



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: 01/06/2021

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 Department of School of Civil and Infrastructure Engineering, Bharath Institute of Higher Education & Research. The course offered is **Course on Cement and Concrete Technology** with the duration of 30 hours (Two hour per day) and commences from 13/06/2021 to 29/06/2021(online).

Eligibility: Course is open for UG Students for Department School of Civil and Infrastructure 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 5 days before the commencement of course.

Contact:

Mrs K.Kiruthiga

Assistant Professor / School of Civil and Infrastructure Engineering.,

Course Coordinator

Bharath Institute of Higher Education & Research.

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


HOD

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

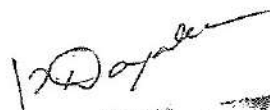
Value Added Course

Course on Cement and Concrete Technology

Students name list

s.no	Reg.no	Name	e- mail
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Topic: Course on Cement and Concrete Technology

Type of Course: Value added course / UG

School of Civil and infrastructure Engineering

Pre-Requisites: Basic Civil Engineering

Course Duration: 30 hours (13 June'21)

Intended Audience: Civil Engineering Students

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

Coordinators: MS. K.Kiruthiga

Objective:

- Knowledge of cement origin, properties and types
- Knowledge of aggregate properties and classification
- Knowledge about Fresh and harden concrete properties Using concrete laboratory to find concrete properties

COURSE OUTLINE:

The main aim is to familiarize students with physical properties and mechanical behavior of various construction materials with main emphasis being placed on concrete. This includes detailed discussions of concrete constituents: cement, aggregates, water and admixtures. Relevant aspects related to fresh and hardened concrete, i.e. mixing, handling, casting, curing, standards, testing, strength, deformation, durability and quality control are also discussed. Other construction materials discussed in the course include timber, Metals and plastics. Special topics and new developments related to the materials used in the construction industry may be reviewed.

Value Added Course

Professional Training on Course on Cement and Concrete Technology

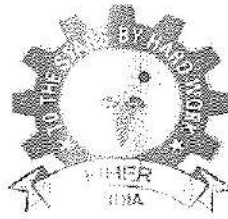
Content of Syllabus

S.No.	Syllabus Details	No. of Lecture hrs	Time	Date	Lecture name
1	Introduction: constituents, history, advantages, limitations and application	2	10.00am to 12.00am	13.06.21	K.Kiruthiga
2	Cement Production and Composition, Cement chemistry	2	10.00am to 12.00am	14.06.21	K.Kiruthiga
3	Aggregates: physical and mechanical propertie	2	10.00am to 12.00am	15.06.21	K.Kiruthiga
4	Cement: raw materials, manufacture, composition and types	2	10.00am to 12.00am	16.06.21	K.Kiruthiga
5	Water: mixing and curing requirements, tests			17.06.21	
6	Admixtures: types, water reducing (superplasticizers), set-retarders, accelerators and air entraining agents	2	10.00am to 12.00am	18.06.21	K.Kiruthiga
7	Fresh concrete: workability, segregation, bleeding and tests	2	10.00am to 12.00am	20.06.21	K.Kiruthiga
8	Practical considerations: mixing, handling, casting, compaction, curing and removal of formworks.	2	10.00am to 12.00am	21.06.21	K.Kiruthiga
9	Hardened Concrete: physical, chemical and engineering properties, tensile and compressive strengths, other strength, deformation, elasticity, shrinkage, creep destructive and non-destructive tests	2	10.00am to 12.00am	22.06.21	K.Kiruthiga
10	Mix design: influencing factors, various methods of mix proportioning and design of normal strength concrete including prescriptive, standard and designed mixes.	2	10.00am to 12.00am	23.06.21	K.Kiruthiga

11	Quality control: variation in strengths and compliance requirements.	2	10.00am to 12.00am	24.06.21	K.Kiruthiga
12	Metal: manufacture, physical and mechanical characteristics, and testing.	2	10.00am to 12.00am	25.06.21	K.Kiruthiga
13	Timber: physical and mechanical characteristics, and testing	2	10.00am to 12.00am	27.06.21	K.Kiruthiga
14	Expansive concrete, roller compacted concrete, concrete using recycled aggregate	2	10.00am to 12.00am	28.06.21	K.Kiruthiga
15	Concreting Operations	2	10.00am to 12.00am	29.06.21	K.Kiruthiga

p. Jayalaxmi
HOD

Head of the Dept
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VIT Institute of Higher
Education & Research
Vellore - 600 071



Bharath

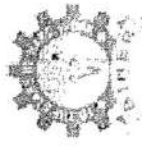
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Value Added Course

Course on Cement and Concrete Technology





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CERTIFICATE OF participation

This is to Certify that RAJESH, from Bharath Institute of Higher Education and Research, has participated in value added course on 'Course on Cement and Concrete Technology' presented by Mrs.K.Kiruthiga., Assistant Professor, Organized by School of Civil & Infrastructure Engineering, BIHER from 13.06.2021 to 29.06.2021.


Coordinator


Head of the Dept.
School Engineering
Bharath Institute of Higher
Education & Research,
Chennai - 600 072.

HOD

VALUE ADDED COURSE

Feedback Form

Event Name: Course on cement and concrete Technology.

Event Venue: Date: 13/6/2021

Name of participant: RAJEEH. R

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

1

2

3

4

5 ✓

2. Describe what topic is good.

Fresh concrete workability.

3. What aspects of the course we improve.

4. What else would you like to see added.

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