



# Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed - to - be University under section 3 of UGC Act 1956)



**BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY**

No.173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

Ref: BIHER/BIST/Civil//Spl/2021

Date:10/03/2021

## 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 School of Civil and Infrastructure Engineering, Bharath Institute of Higher Education & Research. The course offered is **Introduction to Environmental Toxicology and Health** with the duration of 30hours (Two hour per day) and commences from **13/04/2021(online)**.

**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:**

Dr.B.Saritha

Associate Professor / School of Civil and Infrastructure Engineering,  
Course Coordinator,

Bharath Institute of Higher Education & Research.

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

  
**HOD/CIVIL**

Head of the Dept.  
(Civil Engineering)  
Bharath Institute of Higher  
Education & Research,  
Selaiyur, Chennai - 600 073.

**SCHOOL OF CIVIL AND INFRASTRUCTURE ENGINEERING**  
**VALUE ADDED COURSE-INTRODUCTION TO ENVIRONMENTAL TOXICOLOGY**  
**AND HEALTH**

**Students name list**

1	U14CE065	HARISH KUMAR REDDY .G
2	U14CE067	HEMANTH VENKAT SAI.B
3	U14CE068	HOPEFULMAN BAREH
4	U14CE069	IBANKERLANG KHARSYNTENG
5	U14CE070	INJETI VAMSI DHAR REDDY
6	U14CE071	IRFAN AHAMED.R
7	U14CE072	JACQUELINE ELIZABETH .D
8	U14CE073	JAJAM VENKATA SATISH TEJA
9	U14CE074	JEFRIN.J
10	U14CE075	JOBNIKOLUS SAM.J
11	U14CE076	KADHIR SHANKAR.R
12	U14CE078	KAMMA KOTESWARA RAO
13	U14CE079	KANAGASUNDARI.V
14	U14CE081	KARUPPAN CHETTY.N
15	U14CE082	KASA NAGENDRA REDDY
16	U14CE083	KASHIF SHAZADA
17	U14CE084	KAVITA
18	U14CE085	KIRUBANANDAN.Y
19	U14CE086	KONDURU SURENDRA
20	U14CE087	KRISHNAKANT ROY
21	U14CE089	LATHA.S
22	U14CE090	LAVANYA.B
23	U14CE092	LOKESH .S
24	U14CE094	MADHAN KUMAR.P
25	U14CE095	MADHINANI GOPI

26	U14CE096	MADUPALLI AKHIL
27	U14CE097	MAHADEV BAITHA
28	U14CE098	MANIARASU.R
29	U14CE099	MANIRATHNAM.T
30	U14CE100	MANIVEL RAJA
31	U14CE101	MANJOT SINGH
32	U14CE102	MANOHARAN.R
33	U14CE103	MANOJ.P
34	U14CE104	MANU THOMAS MUNDATTUMKUZHY
35	U14CE106	MARPIUS AGITOK SANGMA
36	U14CE107	MARREDDY.HITHESWAR REDDY
37	U14CE108	MARRI AKHIL
38	U14CE109	MARRI JHANSI RANI
39	U14CE110	MASHETTY. SATHVIK
40	U14CE111	MD QURRATUL AIN
41	U14CE112	MD TANWEER ALAM
42	U14CE113	MD NUMAN MASHUD
43	U14CE114	MD NAUSHAD
44	U14CE115	MITHILESH KUMAR
45	U14CE116	MOHAMED ASIF .M
46	U14CE117	MOHAMED ILIYAS IMTHIYAS AHMED
47	U14CE118	MOHAMMAD YOUSUF
48	U14CE119	K. MOHAMMED GHANI
49	U14CE120	MOHAMMED SAMEER .O

*P. Jayalaxmi*  
 Head of the Dept.  
 Civil Engineering  
 Bharath Institute of Higher  
 Education & Research,  
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Topic: Introduction to Environmental Toxicology and Health

Type of Course: value added course / UG

School of Civil and Infrastructure Engineering

Pre-Requisites: Environmental Health Engineering

Course Duration: 30 hours ( 13 April' 21 )

Intended Audience: Civil Engineering Students

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

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

**Objective:**

- a) Ability to learn the concept of environmental health.
- b) Ability to learn toxicity of chemicals.
- c) Identify different environmental factors that affect health.
- d) Discuss the preventive and protection measures for various water borne diseases.
- e) Describe the seasonal changes and protection measures for various air borne bio-allergen.

## **COURSE OUTLINE:**

The course is designed to acquaint the student with the scientific and technical foundations of the field, and examines both practice and research contributions to understanding and controlling environmental hazards. This course explores the relationship people have with their environment, the risk management choices made, and the resulting associations that affect health and physical well-being for the individual, communities and susceptible populations. This field is a professional, interdisciplinary field focused on the science and practice of preventing injury and illness from exposures to hazards in our environments. Introduction to Environmental Toxicology and Health is designed to introduce students to foundational and technical concepts in the field of Environmental Public Health. Primarily, students will learn how a variety of environmental factors impact health outcomes, the control measures currently used to prevent or minimize the health effects from these negative impacts, and where to access additional information to make a difference at the individual, community or higher level.

This course covers a wide range of topics in Environmental Toxicology and Health sciences. Students will be provided with a general introduction to the core concepts of environmental health (i.e. exposure assessment, toxicology, epidemiology and risk assessment); and ways to examine the environmental health issues by applying core concepts. This course will also briefly introduce some methods to measure pollutants in the environment— mainly the water pollution, and effectively control environmental hazards; and it will introduce the concepts of how early developmental exposures to environmental chemicals may influence of human disease.

# Value Added Course on Introduction to Environmental Toxicology and Health

## Content of Syllabus

S.No.	Syllabus Details	No. of Lecture hrs	Time	Date	Lecture name
1	Introduction	2 hrs	10.00 a.m-12.00 p.m	13.4.2021	Dr.B.Saritha
2	Toxic Chemicals and Toxicity	2 hrs	10.00 a.m-12.00 p.m	15.4.2021	Ms. L.Maria Subashini
3	Toxicology of some organic compounds	2 hrs	10.00 a.m-12.00 p.m	18.4.2021	Dr.B.Saritha
4	Reactions and fate of Hazardous wastes	2 hrs	10.00 a.m-12.00 p.m	19.4.2021	Dr.B.Saritha
5	Hazard waste reduction and minimisation and physical methods of treatment of hazardous wastes	2 hrs	10.00 a.m-12.00 p.m	20.4.2021	Dr.B.Saritha
6	Chemical methods of treatment of hazardous wastes	2 hrs	10.00 a.m-12.00 p.m	21.4.2021	Dr.B.Saritha
7	Environmental Chemistry of Water	2 hrs	10.00 a.m-12.00 p.m	22.4.2021	Ms. L.Maria Subashini
8	Water Pollution	2 hrs	10.00 a.m-12.00 p.m	25.4.2021	Ms. L.Maria Subashini
9	Water borne diseases	2 hrs	10.00 a.m-12.00 p.m	26.4.2021	Ms. L.Maria Subashini
10	Prevention and protection of community health from water borne diseases	2 hrs	10.00 a.m-12.00 p.m	27.4.2021	Ms. L.Maria Subashini
11	Air borne bio-allergents, seasonal changes, mode of dispersal, disease intensity and control	2 hrs	10.00 a.m-12.00 p.m	28.4.2021	Dr.B.Saritha
12	Physical, Mental and Social, Environmental factors influencing health	2 hrs	10.00 a.m-12.00 p.m	29.4.2021	Dr.B.Saritha
13	Urbanization & congestion, pollution	2 hrs	10.00 a.m-12.00 p.m	02.5.2021	Dr.B.Saritha
14	Environmental health criteria	2 hrs	10.00 a.m-12.00 p.m	03.5.2021	Ms. L.Maria Subashini
15	Concept of environmental health management	2 hrs	10.00 a.m-12.00 p.m	04.5.2021	Dr.B.Saritha

  
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### CERTIFICATE OF PARTICIPATION

This is to Certify that JEFRIN J, Bharath Institute of Higher Education and Research, has participated in value added course on 'Introduction to Environmental Toxicology and Health', presented by Mrs B. Saritha., Associate Professor, School of Civil & Infrastructure Engineering, BIHER, from 13<sup>th</sup> April 2021 to 4<sup>th</sup> May 2021

Coordinator

  
Head of the Dept.  
(Civil Engineering)

HOD

Bharath Institute of Higher  
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VALUE ADDED COURSE

Feedback Form

Event Name: Introduction to Environmental Toxicology and health

Event Venue: Date: 13/4/21

Name of participant: KANITA

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

1            2            3            4            5 ✓

2. Describe what topic is good.

Environmental health criteria.

3. What aspects of the course we improve.

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4. What else would you like to see added.

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