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/2020 **Date:22/06/2020**

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 **Nature Conservation & Livelihood: Ecotourism** with the duration of 30hours (two hours per day) and commences from **02/07/2020**.

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

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

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

Topic: Nature Conservation & Livelihood: Ecotourism

Type of Course: Value added course / UG (online)

Department of school of Civil and infrastructure Engineering

Pre-Requisites: Environmental Science

Course Duration: 30 hours (2 july' 20)

Intended Audience: Civil Engineering Students

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

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

Objective:

a) To create basic understanding of tourism industry and knowledge of current trends in Ecotourism.
b) To conserve the natural resources and maintain the integrity of indigenous culture.
c) To evaluate and study the Ecotourism resources in India and its environmental and economic aspects.
d) To acquire ability to understand the importance of local ecology, culture, history and economic development of Ecotourism.

COURSE OUTLINE:

The course emphasizes on nature based tourism and analyses the history, concepts, principles, marketing, planning and management of Ecotourism activities in eco-tourism centers. It also highlights the development of ecological and cultural sustainability, education interpretation and economic benefits at the local level. This module will provide the student with an understanding of the theory and in managing the eco-tourism resources effectively. It focuses on the developments, practices as well as issues to deal with the conservation and management of eco-tourism resources. This course places a strong emphasis on the professional development of the students in ecotourism sector in particular. Such a qualification will enable and facilitate career progression for the students in ecotourism sectors. It identifies the main livelihood activities of the local people, various household and community owned livelihood assets, various policies, mechanisms and approaches for the sharing of the tourism related economic benefits with the local communities developed by key tourism stakeholders .Furthermore, the course reveals the opinion and perception of the local people on various tourism related livelihood outcomes and the way they benefit from tourism development in the area. Tourism has positively contributed to the livelihood of the local people. It increases environmental conservation awareness and sharing of the economic benefits delivered from tourism has in turn increased the local support ii for the conservation. However, there is a need for more strategies to increase the economic benefits of tourism to the poor local people by developing new tourism products, improving visitor spending and retaining the economic benefit locally, strengthening linkages with other sectors especially agriculture. There is a need to also to improve the working condition of the locals working in the tourism industry and ensure that the local people are involved in the decision making and planning in relation to any tourism development.

Value added course

Nature Conservation & Livelihood: Ecotourism

Students Name List:

Sl.NO	Reg No	Name of the students
1	U14CE193	SETHURAMAN.J
2	U14CE194	SHABIR AHMAD BHAT
3	U14CE195	SHAHRUKH AHMAD
4	U14CE196	SHAIK SHADIK
5	U14CE197	SHARMA RAHUL RAJNATH
6	U14CE198	SHINDE DAULATRAO KRISHNARAO
7	U14CE199	SHIRISH KUMAR SHRIVASTAV
8	U14CE200	SHIVABALAN.P
9	U14CE201	SHIVAM KUMAR
10	U14CE202	SHYAMANANDA LONGJAM
11	U14CE203	SIBI.R
12	U14CE204	SIVA SANKARAN.P
13	U14CE205	SIVA.M
14	U14CE206	SIVAKUMAR.V
15	U14CE207	SOLAR ECLIPSE MUKHIM
16	U14CE208	SOMA SANDEEP
17	U14CE209	SOROKHAIBAM CHINGLEMBA
18	U14CE210	SOUNDHARYA.R.S.
19	U14CE211	SRIRAM .S
20	U14CE212	SRIKANTH REDDY M.P.
21	U14CE213	STEPHANRAJ.R
22	U14CE214	SUBODH KUMAR DEO
23	U14CE215	SUDARSANAN .C.P
24	U14CE216	SUDHARSAN.M
25	U14CE217	SUHAIL MUSHTAQ
26	U14CE218	SUJITHA.M
27	U14CE219	SUNIL KUMAR. R
28	U14CE220	SURAJ KUMAR PAL
29	U14CE221	SURENDRAN.T
30	U14CE222	SURESH KUMAR .K
31	U14CE223	SURESH KUMAR.R
32	U14CE224	SURYA TEJA.D.
33	U14CE226	SYED HUZAIR ALI HUSSAINI

34	U14CE227	TEJASH.G.J
35	U14CE228	UDHAYA KUMAR.M
36	U14CE229	VALLURU LOKESH
37	U14CE231	VIBUVADHAN.M
38	U14CE232	VICTOR DKHAR
39	U14CE233	VIGNESH.K
40	U14CE234	VIGNESHWARAN.S
41	U14CE235	VIJAY KUMAR
42	U14CE236	VIJAY KUMAR REDDY.R
43	U14CE237	VIKASH KUMAR DAS
44	U14CE239	VIKRAM.J

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

Value added course

Nature Conservation & Livelihood: Ecotourism

Content of Syllabus

S.No.	Syllabus Details	No. of Lecture hrs	Time	Date	Lecture name
1	Environment – Introduction Community interaction and nature	1 hrs	10.00 am to 11.00 pm	2.7.2020	Mrs.Maria Subashini
2	Conservation of natural resources	1 hrs	11.00 am to 12.00 pm		Mrs L.Maria Subashini
3	Ecotourism and natural resource management	1 hrs	10.00 am to 11.00 pm	3.7.2020	Mrs L.Maria Subashini
4	Sustainable tourism and society	1 hrs	11.00 am to 12.00 pm		Mrs L.Maria Subashini
5	Ecotourism as a tool for conservation	1 hrs	10.00 am to 11.00 pm	6.7.2020	Mrs L.Maria Subashini
6	Environmental degradation and Ecotourism	1 hrs	11.00 am to 12.00 pm		Mrs L.Maria Subashini
7	Community based Ecotourism	1 hrs	10.00 am to 11.00 pm	7.7.2020	Mrs L.Maria Subashini
8	Peoples' initiatives on Ecotourism	1 hrs	11.00 am to 12.00 pm		Mrs L.Maria Subashini
9	Trends and scope of Ecotourism	1 hrs	10.00 am to 11.00 pm	8.7.2020	Mrs L.Maria Subashini
10	Role of technology in tourism marketing	1 hrs	11.00 am to 12.00 pm		Mrs L.Maria Subashini
11	Tourism marketing and development Role of public organization, local bodies and NGOs	1 hrs	10.00 am to 11.00 pm	9.7.2020	Mrs L.Maria Subashini
12	Marketing of regions, cities and leisure spots	1 hrs	11.00 am to 12.00		Mrs L.Maria Subashini

			pm		
13	Events, individuals, shopping, local foods, education and culture	1 hrs	10.00 am to 11.00 pm	10.7.2020	Mrs L.Maria Subashini
14	Transport and travel service marketing	1 hrs	11.00 am to 12.00 pm		Mrs L.Maria Subashini
15	Tourism legislations and Ecotourism guidelines	1 hrs	10.00 am to 11.00 pm	13.7.2020	Mrs L.Maria Subashini
16	Tourism – Historical perspectives and development	1 hrs	11.00 am to 12.00 pm		Mrs B.Saritha
17	Tourism organizations – international, national , state level and private sector	1 hrs	10.00 am to 11.00 pm	14.7.2020	Mrs B.Saritha
18	Tourism bill of rights and code for environment responsible tourism	1 hrs	11.00 am to 12.00 pm		Mrs B.Saritha
19	Sustainable Ecotourism – prospects and problems Threats and obstacles to tourism	1 hrs	10.00 am to 11.00 pm	15.7.2020	Mrs B.Saritha
20	Tourism policy and planning	1 hrs	11.00 am to 12.00 pm		Mrs B.Saritha
21	Role of local bodies and officials in tourism	1 hrs	10.00 am to 11.00 pm	16.7.2020	Mrs B.Saritha
22	Understanding tourists and hosts	1 hrs	11.00 am to 12.00 pm		Mrs B.Saritha
23	Sociology, anthropology and tourism	1 hrs	10.00 am to 11.00 pm	17.7.2020	Mrs B.Saritha
24	Tourism products and operation	1 hrs	11.00 am to 12.00 pm		Mrs B.Saritha
25	Tourist sites and attractions	1 hrs	10.00 am to 11.00 pm	20.7.2020	Mrs B.Saritha
26	Seasonality and destination in tourism	1 hrs	11.00 am to 12.00 pm		Mrs B.Saritha
27	Relevance of history in tourism	1 hrs	10.00 am to 11.00 pm	21.7.2020	Mrs B.Saritha

28	Management functions and practices in tourism Training, development and motivational aspects in tourism	1 hrs	11.00 am to 12.00 pm		Mrs B.Saritha
29	Tourism services and management	1 hrs	10.00 am to 11.00 pm	22.7.2020	Mrs B.Saritha
30	Tourism Marketing and Communication	1 hrs	11.00 am to 12.00 pm		Mrs B.Saritha

HOD

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Bharath Institute of Higher Education and Research

CERTIFICATE OF participation

This is to Certify that SOUNDHARYA . R .S , from Bharath Institute of Higher Education and Research, has participated in value added course on **'Nature Conservation & Livelihood: Ecotourism'** presented by Mrs.L.Maria Subashini., **Assistant Professor,** Organized by School of Civil & Infrastructure Engineering, BIHER from **02/07/2020 to 22/7/2020**.

Coordinator

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

HOD

VALUE ADDED COURSE

Feedback Form

Event Name: Nature Conservation & Livelihood - Ecotourism

Event Venue: Date: 2/7/2020, BIHER.

Name of participant: Soundharya. R. S.

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

1 2 3 4 5

2. Describe what topic is good.

Sustainable Tourism & Society

3. What aspects of the course we improve.

more practical training.

4. What else would you like to see added.

—

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Ref: BIHER/BIST/Civil//Spl/2021 **Date: 01/04/2021**

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 3D Printing** with the duration of 30 hours (Two hour per day) and commences from **11/02/2021 to 23/03/2021(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:

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

HOD

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

SCHOOL OF CIVIL & INFRASTRUCTURE ENGINEERING

VALUE ADDED COURSE - COURSE ON 3D PRINTING

STUDENTS NAME LIST

SCHOOL OF CIVIL & INFRASTRUCTURE ENGINEERING

VALUE ADDED COURSE – COURSE ON 3D PRINTING

Sl.NO	Reg No	Name of the students	E-Mail ID
1	U15CE001	AADARSH KUMAR BHARDWAJ S	Aadha2012@gmail.com
2	U15CE002	ABDUL RAHMAN S A	raman18@gmail.com
3	U15CE003	ADITYA KUMAR RAJ	kumar147@gmail.com
4	U15CE004	AJIS KUMAR M	ajis@gmail.com
5	U15CE005	ANUJ YADAV	anuj yadav 406@ Gmail.com
6	U15CE006	ARAVINDAN D	arvnf@gmail.com
7	U15CE007	ARUN K	arun505@gmail.com
8	U15CE008	ARUN YOMSO	yomso316@gmail.com
9	U15CE009	AVULA UDAY KIRAN	udhyakiran46@gmail.com
10	U15CE010	BADUGU MANI BABU	manibabu949@gmail.com
11	U15CE011	BAJOPSKHEMLANG RYNTATHIANG	rtytaniang333@gmail.com
12	U15CE012	BAKKANOLLA MOHAN REDDY	mreddy@gmail.com
13	U15CE013	BELLAMKONDA LEELA MOHAN	mohan1999@gmail.com
14	U15CE014	BOYA NARESH	oya naresh v30@gmail.com
15	U15CE015	BUNGCHA MOIRANGTHEM	moirangthem l17@gmail.com
16	U15CE016	CHALLA BHAGAVAN	bhagavan 91@gmail.com
17	U15CE017	DABBADI ABHINAY KUMAR	ABHINAY KUMAR @gmail.com
18	U15CE018	DEIMONMITRE DKHAR	dkar69@gmail.com
19	U15CE020	DHANUSH KUMAR P	kumar2000@gmail.com
20	U15CE021	DHINAKARAN R	dhinakaran2791@gmail.com
21	U15CE022	DHINESH M	dinesh11@gmail.com
22	U15CE023	DIPENDRA KUMAR YADAV	kumar8264@gmail.com

23	U15CE024	EDEGABODDU NARASIMHA RAVITHEJA	rockzz371@gmail.com
24	U15CE025	GADHIRAJU NARENDRA VARMA	navarma@gmail.com
25	U15CE026	GANESH PERUMAL V	cperumal5@gmail.com
26	U15CE027	GANESH R	ganesh62@gmail.com
27	U15CE028	GARAPATI LALITHKISHOR	lathi4181@gmail.com
28	U15CE029	GOLLAPALLI VISHNUVARDHAN REDDY	rp7842197222@gmail.com
29	U15CE030	GOWTHAM L	gowtham664@gmail.com
30	U15CE031	GUDDETTI KEERTHANA	keerthina689@gmail.com
31	U15CE032	HARIS REYAZ	Hari56@gmail.com
32	U15CE033	HEMACHANDRAN	hemaran@gmail.com
33	U15CE034	IAISHAH SUCHIANG	UCHIANG192@yahoo.com
34	U15CE035	J SAI RAM MADHAV	Sairam43@gmail.com
35	U15CE036	JAWAHARRAJ M	jawidhu@gmail.com
36	U15CE037	JAWIDHUSSAIN J	jawhussan@gmail.com
37	U15CE038	JAYAPRABAKAR V	jayaprabakar V @gmail.com
38	U15CE039	JAYASOORYA V	jayasoorya v @gmail.com
39	U15CE040	JIJOWILSON	Jijowilson96 @gmail.com
40	U15CE041	KAMALESH KUMAR A	kamalkumr@gmail.com
41	U15CE042	KANGARI RANJEETH REDDY	Reddy56@gmail.com
42	U15CE043	KAPOOR M	Kapoor95@gmail.com
43	U15CE044	KAVITHA T	Sairam43@gmail.com
44	U15CE045	KISHOTH R	Kisthori95@gmail.com

Dept.
Engineering)
Sathyabama Institute of Higher
Education & Research
Sholinganallur, Chennai - 600 119.

Bharath
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
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Topic: Course on 3D Printing

Type of Course: value added course / UG

Department of school of Civil and infrastructure Engineering

Pre-Requisites: Auto CAD

Course Duration: 30 hours (11 Feb' 2021)

Intended Audience: Civil Engineering Students

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

Coordinators: B.Kaviya

Objective:

a) Demonstrate knowledge of key historical factors that have shaped manufacturing over the centuries
b) Explain current and emerging 3D printing applications in a variety of industries
c) Describe the advantages and limitations of each 3D printing technology
d) Evaluate real-life scenarios and recommend the appropriate use of 3D printing technology
e) Identify opportunities to apply 3D printing technology for time and cost savings
f) Discuss the economic implications of 3D printing including its impact on startup businesses and supply chains
g) Design and print objects containing moving parts without assembly This course aims to make the students well-versed with the latest scheduling techniques in construction projects.

COURSE OUTLINE:

3D printing opens up inspiring possibilities and opportunities, like the ability to produce a fully functional "machine" in one print. It is the only manufacturing process that can interlock parts within parts to produce functioning closed systems that require no assembly. Furthermore, because 3D printers produce objects directly from computer models, users can immediately hold, evaluate, test and use their ideas – and share them digitally with the world. The Internet revolutionized the creation, modification and dissemination of digital media. Now, 3D printing makes that possible for physical objects. 3D printing is reshaping the fields of art, design, architecture, science, technology and engineering by revolutionizing how things are made. Recognizing education as the foundation for career readiness, a means to drive future innovation, we're providing this curriculum completely free. Use it modularly to supplement an existing class, or teach an entirely new course in 3D printing.

Value Added Course

Course on 3D Printing

Content of Syllabus

S.No.	Syllabus Details	No. of Lecture hrs	Time	Date	Lecture name
1	Introduction to Projects	1	10.45 am to 11.45am	11-02-2021	Ms.B.Kaviya
2	Introduction to Projects	1	03.00 pm to 04.00 pm	12-02-2021	Ms.B.Kaviya
3	Introduction to 3D Printing	1	10.45 am to 11.45am	15-02-2021	Ms.B.Kaviya
4	Introduction to 3D Printing	1	03.00 pm to 04.00 pm	16-02-2021	Ms.B.Kaviya
5	What is a Mesh?	1	10.45 am to 11.45am	17-02-2021	Ms.B.Kaviya
6	What is a Mesh?	1	03.00 pm to 04.00 pm	18-02-2021	Ms.B.Kaviya
7	Ctrl+P	1	10.45 am to 11.45am	19-02-2021	Ms.B.Kaviya
8	Ctrl+P	1	03.00 pm to 04.00 pm	22-02-2021	Ms.B.Kaviya
9	Gear Systems Part I	1	10.45 am to 11.45am	23-02-2021	Ms.B.Kaviya
10	Gear Systems Part I	1	03.00 pm to 04.00 pm	24-02-2021	Ms.B.Kaviya
11	Gear Systems Part II	1	10.45 am to 11.45am	25-02-2021	Ms.B.Kaviya
12	Gear Systems Part II	1	03.00 pm to 04.00 pm	26-02-2021	Ms.B.Kaviya
13	Dynamic Surfaces and Chains	1	10.45 am to 11.45am	29-02-2021	Ms.B.Kaviya
14	Dynamic Surfaces and Chains	1	03.00 pm to 04.00 pm	01-03-2021	Ms.B.Kaviya
15	The Future of Fabrication	1	10.45 am to 11.45am	02-03-2021	Ms.B.Kaviya
16	The Future of Fabrication	1	03.00 pm to 04.00 pm	03-03-2021	Ms.B.Kaviya
17	Midterm Exam	1	10.45 am to 11.45am	04-03-2021	Ms.B.Kaviya
18	Midterm Exam	1	03.00 pm to 04.00 pm	07-03-2021	Ms.B.Kaviya

19	4D Printing	1	10.45 am to 11.45am	08-03-2021	Ms.B.Kaviya
20	4D Printing	1	03.00 pm to 04.00 pm	09-03-2021	Ms.B.Kaviya
21	4D Printing	1	10.45 am to 11.45am	10-03-2021	Ms.B.Kaviya
22	Parametric Design	1	03.00 pm to 04.00 pm	11-03-2021	Ms.B.Kaviya
23	Parametric Design	1	10.45 am to 11.45am	14-03-2021	Ms.B.Kaviya
24	Parametric Design	1	03.00 pm to 04.00 pm	15-03-2021	Ms.B.Kaviya
25	Prototype Printing	1	10.45 am to 11.45am	16-03-2021	Ms.B.Kaviya
26	Prototype Printing	1	03.00 pm to 04.00 pm	17-03-2021	Ms.B.Kaviya
27	Prototype Printing	1	10.45 am to 11.45am	18-03-2021	Ms.B.Kaviya
28	Prototype Printing & Testing	1	03.00 pm to 04.00 pm	21-03-2021	Ms.B.Kaviya
29	Prototype Printing & Testing	1	10.45 am to 11.45am	22-03-2021	Ms.B.Kaviya
30	Prototype Printing & Testing	1	03.00 pm to 04.00 pm	23-03-2021	Ms.B.Kaviya

HOD

of the Dept.
Engineering)
Sathyabama Institute of Higher
Education & Research,
Jeppiaar, Chennai - 600 119.

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A GRADE NAAC NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

CERTIFICATE OF PARTICIPATION

This is to Certify that BOYA NARESH, from Bharath Institute of Higher Education and Research, has participated in value added course on '**Course on 3D Printing**' presented by **Ms.B.Kaviya., Assistant Professor,** Organized by School of Civil & Infrastructure Engineering, Bharath Institute of Science & Technology, BIHER from 11.02.2021 To 23.03.2021.

B Kaviya
Coordinator

HOD

Head of the Dept.
Civil Engineering
Bharath Institute of Higher Education & Research,
Selaiyur, Chennai

VALUE ADDED COURSE

Feedback Form

Event Name: Course on 3D Printing

Event Venue: Date: 11/2/21 to 23/2/2021

Name of participant: Arun. K.

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

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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 **Advanced Program In Civil-CAD** with the duration of 30 hours (Two hour per day) and commences from **15/02/2021 to 03/03/2021(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:

Mr.Rajesh.s
Assistant Professor / School of Civil and Infrastructure Engineering.,
Course Coordinator
Bharath Institute of Higher Education & Research.
Email id: rajesh.civil@bharathuniv.ac.in

HOD

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

Value Added Course

Advanced Program In Civil-CAD

S.NO	REG NO	NAME OF THE CANDIDATE
1	U15CE001	AADARSH KUMAR BHARDWAJ S
2	U15CE003	ADITYA KUMAR RAI
3	U15CE005	ANUJ YADAV
4	U15CE006	ARAVINDAN D
5	U15CE008	ARUN YOMSO
6	U15CE010	BADUGU MANI BABU .
7	U15CE011	BAJOPSKHEMLANG RYNTATHIANG
8	U15CE012	BAKKANOLLA MOHAN REDDY .
9	U15CE013	BELLAMKONDA LEELA MOHAN .
10	U15CE014	BOYA Naresh NARESH
11	U15CE015	BUNGCHA MOIRANGTHEM
12	U15CE017	DABBADI ABHINAY KUMAR .
13	U15CE018	DEIMONMITRE DKHAR
14	U15CE020	DHANUSH KUMAR P
15	U15CE021	DHINAKARAN R
16	U15CE022	DHINESH M
17	U15CE023	DIPENDRA KUMAR YADAV
18	U15CE024	EDEGABODDU NARASIMHA RAVITHEJA
19	U15CE025	GADHIRAJU NARENDRA VARMA .
20	U15CE026	GANESH PERUMAL V
21	U15CE028	GARAPATI LALITHKISHOR
22	U15CE031	GUDDETTI KEERTHANA
23	U15CE032	HARIS REYAZ
24	U15CE034	IAISHAH SUCHIANG
25	U15CE038	JAYAPRABAAKAR V
26	U15CE039	JAYASOORYA V
27	U15CE040	JIJOWILSON .
28	U15CE041	KAMALESH KUMAR A
29	U15CE042	KANGARI RANJEETH REDDY .
30	U15CE043	KAPOOR M

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INSTITUTE OF HIGHER EDUCATION AND RESEARCH
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Topic: **Advanced Program In Civil-CAD**

Type of Course: value added course / UG

Department of school of Civil and infrastructure Engineering

Pre-Requisites: Autocadd

Course Duration: 30 hours (15 FEB' 2021)

Intended Audience: Civil Engineering Students

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

Coordinators: Mr.Rajesh.S

Objective:

1. To mould students to become a professional with all necessary skills, personality and sound knowledge in basic and advance technological areas.

2. To promote understanding of maintenance of aircraft, aerospace vehicles and associated equipment and develop application capability of the concepts sciences to engineering design and processes.

3. Understanding the current scenario apply knowledge of engineering, science and mathematics to design and conduct experiments in the field of Aeronautical Engineering.

4. To develop leadership skills in our students necessary to shape the social business and technical worlds.

COURSE OUTLINE:

1. To create and sustain a community of learning in which students acquire knowledge and learn to apply it professionally with due consideration for ethical, ecological and economic issues.

2. To provide knowledge based services to satisfy the needs of society and the industry by providing hands on experience in various technologies in core field.

3.To make the students to design, experiment, analyze, interpret in the core field with the help of other multi disciplinary concepts wherever applicable.

Value Added Course

S.No.	Syllabus Details	No. of Lecture hrs	Time	Date	Lecture name
1	INTRODUCTION to CAD	2	10.45 am to 12.45am	15.02.21	RAJESH.S
2	AutoCAD – BASICS	2	02.00 pm to 04.00 pm	16.02.21	RAJESH.S
3	Starting with AutoCAD	2	10.45 am to 12.45am	17.02.21	RAJESH.S
4	Layout and sketching	2	02.00 pm to 04.00 pm	18.02.21	RAJESH.S
5	Drawing environment	2	10.45 am to 12.45am	19.02.21	RAJESH.S
6	Elements of drawing	2	02.00 pm to 04.00 pm	22.02.21	RAJESH.S
7	Draw commands	2	10.45 am to 12.45am	23.02.21	RAJESH.S
8	3D functions	2	02.00 pm to 04.00 pm	24.02.21	RAJESH.S
9	2D – FIGURES for practice USING AutoCAD 2013	2	10.45 am to 12.45am	24.02.21	RAJESH.S
10	ISOMETRIC DRAWING for practice USING AutoCAD2013	2	02.00 pm to 04.00 pm	25.02.21	RAJESH.S
11	3-D SOLID FIGURES USING ACAD 2013	2	10.45 am to 12.45am	28.02.21	RAJESH.S
12	INTRODUCTION TO CREO 3.0	2	02.00 pm to 04.00 pm	29.02.21	RAJESH.S
13	Learning Different Operations like Threading, Sweep	2	10.45 am to 12.45am	01.03.21	RAJESH.S
14	Learning Different Operations like Sweptblend	2	02.00 pm to 04.00 pm	02.03.21	RAJESH.S
15	Modeling	2	10.45 am to 12.45am	03.03.21	RAJESH.S

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Selaiyur, Chennai - 600 073.

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BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

CERTIFICATE OF PARTICIPATION

This is to Certify that Anuj Yadav, from Bharath Institute of Higher Education and Research, has participated in value added course on **'Advanced Program In Civil-CAD'** presented by Mr.S.Rajesh**, Assisstant Professor,** Organized by School of Civil & Infrastructre Engineering, BIHER from **15/02/2021 to 03/03/2021**.

Coordinator

HOD

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

VALUE ADDED COURSE

Feedback Form

Event Name: ADVANCED PROGRAM IN CIVIL CAD

Event Venue: Date: 15/2/2021.

Name of participant: ANUJ YADAV

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

1	2	3	4 ✓	5

2. Describe what topic is good.

Draw Commands

3. What aspects of the course we improve.

Practical sessions

4. What else would you like to see added.

Other software courses

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

Ref: BIHER/BIST/Civil//Spl/2020 **Date: 03/12/2020**

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 **Application of PSCAD and transient studies** with the duration of 30 hours (Two hour per day) and commences from **05/12/2020 to 23/12/2020(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:

Mr.S.Rajesh
School of Civil and Infrastructure Engineering.,
Course Coordinator
Bharath Institute of Higher Education & Research.
Email id: anbalagan.civil@bharathuniv.ac.in

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

Value Added Course

Application of PSCAD and transient studies

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

Value Added Course

Application of PSCAD and transient studies

Content of Syllabus

S.No.	Syllabus Details	No. of Lecture hrs	Time	Date	Lecturer name
1	Introduction of PSCAD and transient studies	2	3.00 – 5.00 pm	05/12/2020	Mr.S.Rajesh
2	Interactive control features of PSCAD (sliders, push buttons, dials and switches)	2	3.00 – 5.00 pm	06/12/2020	Mr.S.Rajesh
3	Studies that require simulation tools such as PSCAD, Advanced features of PSCAD for fast and accurate solutions	2	3.00 – 5.00 pm	07/12/2020	Dr.C.Anbalagan
4	Discussion of prior outage and contingency conditions	2	3.00 – 5.00 pm	08/12/2020	Dr.C.Anbalagan
5	Switching over voltage studies (SOV), Energy dissipation of surge arrestors, arrestor rating and the selection of arrestors	2	3.00 – 5.00 pm	11/12/2020	Dr.C.Anbalagan
6	Developing the system and the substation model suitable for TRV investigations	2	3.00 – 5.00 pm	12/12/2020	Dr.C.Anbalagan
7	Transformers	2	3.00 – 5.00 pm	13/12/2020	Dr.C.Anbalagan
8	Automated generation of a large number of fault waveforms in COMTRADE format for real time relay testing	2	3.00 – 5.00 pm	14/12/2020	Dr.C.Anbalagan
9	Protection systems	2	3.00 – 5.00 pm	15/12/2020	Dr.C.Anbalagan
10	Simulating wind generation	2	3.00 – 5.00 pm	18/12/2020	Dr.C.Anbalagan

11	Large induction motors starting issues; including flicker and voltage dip problems	2	3.00 – 5.00 pm	19/13/2020	Mr.S.Rajesh
12	SPower Electronic Basics, HVDC and FACTS	2	3.00 – 5.00 pm	20/12/2020	Mr.S.Rajesh
13	Using power electronic modules and designing simple firing systems	2	3.00 – 5.00 pm	21/12/2020	Mr.S.Rajesh
14	Arc furnace loads	2	3.00 – 5.00 pm	22/12/2020	Mr.S.Rajesh
15	Evaluation of flicker severity	2	3.00 – 5.00 pm	23/12/2020	Dr.C.Anbalagan

HOD

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Topic: Application of PSCAD and transient studies

Type of Course: value added course/ UG(**online**).

School of Civil and infrastructure Engineering

Pre-Requisites: AUTO CADD

Course Duration: 30 hours (05/12/2020 to 23/12/2020)

Intended Audience: School of Civil and infrastructure Engineering Students

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

Coordinators: Mr.S.Rajesh

Objective:

a) Installing the software and getting started

b) Creating a small simulation case using PSCAD

c) Fundamental theory of transient simulation

d) A review of the various models and examples available in PSCAD

e) Development of an AC system model suitable

f) AC system transient studies

VALUE ADDED COURSE
Application of PSCAD and transient studies
COURSE OUTLINE:

This course covers the fundamentals of the study of electromagnetic transients in electrical networks. A number of application areas such as AC transients, fault and protection, transformer saturation, wind power, FACTS, power quality, as well as other power systems topics will be discussed with practical examples serving to illustrate the subjects. Several case studies will be applied in detail to highlight practical situations encountered by engineers in the field. Course participants will be able to experiment with the case studies in an interactive hands-on workshop environment using the PSCAD Simulation software. Attendees can request coverage of specific topics or phenomena of interest. Previous experience with the PSCAD software tool is not required. Witching transients are an important factor on the equipment selection, protection and tower air clearances. Lightning and switching are two primary causes of transient overvoltage in power systems. This paper focuses on a comparative study of the modeling and simulation of a switching transient overvoltage study using two widely used simulation tools: PSCAD/EMTDC and EMTP-RV. The overvoltage modeling and statistical analysis method have been carefully described in both simulations. The comparative overvoltage results for switching transient study are also provided.

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CERTIFICATE OF PARTICIPATION

This is to Certify that Raghu. R, from Bharath Institute of Higher Education and Infrastructre Engineering, Bharath Institute of Science & Technology, BIHER from Coordinator HOD School of Civil & Infrastructre Engineering Research, has participated in value added course on 'Application of PSCAD and transient studies by Mr.S.Rajesh,, Assistant Professor, Organized by School of Civil & 05.12.2020 To 23.12.2020.

Coordinator

HOD

VALUE ADDED COURSE

Feedback Form

Event Name: APPLICATION OF PSCAD & TRANSIENT STUDIES

Event Venue: Date: 5/12/2020

Name of participant: RAGHU. R

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

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Ref: BIHER/BIST/Civil//Spl/2021 Date: 28/03/2021

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 Department of School of Civil and Infrastructure Engineering. Bharath Institute of Higher Education & Research. The course offered is **New Feature in AutoCAD** with the duration of 30 hours (Two hour per day) and commences from **11/04/2021 to 13/05/2021(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:

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

HOD

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Selaiyur, Chennai - 600 073.

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Topic: New Features in AutoCAD

Type of Course: value added course/ UG

School of Civil and infrastructure Engineering

Pre-Requisites: Computer Aided Building Drawing

Course Duration: 30 hours (11 April 2021 to 13 May 2021)

Intended Audience: School of Civil and infrastructure Engineering Students

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

Coordinator: Ms.M.Hemapriya

Objective:

a) Prepare wire frame modeling and solid modeling using drafting packages

b) Perform structural analysis using computer packages

c) Prepare algorithms for the analysis and design of steel and RC structures

d) Analysis simple structures using expert systems

e) Analysis and design of structures by using STADD.PRO, STRAP

Value Added Course

New Features in AutoCAD

Students Name List

Sl.NO	Reg No	Name of the students
1	U14CE001	ABHIJEET KUMAR SINGH
2	U14CE002	ABISHEK RAJ.B
3	U14CE003	ADHULAPURI.SAI.NIVEDHITHA
4	U14CE004	ADIL ABASS LONE
5	U14CE005	AJAN.A
6	U14CE006	AJAS AHAMED .N
7	U14CE007	AJITH KUMAR.L
8	U14CE008	AJITH KUMAR.R
9	U14CE009	AJITH KUMARAPPAN.K
10	U14CE010	AKEPATI DEEPA
11	U14CE011	ALAGURAJA.CH
12	U14CE012	ALITHAF.S
13	U14CE013	AMAN MISRA
14	U14CE014	ANAND KUMAR
15	U14CE015	ANKIT BOSE
16	U14CE016	ANKIT SHARMA
17	U14CE017	ANUSHA C.S
18	U14CE018	ARAVIND.G
19	U14CE019	ARISH.S
20	U14CE020	ARUMUGA RAMKUMAR.P
21	U14CE021	ARUN .K
22	U14CE022	ARUN RAJ.V
23	U14CE023	ASHISH KUMAR
24	U14CE024	ASHMIT KUMAR
25	U14CE025	ASHWIN.M
26	U14CE026	ASWINN KUMAR.S
27	U14CE027	AVINASH KUMAR
28	U14CE028	AVINASH.A.M.
29	U14CE029	BABBURI MANIKANTA KUMAR
30	U14CE030	BALAGURU.N
31	U14CE031	BAMMIDI DILEEP
32	U14CE032	BANOTH KALYAN KUMAR
33	U14CE033	BHARATH BALAJI.P

34	U14CE034	BHARATH KUMAR REDDY. E
35	U14CE035	BOLLARAM VAMSHI
36	U14CE036	CHALANGDIAM.K.
37	U14CE037	CHANDRA MOHAN .S
38	U14CE038	CHARLES MESTAN.S
39	U14CE039	CHEMIKI LYWAIT
40	U14CE040	DAR TUFAIL GULL
41	U14CE041	DEBASHISH CHATTERJEE
42	U14CE042	DEBESHWOR SINGH .M
43	U14CE043	DEEPAK KUMAR VERMA
44	U14CE044	DEEPAN .K
45	U14CE045	DHARAM GURUMAHENDRA
46	U14CE046	DHINESH .R
47	U14CE047	DILIP KUMAR THAKUR
48	U14CE048	DILIP KUMAR.C.
49	U14CE049	DINGNUNG MODI

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Bharath Institute of Higher
Education & Research
[illegible] Chennai - 600 [illegible]

VALUE ADDED COURSE
NEW FEATURES IN AUTOCAD
COURSE OUTLINE:

This course will help students learn AutoCAD includes industry-specific features and intelligent objects for architecture, mechanical engineering, electrical design and more. Automate floor plans, sections and elevations. Draw piping, ducting and circuiting quickly with parts libraries. Auto-generate annotations, layers, schedules, lists and tables. Use a rules-driven workflow to accurately enforce industry standards. The Measure dropdown in the Utilities panel has been a handy way to find distances, angles, diameters, and areas. Historically, the user chooses the measurement option they want, selects the relevant objects (or snaps to points) in the drawing, and notes the measurement. A faster version of this tool is now available, called "Quick Measure." When this tool is active, the program finds measurements close to the crosshairs and automatically displays them. This tool tracks distances along line segments, distances between parallel lines, and angles (showing the customary symbol for right angles). Quick Measure is now the default measure tool, which can be accessed with the Measure command. The previously existing subcommands are still available. The Compare Tool was introduced in 2019 in order to see the differences between two drawings. For instance, if two people at the office opened a version of a drawing, saved local copies, and made changes, this tool could create color-coded revision clouds encircling the differences to help users see who had drafted what since the drawing contents diverged. The new, easier to follow workflow available in AutoCAD 2020 has the user open one of the two drawings, run the compare tool, and point to the comparison drawing. AutoCAD 2020 embeds the differences directly into the current drawing with the same color-coded revision clouds, while displaying a handy DWG Compare Toolbar:

Value Added Course

New Features in AutoCAD

Content of Syllabus

S.No.	Syllabus Details	No. of Lecture hrs	Time	Date	Lecturer name
1	Introduction to computer graphics	2	3.00 – 5.00 pm	11/04/2021	Ms.M.Hemapriya
2	Fundamentals of CAD	2	3.00 – 5.00 pm	13/04/2021	Ms.M.Hemapriya
3	Hardware and software requirements	2	3.00 – 5.00 pm	15/04/2021	Ms.M.Hemapriya
4	Design process	2	3.00 – 5.00 pm	18/04/2021	Ms.M.Hemapriya
5	Applications and benefits	2	3.00 – 5.00 pm	20/04/2021	Ms.M.Hemapriya
6	Drafting packages	2	3.00 – 5.00 pm	22/04/2021	Ms.M.Hemapriya
7	use of AUTOCAD	2	3.00 – 5.00 pm	25/04/2021	Ms.M.Hemapriya
8	Application to layout of buildings and structures	2	3.00 – 5.00 pm	27/04/2021	Ms.M.Hemapriya
9	Graphic primitives	2	3.00 – 5.00 pm	29/04/2021	Ms.M.Hemapriya
10	Wireframe modeling and solid modeling.	2	3.00 – 5.00 pm	02/05/2021	Ms.M.Hemapriya
11	Design & Optimization	2	3.00 – 5.00 pm	04/05/2021	Ms.M.Hemapriya
12	Optimization techniques	2	3.00 – 5.00 pm	06/05/2021	Ms.M.Hemapriya
13	Principles of design of steel and RCC structures	2	3.00 – 5.00 pm	09/05/2021	Ms.M.Hemapriya
14	Applications to simple design problems	2	3.00 – 5.00 pm	11/05/2021	Ms.M.Hemapriya
15	Introduction of Finite Element Analysis	2	3.00 – 5.00 pm	13/05/2021	Ms.M.Hemapriya

HOD

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CERTIFICATE OF PARTICIPATION

This is to Certify that ANKIT BOSE, from Bharath Institute of Higher Education and Research, has participated in value added course on **'New Features in AutoCAD'** presented by **Ms.M.HEMAPRIYA, Assistant Professor,** Organized by School of Civil & Infrastructre Engineering, BIHER from 11.04.2021 To 13.05.2021.

Hemapriya
Coordinator

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

HOD

VALUE ADDED COURSE

Feedback Form

Event Name: NEW FEATURE IN AUTOCADD

Event Venue: Date: 11/4/2021 - 18/5/2021

Name of participant: CHARLES MESTAN. S

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

1	2	3	4	5 ✓

2. Describe what topic is good. Wireframe & Solid Modelling

3. What aspects of the course we improve.

Need to improve practical skills

4. What else would you like to see added.

Software implementations

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Ref: BIHER/BIST/Civil//Spl/2021 **Date: 05/06/2021**

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 **Certification Course on MAT lab Programming skills with** the duration of 30 hours (Two hour per day) and commences from **13/06/2021 to 03/07/2021(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:

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

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Selaiyur Chennai - 600 073.

SCHOOL OF CIVIL & INFRASTRUCTURE ENGINEERING

VALUE ADDED COURSE - CERTIFICATION COURSE ON MAT LAB PROGRAMMING SKILLS

STUDENTS NAME LIST

Sl.NO	Reg No	Name of the students	E-Mail ID
1	U15CE001	AADARSH KUMAR BHARDWAJ S	Aadha2012@gmail.com
2	U15CE002	ABDUL RAHMAN S A	raman18@gmail.com
3	U15CE003	ADITYA KUMAR RAJ	kumar147@gmail.com
4	U15CE004	AJIS KUMAR M	ajis@gmail.com
5	U15CE005	ANUJ YADAV	anuj yadav 406@ Gmail.com
6	U15CE006	ARAVINDAN D	arvnf@gmail.com
7	U15CE007	ARUN K	arun505@gmail.com
8	U15CE008	ARUN YOMSO	yomso316@gmail.com
9	U15CE009	AVULA UDAY KIRAN	udhyakiran46@gmail.com
10	U15CE010	BADUGU MANI BABU	manibabu949@gmail.com
11	U15CE011	BAJOPSKHEMLANG RYNTATHIANG	rtytaniang333@gmail.com
12	U15CE012	BAKKANOLLA MOHAN REDDY	mreddy@gmail.com
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		RAVITHEJA	
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38	U15CE039	JAYASOORYA V	jayasoorya v @gmail.com
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Bharath
INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)

Topic: Certification Course on MAT lab Programming skills

Type of Course: value added course / UG

Department of school of Civil and infrastructure Engineering

Pre-Requisites: Building Materials

Course Duration: 30 hours (13th June '2021)

Intended Audience: Civil Engineering Students

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

Coordinators: Ms.R.Chitra

Objective:

1. Find Roots of non-linear equations by Bisection method and Newton's method.

2. Do curve fitting by least square approximations.

3. Solve the system of Linear Equations using Gauss - Elimination/ Gauss - Seidal Iteration/ Gauss - Jorden Method.

4) To Integrate Numerically Using Trapezoidal and Simpson's Rules

5) To Find Numerical Solution of Ordinary Differential Equations by Euler's Method, Runge-KuttaMethod.

6) To create the awareness and comprehensive knowledge in numerical solutions

COURSE OUTLINE:

This course teaches computer programming to those with little to no previous experience. It uses the programming system and language called MATLAB to do so because it is easy to learn, versatile and very useful for engineers and other professionals. MATLAB is a special-purpose language that is an excellent choice for writing moderate-size programs that solve problems involving the manipulation of numbers. The design of the language makes it possible to write a powerful program in a few lines. The problems may be relatively complex, while the MATLAB programs that solve them are relatively simple: relative that is, to the equivalent program written in a general-purpose language, such as C++ or Java. As a result, MATLAB is being used in a wide variety of domains from the natural sciences, through all disciplines of engineering, to finance, and beyond, and it is heavily used in industry. Hence, a solid background in MATLAB is an indispensable skill in today's job market.

Nevertheless, this course is not a MATLAB tutorial. It is an introductory programming course that uses MATLAB to illustrate general concepts in computer science and programming. Students who successfully complete this course will become familiar with general concepts in computer science, gain an understanding of the general concepts of programming, and obtain a solid foundation in the use of MATLAB. Students taking the course will get a MATLAB Online license free of charge for the duration of the course. The students are encouraged to consult the eBook that this course is based on. More information about these resources can be found on the Resources menu on the right.

Value Added Course

Certification Course on MAT lab Programming skills

Content of Syllabus

S.No.	Syllabus Details	No. of Lecture hrs	Time	Date	Lecture name
1	Find the Roots of Non-Linear Equation Using Bisection Method	2	10.45 am to 12.45am	13.06.21	Ms.R.Chitra
2	Find the Roots of Non-Linear Equation Using Newton's Method	2	02.00 pm to 04.00 pm	14.06.21	Ms.R.Chitra
3	Curve Fitting by Least Square	2	10.45 am to 12.45am	15.06.21	Ms.R.Chitra
4	Approximations solutions	2	02.00 pm to 04.00 pm	16.06.21	Ms.R.Chitra
5	Solve the System of Linear Equations Using Gauss	2	10.45 am to 12.45am	19.06.21	Ms.R.Chitra
6	Seidal Iteration Method.	2	02.00 pm to 04.00 pm	20.06.21	Ms.R.Chitra
7	Solve the System of Linear Equations Using Gauss	2	10.45 am to 12.45am	21.06.21	Ms.R.Chitra
8	Jorden Method.	2	02.00 pm to 04.00 pm	22.06.21	Ms.R.Chitra
9	Integrate numerically using Trapezoidal	2	10.45 am to 12.45am	23.06.21	Ms.R.Chitra
10	Rule. Integrate numerically using Simpson's Rules	2	02.00 pm to 04.00 pm	26.06.21	Ms.R.Chitra
11	Numerical Solution of Ordinary Differential Equations By Euler's Method.	2	10.45 am to 12.45am	27.06.21	Ms.R.Chitra
12	Numerical Solution of Ordinary Differential Equations ByRunge	2	02.00 pm to 04.00 pm	28.06.21	Ms.R.Chitra
13	Kutta Method.	2	10.45 am to 12.45am	29.06.21	Ms.R.Chitra
14	Partial Differential Equations	2	02.00 pm to 04.00 pm	30.06.21	Ms.R.Chitra
15	The Weak and Strong Formulation	2	10.45 am to 12.45am	3.07.21	Ms.R.Chitra

HOD

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BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

CERTIFICATE OF PARTICIPATION

This is to Certify that ARUN YOMSO, from Bharath Institute of Higher Education and Research, has participated in value added course on '**Certification Course of MAT Lab Programming Skills** ' presented by **Tmt .R.Chitra, Assistant Professor,** Organized by School of Civil & Infrastructure Engineering, BIHER from 13.06.2021 To 03.07.2021.

Coordinator

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

HOD

VALUE ADDED COURSE

Feedback Form

Event Name: MATLAB programming skills

Event Venue: Date: 13/6/2021 to 3/7/2021

Name of participant: KAPOOR. M

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

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

Ref: BIHER/BIST/Civil//Spl/2021 **Date: 15/06/2021**

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 **Introduction to Ruby** with the duration of 30 hours (Two hour per day) and commences from **30.6.21** To **28.7.21 (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:

Mr.S.Rajesh
Assistant Professor / School of Civil and Infrastructure Engineering.,
Course Coordinator
Bharath Institute of Higher Education & Research.
Email id: rajeshskr062gmail.com

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

Value Added Course: Introduction to Ruby

NAME LIST:

S.NO	REG NO	NAME OF THE CANDIDATE
1	U15CE001	AADARSH KUMAR BHARDWAJ S
2	U15CE003	ADITYA KUMAR RAI
3	U15CE005	ANUJ YADAV
4	U15CE006	ARAVINDAN D
5	U15CE008	ARUN YOMSO
6	U15CE010	BADUGU MANI BABU .
7	U15CE011	BAJOPSKHEMLANG RYNTATHIANG
8	U15CE012	BAKKANOLLA MOHAN REDDY .
9	U15CE013	BELLAMKONDA LEELA MOHAN .
10	U15CE014	BOYA Naresh NARESH
11	U15CE015	BUNGCHA MOIRANGTHEM
12	U15CE017	DABBADI ABHINAY KUMAR .
13	U15CE018	DEIMONMITRE DKHAR
14	U15CE020	DHANUSH KUMAR P
15	U15CE021	DHINAKARAN R
16	U15CE022	DHINESH M
17	U15CE023	DIPENDRA KUMAR YADAV
18	U15CE024	EDEGABODDU NARASIMHA RAVITHEJA .
19	U15CE025	GADHIRAJU NARENDRA VARMA .
20	U15CE026	GANESH PERUMAL V
21	U15CE028	GARAPATI LALITHKISHOR
22	U15CE031	GUDDETTI KEERTHANA
23	U15CE032	HARIS REYAZ
24	U15CE034	IAISHAH SUCHIANG
25	U15CE038	JAYAPRABAAKAR V
26	U15CE039	JAYASOORYA V
27	U15CE040	JIJOWILSON .
28	U15CE041	KAMALESH KUMAR A
29	U15CE042	KANGARI RANJEETH REDDY .
30	U15CE043	KAPOOR M
31	U15CE044	Kavitha T T
32	U15CE047	KSHETRIMAYUM WANGLEN SINGH .
33	U15CE050	MACHIRAJU SURESH
34	U15CE051	MANIKANDAN P
35	U15CE054	MD SHAHID IQUBAL .
36	U15CE055	Mekapothu Yeswanth Reddy
37	U15CE056	MISHRA BINIT PARMANAND .
38	U15CE057	MISHRA SHIVAM RAVINDRA .
39	U15CE058	MOHAMED ARSHAD ALI A K
40	U15CE060	MOHAMMAD IRFAN
41	U15CE061	MOHAMMAD MUJEEB UR RAHMAN

42	U15CE062	MOODIFIELD LYNGDOH
43	U15CE063	MORAM VENKATA SAI ADITHYA TEJA
44	U15CE064	MUDDADA RAVITEJA

Value Added Course: Introduction to Ruby

Content of Syllabus

S.No.	Syllabus Details	No. of Lecture Hours	Date	Time	Lecture Name
1.	Intro to ruby program	2 hrs	30.6.21	4 Pm To 6 pm	Ms.S. Thendral
2.	Comments And Errors	2 hrs	2.7.21	4 Pm To 6 pm	Ms.S. Thendral
3.	Math Operators	2 hrs	5.7.21	4 Pm To 6 pm	Ms.S. Thendral
4.	Floats And Integers	2 hrs	6.7.21	4 Pm To 6 pm	Ms.S. Thendral
5.	Comparison Operators	2 hrs	7.7.21	4 Pm To 6 pm	Ms.S. Thendral
6.	Variables	2 hrs	8.7.21	4 Pm To 6 pm	Ms.S. Thendral
7.	Assignment Operators	2 hrs	11.7.21	4 Pm To 6 pm	Ms.S. Thendral
8.	Getting User Input With Gets	2 hrs	12.7.21	4 Pm To 6 pm	Ms.S. Thendral
9.	Git Bash Weirdness	2 hrs	14.7.21	4 Pm To 6 pm	Ms.S. Thendral
10.	If / Then / Else / Elsif Statements	2 hrs	15.7.21	4 Pm To 6 pm	Ms.S. Thendral
11.	Multiple Conditional If / Then Statements	2 hrs	18.7.21	4 Pm To 6 pm	Ms.S. Thendral
12.	String Manipulation	2 hrs	19.7.21	4 Pm To 6 pm	Ms.S. Thendral
13.	Arrays	2 hrs	207.21	4 Pm To 6 pm	Ms.S. Thendral
14.	Array Manipulation	2 hrs	21.7.21	4 Pm To 6 pm	Ms.S. Thendral
15.	While Loops	2 hrs	22.7.21	4 Pm To 6 pm	Ms.S. Thendral
16.	Until Loops	2 hrs	25.7.21	4 Pm To 6 pm	Ms.S. Thendral
17.	For and Each Loops	2 hrs	26.7.21	4 Pm To 6 pm	Ms.S. Thendral
18.	Hash Manipulation	2 hrs	27.7.21	4 Pm To 6 pm	Ms.S. Thendral
19.	Random Number Generation	2 hrs	28.7.21	4 Pm To 6 pm	Ms.S. Thendral

HOD
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Selaiyur, Chennai - 600 073.

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INSTITUTE OF HIGHER EDUCATION AND RESEARCH
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Topic: Introduction to Ruby

Type of Course: value added course

Department: School of Civil and infrastructure Engineering

Pre-Requisites: Familiar with fundamental programming concepts

Course Duration: 38 hours (30.6.2021)

Intended Audience: Civil Engineering Students

Industries Applicable To: All companies that deal with the Civil & Environmental engineering development

Coordinators: Mr. S. Rajesh

Objective:

- Setup the Ruby development environment
- Learn the fundamentals of the Ruby language
- Learn about the built-in Ruby libraries and APIs
- Learn the principals of object-oriented programming (OOP) in Ruby
- Built-in data types: Using them and inheriting from them in classes you design.
- Scheme for creating and using libraries and packages.

COURSE OUTLINE:

In programming and computer science in general, there is a concept called abstraction. Abstraction ensures that as users, we're far removed from what's happening "under the hood". A simple example will help illustrate this concept.

Think about the mobile phone you use every day to communicate with your friends and loved ones. Basically, you want to make and receive calls, send/receive text messages, check your face book/twitter and maybe take some pictures. As a user, you only care about the basic functionalities the phone makes available to communicate. Stated differently, you're dealing with an interface provided by the manufacturer of the phone.

The phone technician, on the other hand, must repair the phone and is faced with a different level of abstraction. She's well-versed in how the different components interact with the various sub-systems of the phone. Further down, the software engineer is concerned with the Operating System and deals with yet another layer of abstraction.

The above analysis is similar to what happens with computers. The user or client uses computers to listen to music, send emails, play games and more. They interact with the applications that make these tasks possible without any knowledge of the low level details. Programmers are also offered a level of abstraction by making use of a programming language like Ruby, which is written in C, which translates to Assembly language, which translates to machine language to translate 0s and 1s into something the computer understands. That means, every programming language is based on other lower level layers of code that make it easy to use. Another level of abstraction is how Ruby programmers use the Ruby programming language to design and build higher level languages called Domain Specific Languages or DSL's like Rails, We do not necessarily need to know how these DSL's are implemented, but we know they exist and know how to use them.

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CERTIFICATE OF PARTICIPATION

This is to Certify that ANUJ YADAV, from Bharath Institute of Higher Education and Research, has participated in value added course on **'Introduction to Ruby'** presented by Mr.S.Rajesh, **Assisstant Professor,** Organized by School of Civil & Infrastructre Engineering, BIHER from **30.6.21** To **28.7.21.**

Coordinator

HOD

VALUE ADDED COURSE

Feedback Form

Event Name: INTRODUTION TO RUBY

Event Venue: Date: 30/6/2021

Name of parti cipant: ANUJ YADAV

CONTENT

Was the content interesting?	Yes ✓	No
Was the content understandable?	Yes ✓	No
Was there clarity in the content?	Yes ✓	No

STRUCTURE

(Rate from 1 to 5 where 1 being the least)

How was the focus of the talk good?	1	2	3	4	5 ✓
How far you found the lecture useful?	1	2	3	4	5 ✓
How far did the lecturer meet your expectations?	1	2	3	4	5 ✓

What struck you about this topic? _____

PRESENTATION

(Rate from 1 to 5 where 1 being the least)

How far the lecturer managed to capture your attention?	1	2	3	4	5 ✓
How did you find the lecturer vocabulary?	1	2	3	4	5 ✓
How far audience participation & interaction encouraged?	1	2	3	4	5 ✓
How far the lecturer appeared enthusiastic about the subject?	1	2	3	4	5 ✓

OVERALL

Where you satisfied with the lecture?	Yes ✓	No	
Was the lecturer able to answer your questions?	Yes ✓	No	
What is your overall impression about the lecture?	Good ✓	Average	Ok

What suggestions do you have to improve the lecturers approach? More of Practical Sessions

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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

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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
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36	U14CE164	RATHNAM.A.V.R	avrrathnam@gmail.com
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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
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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

HOD

of the Dept
Civil Engineering
Sathyabama Institute of Higher
Education & Research
Chennai - 600 119.

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Value Added Course

Course on Cement and Concrete Technology

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A NAAC
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

CERTIFICATE OF participation

This is to Certify that RAJESH.S, 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.

K. Kiruthiga.
Coordinator

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

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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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

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Bharath Institute of Higher
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Selaiyur, Chennai - 600 073.

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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

HOD

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

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BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

CERTIFICATE OFPARTICIPATION

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 &Infrastructre Engineering, BIHER**, from 13th April 2021 to 4th May 2021

Coordinator

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

HOD

VALUE ADDED COURSE

Feedback Form

Event Name: Introduction to Environmental Toxicology and health

Event Venue: Date: 13/4/21

Name of participant: KAVITA

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.

—

4. What else would you like to see added.

—

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Ref: BIHER/BIST/Civil//Spl/2021 **Date: 07/01/2021**

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 **Short term Course on Radioecology** with the duration of 30 hours (Two hours per day) and commences from **28/03/2021 to 15/04/2021 (online).**

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:

Mrs. B. Saritha
Associate Professor
Bharath Institute of Higher Education & Research.
Email id: saritha.civil@bharathuniv.ac.in

HOD

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

Value Added Course

Short term Course on Radioecology

Students Name List:

Sl.No	Reg No.	Name of the Student
1	U14CE060	GAUTAM KUMAR
2	U14CE061	GENDAN NORBU
3	U14CE062	GOVINDHARAJ .B
4	U14CE063	GUTHULA SUNIL KUMAR
5	U14CE064	HAREE KRISHNAN.M
6	U14CE065	HARISH KUMAR REDDY .G
7	U14CE066	HEMA CHANDREN.M
8	U14CE067	HEMANTH VENKAT SAI.B
9	U14CE068	HOPEFULMAN BAREH
10	U14CE069	IBANKERLANG KHARSYNTENG
11	U14CE070	INJETI VAMSI DHAR REDDY
12	U14CE071	IRFAN AHAMED.R
13	U14CE072	JACQUELINE ELIZABETH .D
14	U14CE073	JAJAM VENKATA SATISH TEJA
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18	U14CE077	KALTHI REDDY KISHORE REDDY
19	U14CE078	KAMMA KOTESWARA RAO
20	U14CE079	KANAGASUNDARI.V
21	U14CE080	KARTHIK RAJA.P
22	U14CE081	KARUPPAN CHETTY.N
23	U14CE082	KASA NAGENDRA REDDY
24	U14CE083	KASHIF SHAZADA
25	U14CE084	KAVITA
26	U14CE085	KIRUBANANDAN.Y
27	U14CE086	KONDURU SURENDRA
28	U14CE087	KRISHNAKANT ROY
29	U14CE088	LAKSHMI KANTH.A
30	U14CE089	LATHA.S
31	U14CE090	LAVANYA.B
32	U14CE091	LOGESHWARAN.S
33	U14CE092	LOKESH .S
34	U14CE093	LUKKEN RAKSAP
35	U14CE094	MADHAN KUMAR.P
36	U14CE095	MADHINANI GOPI
37	U14CE096	MADUPALLI AKHIL
38	U14CE097	MAHADEV BAITHA
39	U14CE098	MANIARASU.R
40	U14CE099	MANIRATHNAM.T
41	U14CE100	MANIVEL RAJA

42	U14CE101	MANJOT SINGH
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45	U14CE104	MANU THOMAS MUNDATTUMKUZHY
46	U14CE105	MARGE KOYU
47	U14CE106	MARPIUS AGITOK SANGMA
48	U14CE107	MARREDDY.HITHESWAR REDDY
49	U14CE108	MARRI AKHIL
50	U14CE109	MARRI JHANSI RANI
51	U14CE110	MASHETTY. SATHVIK

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

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Topic: Short term Course on Radioecology

Type of Course: value added course / UG

Department of school of Civil and infrastructure Engineering

Pre-Requisites: Environmental Science and Engineering.

Course Duration: 30 hours (28th Mar 2021)

Intended Audience: Civil Engineering students

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

Coordinator: Mrs. B. Saritha

Objectives:

a) This course aims to make the students to determine the concentrations of radionuclides in the environment.

b) The students shall be able to understand their methods of introduction.

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

d) Students will be able to outline their mechanisms of transfer within and between ecosystems.

e) Students shall be able to understand the effects of both natural and artificial radioactivity on the environment itself as well as dosimetrically on the human body.

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 atomic radiation. Radioecology is the branch of ecology concerning the presence of radioactivity in Earth's ecosystems. Investigations in radioecology include field sampling, experimental field and laboratory procedures, and the development of environmentally predictive simulation models in an attempt to understand the migration methods of radioactive material throughout the environment.

The practice consists of techniques from the general sciences of physics, chemistry, mathematics, biology, and ecology, coupled with applications in radiation protection. Radioecological studies provide the necessary data for dose estimation and risk assessment regarding radioactive pollution and its effects on human and environmental health.

Radioecologists detect and evaluate the effects of ionizing radiation and radionuclides on ecosystems, and then assess their risks and dangers. Interest and studies in the area of radioecology significantly increased in order to ascertain and manage the risks involved as a result of the Chernobyl disaster. Radioecology arose in line with increasing nuclear activities, particularly following the Second World War in response to nuclear atomic weapons testing and the use of nuclear reactors to produce electricity.

They must be interested in the subject matter and willing to look at radioactive pollution 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.

Value Added Course

Short term Course on Radioecology

Content of Syllabus

S.No.	Syllabus Details	No. of Lecture hrs	Time	Date	Lecturer Name
1	Introduction to Radioecology	1	10.45 am to 11.45am	28.03.21	Mrs.B.Saritha
2	Environmental radioactivity	1	03.00 pm to 04.00 pm	28.03.21	Mrs.B.Saritha
3	The development of the ICRP philosophy	1	10.45 am to 11.45am	29.03.21	Mrs.B.Saritha
4	Radiation: Causes, Impacts	1	03.00 pm to 04.00 pm	29.03.21	Mrs.B.Saritha
5	Protecting the environment from radiation exposure	1	10.45 am to 11.45am	30.04.21	Mrs.B.Saritha
6	International efforts for restricting discharges of radioactive substances	1	03.00 pm to 04.00 pm	30.04.21	Mrs.B.Saritha
7	Global trends in radiationecology	1	10.45 am to 11.45am	31.04.21	Mrs.B.Saritha
8	Complex emergencies	1	03.00 pm to 04.00 pm	31.04.21	Mrs.B.Saritha
9	Approaches to Radiation Risk Reduction	1	10.45 am to 11.45am	01.04.21	Mrs.B.Saritha
10	Approaches to Radiation Risk Reduction	1	03.00 pm to 04.00 pm	01.04.21	Mrs.B.Saritha
11	Ensuring protection of non-human species	1	10.45 am to 11.45am	04.04.21	Mrs.B.Saritha
12	Prevention and Preparedness	1	03.00 pm to 04.00 pm	04.04.21	Mrs.B.Saritha
13	Prevention, Mitigation and Preparedness	1	10.45 am to 11.45am	05.04.21	Mrs.B.Saritha
14	Roles and Responsibilities of community, States,	1	03.00 pm to 04.00 pm	05.04.21	Mrs.B.Saritha
15	Roles and Responsibilities of Centre, and other stake-holders.	1	10.45 am to 11.45am	06.04.21	Mrs.B.Saritha
16	Inter-relationship between Radiation & Development	1	03.00 pm to 04.00 pm	06.04.21	Mrs.B.Saritha
17	Inter-relationship between Radiation & Development	1	10.45 am to 11.45am	07.04.21	Mrs.B.Saritha

18	A nuclear industry perspective	1	03.00 pm to 04.00 pm	07.04.21	Mrs.B.Saritha
19	Appropriate technology and local resources	1	10.45 am to 11.45am	08.04.21	Mrs.B.Saritha
20	Hazard and Vulnerability profile of India	1	03.00 pm to 04.00 pm	08.04.21	Mrs.B.Saritha
21	Hazard and Vulnerability profile of India	1	10.45 am to 11.45am	11.04.21	Mrs.B.Saritha
22	Components of Radiation Relief: Water, Food.	1	03.00 pm to 04.00 pm	11.04.21	Mrs.B.Saritha
23	Components of Radiation Relief: Shelter, Health	1	10.45 am to 11.45am	12.04.21	Mrs.B.Saritha
24	Regulatory control of discharges of radioactive material to the environment	1	03.00 pm to 04.00 pm	12.04.21	Mrs.B.Saritha
25	Mitigation, Response and Preparedness	1	10.45 am to 11.45am	13.04.21	Mrs.B.Saritha
26	Mitigation, Response and Preparedness	1	03.00 pm to 04.00 pm	13.04.21	Mrs.B.Saritha
27	Regulatory control of discharges of radioactive material to the environment : A regulator's view	1	10.45 am to 11.45am	14.04.21	Mrs.B.Saritha
28	Regulatory control of discharges to the environment: An operator's view	1	03.00 pm to 04.00 pm	14.04.21	Mrs.B.Saritha
29	Protection of the environment from the effects of ionizing radiation associated with uranium mining	1	10.45 am to 11.45am	15.04.21	Mrs.B.Saritha
30	Regulating non-radioactive environmental pollutants	1	03.00 pm to 04.00 pm	15.04.21	Mrs.B.Saritha

HOD

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Selaiyur, Chennai - 600 073.

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BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

CERTIFICATE OFPARTICIPATION

This is to Certify that KADHIR SHANKAR . R , Bharath Institute of Higher Education and Research, has participated in value added course on 'Short term Course on Radioecology',presented by **Mrs B. Saritha., Associate Professor, School of Civil &Infrastructre Engineering, BIHER,** from 2.7.2021 to 22.7.2021

Saritha
Coordinator

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

Event Name: Course on Radioecology

Event Venue: Date: BIHER, 15/04/2021

Name of parti cipant: Kadhir Shankar . R

CONTENT

Was the content interesting?	✓ Yes	No
Was the content understandable?	✓ Yes	No
Was there clarity in the content?	✓ Yes	No

STRUCTURE

(Rate from 1-5 where 1 being the least)

How was the focus of the talk good?	1	2	3	✓ 4	5
How far you found the lecture useful?	1	2	3	4	✓ 5
How far did the lecturer meet your expectations?	1	2	3	4	✓ 5

What struck you about this topic? _____

PRESENTATION

(Rate from 1-5 where 1 being the least)

How far the lecturer managed to capture your attention?	1	2	3	4	✓ 5
How did you find the lecturer vocabulary?	1	2	3	4	✓ 5
How far audience participation & interaction encouraged?	1	2	3	4	✓ 5
How far the lecturer appeared enthusiastic about the subject?	1	2	3	4	✓ 5

OVERALL

Where you satisfied with the lecture?	✓ Yes	No	
Was the lecturer able to answer your questions?	✓ Yes	No	
What is your overall impression about the lecture?	✓ Good	Average	Ok

What suggestions do you have to improve the lecturers approach? —