Bharath
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)

NAAC

BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY
No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

Ref: BIHER/BIST/Civil//Spl/2018   Date:22/03/2018

CIRCULAR

Many a times, the defined skill sets that are being imparted to students today with Programme Specific Objectives in Educational Institutions become redundant sooner than later due to rapid technological advancements. It is important for higher education institutions to supplement the curriculum to make students better prepared to meet industry demands as well as develop their own interests and aptitudes.

Hence a Value Added Course is offered by Department of Civil Engineering, Bharath Institute of Higher Education & Research. The course offered is **Environmental Management and Sustainable Development** with the duration of 30hours (one hour per day) and commences from **02/04/2018**.

Eligibility: Course is open for UG Students of Department of Civil Engineering.

Registration:

The registration form which is available in the university website should be duly filled by the participants and to be submitted to the Coordinator at least 10 days before the commencement of course.

Contact:

Mrs.L.Maria Subashini

Associate Professor / Department of Civil Engineering,

Course Coordinator

Bharath Institute of Higher Education & Research.

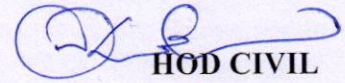Email id: mariasubashini.civil@bharathuniv.ac.in

HOD/CIVIL

Head of
Department of Civil Engineering
Bharath Institute of Higher Education & Research
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Selaiyur, Chennai-600 073. INDIA

Content of Syllabus

S.No.	Syllabus Details	No. of Lecture hrs	Time	Date	Lecture name
1	Introduction	1 hrs	10.00 am to 11.00 pm	2.4.2018	L.Maria Subashini
2	Principles of Environmental Management	1 hrs	11.00 am to 12.00 pm		L.Maria Subashini
3	Policy and Legal Aspects of EM	1 hrs	10.00 am to 11.00 pm	5.4.2018	L.Maria Subashini
4	Environmental Impact Assessment (EIA)	1 hrs	11.00 am to 12.00 pm		L.Maria Subashini
5	EIA Documentation and Processes	1 hrs	10.00 am to 11.00 pm	6.4.2018	L.Maria Subashini
6	Environmental Auditing	1 hrs	11.00 am to 12.00 pm		L.Maria Subashini
7	Life Cycle Assessment (LCA)	1 hrs	10.00 am to 11.00 pm	7.4.2018	L.Maria Subashini
8	Environmental Management System Standards	1 hrs	11.00 am to 12.00 pm		L.Maria Subashini
9	Environmental Management Techniques	1 hrs	10.00 am to 11.00 pm	8.4.2018	L.Maria Subashini
10	Environmental Design	1 hrs	11.00 am to 12.00 pm		L.Maria Subashini
11	Environmental Economics	1 hrs	10.00 am to 11.00 pm	9.4.2018	L.Maria Subashini
12	Sustainability Concepts – Innovations and Challenges	1 hrs	11.00 am to 12.00 pm		L.Maria Subashini
13	Ecology, Population & Environmental Chemistry	1 hrs	10.00 am to 11.00 pm	12.4.2018	L.Maria Subashini

14	Physical Process in Environment	1 hrs	11.00 am to 12.00 pm		L.Maria Subashini
15	Environmental Biological Concepts	1 hrs	10.00 am to 11.00 pm	13.4.201 8	L.Maria Subashini
16	Environmental Risk Assessments with Concepts of EIA and LCA	1 hrs	11.00 am to 12.00 pm		Dr.B.Saritha
17	Water – Quantity and Quality	1 hrs	10.00 am to 11.00 pm	14.4.201 8	Dr.B.Saritha
18	Water Treatment Basics	1 hrs	11.00 am to 12.00 pm		Dr.B.Saritha
19	Basics of Wastewater Collection, Treatment & Resource Recovery	1 hrs	10.00 am to 11.00 pm	15.4.201 8	Dr.B.Saritha
20	Basics of Solid Waste, Soil and Noise Pollution	1 hrs	11.00 am to 12.00 pm		Dr.B.Saritha
21	Basics of Air Pollution Issues – Global and Local	1 hrs	10.00 am to 11.00 pm	16.4.201 8	Dr.B.Saritha
22	Case Studies	1 hrs	11.00 am to 12.00 pm		Dr.B.Saritha
23	Climate change adaptation & green and blue infrastructure	1 hrs	10.00 am to 11.00 pm	19.4.201 8	Dr.B.Saritha
24	Drivers of change & systems thinking	1 hrs	11.00 am to 12.00 pm		Dr.B.Saritha
25	Sustainable living & principles of ecological design	1 hrs	10.00 am to 11.00 pm	20.4.201 8	Dr.B.Saritha
26	Climate change mitigation & the low-carbon economy	1 hrs	11.00 am to 12.00 pm		Dr.B.Saritha
27	Citizen engagement & creativity in rethinking the future	1 hrs	10.00 am to 11.00 pm	21.4.201 8	Dr.B.Saritha
28	Sustainability & civilisation	1 hrs	11.00 am to 12.00 pm		Dr.B.Saritha
29	Navigating towards	1 hrs	10.00 am	22.4.201	Dr.B.Saritha

	sustainability		to 11.00 pm	8	
30	Global challenges & urban futures	1 hrs	11.00 am to 12.00 pm		Dr.B.Saritha

HOD CIVIL

Topic: Environmental Management and Sustainable Development

Type of Course: Value added course / UG

Department of school of Civil and infrastructure Engineering

Pre-Requisites: Environmental Science

Course Duration: 30 hours (2 April' 18)

Intended Audience: Civil Engineering Students

Industries Applicable To: All companies that deal with the Civil infrastructure development

Coordinators: L.Maria Subashini & Dr. B. Saritha

Objective:

a) To impart an understanding of systems approach to Environmental Management and skills for environmental performance in terms of legal compliance, pollution prevention and continual improvement.

b) To understand the environmental, social and economic dimensions of sustainability and the principles evolved through landmark events so as to develop an action mindset for sustainable development.

c) To understand the importance of natural resources and strategies for its sustainable management.

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COURSE OUTLINE:

This course introduces to the best environmental technologies for a sustainable development and how they are managed in various settings around the world. This course gives an opportunity to learn about global trends that influence our environment and the living conditions and how different management systems and approaches that are used around the world to manage the environment. This includes current environmental technologies built for the environment and technologies for sustainable soil management, groundwater protection methods and integrated Water resources management. The course will cover basic concepts of ecology, water pollution, water and wastewater quality and treatment, solid and hazardous waste management, soil and noise pollution, sustainability concepts including Environmental Impact Assessment, Life Cycle Assessment, Waste Minimization, Circular Economy and Sustainable Development Issues. Unplanned developmental activities as well as ever-increasing population have caused enormous strain on the environment resources and hence societies across the world face several problems of environmental degradation. However, it is imperative to maintain a balance between the capacity of the environment and the sustainable utilization of resources. This is only possible by understanding the environment in its totality and the principles of its scientific management. Today, 'Environment Management' (EM) is a significant term. To comprehend the term, one must understand the issues that relate to it. Development activities related to population growth can lead to environmental degradation in a number of ways, not least depletion of resources. The critical task of EM is to balance the capacity of the environment against developmental requirements effectively. This task can be achieved through application of sustainable development/utilization mechanisms which are based on scientific principles of environment.

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NAAC
A GRADE
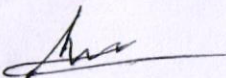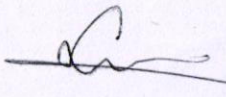NATIONAL ASSESSMENT AND
ACCREDITATION COUNCIL

BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

CERTIFICATE OF PARTICIPATION

This is to Certify that ___Golla Dinesh___ , Bharath Institute of Higher Education and Research, has participated in value added course on '**Environmental Management and Sustainable Development**', presented by **L.Maria Subashini, Assistant Professor, School of Civil & Infrastructure Engineering, BIHER,** Organized by School of Civil & Infrastructure Engineering, Bharath Institute of Science & Technology, BIHER from 2nd April 2018 to 22th April 2018

Coordinator

Co-Coordinator

HOD, Civil Engineering
Head of the Department
Department of Civil Engineering
Bharath Institute of Higher Education & Research
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VALUE ADDED COURSE

Feedback Form

Event Name: Environmental Management & Sustainable

Event Venue: Date: Department of School of Civil & Dev
Infrastructure Engg. 2/4/2018

Name of participant: Perivennula Charitha
to 25/4/18

1. Rate the success of the event (1: not successful, 5 very successful)

1   2   3   4   (5)

2. Describe what topic is good.

   Sustainability Principles

3. What aspects of the course we improve.

   —

4. What else would you like to see added.

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SCHOOL OF CIVIL AND INFRASTRUCTURE ENGINEERING

VALUE ADDED COURSE –Environmental Management and Sustainable Development

Date: 2.04.2018   **Year/Sem: II /IV**

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