHIDAR	ABS	Harekrishna Bohidar	Harekrishna Bohidar	Harekrishna Bohidar
40	1801219208	JITENDRA KUMAR PARIDA	JK Parida	JK Parida	ABS Parida	JK Parida
41	1801219209	KALANDI GIRI	Kalandi Giri	Kalandi Giri	ABS Giri	Kalandi Giri
42	1801219210	LAXMIKANTA PYARILAL HEMBRAM	Laxmi Kantar Pyarilal Hembram	Laxmi Kantar Pyarilal Hembram	Laxmi Kantar Pyarilal Hembram	Laxmi Kantar Pyarilal Hembram
43	1801219211	LIPSA JAYASINGH	Lipsa Jayasingh	Lipsa Jayasingh	Lipsa Jayasingh	Lipsa Jayasingh
44	1801219212	LOPAMUDRA DALABEHERA	LD Behera	Lipsa Jayasingh LD Behera	Lipsa Jayasingh ABS	Lipsa Jayasingh LD Behera
45	1801219213	MAHESWAR BINDHANI	M.B Bindhani	M.B Bindhani	M.B Bindhani	M.B Bindhani
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

*[Signature]*

Programme: B.Tech in Civil Engineering

Semester: 3rd

Academic Year: 2019-20

Name of the Course: Earth Science for Civil Engineering

Duration : 36 Hrs

Date & Signature of the Student

Sl. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date:	Date:	Date:	Date:
1	1801219014	ARJITA NARAYAN	A. Narayan 13/09/19	A. Narayan 16/09/19		
2	1801219024	BADAL KUMAR MOHAPATRA	B.K. Mohapatra	B.K. Mohapatra		
3	1801219029	BIBHAS KUMAR SETHI	B.K. Sethi	B.K. Sethi		
4	1801219052	DIPTI RANJAN MAHALIK	D.R. Mahalik	D.R. Mahalik		
5	1801219054	GIRISH CHANDRA MAJHI	ARs	ARs		
6	1801219069	KUMAR SOURAV	K. Sourav	K. Sourav		
7	1801219070	KUMAR SOURAV	K. Sourav	K. Sourav		
8	1801219077	MANISH KUMAR VERMA	M.K. Verma	M.K. Verma		
9	1801219096	PRABHAT KUMAR SRIWASTAV	P.K. Srivastav	P.K. Srivastav		
10	1801219102	PRATIK PRASUN	P. Prasad	P. Prasad		
11	1801219105	PRINCE KUMAR	Prince Kumar	Prince Kumar		
12	1801219117	RAKESH KUMAR MALIK	R. Kumar	R. Kumar		
13	1801219125	SANATHA KUMAR NAYAK	S.K. Nayak	S.K. Nayak		
14	1801219133	SAROJ KUMAR NAYAK	S.K. Nayak	S.K. Nayak		
15	1801219152	SOURYA RANJAN DAS	Sourya R. Das	Sourya R. Das		
16	1801219184	ABHISEK NAYAK	Abhishek Nayak	Abhishek Nayak		
17	1801219185	ABINASH PRADHAN	Abinash Pradhan	Abinash Pradhan		
18	1801219186	ALINA ROUT	Alina Rout	Alina Rout		
19	1801219187	ALOK KUMAR PARIDA	Alok K. Parida	Alok K. Parida		
20	1801219188	AMAN SRIVASTAVA	Aman Srivastava	Aman Srivastava		
21	1801219189	AMARESH GAYA	A. Meher	A. Meher		
22	1801219190	ANIL KUMAR MEHER	A. K. Meher	A. K. Meher		
23	1801219191	ARNAPURNA MALLIK	A. Mallik	A. Mallik		
24	1801219192	ARUN KUMAR MISHRA	Arun K. Mishra	Arun K. Mishra		
25	1801219193	ASHMITA MISHRA	A. Mishra	A. Mishra		
26	1801219194	ASWINI KUMAR RAY	A. Ray	A. Ray		

Signature of the Course Coordinator

*[Signature]*

*[Signature]*



# 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: 3rd Academic Year: 2019-20

Name of the Course: Earth Science for Civil Engineering

Duration : 36 Hrs Date & Signature of the Student

Sl. NO.	Reg. No./ Enrollment No.	NAME OF THE STUDENT	Date:	Date:	Date:	Date:
27	1801219195	BANAMALI PRADHAN	Banamali Pradhan	Banamali Pradhan		
28	1801219196	BIBHUTI SETHI	Bibhuti Sethi	Bibhuti Sethi		
29	1801219197	BISHNU PRASAD BEHERA	Bishnu K. Sahoo	Bishnu K. Sahoo		
30	1801219198	CHANDAN KUMAR SWAIN	C.K. Sahoo	C.K. Sahoo		
31	1801219199	CHANDRA SHEKHAR NA YAK	Chandra S. Nayak	Chandra S. Nayak		
32	1801219200	CHELIN MOHANTY	Chelin Mohanty	Chelin Mohanty		
33	1801219201	CHINMAYA KUMAR SETHY	C K Sethy	C K Sethy		
34	1801219202	DEBADATTA MALLIK	Debadatta Mallik	Debadatta Mallik		
35	1801219203	DEEPANJALI JENA	Deepanjali Jena	Deepanjali Jena		
36	1801219204	DIBYA RANJAN BEHERA	DR Behera	DR Behera		
37	1801219205	DIPTEEMAYEE DAS	D. Das	D. Das		
38	1801219206	ELORA PRIYADARSINI SATAPATHY	E.P Satapathy	E.P Satapathy		
39	1801219207	HAREKRISHNA BOHIDAR	Harekrishna Bohidar	Harekrishna Bohidar		
40	1801219208	JITENDRA KUMAR PARIDA	Jitendra K. Parida	Jitendra K. Parida		
41	1801219209	KALANDI GIRI	Kalandi Giri	Kalandi Giri		
42	1801219210	LAXMIKANTA PYARILAL HEMBRAM	Laxmi Kanta Pyarilal Hembram	Laxmi Kanta Pyarilal Hembram		
43	1801219211	LIPSA JAYASINGH	Lipsa Jayasingh	Lipsa Jayasingh		
44	1801219212	LOPAMUDRA DALABEHERA	LP Behera	LP Behera		
45	1801219213	MAHESWAR BINDHANI	M. Bindhani	M. Bindhani		

PRINCIPAL  
College of Engineering Bhubaneswar

*[Signature]*

Signature of the Course Coordinator

*[Signature]*

*[Signature]*



**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. ARJITA NARAYAN, student of the Department

of Civil Engg. semester Third bearing registration number 1801219014

has successfully completed the ADD-ON Course titled Earth Science for Civil Engineering

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. BADAL KUMAR MOHAPATRA, student of the Department  
of Civil Engg. semester Third bearing registration number 1801219024  
has successfully completed the ADD-ON Course titled Earth Science for Civil Engineering  
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. BIBHAS KUMAR SETHI, student of the Department of Civil Engg. of Civil Engg. semester Third bearing registration number 1801219029 has successfully completed the ADD-ON Course titled Earth Science for Civil Engineering conducted at College of Engineering Bhubaneswar in the academic year 2019-20.

*[Signature]*

PRINCIPAL  
 College of Engineering Bhubaneswar

**TRUE COPY**

*[Signature]*

Course-Coordinator

*[Signature]*

Principal

*[Signature]*  
 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. DIPTI RANJAN MAHALIK, student of the Department  
of Civil Engg. semester Third bearing registration number 1801219052  
has successfully completed the ADD-ON Course titled Earth Science for Civil Engineering  
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. KUMAR SOURAV, student of the Department  
 of Civil Engg. semester Third bearing registration number 1801219069  
 has successfully completed the ADD-ON Course titled Earth Science for Civil Engineering  
 conducted at College of Engineering Bhubaneswar in the academic year 2019-20.

  
 Course-Cordinator

  
 Principal

  
 PRINCIPAL  
 College of Engineering Bhubaneswar

**TRUE COPY**