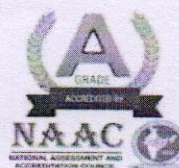




Bharath
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

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

Ref: BIHER/BIST/Civil//Spl/2018

Date: 03/10/2018

From

Mrs. K.Anitha,

Department of Civil Engineering,

BIHER

To

The HOD

Department of Civil Engineering,

BIHER

Respected Sir

Sub – Permission to conduct value added course – reg.

I wish to inform you that, as it is decided to conduct the value added courses to supplement the curriculum to make students better prepared to meet industry demands as well as develop their own interests and aptitudes. The eligibility of this course is open for UG students from department of civil engineering. So please permit us to conduct the value added course on Basic Construction Materials which is starting from 15/10/2018 to 16/11/2018.

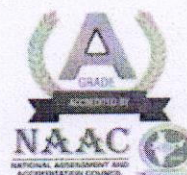
Thanking you.

HOD

Head of the Department
Department of Civil Engineering
Bharath Institute of Higher Education & Research
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Date: 05/10/2018

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 School of Civil and Infrastructure Engineering, Bharath Institute of Higher Education & Research. The course offered is Basic Construction Materials with the duration of 30 hours (Two hour per day) and commences from 15/10/2018 to 16/11/2018.

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:


K.Anitha

Associate Professor / School of Civil and Infrastructure Engineering.,

Course Coordinator

Bharath Institute of Higher Education & Research.

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


HOD
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SCHOOL OF CIVIL & INFRASTRUCTURE ENGINEERING
VALUE ADDED COURSE
BASIC CONSTRUCTION MATERIALS
STUDENTS NAME LIST

Sl.NO	Reg No	Name of the students	E-Mail ID
1	U17CE002	M.Vikash	vikashmathi2012@gmail.com
2	U17CE003	Aishwarya .C	cbaish18@gmail.com
3	U17CE005	Kallam Venkata Reddy	venk4147@gmail.com
4	U17CE006	Roshan Nilling Guha	rosannilling@gmail.com
5	U17CE007	Dilip Kumar .G	Dilipramya1406@Gmail.com
6	U17CE008	Larry Lalnunzira	larryziras@gmail.com
7	U17CE009	Praveen Kumar .S	praveenvictory505@gmail.com
8	U17CE010	Mathavan .S	maddyaustin316@gmail.com
9	U17CE011	Deepak Kumar .N	littledeepak46@gmail.com
10	U17CE012	D.Mullaivendhan	mullaivendhan949@gmail.com
11	U17CE013	Reghakumar Muithukumar	kumarraghav333@gmail.com
12	U17CE014	Tajammul Afroz	tajammulafroz@gmail.com
13	U17CE015	Kesava Ranganath	keshavkhan1999@gmail.com
14	U17CE017	Kishore .G	Kishorgkv30@gmail.com
15	U17CE018	Rubesh .V	rubeshragul17@gmail.com
16	U17CE019	Jaikishen .S	jaikishen91@gmail.com
17	U17CE021	Talasu Pavan Maneesh	pavanmaneesh.talasu@gmail.com
18	U17CE022	Sayatuneni Prasanna Kumar	sayapaneni69@gmail.com
19	U17CE023	Kundepi Pawan Sai Gopal	kpsgopal2000@gmail.com
20	U17CE024	Konjengbam Shyam Singh	kshyam2791@gmail.com
21	U17CE025	Chintalaakhil Krishna	chintalabrothers11@gmail.com

Value Added Course
Basic Construction Materials

Content of Syllabus

S.No.	Syllabus Details	No. of Lecture hrs	Time	Date	Lecturer name
1	Stone as building material Deterioration and Preservation of stone work	2	10.00 – 12.00 am	15/10/2018	K.Anitha
2	Tests on bricks includes Compressive Strength ,Water Absorption,Efflorescence Bricks for special use	2	10.00 – 12.00 am	17/10/2018	K.Anitha
3	Lightweight concrete blocks.	2	10.00 – 12.00 am	19/10/2018	K.Anitha
4	Types and Grades Properties of cement and Cement mortar	2	10.00 – 12.00 am	22/10/2018	K.Anitha
5	Various tests methods Compressive strength , Tensile strength ,Fineness,Soundness and consistency	2	10.00 – 12.00 am	24/10/2018	K.Anitha
6	coarse Aggregates , Crushing strength,Impact strength, Flakiness Index,Elongation Index ,Abrasion Resistance Grading	2	10.00 – 12.00 am	26/10/2018	K.Anitha
7	Timber Market forms ,Industrial timber, Plywood, Veneer, Thermocol, Panels of laminates	2	10.00 – 12.00 am	29/10/2018	K.Anitha
8	Steel ,Aluminum and Other Metallic Materials, Composition, Aluminium, composite panel	2	10.00 – 12.00 am	31/10/2018	K.Anitha
9	Mechanical treatment, Paints ,Varnishes,Distempers, Bitumens	2	10.00 – 12.00 am	02/11/2018	K.Anitha
10	Glass,Ceramics,Sealants for joints,Fibre glass reinforced plastic,Clay products	2	10.00 – 12.00 am	05/11/2018	K.Anitha

11	Refractories, Composite materials ,Types,Applications of laminar composites	2	10.00 – 12.00 am	07/11/2018	K.Anitha
12	Applications of laminar composites,Fibre textiles, Geomembranes and Geotextiles for earth reinforcement.	2	10.00 – 12.00 am	09/11/2018	K.Anitha
13	Fibre glass reinforced plastic,Clay products	2	10.00 – 12.00 am	12/11/2018	K.Anitha
14	Plywood, Veneer, Thermocol, Panels of laminates	2	10.00 – 12.00 am	14/11/2018	K.Anitha
15	Lime – Preparation of lime mortar – Cement – Ingredients – Manufacturing process	2	10.00 – 12.00 am	16/11/2018	K.Anitha



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22	U17CE026	Muthuru Ashok Kumar Reddy	ashokkreddy8264@gmail.com
23	U17CE027	Varikutti Ayappa	manirockzz371@gmail.com
24	U17CE028	Gabe Teja Sai Reddy	gadetejasaireddy@gmail.com
25	U17CE029	Chintalapudi Naga Murali Krishna	chinthalapudimuralikrishna5@gmail.com
26	U17CE030	Nishanth Raj .K	nishanthvijay62@gmail.com
27	U17CE031	Gadaewar Sai Pranay	saipranay4181@gmail.com
28	U17CE032	Raghavareddy Prasanth Reddy	rp7842197222@gmail.com
29	U17CE033	Chilaka Sathish Reddy	chilakasathish664@gmail.com
30	U17CE035	Jayant Chodhary	choudharyjayant689@gmail.com
31	U17CE037	Sriram P.A.	sriramchennai2@gmail.com
32	U17CE038	Kommuru Anil Reddy	kommuruamil1998@gmail.com
33	U17CE039	Vikram Kumar .A	crvikramkumar99@gmail.com
34	U17CE040	Shaik Iliyas	iliyasuddin26@gmail.com
35	U17CE041	Mohammed Ehteshyamuddin	ehteshyamudfin@gmail.com
36	U17CE042	Mohammed Ehteshyamuddin	ehteshyamudfin@gmail.com
37	U17CE043	Kakarla Rama Naidu	ramlaxmankakarla173137@gmail.com
38	U17CE045	Illuri Jaya Venkata Siva Sai Kumar	saikumarilluri222@gmail.com
39	U17CE046	Palavelli Sasi Kumar Reddy	sasikumarreddy14@gmail.com
40	U17CE047	Moola Hanumantha Reddy	hhanumanthareddym2000@gmail.com



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Topic: Basic Construction Materials

Type of Course: value added course/

School of Civil and infrastructure Engineering

Pre-Requisites: Basic Civil Engineering

Course Duration: 30 hours (15 October 2018 to 16 November 2018)

Intended Audience: School of Civil and infrastructure Engineering Students

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

Coordinator: K.Anitha

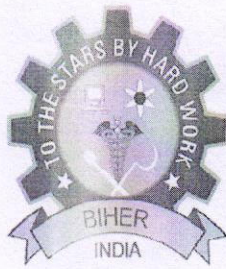
Objective:

- a) Identify the various types of concretes and their constituents and properties.
- b) Identify the various types of metals, their properties and applications.
- c) Identify the various composite materials, their properties and applications.
- d) Understand the concept of water-proofing and identify the purpose of flooring and façade materials.
- e) Design and develop smart intelligent buildings.

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VALUE ADDED COURSE
BASIC CONSTRUCTION MATERIALS
COURSE OUTLINE

This course will help students learn about the fundamentals of materials science including the formation of chemical bonds, the properties of the states of matter, the development and the basic characteristics of the structure of materials, phase diagrams, concepts of rheology, mechanical behavior and simple failure models, deterministic and stochastic fracture mechanics, and the treatment of composites. The construction materials treated in the course will include bricks and stone, metals and alloys, wood and wood products, concrete and other cement-based materials, and asphalt. In recognizing the good materials to be used for the construction work and also in investigation of soil condition, Deciding and design of suitable foundation for different structures. In supervision of different types of masonry. In selection of materials, design and supervision of suitable type of floor and roof. To gain knowledge about doors, windows, plastering, painting, damp proofing, scaffolding, shoring, underpinning and to take suitable engineering measures.



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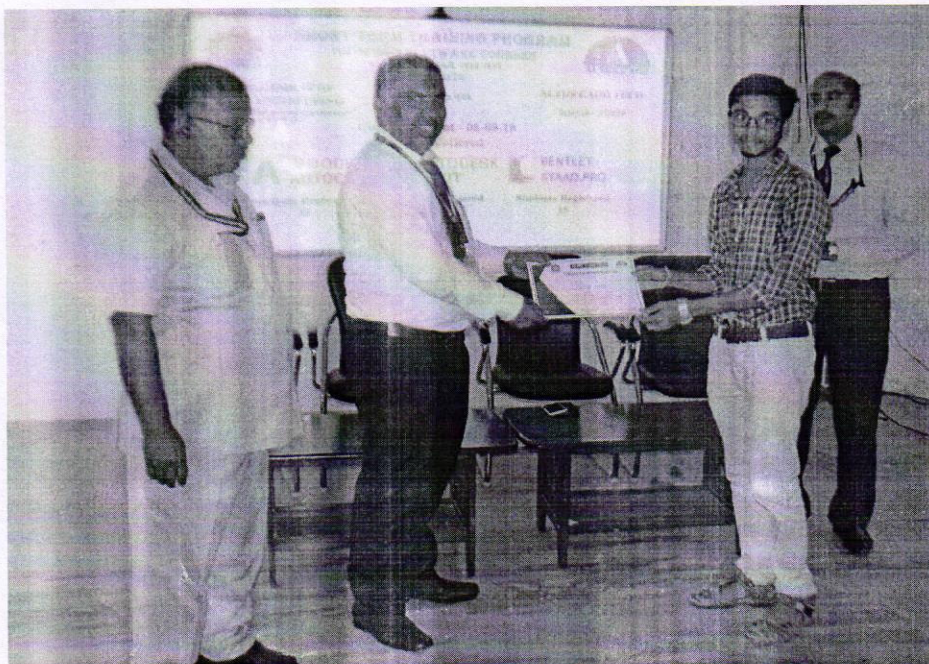
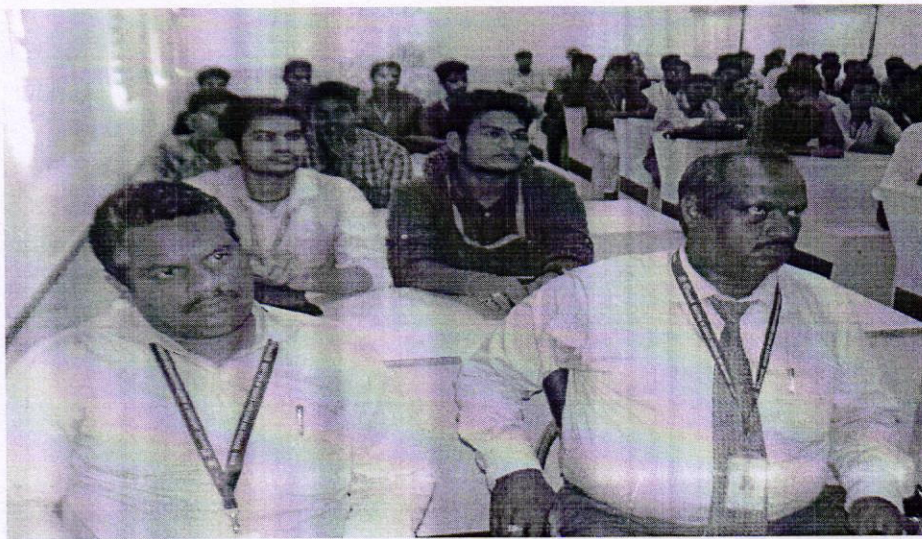
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SCHOOL OF CIVIL & INFRASTRUCTURE ENGINEERING

VALUE ADDED COURSE

BASIC CONSTRUCTION MATERIALS



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NAAC
NATIONAL ASSESSMENT AND
ACCREDITATION COUNCIL



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

CERTIFICATE OF PARTICIPATION

This is to Certify that VIKRAM KUMAR-A, from Bharath Institute of Higher Education and Research, has participated in value added course on '**Basic Construction Material**' presented by **K.Anitha, Assistant Professor**, Organized by School of Civil & Infrastructre Engineering, BIHER from 15.10.2018 To 16.11.2018.


Coordinator



HOD

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: *Basic Construction Materials*

Event Venue: Date: *BIHER, 16/11/2018*

Name of participant: *Sriram P A*

1. How useful did you think this event was for you?

(Please circle the appropriate number where 1 = not at all useful and 5 = extremely useful)

1	2	3	4	5
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2. Value added course is useful and well organized.

YES	NO
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3. Did you receive all the information you required at this Venue?

YES	NO
-----	----

4. Would you like to attend any further Training Courses VAC

YES	NO
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