



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

ADD-ON COURSE

Course Titles: Water Economics And Governance

Branch: Civil Engineering

Programme: B.Tech

Year of Student: 4th Year

Course Objective:

1. To develop student knowledge on conservation of water, minimizing wastage and ensuring its more equitable distribution both across and within states of India through integrated water resource development and management.
2. To develop better understanding of water governance systems with the ultimate goal of delivering better water policies for better lives.
3. To make the student understand about the effective, efficient and inclusive water governance seeks to enhance water security and ensure access to safe drinking water and sanitation for all, while responding to environmental, economic and social objectives

SYLLABUS

Total Lecture Hours: 40

Module –I

6 Hours

Introduction: General outline, Water availability and uses: national and international scenario; Challenges in water management. Water Rights in India: Need of water rights, Water and sanitation in international law.

Module –II

8 Hours

Water Sustainability: Concept of sustainable water uses; The Dublin statement; Sustainable water management; Stakeholders' participation. Valuing Water: The use and non-use values of water; Valuation methods; Non-revenue waters (NRW) and unaccounted for water (UFW); Metering water uses; Water management through economic instruments. Economics of Water Projects: Capital budgeting in water projects; Costs concepts of capital budgeting; Financial evaluation of water projects.

Module –III

10 Hours

Water Pricing - Approach and Models: Significance of water pricing; Average and marginal cost pricing; Shortrun marginal cost pricing; Water pricing models - flat rate, uniform rate, increasing block tariff and seasonal rate models. Conflicts in Water Pricing: Conflicts on subsidy verses sustainability, efficiency verses fairness in supply, development decisions verses capacity restrictions; Water pricing practices in India and abroad; relevant case studies.

Module –IV

8 Hours

Economics of Water Projects: Economics of sectoral water allocation; Capital budgeting in water projects; Costs concepts of capital budgeting; Financial evaluation of water projects. Economic Evaluation

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Methods: Methods of project evaluation; Payback Period; Discounted Payback Period; Net Present Value; Internal Rate of Return; Average Rate of Return; Benefit-Cost Ratio.

Module –V

8 Hours

Water Governance: Elements and dimensions of water governance; Building blocks; Effective water governance schemes; Benchmarking water governance; Indicators of good governance. Water Governance in India: National water policies and water acts; Water regulatory authorities; Power and roles of central and state regulatory authorities; Legal and regulatory framework for hydro projects; Institutional arrangement and administrative controls of water service; Interstate water management initiatives; Stakeholders' participation; NGOs and social movements.

Course Outcomes:

After completion of course the students will be able to:

CO1: Study of effectiveness of water governance relates to the contribution of governance to defining clear sustainable water policy goals and targets at different levels of government, to implement those policy goals, and to meet expected objectives or targets.

CO2: Growing population and high standards of living put increasing pressure on our water resources.

CO3: Study of water governance promotes responsible actions and measures to protect and ensure the sustainability of water resources and to optimize the services and benefits obtained from those resources.

CO4: Deals with the water resources related problems and challenges in an institutional structure.

Text Books:

1. Colin H. Green , “*Handbook of Water Economics: Principles and Practice*” Willy publisher, 2003
2. Ariel Dinar and Kurt Schwabe , “*Handbook of Water Economics*” Edward Elgar publisher, 2015
3. Ramaswamy R. Iyer, “ *Water and the Laws in India*” SAGE publisher,2009
4. Chandrakanth M.G. “*Water Resource Economics: Towards a Sustainable Use of Water for Irrigation in India*”, Springer publisher 2015

Digital Learning Resources:

Course Name	Water Economics And Governance
Course Link	https://onlinecourses.nptel.ac.in/noc21_ce48/preview
Course Instructed	Dr. Manoj Kumar Tiwari, 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.Thirumalai Raja and Ms. Sipra Mallick**

Principal

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A. Bhuje
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H.O.D, Civil Engineering

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



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COLLEGE OF ENGINEERING BHUBANESWAR

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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 3rd /5th /7th 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 rd	36	Mrs. Nibedita Sahoo
2.	Introduction To Engineering Seismology	5 th	38	Mrs. Salini Patra
3.	Water Economics And Governance	7 th	40	Ms. Sipra Mallick

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

Mamata

HOD

Civil Engineering Department

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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: Water Economics And Governance



Semester : 7th

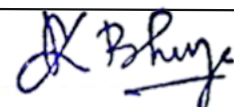
Academic Year: 2020-2021

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	1701219013	SWATY SOUMYA SETHY	Certified that the Enrollment Sheet is prepared by taking the consents of the students to enroll themselves in this Certificate Course (Add-On) to be conducted in Virtual Mode (ON-LINE) during the Pandemic COVID'19 through the link to be provided by the department. They have also gone through the declaration/ undertaking to be strictly abide by them during the course period. Course Coordinator (Signature with Seal)  
2	1701219030	CHIRANJIB PRADHAN	
3	1701219048	SHIVA SUNANI	
4	1701219054	FESAL MUSHARRAF	
5	1701219067	SUBHAKANTA ROUT	
6	1701219070	BHOLANATH MALLICK	
7	1701219146	AJAY KRUSHNA RAITA	
8	1701219148	AKASH LAKRA	
9	1701219149	DHIRAJ GAURAV KERKETTA	
10	1701219150	ELIAJAR TOPPO	
11	1701219151	GIRIDHARI RAITA	
12	1701219153	MAUSAM KUMARI	
13	1701219154	NIKHIL KUMAR	
14	1701219155	RAHUL KUMAR SAMAL	
15	1701219156	RAJDEEP KUMAR	
16	1701219157	RANJAN MAJHI	
17	1701219158	RAVI KUMAR GUPTA	
18	1701219159	ROSHAN KUJUR	
19	1701219160	SAMBIT KHUNTIA	
20	1701219161	SANTOSH KUMAR SETHY	
21	1701219162	SASMITA SWAIN	
22	1701219163	SOUMYA RANJAN SENAPATI	
23	1701219164	SUCHARITA MOHANTY	
24	1701219215	ASHISH KUMAR JENA	
25	1701219216	SANTOSHI MISHRA	
26	1701219217	KHAGENDRA MAHANTA	
27	1701219218	PRIYANKA PRIYADARSHINI	
28	1701219219	PRIYANKA PRIYADARSHINI ROUT	
29	1701219220	LUCKY PRASAD BEHERA	
30	1701219222	DEBASIS PATRA	
31	1701219224	PRANAYA TANDI	
32	1701219225	LITU TAYSAM	
33	1701219228	MANAS BEHERA	
34	1701219229	SHUBHAKANTA BALIARSINGH	



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DEPARTMENT OF CIVIL ENGINEERING
ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

ONLINE MODE
Sheet No. 01

Programme: B.Tech in Civil Engineering

Semester: 7th

Name of the Course: Water Economics And Governance

Duration : 40hrs

Academic Year: 2020-21

Date & Signature of the Student

Remarks

SL. NO.	REGISTRATION NO.	NAME OF THE STUDENT	Date:	Date:	Date:	Date:	Date:	Date:	Date:
1	1701219013	SWATY SOUMYA SETHY	P	A	P	P	P	P	P
2	1701219030	CHIRANJIB PRADHAN	P	P	A	P	P	P	P
3	1701219048	SHIVA SUNANI	P	P	A	P	P	P	P
4	1701219054	FESAL MUSHARRAF	A	P	P	P	P	P	P
5	1701219067	SUBHAKANTA ROUT	A	P	P	P	P	P	P
6	1701219070	BHOLANATH MALLICK	P	A	P	P	P	P	P
7	1701219146	AJAY KRUSHNA RAITA	P	P	P	A	P	P	P
8	1701219148	AKASH LAKRA	P	P	P	A	P	P	P
9	1701219149	DHIRAJ GADURAV KERKETTA	P	A	P	P	P	P	P
10	1701219150	ELIAJAR TOPPO	A	P	P	P	P	P	P
11	1701219151	GIRIDHARI RAITA	A	P	P	P	P	P	P
12	1701219153	MAUSAM KUMARI	P	P	A	P	P	P	P
13	1701219154	NIKHIL KUMAR	P	P	P	A	P	P	P
14	1701219155	RAHUL KUMAR SAMAL	P	P	P	A	P	P	P
15	1701219156	RAJDEEP KUMAR	P	A	P	P	P	P	P
16	1701219157	RANJAN MAJHI	P	A	P	P	P	P	P
17	1701219158	RAVI KUMAR GUPTA	A	P	P	P	P	P	P
18	1701219159	ROSHAN KUJUR	P	P	P	A	P	P	P
19	1701219160	SAMBIT KHUNTA	P	P	A	P	P	P	P
20	1701219161	SANTOSH KUMAR SETHY	A	P	P	P	P	P	P
21	1701219162	SASMITA SWAIN	A	P	P	P	P	P	P
22	1701219163	SOUMYA RANJAN SENAPATI	P	P	P	A	P	P	P
23	1701219164	SUCHARITA MOHANTY	P	P	A	P	P	P	P
24	1701219215	ASHISH KUMAR JENA	A	A	A	A	A	A	A
25	1701219216	SANTOSHI MISHRA	P	P	P	A	P	P	P
26	1701219217	KHAGENDRA MAHANTA	P	P	P	A	P	P	P
27	1701219218	PRIVANKA PRIVADARSHINI	A	P	P	P	P	P	P

Signature of the Course Coordinator

Smt

Smt

Smt

Smt

Smt

Smt

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Smt

Smt

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Course Coordinator (Signature with Seal)





COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF CIVIL ENGINEERING

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

ONLINE MODE
Sheet No. 02

Programme: B.Tech in Civil Engineering

Name of the Course: Water Economics And Governance

Semester: 7th

Duration : 40 hrs

Academic Year: 2020-21

Remarks

Sl. NO.	REGISTRATION NO.	NAME OF THE STUDENT	Date & Signature of the Student							Remarks	
			Date:	Date:	Date:	Date:	Date:	Date:	Date:		
28	1701219219	PRIYANKA PRIYADARSHINI ROUT	P	A	P	A	P	P	P	P	
29	1701219220	LUCKY PRASAD BEHERA	P	P	A	P	P	A	A	P	
30	1701219222	DEBASIS PATRA	P	A	P	P	P	A	A	P	
31	1701219224	PRANAYYA TANDI	A	P	P	P	P	A	A	P	
32	1701219225	LITU TAYSAM	A	A	P	P	P	A	A	A	
33	1701219228	MANAS BEHERA	P	A	P	P	P	P	A	A	
34	1701219229	SHUBHAKANTA BALIARISINGH	P	P	A	P	P	P	A	A	
35	1701219230	ALISHA MISHRA	P	P	P	A	P	P	P	A	
36	1701219231	AMRUTA BHANJA DEO	A	P	P	P	A	A	A	P	
37	1701219232	ANKIT DAS	P	A	P	P	P	A	A	P	
38	1701219233	BARADA PRASANNA DAS	P	P	A	P	P	P	A	P	
39	1701219234	DUSMANT KUMAR BEHERA	P	P	P	A	A	A	P	P	
40	1701219235	HIMANSU SEKHAR DANDAPAT	A	P	P	P	A	P	P	P	
41	1701219236	KASTURI RAY	A	P	P	P	P	A	A	P	
42	1701219237	NIBEDITA MOHANTY	P	A	P	P	P	P	A	P	
43	1701219238	PRAVAT KUMAR SAHOO	P	P	A	P	P	P	P	A	
44	1701219239	PUSPANIJALI JENA	P	P	P	P	A	P	P	A	
45	1701219240	RUPARASHI BAIRIGANJAN	A	P	P	P	P	P	A	P	
46	1701219241	SARASWATI GUIN	P	A	P	P	P	P	A	P	
47	1701219242	SAROJ KUMAR MOHANTY	P	P	A	P	P	P	P	A	
48	1701219243	SATYAM SINGH	P	A	P	P	P	A	A	P	
49	1701219244	SUBHASISH BHADRA	P	P	A	P	P	P	A	P	
50	1701219245	SUKANYA NAIK	P	P	A	P	P	P	A	A	
51	1701219246	SANTANU KUMAR SRICHANDAN	P	P	A	A	A	A	A	A	
52	1701219247	SAUBHAGYA RANJAN PRADHAN	P	P	P	A	A	P	P	A	

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Course Coordinator (Signature

with Seal)

[Signature]



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[Signature]



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DEPARTMENT OF CIVIL ENGINEERING

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

ONLINE MODE
Sheet No. 02

Programme: B.Tech in Civil Engineering

Semester: 7th

Name of the Course: Water Economics And Governance

Duration: 6 hrs

Academic Year: 2020-21

Date & Signature of the Student

Remarks

Sl. NO.	REGISTRATION NO.	NAME OF THE STUDENT	Date:	Date:	Date:	Date:	Date:	Date:	Date:
1	1701219013	SWATY SOUMYA SETHY	P	A	P	P	P	P	P
2	1701219030	CHIRANJIB PRADHAN	P	P	P	P	A	P	P
3	1701219048	SHIVA SUNANI	P	P	P	P	A	P	P
4	1701219054	FESAL MUSHARRAF	P	A	P	P	P	P	P
5	1701219067	SUBHAKANTA ROU	A	P	P	P	P	P	P
6	1701219070	BHOLANATH MALLICK	P	P	A	P	P	P	P
7	1701219146	AJAY KRUSHNA RAITA	P	P	P	P	A	P	P
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9	1701219149	DHIRAJ GAURAV KERKETTA	A	P	P	P	P	P	P
10	1701219150	ELIAJAR TOPPO	P	A	P	P	P	P	P
11	1701219151	GIRDHARI RAITA	P	A	P	P	P	P	P
12	1701219153	MAUSAM KUMARI	P	P	P	P	A	P	P
13	1701219154	NIKHIL KUMAR	P	P	P	P	P	P	P
14	1701219155	RAHUL KUMAR SAMAL	P	P	A	P	P	P	P
15	1701219156	RAJDEEP KUMAR	A	P	P	P	P	P	P
16	1701219157	RANJAN MAJHI	P	P	P	P	A	P	P
17	1701219158	RAVI KUMAR GUPTA	P	P	P	P	P	P	P
18	1701219159	ROSHAN KUJUR	P	A	P	P	P	P	P
19	1701219160	SAMBIT KHUNTIA	P	P	P	P	A	P	P
20	1701219161	SANTOSH KUMAR SETHY	P	P	P	P	A	P	P
21	1701219162	SASMITA SWAIN	P	P	P	P	A	P	P
22	1701219163	SOUMYA RANJAN SENAPATI	P	P	P	P	A	P	P
23	1701219164	SUCHARITA MOHANTY	A	P	P	P	P	P	P
24	1701219215	ASHISH KUMAR JENA	P	A	A	A	P	A	A
25	1701219216	SANTOSHI MISHRA	P	P	P	A	A	P	P
26	1701219217	KHAGENDRA MAHANTA	P	P	P	A	A	P	P
27	1701219218	PRIVANKA PRIYADARSHINI	P	A	P	P	P	P	P

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Course Coordinator (Signature with Seal)

[Signature]
COORDINATOR

Signature of the Course Coordinator



COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF CIVIL ENGINEERING

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

ONLINE MODE
Sheet No. 07

Programme: B.Tech in Civil Engineering

Semester: 7th

Name of the Course: Water Economics And Governance

Duration : 40 hrs

Academic Year: 2020-21

Date & Signature of the Student

Remarks

SL. NO.	REGISTRATION NO.	NAME OF THE STUDENT	Date:	Date:	Date:	Date:	Date:	Date:	Date:
28	1701219219	PRITYANKA PRIYADARSHINI ROUT	P	P	P	P	A	P	P
29	1701219220	LUCKY PRASAD BEHERA	P	P	P	P	P	P	P
30	1701219222	DEBASIS PATRA	P	P	P	P	P	P	P
31	1701219224	PRANAYYA TANDI	P	P	P	P	P	P	P
32	1701219225	LITU TAYSAM	A	A	A	A	A	A	A
33	1701219228	MANAS BEHERA	P	P	P	P	P	P	P
34	1701219229	SHUBHAKANTA BALLARSINGH	P	P	P	P	P	P	P
35	1701219230	ALISHA MISHRA	P	P	P	P	P	P	P
36	1701219231	AMRUTA BHANJA DEO	P	P	P	P	P	P	P
37	1701219232	ANKIT DAS	P	P	P	P	P	P	P
38	1701219233	BARADA PRASANNA DAS	P	P	P	P	P	P	P
39	1701219234	DUSMANT KUMAR BEHERA	P	P	P	P	P	P	P
40	1701219235	HIMANSU SEKHAR DANDAPAT	P	P	P	P	P	P	P
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44	1701219239	PUSPANJALI JENA	P	P	P	P	P	P	P
45	1701219240	RUPARASHI BAIRIGANJAN	P	P	P	P	P	P	P
46	1701219241	SARASWATI GUIN	P	P	P	P	P	P	P
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48	1701219243	SATYAM SINGH	P	P	P	P	P	P	P
49	1701219244	SUBHASISH BHADRA	P	P	P	P	P	P	P
50	1701219245	SUKANYA NAIK	P	P	P	P	P	P	P
51	1701219246	SANTANU KUMAR SRICHANDAN	A	A	A	A	A	A	A
52	1701219247	SAUBHAGYA RANJAN PRADHAN	P	P	P	P	P	P	P

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Course Coordinator (Signature)

with Seal
[Signature]





COLLEGE OF ENGINEERING BHUBANESWAR (COEB)

DEPARTMENT OF CIVIL ENGINEERING

ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

ONLINE MODE
Sheet No. 03

Programme: B.Tech in Civil Engineering

Semester: 7th

Name of the Course: Water Economics And Governance

Academic Year: 2020-21

Date & Signature of the Student

Remarks

Sl. NO.	REGISTRATION NO.	NAME OF THE STUDENT	Date:	Date:	Date:	Date:	Date:	Date:	Date:
1	1701219013	SWATY SOUMYA SETHY	P	P	P	P	P	P	P
2	1701219030	CHIRANJIB PRADHAN	P	P	P	P	P	P	P
3	1701219048	SHIVA SUNANI	P	P	P	P	P	P	P
4	1701219054	FESAL MUSHARRAF	P	P	P	P	P	P	P
5	1701219067	SUBHAKANTA ROU	P	P	P	P	P	P	P
6	1701219070	BHOLANATH MALLICK	P	P	P	P	P	P	P
7	1701219146	AJAY KRUSHNA RAITA	P	P	P	P	P	P	P
8	1701219148	AKASH LAKRA	P	P	P	P	P	P	P
9	1701219149	DHIRAJ GAURAV KERKETTA	P	P	P	P	P	P	P
10	1701219150	ELIAJAR TOPPO	P	P	P	P	P	P	P
11	1701219151	GIRDHARI RAITA	P	P	P	P	P	P	P
12	1701219153	MAUSAM KUMARI	P	P	P	P	P	P	P
13	1701219154	NIKHIL KUMAR	P	P	P	P	P	P	P
14	1701219155	RAHUL KUMAR SAMAL	P	P	P	P	P	P	P
15	1701219156	RAIDDEEP KUMAR	P	P	P	P	P	P	P
16	1701219157	RANJAN MAJHI	P	P	P	P	P	P	P
17	1701219158	RAVI KUMAR GUPTA	P	P	P	P	P	P	P
18	1701219159	ROSHAN KUJUR	P	P	P	P	P	P	P
19	1701219160	SAMBIT KHUNTA	P	P	P	P	P	P	P
20	1701219161	SANTOSH KUMAR SETHY	P	P	P	P	P	P	P
21	1701219162	SASMITA SWAIN	P	P	P	P	P	P	P
22	1701219163	SOUMYA RANJAN SENAPATI	P	P	P	P	P	P	P
23	1701219164	SUCHARITA MOHANTY	P	P	P	P	P	P	P
24	1701219215	ASHISH KUMAR JENA	A	A	A	A	A	A	A
25	1701219216	SANTOSHI MISHRA	P	P	P	P	P	P	P
26	1701219217	KHAGENDRA MAHANTA	P	P	P	P	P	P	P
27	1701219218	PRIVANKA PRIYADARSHINI	P	P	P	P	P	P	P

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Course Coordinator (Signature with Seal)
[Signature]



Signature of the Course Coordinator



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DEPARTMENT OF CIVIL ENGINEERING
ADD ON/CERTIFICATE COURSE

STUDENT ATTENDANCE SHEET

ONLINE MODE
Sheet No. 03

Programme: B.Tech in Civil Engineering

Semester: 7th

Name of the Course: Water Economics And Governance

Duration: 10 hrs
Academic Year: 2020-21

Date & Signature of the Student

Remarks

SL. NO.	REGISTRATION NO.	NAME OF THE STUDENT	Date & Signature of the Student							Remarks
			Date:	Date:	Date:	Date:	Date:	Date:	Date:	
28	1701219219	PRIYANKA PRIYADARSHINI ROUT	P	A	P	P	P	P	P	
29	1701219220	LUCKY PRASAD BEHERA	P	P	P	A	P	P	P	
30	1701219222	DEBASIS PATRA	A	P	P	P	P	P	P	
31	1701219224	PRANAYA TANDI	P	P	P	A	P	P	P	
32	1701219225	LITU TAYSAM	A	A	A	A	A	A	A	
33	1701219228	MANAS BEHERA	A	P	P	P	P	P	P	
34	1701219229	SHUBHAKANTA BALIARISINGH	P	P	A	P	P	P	P	
35	1701219230	ALISHA MISHRA	P	A	P	P	P	P	P	
36	1701219231	AMRUTA BHANJA DEO	P	P	P	P	A	P	P	
37	1701219232	ANKIT DAS	P	A	P	P	P	P	P	
38	1701219233	BARADA PRASANNA DAS	A	P	P	P	P	P	P	
39	1701219234	DUSMANT KUMAR BEHERA	P	P	P	A	P	P	P	
40	1701219235	HIMANSU SEKHAR DANDAPAT	P	P	P	A	P	P	P	
41	1701219236	KASTURI RAY	P	P	P	P	A	P	P	
42	1701219237	NIBEDITA MOHANTY	P	P	A	P	P	P	A	
43	1701219238	PRAVAT KUMAR SAHOO	P	P	P	P	P	P	A	
44	1701219239	PUSPANJALI JENA	P	P	P	P	P	A	P	
45	1701219240	RUPARASHI BAIRIGANIAN	P	A	P	P	P	P	P	
46	1701219241	SARASWATI GUIN	P	P	P	A	P	P	P	
47	1701219242	SAROJ KUMAR MOHANTY	P	P	P	A	P	P	P	
48	1701219243	SATYAM SINGH	P	P	P	A	P	P	P	
49	1701219244	SUBHASISH BHADRA	P	P	P	A	P	P	A	
50	1701219245	SUKANYA NAIK	P	P	P	A	P	P	A	
51	1701219246	SANTANU KUMAR SRICHANDAN	A	A	A	A	A	A	A	
52	1701219247	SAUBHAGYA RANJAN PRADHAN	P	P	P	P	P	P	A	

[Signature]
PRINCIPAL
College of Engineering Bhubaneswar

Certified that this Certificate course is conducted in virtual mode (ON- LINE) because of the Pandemic COVID-19. The attendance is taken with the remarks P-Present and A-Absent for the students.

Course Coordinator (Signature with Seal)





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





Certificate of Completion

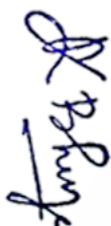
This is to certify that Mr./Ms. SAROJ KUMAR MOHANTY, student of the Department
of Civil Engg. semester Seventh bearing registration number 1701219242
has successfully completed the ADD-ON Course titled Water Economics And Governance

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

TRUE COPY


Course-Coordinator


Principal


PRINCIPAL
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COLLEGE OF ENGINEERING BHUBANESWAR

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Certificate of Completion

This is to certify that Mr./Ms. SATTYAM SINGH student of the Department


of Civil Engg. semester Seventh bearing registration number 1701219243


has successfully completed the ADD-ON Course titled Water Economics And Governance

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



PRINCIPAL
College of Engineering Bhubaneswar


Course-Cordinator


Principal

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Certificate of Completion

This is to certify that Mr./Ms. SUBHASISH BHADRA, student of the Department

of Civil Engg. semester Seventh bearing registration number 1701219244

has successfully completed the ADD-ON Course titled Water Economics And Governance

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

TRUE COPY

Course-Coordinator

Principal

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College of Engineering Bhubaneswar



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Certificate of Completion

This is to certify that Mr./Ms. SUKANYA NAIK, student of the Department

of Civil Engg. semester Seventh bearing registration number 1701219245

has successfully completed the ADD-ON Course, titled Water Economics And Governance

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

Smritika
 Course-Coordinator

[Signature]
 Principal

[Signature]
 PRINCIPAL
 College of Engineering Bhubaneswar

TRUE COPY



COLLEGE OF ENGINEERING BHUBANESWAR
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Certificate of Completion

This is to certify that Mr./Ms. SAUBHAGYA RANJAN PRADHAN, student of the Department

of Civil Engg. semester Seventh bearing registration number 1701219247

has successfully completed the ADD-ON Course titled Water Economics And Governance

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

TRUE COPY

Smita Mishra
 Course-Coordinator

[Signature]
 PRINCIPAL
 College of Engineering Bhubaneswar