

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

[AFFILIATED TO BPUT, ODISHA]

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 antraposhere,

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 Hour

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.

12 Hours

 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 tsunami, 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.

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- 2. Eddward A. Keller "Environmental Geology", Pearson publisher, 9th edition, 2011.
- 3. U. Aswathanarayna, "Geoenvironment", A A Balkema Publishers, 1st 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	https://onlinecourses.nptel.ac.in/noc20_ce33/preview
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

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PRINCIPAL College of Engineering Bhubaneswar

H.O.D, Civil Engineering

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College of Engineering Bhubaneswar



### DEPARTMENT OF CIVIL ENGINEERING COLLEGE OF ENGINEERING BHUBANESWAR

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

### Add On Certificate Courses 2020-2021

Ref No: COEB/CIVIL/2020/37

Date: 06/09/2020

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 2020-2021 in ON\_LINE Mode. All the students are instructed to enroll their names for the following courses on or before 12/09/2020. The classes will be commenced from 14/09/2020. 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	Mrs. Nibedita Sahoo
2.	Introduction To Engineering Seismology	5 <sup>th</sup>	38	Mrs. Salini Patra
3.	Water Economics And Governance	7 <sup>th</sup>	40	Ms. Sipra Mallick

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

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Civil Engineering De

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



### 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: 2020-2021 ONLINE MODE

### 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	Remarks by the Course Coordinator
1	1901219010	AKASHA NAIK	
2	1901219011	CHANDRA HAS NAIK	
3	1901219012	CHITALU MARKAND	
4	1901219013	HEMANGINI TANDI	
5	1901219014	KANHU CHARAN JENA	
6	1901219015	KULDEEP BAGATI	
7	1901219016	PADMANAV PARIDA	
8	1901219017	PASWAN ANKIT KUMAR	
9	1901219018	PRIYANSHNU PRADHAN	
10	1901219019	ROHIT KUMAR	
11	1901219020	SAMARENDRA BISWAL	
12	1901219021	SUBHA SAGAR SAMAL	
13	1901219022	SURYAKANT SAMAL	a visit lab and Frankling out the est is propored by taking
14	1901219167	AAGHANRAJ SOREN	Certified that the Enrollment Sheet is prepared by taking the consents of the students to enroll themselves in this
15	1901219168	ABHISHIKTA MOHANTY	Certificate Course (Add-On) to be conducted in Virtual
16	1901219169	AMBIKA MARNDI	Mode (ON-LINE) during the Pandemic COVID'19 through
17	1901219170	AMRIT KUJUR	the link to be provided by the department.
18	1901219171	ANKIT KUMAR	They have also gone through the declaration/
19	1901219172	ANKIT KUMAR MOHAPATRA	undertaking to be strictly abide by them during the course period.  Course Coordinator
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22	1901219175	ASHISH SETH	CONTRACTOR OF THE PROPERTY OF
23	1901219176	ASHUTOSH PATI	(0) of 10)
24	1901219177	AVAY KUMAR	(°( '\ )6)
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26	1901219179	BIKASH KUMAR PANDA	AOT.
27	1901219180	BIMAL PODHA	
28	1901219181	CHINMAYA KUMAR BEHERA	
29	1901219182	CHITTARANJAN SA	
30	1901219183	DEEPAK KUMAR MURMU	
31	1901219184	DEEPAK KUMAR SETHI	
32	1901219185	DHARITRI SINGHA	

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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: 2020-2021 ONLINE MODE

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Sl. No.	Registration No.	Name of the Student	Remarks by the Course Coordinator
33	1901219186	DIPTIRANJAN MAJHI	
34	1901219187	EVANDEEP TIGGA	
35	1901219188	GANGADHAR MALIK	
36	1901219189	GIRITANAYA DAS	
37	1901219190	GYANARANJAN MALLIK	
38	1901219191	HIMANSHU BHUSAN SETHI	
39	1901219192	HRUDAYARANJAN DAS	
40	1901219193	JANMEJAYA SAHOO	
41	1901219194	JINGYANSU JITAPRANGYA SAHOO	
42	1901219195	KRUSHNA KANTA	$\dashv$
_	1901219196	KUNTALA PINGUA	
14	1901219197	LEEPIKA SAHU	Certified that the Enrollment Sheet is prepared by taking the
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## COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF CIVIL ENGINEERING

ADD ON/CERTIFICATE COURSE

ONLINE MODE

Duration: 36 Km Name of the Course: Earth Science for Civil Engineering Programme: B.Tech in Civil Engineering REGISTRATION Academic Year: 2020-21 NAME OF THE STUDENT STUDENT ATTENDANCE SHEET Date: \Date: Date & Signature of the Student Semester: 3rdSheet No.

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SUBHA SAGAR SAMAL

SAMARENDRA BISWAL

ROHIT KUMAR

PRIYANSHNU PRADHAN

PASWAN ANKIT KUMAR

PADMANAV PARIDA KULDEEP BAGATI

SURYAKANT SAMAL

AAGHANRAJ SOREN

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1901219017 1901219016

1901219169 1901219168

Signature of the Course Coordinator

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BIMAL PODHA

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BHANUPRIYA HEMBRAM

**BIKASH KUMAR PANDA** 

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DEPARTMENT OF CIVIL ENGINEERING

ADD ON/CERTIFICATE COURSE
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### COLLEGE OF ENGINEERING BHUBANESWAR (COEB) DEPARTMENT OF CIVIL ENGINEERING

ADD ON/CERTIFICATE COURSE

NO. Name of the Course: Earth Science for Civil Engineering Programme: B.Tech in Civil Engineering Signature of the Course Coordinator 1901219207 1901219208 REGISTRATION PRAVU PRASAD PARIJA PARTHASARATHI MOHANTY Academic Year: 2020-21 NAME OF THE STUDENT STUDENT ATTENDANCE SHEET Date; Date; Date; Date; Date; Date; Date; Date; Date; Date & Signature of the Student Semester: 3rd Sheet No. ONLINE MODE course is conducted in virtual mode (ON-LINE) because of the remarks P-Present and A-Certified that this Certificate College of Engineering Bhubaneswar The attendance is taken with the Pandemic COVID-19. Absent for the students. Remarks PRINCIPAL



ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

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Signature of the Course Coordinator



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ADD ON/CERTIFICATE COURSE

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DEPARTMENT OF CIVIL ENGINEERING ADD ON/CERTIFICATE COURSE

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DEPARTMENT OF CIVIL ENGINEERING ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

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DEPARTMENT OF CIVIL ENGINEERING ADD ON/CERTIFICATE COURSE

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# COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF CIVIL ENGINEERING

ADD ON/CERTIFICATE COURSE

		STUDENT ATTENDANCE SHEET ONL	ONLINE MODE
Programme: B.Tech in Civil Engineering	vil Engineering	- 11	0, 0,7
Name of the Course: Eart	Name of the Course: Earth Science for Civil Engineering	semester: 3rd	
Duration: 76Cm	Academic Year: 2020-21	Date & Signature of the Student	
NO. REGISTRATION NO.	NAME OF THE STUDENT	Date: Date: Date: Date: Date:	Remarks
54 1901219207	PARTHASARATHI MOHANTY	ac 101/11 ac/01/18c1	
55 1901219208	PRAVU PRASAD PARIJA		
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			- Charles
			PRINCIPAL PRINCIPAL
			College of Engineering
			Certified that this Certificate
			course is conducted in virtual
			mode (ON- LINE) because of
2			the Pandemic COVID-19
			The attendance is taken with
			the remarks P-Present and A-
			Absent for the students.
			Course Condinator
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Signature of the Course Coordinator



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





### Oertificate of Oempletion

has successfully completed the ADD-ON Course titled.	of Civil Engg.	This is to certify that Mr./Ms
ADD-ON Course titled	semes	AKASHA NAIK
Earth Science for Civil Engineering	semester Third bearing registration number 1901219010	, student of the Department

TRUE COPY

Course-Coordinator

conducted at College of Engineering Bhubaneswar in the academic year 2020-21

Principal

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### Optificate of Oompletion

has successfully completed the ADD-ON Course titled	of Civil Engg.	This is to certify that Mr./Ms. $$
N Course titled Earth Science for Civil Engineering	semester Third bearing registration number 1901219011	CHANDRAHAS NAIK , student of the Department

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conducted at College of Engineering Bhubaneswar in the academic year 2020-21

Course-Coordinator

Principal College of Engineering Bhubane they to



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### Optificate of Oampletion

has successfully completed the ADD-ON Course titled	Civil Engg.	This is to certify that Mr./Ms. CHIT
Course titled Earth Science for Civil Engineering	semester Third bearing registration number 1901219012	CHITALU MARKAND , student of the Department

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conducted at College of Engineering Bhubaneswar in the academic year 2020-21

Course-Coordinator

Principal

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### Oertificate of Completion

has successfully completed the ADD-ON Course titled .	of Civil Engg.	This is to certify that Mr./Ms
e ADD-ON Course titledEarth Science for Civil Engineering	semester Third bearing registration number 1901219013	HEMANGINI TANDI , student of the Department

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conducted at College of Engineering Bhubaneswar in the academic year\_

2020-21

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Course-Coordinator

Principal

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PRINCIPAL College of Engineering Bhubaneswa



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### Certificate of Completion

e ADD-ON Course titled Earth Science for Civil Engineering	as succes
semester Third bearing registration number 1901219014	of Civil Engg.
KANHU CHARAN JENA , student of the Department	This is to certify that Mr./Ms.

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conducted at College of Engineering Bhubaneswar in the academic year 2020-21

Course-Coordinator

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Principal

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