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/2016 /2 **Date: 10/10/2016**

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 **STRAP SOFTWARE** with the duration of 30 hours (two hour per day) and commences from **17/10/2016** to **7/11/2016**.

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.S.J.MOHAN
Professor / School of Civil and Infrastructure Engineering
Course Coordinator
Bharath Institute of Higher Education & Research.
Email id: mohansjm.civil@bharathuniv.ac.in

HOD/CIVIL

Head of the Department
Department of Civil Engineering
Bharath Institute of Higher Education & Research
(Declared as Deemed to be University U/S 3 of UGC Act, 1956)
Selaiyur, Chennai-600 073. INDIA

SCHOOL OF CIVIL & INFRASTRUCTURE ENGINEERING

VALUE ADDED COURSE - STRAP SOFTWARE

STUDENTS NAME LIST

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		CHANDRA	
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48	U14CE249	JANARDHANAN.P	civiljanacj@gmail.com

Head of the Department
Department of Civil Engineering
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Selaiyur, Chennai-600 073. INDIA

Value Added Course

Scheduling strap software

Content of Syllabus

S.No.	Syllabus Details	No. of Lecture hrs	Time	Date	Lecture name
1	detailed instructions for defining the geometry and loads.	1	10.45 am to 11.45am	17.10.2016	Dr.S.J.Mohan
2	defining the demo models	1	03.00 pm to 04.00 pm	17.10.2016	Dr.S.J.Mohan
3	defining new models	1	10.45 am to 11.45am	18.10.2016	Dr.S.J.Mohan
4	list of demo models	1	03.00 pm to 04.00 pm	18.10.2016	Dr.S.J.Mohan
5	Define the plane frame using a model wizard.	1	10.45 am to 11.45am	19.10.2016	Dr.S.J.Mohan
6	worked example for plane frame	1	03.00 pm to 04.00 pm	19.10.2016	Dr.S.J.Mohan
7	define the grid of finite elements	1	10.45 am to 11.45am	20.10.2016	Dr.S.J.Mohan
8	define the following gradually refined mesh	1	03.00 pm to 04.00 pm	20.10.2016	Dr.S.J.Mohan
9	define the following space structure	1	10.45 am to 11.45am	21.10.2016	Dr.S.J.Mohan
10	Define the following steel and concrete spaces frame. this model uses the following options, cylindrical coordinate system, rotated local axes	1	03.00 pm to 04.00 pm	21.10.2016	Dr.S.J.Mohan
11	define the geometry of the following 10-storey building that includes four walls extending the full height of the structure	1	10.45 am to 11.45am	24.10.2016	Dr.S.J.Mohan
12	define the dome shell shown in the figure below using either of two options: equations	1	03.00 pm to 04.00 pm	24.10.2016	Dr.S.J.Mohan
13	Define the multi-story building using the sub model option.	1	10.45 am to 11.45am	25.10.2016	Dr.S.J.Mohan

14	this demonstrates how to define a sub model and add it to the main model	1	03.00 pm to 04.00 pm	25.10.2016	Dr.S.J.Mohan
15	in this demo we will create the following load cases for the frame defined in	1	10.45 am to 11.45am	26.10.2016	Dr.S.J.Mohan
16	Plane grid defined in plane grid - mesh, display graphic results for finite elements.	1	03.00 pm to 04.00 pm	26.10.2016	Dr.S.J.Mohan
17	display beam results for the plane frame defined in plane frame - 1 and chess loads	1	10.45 am to 11.45am	27.10.2016	Dr.S.J.Mohan
18	the model geometry as defined in *strap* does not provide sufficient information for the steel module to carry out an accurate design.	1	03.00 pm to 04.00 pm	27.10.2016	Dr.S.J.Mohan
19	this demo demonstrates the definition and design of a structure fabricated from cold-formed (light gauge) steel sections	1	10.45 am to 11.45am	28.10.2016	Dr.S.J.Mohan
20	design the following steel beam with profiled steel deck and concrete slab:	1	03.00 pm to 04.00 pm	28.10.2016	Dr.S.J.Mohan
21	design the beams and columns of the frame shown in figure below and create a column schedule	1	10.45 am to 11.45am	1.11.2016	Dr.S.J.Mohan
22	design the reinforcement in a typical concrete floor slab:	1	03.00 pm to 04.00 pm	1.11.2016	Dr.S.J.Mohan
23	this example demonstrates how to design a column with an arbitrary cross-section defined by the user.	1	10.45 am to 11.45am	2.11.2016	Dr.S.J.Mohan
24	concrete slab - deflection	1	03.00 pm to 04.00 pm	2.11.2016	Dr.S.J.Mohan
25	define dead and live service loads in separate	1	10.45 am to 11.45am	3.11.2016	Dr.S.J.Mohan
26	dynamic analysis - wall elements	1	03.00 pm to 04.00 pm	3.11.2016	Dr.S.J.Mohan
27	dynamic - seismic analysis	1	10.45 am to 11.45am	4.11.2016	Dr.S.J.Mohan
28	dynamic - time-history	1	03.00 pm to 04.00 pm	4.11.2016	Dr.S.J.Mohan

29	steel - connections	1	10.45 am to 11.45am	7.11.2016	Dr.S.J.Mohan
30	bridge design - lanes	1	03.00 pm to 04.00 pm	7.11.2016	Dr.S.J.Mohan

HOD

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Bharath
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
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Topic: Strap Software

Type of Course: value added course / UG

School of Civil and infrastructure Engineering

Pre-Requisites: Staad. Pro

Course Duration: 30 hours (17 Oct.' 2016)

Intended Audience: Civil Engineering Students

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

Coordinators: Dr. S.J.Mohan & S. Thendral

Objective:

a) To learn the analysis and drawing of RCC framed structures by using STRAP software

b) To study the analysis and drawing of plane and space truss by using STRAP software

c) To study the analysis and drawing of Multi-Storey Frame Buildings by using STRAP software

COURSE OUTLINE:

STRAP is a structural analysis and design software which is widely used to analyze and design structures for bridges, towers, buildings, transportation, industrial and utility structures. The software has now its latest version used with new and improved features. The STRAP can now analyze and design any engineering structure.

STRAP is a product of Computers and Structures Inc. It is engineering software that is used in construction. It has highly efficient structure analysis and design programs developed for catering to multi-story building systems. It is loaded with an integrated system consisting of modeling tools and templates, code-based load prescriptions, analysis methods, and solution techniques. It can handle the largest and most complex building models and associated configurations. STRAP software is embedded with CAD-like drawing tools with an object-based interface and grid representation. It is software used in construction. It analyses and assesses seismic performance and checks the load-bearing capacity of building structures, using this software, you can view and manipulate the analytical model with great accuracy. Plans and elevation views are auto-generated at every grid line. STRAP software is used for the analysis of concrete shear walls and concrete moment frames. It is highly acclaimed for static and dynamic analysis of multi-storey frame and shear wall buildings. It is the most popular civil designing tools used in the building industry and increases the productivity of structural engineers. It also prevents the investment of unnecessary time and money in general-purpose programs. The input, output and numerical solution techniques of STRAP are particularly designed to take an upper hand of the unique physical and numerical characteristics associated with building type structures. As a result, this analysis and design tool accelerates data preparation, output interpretation, and overall execution

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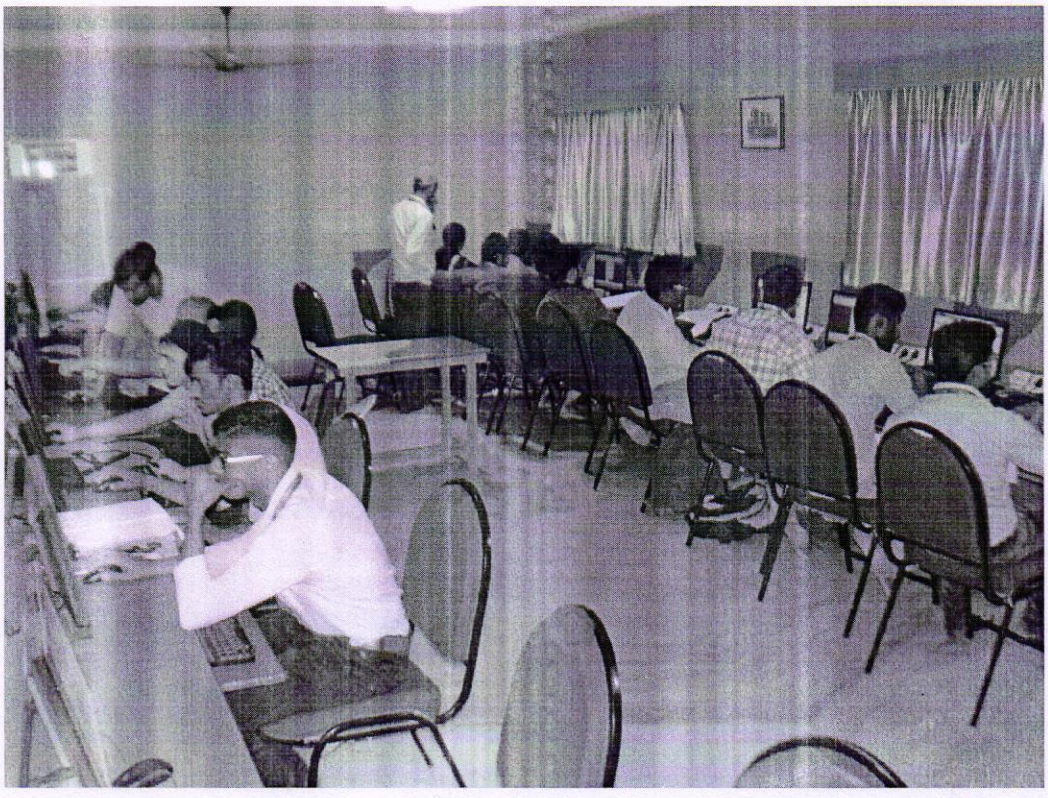
SCHOOL OF CIVIL & INFRASTRUCTURE ENGINEERING

VALUE ADDED COURSE - STRAP SOFTWARE

Date: 17.10.2016 **Year/Sem: III /V**



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A GRADE NAAC NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

Bharath Institute of Higher Education and Research

CERTIFICATE OF participation

This is to Certify that SATHISH KUMAR. S, **Bharath Institute of Higher Education and Research**, has participated in value added course on " **STRAP software**" presented by **Dr. S.J.Mohan, Professor, School of Civil & Infrastructure Engineering, BIHER** Organized by School of Civil & Infrastructure Engineering, Bharath Institute of Science & Technology, BIHER from **17/10/2016** to **7/11/2016**

Coordinator

HOD

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

VALUE ADDED COURSE

Feedback Form

Event Name: MIDAS STRAP SOFTWARE

Event Venue: Date: 17/10/2016

Name of participant: CHANDRA

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

1 2 3 4 5 ✓

2. Describe what topic is good.

good

3. What aspects of the course we improve.

More topic need to cover

4. What else would you like to see added.

Very Useful Course,

Head of the Department
Department of Civil Engineering
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Ref: BIHER/BIST/Civil//Spl/2016 **Date: 12/11/2016**

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 **Basics of Interior and Decoration** with the duration of 30 hours (Two hour per day) and commences from **24/11/2016 to 14/12/2016**.

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:

Ms.R.Chitra
Assistant Professor / School of Civil and Infrastructure Engineering.,
Course Coordinator
Bharath Institute of Higher Education & Research.
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HOD

Head of the Department
Department of Civil Engineering
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SCHOOL OF CIVIL & INFRASTRUCTURE ENGINEERING

VALUE ADDED COURSE - BASICS OF INTERIOR AND DECORATION

STUDENTS NAME LIST

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Head of the Department
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Value Added Course

BASICS OF INTERIOR AND DECORATION

Content of Syllabus

S.No.	Syllabus Details	No. of Lecture hrs	Time	Date	Lecture name
1	Designs involving various elements such as point, line.	1	10.45 am to 11.45am	24.10.16	Ms.R.Chitra
2	Shape, colour and texture.	1	03.00 pm to 04.00 pm	24.10.16	Ms.R.Chitra
3	Applied to compositions such as mural design.	1	10.45 am to 11.45am	25.10.16	Ms.R.Chitra
4	Fabric design, mosaics.	1	03.00 pm to 04.00 pm	25.10.16	Ms.R.Chitra
5	Stained glass, engraving, block printing, collage etc.	1	10.45 am to 11.45am	25.11016	Ms.R.Chitra
6	Involving all the principles of composition.	1	03.00 pm to 04.00 pm	26.10.16	Ms.R.Chitra
7	3D sculptures involving platonic solids.	1	10.45 am to 11.45am	26.10.16	Ms.R.Chitra
8	Wooden sculptures applying different types of carpentry joints.	1	03.00 pm to 04.00 pm	27.10.16	Ms.R.Chitra
9	Execution of POP made.	1	10.45 am to 11.45am	27.10.16	Ms.R.Chitra
10	Objects such as: cornices, moldings, brackets, etc.	1	03.00 pm to 04.00 pm	31.10.16	Ms.R.Chitra
11	Metal and terracotta sculptures.	1	10.45 am to 11.45am	31.10.16	Ms.R.Chitra
12	**Design** –Definition, meaning,	1	03.00 pm to 04.00 pm	1.11.16	Ms.R.Chitra
13	Purpose.	1	10.45 am to 11.45am	1.11.16	Ms.R.Chitra
14	Types.	1	03.00 pm to 04.00 pm	2.11.16	Ms.R.Chitra
15	Structurals.	1	10.45 am to 11.45am	2.11.16	Ms.R.Chitra
16	Decorative characteristics.	1	03.00 pm to 04.00 pm	3.11.16	Ms.R.Chitra
17	Classification of decorative design.	1	10.45 am to 11.45am	3.11.16	Ms.R.Chitra

18	Naturalistic, conventional	1	03.00 pm to 04.00 pm	4.11.16	Ms.R.Chitra
19	Geometric.	1	10.45 am to 11.45am	4.11.16	Ms.R.Chitra
20	Abstract.	1	03.00 pm to 04.00 pm	7.11.16	Ms.R.Chitra
21	Historic biomorphic.	1	10.45 am to 11.45am	7.11.16	Ms.R.Chitra
22	Study and analysis of forms.	1	03.00 pm to 04.00 pm	8.11.16	Ms.R.Chitra
23	Patterns.	1	10.45 am to 11.45am	8.11.16	Ms.R.Chitra
24	Colour schemes in nature.	1	03.00 pm to 04.00 pm	9.11.16	Ms.R.Chitra
25	Abstraction of natural forms and design.	1	10.45 am to 11.45am	9.11.16	Ms.R.Chitra
26	Three-dimensional objects.	1	03.00 pm to 04.00 pm	10.11.16	Ms.R.Chitra
27	Two-dimensional patterns inspired by them.	1	10.45 am to 11.45am	10.11.16	Ms.R.Chitra
28	Study and critical analysis of man-made objects.	1	03.00 pm to 04.00 pm	11.11.16	Ms.R.Chitra
29	Perpose, functional suitability, formal appeal, etc.	1	10.45 am to 11.45am	11.11.16	Ms.R.Chitra
30	Evolving suggestions for improvement of the same.	1	03.00 pm to 04.00 pm	14.11.16	Ms.R.Chitra

HOD

Head of the Department
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Topic: Basics of Interior and Decoration

Type of Course: value added course / UG

Department of school of Civil and infrastructure Engineering

Pre-Requisites: Building Materials

Course Duration: 30 hours (24 Oct ' 2016)

Intended Audience: Civil Engineering Students

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

Coordinators: Ms.R.Chitra

Objective:

a) Understanding various design principles such as emphasis, balance, contrast, Harmony, Unity etc., and applying them in two-dimensional and three-dimensional compositions

b) To learn the importance of art element, principles and their applications in the creation of new design.

c) Understanding and applying design elements such as Point, Line, shape, color, texture, area, mass, volume etc.

d) Critical analysis of design of existing manmade objects, aiding self-criticism of design. • Drawing inspiration from nature as a source for design

COURSE OUTLINE:

Interior design is an exciting profession that not only requires designers to be able to think creatively, but also to problem-solve. Interior designers are responsible for creating an environment for a structure, which may include a single-family home, government office, corporate headquarters, and everything in between

In order to create an interior environment, designers need to think about the form and functionality of the space. The form refers to the look and feel. The functionality refers to how they space will be practically used. In order to effectively blend form and functionality, designers need to rely upon many resources, guidelines, and professionals.

Interior designers often tend to be interior decorators. After all, designers are often responsible for all aspects of a project, including the design, development, and finishing touches. However, interior decorators may not necessarily be interior designers; designers need to have more in-depth knowledge than decorators.

While many interior designers are also decorators, designers do not generally take on other professional roles, such as plumber, carpenter, electrician, or otherwise. Therefore, designers must work closely with many other industry professionals.

Interior designers also have the liberty to be self-employed or to work with a firm. Either way, there are some business skills and best practices that every interior designer should use in order to be successful.

This course is designed to teach you how to be an interior designer by focusing on interior design from a macro level. If you decide to pursue an interior design career after reading about everything that will be required of you if you choose to pursue a career in interior design, then you will spend years learning the minute details that are essential to creating a successful design.

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SCHOOL OF CIVIL & INFRASTRUCTURE ENGINEERING

VALUE ADDED COURSE - BASICS OF INTERIOR AND DECORATION

Date: 24.11.2016 **Year/Sem: II /III**

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BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

CERTIFICATE OF PARTICIPATION

This is to Certify that Arun. k., from Bharath Institute of Higher Education and Research, has participated in value added course on **'Basics of Interior and Decoration'** presented by **Ms.R.Chitra., Assistant Professor,** Organized by School of Civil & Infrastructure Engineering, Bharath Institute of Science & Technology, BIHER from 24.11.2016 To 14.12.2016.

Coordinator

HOD

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

VALUE ADDED COURSE

Feedback Form

Event Name: Basics of Interior and Decoration

Event Venue: Date: 24/11/2016

Name of participant: Arunk.

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 ✓

2. Value added course is useful and well organized.

YES ✓	NO

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

Head of the Department
Department of Civil Engineering
Bharath Institute of Higher Education & Research
(Declared as Deemed to be University U/S 3 of UGC Act, 1956)
Selaiyur, Chennai-600 073. INDIA

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/2016 **Date: 29/08/2016**

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 **Professional Training on cement and concrete** with the duration of 30 hours (Two hour per day) and commences from **12/09/2016 to 03/10/2016**.

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 Department
Department of Civil Engineering
Bharath Institute of Higher Education & Research
(Declared as Deemed to be University U/S 3 of UGC Act, 1956)
Selaiyur, Chennai-600 073. INDIA

Value Added Course

Professional Training on cement and concrete

Students name list

s.no	Reg.no	Name	e- mail
1	U14CE129	D. NARESH	nareshlayer@gmail.com
2	U14CE130	NARISETTY RAGHU VARMA	raghuvarma4646@gmail.com
3	U14CE131	NEHA BHARTI	neha.bharati20@gmail.com
4	U14CE132	NOORUL AMEEN .S	nuameen444@gmail.com
5	U14CE133	OM KUMAR	omkumar1004.9@gmail.com
6	U14CE134	ONKAR NATH SINGH	omkaroms@gmail.com
7	U14CE135	OSAR JERANG	Brbetamjerang@gmail.com
8	U14CE136	PAMULA PRANAI	pranai810@gmail.com
9	U14CE137	PANABAKAM VENU SAI REDDY	dush.panabakkam@gmail.com
10	U14CE138	PANDIYAN .B	pandiyan1994@gmail.com
11	U14CE139	PIPALDE NONGSIEJ	pipal.nong123@gmail.com
12	U14CE140	PODAPATI RAJASEKHAR	podapatirajasekhar.p@gmail.com
13	U14CE141	PRADEEP.K	pradeeppvgr123@gmail.com
14	U14CE142	PRAGALLAPATI KISHORE	kishorekrish949@gmail.com
15	U14CE143	PRAMOD KUMAR REDDY.R	rajupramodreddy@gmail.com
16	U14CE144	PRASANTH.S.	prasanths@gmail.com
17	U14CE145	PRATHAP RAJ.M	pratapraj45@gmail.com
18	U14CE146	PRATHYSWARAN.B	prathyswaran05@gmail.com
19	U14CE147	PRAVIN KUMAR SINGH	pk975442@gmail.com
20	U14CE148	PRIYANKA.K	pinky.kale29@gmail.com
21	U14CE149	PUSHPENDRA PUSHKAR	ppushkar022@gmail.com
22	U14CE150	RAGHU.R	raghuvinovr@gmail.com
23	U14CE151	RAGHUL .S	raghulsden@gmail.com
24	U14CE152	RAGINEEDI VARA KRISHNA	varakrishnarageneedi@gmail.com
25	U14CE153	RAHUL BATRA	rahulbatraforever@gmail.com
26	U14CE154	RAHUL KUMAR SINGH	yo.rk835@gmail.com
27	U14CE155	RAJEETH.R	rajeethsam@gmail.com
28	U14CE156	RAJESH.S	rajeshrois77@gmail.com
29	U14CE157	RAJKUMAR.S	rajkumarpass@gmail.com
30	U14CE158	RAM PRABHU.P.S	ramcivil51096@gmail.com
31	U14CE159	RAM PRASATH T.	prasantht1996@gmail.com
32	U14CE160	RAMCHANDRA VERMA	vermaramcivil@gmail.com
33	U14CE161	RAMESH KUMAR RAM	rajeshkumarte@gmail.com
34	U14CE162	RAMESH.B	rummy4278@gmail.com
35	U14CE163	RATHINAKUMAR.R	rathnakumar454@gmail.com
36	U14CE164	RATHNAM.A.V.R	avrrathnam@gmail.com
37	U14CE165	RAVI SHANKAR MAHTO	rvishnkr07@gmail.com
38	U14CE166	RICHANMI LAMARE	richamilam17@gmail.com
39	U14CE167	RIMITRE THMA	rimitre11@gmail.com
40	U14CE168	RITESH PAL SINGH	riteshpalsingh003@gmail.com
41	U14CE169	ROBIN SMITH .A	robinsmith.sa@gmail.com
42	U14CE170	KSHETRIMAYUM ROGER SINGH	roger.kshetri@gmail.com
43	U14CE171	ROHIT CHOUDHARY	rohicell2016@gmail.com
44	U14CE172	ROPEN THIYAM	ropenth@gmail.com
45	U14CE173	RUCHI KUMARI	ruchik374@gmail.com

46	U14CE174	SACHIN JERANG	sachinjerang@gmail.com
47	U14CE175	SACHIN K.A	sachin55311@yahoo.com
48	U14CE176	SAMUEL EBENEZER .M	samuelebenezer290696@gmail.com
49	U14CE177	SANGANA PARAMESWARA REDDY	spreddy745@gmail.com
50	U14CE178	CH SANGITHA	sangitha.rekha@gmail.com
51	U14CE179	SANTHOSH PANDIYAN .K	sandysanthosh476@gmail.com
52	U14CE180	SANU KUMAR	ssrt9431@gmail.com
53	U14CE181	SARAVANAN .M	saravanansasik@gmail.com
54	U14CE182	SARAVANA .E	saravanadinda1997@gmail.com
55	U14CE183	SARAVANAN .P	civilsaravana1122@gmail.com
56	U14CE184	SARVESH SHRIVASTAVA	sarvesh.shrivastava24@gmail.com
57	U14CE185	SATHISH .K	sathishk4060@gmail.com
58	U14CE186	SATHISH .M	sathishlakshmi1996@gmail.com

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

Value Added Course

Professional Training on cement and concrete

Content of Syllabus

S.No.	Syllabus Details	No. of Lecture hrs	Time	Date	Lecture name
1	Basic Concepts on Cement and Concrete	2	10.00am to 12.00am	12.09.16	K.Kiruthiga
2	Cement Production and Composition, Cement chemistry	2	10.00am to 12.00am	14.09.16	K.Kiruthiga
3	Aggregates for concrete	2	10.00am to 12.00am	15.09.16	K.Kiruthiga
4	Chemical and Mineral admixtures	2	10.00am to 12.00am	16.09.16	K.Kiruthiga
5	Aggregates for concrete, Mix Design			19.09.16	
6	Fresh Concrete, Hardened Concrete	2	10.00am to 12.00am	20.09.16	K.Kiruthiga
7	Creep and Shrinkage	2	10.00am to 12.00am	21.09.16	K.Kiruthiga
8	Durability of concrete	2	10.00am to 12.00am	22.09.16	K.Kiruthiga
9	Introduction on special concretes	2	10.00am to 12.00am	23.09.16	K.Kiruthiga
10	Concreting in cold and hot weather, Self-compacting and fiber reinforced concretes	2	10.00am to 12.00am	26.09.16	K.Kiruthiga
11	Basic understanding of high strength concrete, mass concrete and shotcrete	2	10.00am to 12.00am	27.09.16	K.Kiruthiga
12	Handling preplaced aggregate concrete and light weight aggregate concrete	2	10.00am to 12.00am	28.09.16	K.Kiruthiga
13	Underwater anti-washout concrete; micro-concrete	2	10.00am to 12.00am	29.09.16	K.Kiruthiga
14	Expansive concrete, roller compacted concrete, concrete using recycled aggregate	2	10.00am to 12.00am	30.09.16	K.Kiruthiga
15	Concreting Operations	2	10.00am to 12.00am	03.10.16	K.Kiruthiga

HOD

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Bharath
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
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Topic: Professional Training on cement and concrete

Type of Course: Value added course / UG

School of Civil and infrastructure Engineering

Pre-Requisites: Concrete Technology

Course Duration: 30 hours (12 Sep' 16)

Intended Audience: Civil Engineering Students

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

Coordinators: K.Kiruthiga

Objective:

1) This course explains how some commonly used special concretes have been developed and how they are used in different conditions.

2) The course seeks to present a unified view of concrete materials, construction methods and construction environment and examine the matter on parameters such as quality control methods.

COURSE OUTLINE:

This course broadly encompasses the study of properties of ingredients of concrete, design of concrete mix, production of concrete and various concreting operations. Cementing material is the vital component of the concrete, hence study of process of manufacturing of cement, types of cement and their properties are covered in this course. Study of properties of aggregates and water also finds their due coverage in the course. Process of concrete production and concreting operations also forms an essential component of the course. In addition to the study of special purpose concretes, the course also provides the due coverage of admixtures which are added to modify the properties of concrete. Properties of concrete in plastic as well as in hardened stage find its due coverage in this course. The course aims at imparting knowledge and skill to supervise concreting operations involving proportioning, mixing, transporting, placing, compacting, finishing and curing of concrete.

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Value Added Course

Professional Training on cement and concrete

Bharath
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
DEEMED-TO-BE UNIVERSITY

A GRADE NAAC NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

Bharath Institute of Higher Education and Research

CERTIFICATE OF participation

This is to Certify that SATHISH. M, from Bharath Institute of Higher Education and Research, has participated in value added course on '**Professional training on Cement and Concrete**' presented by **Mrs.K.Kiruthiga., Assistant Professor,** Organized by School of Civil & Infrastructure Engineering, BIHER from 12.09.2016 to 03.10.2016.

K. K
Coordinator

HOD

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

VALUE ADDED COURSE

Feedback Form

Event Name: Professional training on Cement and Concrete

Event Venue: Date: 3/10/16

Name of participant: Raghu. 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.

Special concrete.

3. What aspects of the course we improve.

Nil.

4. What else would you like to see added.

Program dates can be extended

Head of the Department
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Ref: BIHER/BIST/Civil//Spl/2017 **Date: 05/04/2017**

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 **Analysis and Design of bridges using MIDAS Civil** with the duration of 30 hours (Two hour per day) and commences from **15/04/2017 to 19/05/2017**.

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:

Ms.K.Anitha
Assistant Professor / School of Civil and Infrastructure Engineering.,
Course Coordinator
Bharath Institute of Higher Education & Research.
Email id: anitha.civil@bharathuniv.ac.in

HOD

Head of the Department
Department of Civil Engineering
Bharath Institute of Higher Education & Research
(Declared as Deemed to be University U/S 3 of UGC Act, 1956)
Selaiyur, Chennai-600 073. INDIA

SCHOOL OF CIVIL & INFRASTRUCTURE ENGINEERING

VALUE ADDED COURSE –

CERTIFICATE PROGRAM IN FIRE AND SAFETY

STUDENTS NAME LIST

Sl.NO	Reg No	Name of the students	E-Mail ID
1	U14CE001	ABHIJEET KUMAR SINGH	singhbhije21kumar@gmail.com
2	U14CE002	ABISHEK RAJ.B	abishekraj364@gmail.com
3	U14CE003	ADHULAPURI. SAI .NIVEDHITHA	nivedhitha1615@gmail.com
4	U14CE004	ADIL ABASS LONE	aadilabassi@gmail.com
5	U14CE005	AJAN .A	ajanalby10@gmail.com
6	U14CE006	AJAS AHAMED .N	ajasahamed932@gmail.com
7	U14CE007	AJITHKUMAR. L	skpl.ajith@gmail.com
8	U14CE008	AJITH KUMAR.R	ajith7401258905@gmail.com
9	U14CE009	AJITH KUMARAPPAN .K	ajithkrish9092@gmail.com
10	U14CE010	AKEPATI DEEPA	deepareddy1067@gmail.com
11	U14CE011	ALAGURAJA. CH	chellaiahalaguraja18@gmail.com
12	U14CE012	ALTHAF .S	althafking1996@icloud.com
13	U14CE013	AMAN MISRA	amanm543@gmail.com
14	U14CE015	ANKIT BOSE	ankit007bose@gamil.com
15	U14CE018	GUNDAVARAPU ARAVIND	gundavarapuaravind123@gmail.com
16	U14CE019	ARISH .S	arish_student@ymail.com
17	U14CE020	ARUMUGA RAM KUMAR.P	ram71771@gmail.com
18	U14CE021	ARUN .K	arunkumaran2219@gmail.com
19	U14CE022	ARUNRAJ.V	arunj6@gmail.com
20	U14CE023	ASHISH KUMAR	asishsinghu14@gmail.com
21	U14CE024	ASHMIT KUMAR	ashmitkumar074@gmail.com
22	U14CE025	ASHWIN .M	ashwinash45758@gmail.com
23	U14CE026	ASWINN KUMAR.S	aswinnleo@gmail.com
24	U14CE027	AVINASH KUMAR	avinash.kbu97@gmail.com

Sl.NO	Reg No	Name of the students	E-Mail ID
25	U14CE028	AVINASH. A. M.	avinashmainm@gmail.com
26	U14CE029	BABBURI MANIKANTA KUMAR	babburimanikanta@gmail.com
27	U14CE030	BALA GURU.N	hezronbala@gmail.com
28	U14CE031	BAMMIDI DHILEEP	dhileepbammidi@gmail.com
29	U14CE032	BANOTH KALYAN KUMAR	banothkalyan16@gmail.com
30	U14CE033	BHARATH BALAJI.P	bharath.balaji595@gmail.com

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

Value Added Course

Certificate Program in Fire and Safety

S.No.	Syllabus Details	No. of Lecture hrs	Time	Date	Lecture name
1	History of bridge-building	1	03.00 pm to 04.00 pm	15.04.17	Ms.K.Anitha
2	types of bridges	1	03.00 pm to 04.00 pm	17.04.17	Ms.K.Anitha
3	Materials for modern bridges	1	03.00 pm to 04.00 pm	18.04.17	Ms.K.Anitha
4	Loads on bridges	1	03.00 pm to 04.00 pm	19.04.17	Ms.K.Anitha
5	standard truck and lane loading	1	03.00 pm to 04.00 pm	20.04.17	Ms.K.Anitha
6	Impact loads	1	03.00 pm to 04.00 pm	21.04.17	Ms.K.Anitha
7	Longitudinal and centrifugal forces: Wind and seismic loads	1	03.00 pm to 04.00 pm	22.04.17	Ms.K.Anitha
8	Thermal loads	1	03.00 pm to 04.00 pm	24.04.17	Ms.M.Hemapriya
9	Serviceability criteria	1	03.00 pm to 04.00 pm	25.04.17	Ms.M.Hemapriya
10	deflection and fatigue	1	03.00 pm to 04.00 pm	26.04.17	Ms.M.Hemapriya
11	Reinforced Concrete Bridges	1	03.00 pm to 04.00 pm	27.04.17	Ms.M.Hemapriya
12	Slab bridges	1	03.00 pm to 04.00 pm	28.04.17	Ms.M.Hemapriya
13	longitudinally reinforced bridges	1	03.00 pm to 04.00 pm	29.04.17	Ms.M.Hemapriya
14	Concrete Slab-Steel Stringer Bridge Design	1	03.00 pm to 04.00 pm	01.05.17	Ms.M.Hemapriya
15	Non-composite vs Composite Design	1	03.00 pm to 04.00 pm	02.05.17	Ms.M.Hemapriya
16	T-Beam. Design Aids	1	03.00 pm to 04.00 pm	03.05.17	Ms.M.Hemapriya
17	Plate Girder Bridges	1	03.00 pm to 04.00 pm	04.05.17	Ms.M.Hemapriya
18	Prestressed Concrete Bridges	1	03.00 pm to 04.00 pm	05.05.17	Ms.M.Hemapriya

19	Box girder bridges	1	03.00 pm to 04.00 pm	06.05.17	Ms.M.Hemapriya
20	Optimum Bridge Proportioning	1	03.00 pm to 04.00 pm	08.05.17	Ms.K.Anitha
21	Bridge Aesthetics	1	03.00 pm to 04.00 pm	09.05.17	Ms.K.Anitha
22	Inspection, Rehabilitation	1	03.00 pm to 04.00 pm	10.05.17	Ms.K.Anitha
23	Design methodologies,	1	03.00 pm to 04.00 pm	11.05.17	Ms.K.Anitha
24	Choices of superstructure types: Orthotropic plate theory, load distribution techniques. Grillage analysis	1	03.00 pm to 04.00 pm	12.05.17	Ms.K.Anitha
25	Transverse Analysis of Bridge: Slab bridge and voided slab bridge. Beam-Slab bridge: Box Girder Bridge.	1	03.00 pm to 04.00 pm	13.05.17	Ms.K.Anitha
26	Slab bridge, Box Girder Bridge.	1	03.00 pm to 04.00 pm	15.05.17	Ms.K.Anitha
27	Beam-Slab bridge: Box Girder Bridge.	1	03.00 pm to 04.00 pm	16.05.17	Ms.K.Anitha
28	Temperature analysis, Distortional analysis	1	03.00 pm to 04.00 pm	17.05.17	Ms.K.Anitha
29	Design of bearings and joints. Parapets and Railings for Highway Bridges:	1	03.00 pm to 04.00 pm	18.05.17	Ms.K.Anitha
30	Classification of Highway Bridge parapets, Various Details. Bridge Type: Suspension bridges and cable stayed bridges.	1	03.00 pm to 04.00 pm	19.05.17	Ms.K.Anitha

HOD

Head of the Department
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Topic: **Analysis and Design of Bridges Using MIDAS Civil**

Type of Course: value added course / UG

School of Civil and infrastructure Engineering

Pre-Requisites: Design of Reinforced Concrete Structures

Course Duration: 30 hours (15 Apr' 17)

Intended Audience: Civil Engineering Students

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

Coordinator: Ms.K.Anitha & Ms.M.Hemapriya

Objective:

a) Identify bridge types and bridge components.
b) Perform preliminary bridge design; including determining the bridge width, elevation, length, abutment and pier locations, type of superstructure and substructure and approximate construction cost.
c) Design a reinforced concrete deck.
d) Design a pre-tensioned reinforced concrete bridge girder. Design a steel girder acting compositely with the slab.

COURSE OUTLINE:

Introduction to history of bridge-building, including types of bridges, aesthetics, and materials for modern bridges; Loadings on bridges including standard truck and lane loading, impact loads, longitudinal and centrifugal forces, wind and seismic loads, thermal loads; Serviceability criteria including deflection and fatigue; Design of reinforced concrete bridges, slab bridges, concrete slab with steel stringer bridges, T-beam or plate girder bridges, box girder bridges, and prestressed concrete bridges; Bridge maintenance including inspection and rehabilitation.

Standard Loading for Bridge Design as per different codes: Road Bridges: Study of IRC, BS code, AASHTO code on Dead load, Live load, Impact factor, Centrifugal force, Wind loads, Hydraulic forces, Longitudinal forces, Seismic forces, Earth pressure. Buoyancy force. Lane concept, equivalent loads, traffic load. Width of Roadway and Footway. Influence lines for statically determinate structures, I.L. for statically indeterminate structures. Transverse distribution of Live loads among deck longitudinals. Load combinations for different working state and limit state designs. Railway Bridges: Loadings for Railway Bridges, Railroad data. Pre-design considerations, Railroad vs. Highway bridges. Superstructures: Selection of main bridge parameters,

Design methodologies, Choices of superstructure types: Orthotropic plate theory, load distribution techniques. Grillage analysis: Finite element analysis(Preferable), Different types of superstructure (RCC and PSC), Longitudinal Analysis of Bridge. Slab bridge and voided slab bridge, Beam-Slab bridge, Box Girder Bridge. Transverse Analysis of Bridge: Slab bridge and voided slab bridge. Beam-Slab bridge: Box Girder Bridge. Temperature analysis, Distortional analysis, Effects of differential settlement of supports. Reinforced earth structures. Slab Bridge, Slab-Girder Bridge(Straight/Skew). Box Girder Bridge (Straight/ Skew). Bearings and Deck Joints: Different types of bridge bearings and expansion joints, Design of bearings and joints. Parapets and Railings for Highway Bridges: Definitions, Classification of Highway Bridge parapets, Various Details. Bridge Type: Suspension bridges and cable stayed bridges.

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SCHOOL OF CIVIL & INFRASTRUCTURE ENGINEERING

VALUE ADDED COURSE – ANALYSIS AND DESIGN OF BRIDGES USING MIDAS CIVIL

Date: 15.04.2017 **Year/Sem: III /V**

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BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

CERTIFICATE OF PARTICIPATION

This is to Certify that ARISH . S, from Bharath Institute of Higher Education and Research, has participated in value added course on '**Analysis and Design of bridges using MIDAS Civil'** presented by **Ms.K.Anitha., Assistant Professor,** Organized by School of Civil & Infrastructure Engineering, Bharath Institute of Science & Technology, BIHER from 15.04.2017 To 19.05.2017.

Coordinator

HOD

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

VALUE ADDED COURSE

Feedback Form

Event Name: Analysis & design of bridges using MIDAS Civil

Event Venue: Date: 15/04/2017

Name of participant: Arish. S

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

2. Value added course is useful and well organized.

(YES)	NO

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

Head of the Department
Department of Civil Engineering
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Ref: BIHER/BIST/Civil//Spl/2017 **Date: 16/05/2017**

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 **Foundation Course on Disaster Management** with the duration of 30 hours (Two hours per day) and commences from **06/06/2017 to 24/06/2017**.

Eligibility: Course is open for UG Students for Department of 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:

Mr. P. Dayakar
Associate Professor
Bharath Institute of Higher Education & Research.
Email id: dayakar.civil@bharathuniv.ac.in

HOD

Head of the Department
Department of Civil Engineering
Bharath Institute of Higher Education & Research
(Declared as Deemed to be University U/S 3 of UGC Act, 1956)
Selaiyur, Chennai-600 073. INDIA

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.

Value Added Course

Foundation Course on Disaster Management

Students name list

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60	U14CE106	G HARISH KUMAR REDDY	gangireddyharish@gmail.com

Head of the Department
Department of Civil Engineering
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Value Added Course

Foundation Course on Disaster Management

Content of Syllabus

S.No.	Syllabus Details	No. of Lecture hrs	Time	Date	Lecture name
1	Introduction to Disasters	1	10.45 am to 11.45am	06.06.17	Mr.P.Dayakar
2	Concepts, and definitions (Disaster, Hazard, Vulnerability, Resilience, Risks)	1	03.00 pm to 04.00 pm	06.06.17	Mr.P.Dayakar
3	Disasters: Classification,	1	10.45 am to 11.45am	07.06.17	Mr.P.Dayakar
4	Disasters: Causes, Impacts	1	03.00 pm to 04.00 pm	07.06.17	Mr.P.Dayakar
5	Differential impacts-in terms of caste, class, gender, age, location, disability.	1	10.45 am to 11.45am	08.06.17	Mr.P.Dayakar
6	Differential impacts-in terms of caste, class, gender, age, location, disability.	1	03.00 pm to 04.00 pm	08.06.17	Mr.P.Dayakar
7	Global trends in disasters urban disasters, pandemics,	1	10.45 am to 11.45am	09.06.17	Mr.P.Dayakar
8	Complex emergencies, Climate change.	1	03.00 pm to 04.00 pm	09.06.17	Mr.P.Dayakar
9	Approaches to Disaster Risk Reduction	1	10.45 am to 11.45am	12.06.17	Mr.P.Dayakar
10	Approaches to Disaster Risk Reduction	1	03.00 pm to 04.00 pm	12.06.17	Mr.P.Dayakar
11	Disaster cycle- its analysis	1	10.45 am to 11.45am	13.06.17	Mr.P.Dayakar
12	prevention, mitigation and preparedness	1	03.00 pm to 04.00 pm	13.06.17	Mr.P.Dayakar
13	prevention, mitigation and preparedness	1	10.45 am to 11.45am	14.06.17	Mr.P.Dayakar
14	Roles and responsibilities of community, States,	1	03.00 pm to 04.00 pm	14.06.17	Mr.P.Dayakar
15	Roles and responsibilities of Centre, and other stake-holders.	1	10.45 am to 11.45am	15.06.17	Mr.P.Dayakar
16	Inter-relationship between Disasters & Development	1	03.00 pm to 04.00 pm	15.06.17	Mr.P.Dayakar

17	Inter-relationship between Disasters & Development	1	10.45 am to 11.45am	16.06.17	Mr.P.Dayakar
18	Climate Change Adaptation. Relevance of indigenous knowledge	1	03.00 pm to 04.00 pm	16.06.17	Mr.P.Dayakar
19	Appropriate technology and local resources	1	10.45 am to 11.45am	19.06.17	Mr.P.Dayakar
20	Hazard and Vulnerability profile of India	1	03.00 pm to 04.00 pm	19.06.17	Mr.P.Dayakar
21	Hazard and Vulnerability profile of India	1	10.45 am to 11.45am	20.06.17	Mr.P.Dayakar
22	Components of Disaster Relief: Water, Food, Sanitation	1	03.00 pm to 04.00 pm	20.06.17	Mr.P.Dayakar
23	Components of Disaster Relief: Shelter, Health	1	10.45 am to 11.45am	21.06.17	Mr.P.Dayakar
24	Waste Management Institutional arrangements	1	03.00 pm to 04.00 pm	21.06.17	Mr.P.Dayakar
25	Mitigation, Response and Preparedness	1	10.45 am to 11.45am	22.06.17	Mr.P.Dayakar
26	Mitigation, Response and Preparedness	1	03.00 pm to 04.00 pm	22.06.17	Mr.P.Dayakar
27	DM Act and Policy	1	10.45 am to 11.45am	23.06.17	Mr.P.Dayakar
28	DM Act and Policy	1	03.00 pm to 04.00 pm	23.06.17	Mr.P.Dayakar
29	Other related policies, plans, programmes and legislation	1	10.45 am to 11.45am	24.06.17	Mr.P.Dayakar
30	Other related policies, plans, programmes and legislation	1	03.00 pm to 04.00 pm	24.06.17	Mr.P.Dayakar

HOD

Head of the Department
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Bharath
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Topic: Foundation Course on Disaster Management

Type of Course: value added course / UG

Department of school of Civil and infrastructure Engineering

Pre-Requisites: Engineering Geology

Course Duration: 30 hours (6th Jun 2017)

Intended Audience: Civil Engineering Students

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

Coordinator: Dayakar. P

Objectives:

a) This course aims to make the students well-versed with the latest techniques to protect the society from various disasters.

b) The students shall be able to understand the effects of various disasters.

c) Sufficient tutorials will be held to enable hands-on experience to the students

d) Students will be able to understand the basic concept of disaster(s) and disaster management, their significance and types.

e) Students will develop the analytical skills to study relationship between vulnerability, disasters, disaster prevention and risk reduction

f) Students will gain a preliminary understanding of approaches to Disaster Risk Reduction (DRR)

g) Students will be empowered with the awareness of institutional processes in the country for Disaster Management

COURSE OUTLINE:

This course is being conducted at the UG level to enable students and citizens to recognize the increasing vulnerability of the planet in general and India in particular to disasters. This, it is expected would create a basis to work towards preparedness and also help us develop a culture of safety and prevention. The adoption of a disaster risk reduction perspective in the teaching of the course would be useful. While disasters are generally seen as an outcome of catastrophic natural events, the idea of pre-existing vulnerabilities is equally important. These need to be understood and addressed if disaster impacts are to be minimized.

There has been a considerable policy level intervention in India in recent years and if teachers and young people in each city, district block or village can understand and explore avenues of reducing disaster risks and work towards preparedness the efforts would contribute towards minimizing losses and saving lives.

Disaster Management is a highly multidisciplinary subject wherein rich contributions have been made by the fields of environmental sciences, medicine, geography, geology, sociology, political science, economics, social work profession, psychology, public administration, law, gender studies, engineering sciences, demography and media studies and so on. Therefore, this course at the undergraduate level could be easily taught by faculty members from any discipline.

They must be interested in the subject matter and willing to look at disaster management issues form both a theoretical perspective as well as from a practical standpoint. This would enrich the teaching learning process. While this course has been developed keeping diverse disciplines in mind the teachers in consultation with the college curriculum committee are welcome to improvise and modify the content. Encouraging creativity or teachers is important.

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Value Added Course

Foundation Course on Disaster Management

Bharath

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Bharath Institute of Higher Education and Research

CERTIFICATE OF PARTICIPATION

This is to Certify that PRADEEP. K, from Bharath Institute of Higher Education and Research, has participated in value added course on '**Certificate Program in Foundation Course on Disaster Management'** presented by **Mr.P. Dayakar., Associate Professor,** Organized by School of Civil & Infrastructure Engineering, BIHER from **06/06/2017 to 24/06/2017**.

P. Dayal

Coordinator

P. Dayal

HOD

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

VALUE ADDED COURSE

Feedback Form

Event Name: Foundation course on Disaster Management

Event Venue: Date: 6/6/2017

Name of participant: D. Naresh

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 ✓

2. Do you think this venue was appropriate?

YES ✓	NO

3. Did you receive all the information you required at this Venue?

YES ✓	NO

4. Would you like to attend any further Training / Courses?

YES ✓	NO

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

Ref: BIHER/BIST/Civil//Spl/2017 **Date: 14/06/2017**

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 **Certificate Program in Fire and Safety** with the duration of 30 hours (Two hour per day) and commences from **24/06/2017 to 28/07/2017**.

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:

Mr.T.P.Meikandaan
Associate Professor / School of Civil and Infrastructure Engineering.,
Course Coordinator
Bharath Institute of Higher Education & Research.
Email id: meikandaan.civil@bharathuniv.ac.in

HOD

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SCHOOL OF CIVIL & INFRASTRUCTURE ENGINEERING

VALUE ADDED COURSE – CERTIFICATE PROGRAM IN FIRE AND SAFETY

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Head of the Department
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Value Added Course

Certificate Program in Fire and Safety

S.No.	Syllabus Details	No. of Lecture hrs	Time	Date	Lecture name
1	Introduction, Understanding fire: How and why people die in fires	1	03.00 pm to 04.00 pm	24.06.17	Mr.T.P.Meikandaan
2	Human behaviour in fire: How people behave in emergencies	1	03.00 pm to 04.00 pm	26.06.17	Mr.T.P.Meikandaan
3	Legislative requirements	1	03.00 pm to 04.00 pm	27.06.17	Mr.T.P.Meikandaan
4	The Regulatory Reform (Fire Safety) Order 2005, Fire hazards & risks, Plan Drawing, Brief look at drawing to scale	1	03.00 pm to 04.00 pm	28.06.17	Mr.T.P.Meikandaan
5	Fire risk assessment structure and layout	1	03.00 pm to 04.00 pm	29.06.17	Mr.T.P.Meikandaan
6	Means of escape principles: Basic requirements and what to look for, Fire signage: National requirements, Fire Alarms & fire detection	1	03.00 pm to 04.00 pm	30.06.17	Mr.T.P.Meikandaan
7	Basic components, and testing, Emergency lighting	1	03.00 pm to 04.00 pm	01.07.17	Mr.T.P.Meikandaan
8	Emergency Plans & Staff Training, Highly Flammables & LPG, Fire fighting equipment requirements	1	03.00 pm to 04.00 pm	03.07.17	Mr.T.P.Meikandaan
9	Fire resisting construction & compartmentation	1	03.00 pm to 04.00 pm	04.07.17	Mr.T.P.Meikandaan
10	Active fire safety for building protection	1	03.00 pm to 04.00 pm	05.07.17	Mr.T.P.Meikandaan
11	The process of fire risk assessment	1	03.00 pm to 04.00 pm	06.07.17	Mr.T.P.Meikandaan
12	Fire risk assessment recording and review procedures	1	03.00 pm to 04.00 pm	07.07.17	Mr.T.P.Meikandaan
13	The potential for pollution arising from fires	1	03.00 pm to 04.00 pm	08.07.17	Mr.T.P.Meikandaan

14	Measures to prevent and reduce fire pollution	1	03.00 pm to 04.00 pm	10.07.17	Mr.T.P.Meikandaan
15	Safety in scaffolding – an overview, Investigation of scaffold accident	1	03.00 pm to 04.00 pm	11.07.17	Mr.T.P.Meikandaan
16	Safety in excavations, trenching and shoring	1	03.00 pm to 04.00 pm	12.07.17	Mr.T.P.Meikandaan
17	Road work and pilling operation	1	03.00 pm to 04.00 pm	13.07.17	Mr.T.P.Meikandaan
18	Concrete and concert foams and shoring	1	03.00 pm to 04.00 pm	14.07.17	Mr.T.P.Meikandaan
19	Work permit systems, Job safety analysis	1	03.00 pm to 04.00 pm	15.07.17	Mr.T.P.Meikandaan
20	Accident prevention methods, Safety committee	1	03.00 pm to 04.00 pm	17.07.17	Mr.T.P.Meikandaan
21	Safety management systems, Laws related to safety	1	03.00 pm to 04.00 pm	18.07.17	Mr.T.P.Meikandaan
22	Recognition of possible fire sources and emergency procedures in the event of a fire	1	03.00 pm to 04.00 pm	19.07.17	Mr.T.P.Meikandaan
23	History of fires, types of detecting devices and extinguishing agents and systems	1	03.00 pm to 04.00 pm	20.07.17	Mr.T.P.Meikandaan
24	National Fire Protection Association and Occupational Safety and Health Administration standards	1	03.00 pm to 04.00 pm	21.07.17	Mr.T.P.Meikandaan
25	Workplace inspections, Measuring and reporting	1	03.00 pm to 04.00 pm	22.07.17	Mr.T.P.Meikandaan
26	Developing and effective safety culture	1	03.00 pm to 04.00 pm	24.07.17	Mr.T.P.Meikandaan
27	Building an incident free workplace, Removing obstacles to safety, Safety and accountability	1	03.00 pm to 04.00 pm	25.07.17	Mr.T.P.Meikandaan
28	Developing safety habits in the workplace, Fire Protection and Analysis	1	03.00 pm to 04.00 pm	26.07.17	Mr.T.P.Meikandaan
29	Hose, Types of hose, Characteristic, Frictional lose, Material used	1	03.00 pm to 04.00 pm	27.07.17	Mr.T.P.Meikandaan

30	Cause and prevention of mildew, Causes and prevention of shock, Causes and prevention of rubber acid	1	03.00 pm to 04.00 pm	28.07.17	Mr.T.P.Meikandaan

HOD

Head of the Department
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Topic: Certificate Program in Fire and Safety

Type of Course: value added course / UG

School of Civil and infrastructure Engineering

Pre-Requisites: Management Concepts for Civil Engineers

Course Duration: 30 hours (24 Jun' 17)

Intended Audience: Civil Engineering Students

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

Coordinator: Mr.T.P.Meikandaan

Objective:

a) Fire and Safety management courses have gained huge popularity among students in recent times.
b) One of the prime factors responsible for this trend is the availability of ample amount of job opportunities in front of fire and safety professionals..
c) Governments around the World have emphasized the need of work place safety. Chemical factories, refineries, manufacturing plants, energy firms, gas plants etc are not devoid of danger!
d) There's a need to ensure the safety of personnel working at such places. This is where fire and safety professionals come handy.

COURSE OUTLINE:

The program assists the candidates in qualifying themselves to become good safety personnel through an extensive training and study session. With the increase in risk factors, the demand scale for more safety personnel has also raised. Candidates who wish to pursue engineering in the same field, opting for Diploma in Fire and Safety Management course can prove to be beneficial. Though the number of scopes in this sector is related to disaster management and security, the opportunities will considerably widen with time.

As the scope of this course is gradually increasing based on the demand of firefighting personnel, more and more candidates are opting to earn a Diploma in Fire and Safety Management after the completion of 12th grade. Candidates after passing out from the program have wide scope in the department of armed forces, MNCs and public sectors, industries, construction firms, Oil companies etc. hired as safety supervisors and trainers, wherever the risk of accidents and need of security measures are more.

The overall goal of the program is training the students in getting a broader view of the situation at hand and being able to appropriately deal with conditions of fire, preventing accidents and ways of controlling mishaps. They are also given a realistic approach to the study by conducting mock drills, in order to showcase them the actual measures which need to be taken care at the time of the fire.

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SCHOOL OF CIVIL & INFRASTRUCTURE ENGINEERING

VALUE ADDED COURSE – CERTIFICATE PROGRAM IN FIRE AND SAFTEY

Date: 24.06.2017 **Year/Sem: III /V**

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Bharath Institute of Higher Education and Research

CERTIFICATE OF PARTICIPATION

This is to Certify that DEEPAN. K, from Bharath Institute of Higher Education and Research, has participated in value added course on '**Certificate Program in Fire and Safety**' presented by Mr.**T.P.Meikandaan., Associate Professor,** Organized by School of Civil & Infrastructure Engineering, BIHER from 24.06.2017 To 28.07.2017.

Coordinator

HOD

Head of the Department
Department of Civil Engineering
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VALUE ADDED COURSE

Feedback Form

Event Name: Certificate Programme fire and Safety

Event Venue: Date: 24/06/17

Name of participant: Dilip kumar. C

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 ✓

2. Value added course is useful and well organized.

✓ YES	NO

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

Head of the Department
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