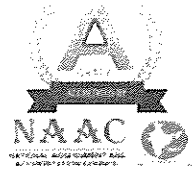


Bharath

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/2019

Date: 23/07/2019

CIRCULAR

The School of Civil and Infrastructure Engineering is planned to conduct a Value Added Course on **Leadership Quality** for the benefit of II, III, IV B.Tech students. This value added course commences from 29/07/2019 with the duration of 38 hours (Two hour per day), 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 2 days before the commencement of course.

Contact:

Ms.S.THENDRAL

Assistant Professor / School of Civil & Infrastructure Engineering,

Course Coordinator

Bharath Institute of Higher Education & Research.

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

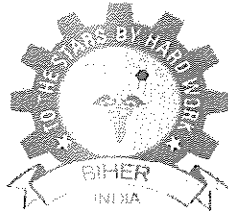

HOD

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

**BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH
SCHOOL OF INFRASTRUCTURE ENGINEERING
LIST OF THE STUDENTS**

Sl.NO	Reg No	Name of the students	Email id	Contacts Number
1	U17CE071	MOGILI SRIKANTH	srikanthmogili0@gmail.com	9600052027
2	U17CE072	BHUKYA VENKATA NARASIMMA	venkatbhukya0456@gmail.com	9848550456
3	U17CE074	DHARASAN .K	dharasansweni16@gmail.com	7708581626
4	U17CE075	NIMMAKAYALA SURYAVAMSI REDDY	suryavamsireddy000@gmail.com	7780296604
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Topic: Leadership Quality

Type of Course: value added course

Department: School of Civil and infrastructure Engineering

Pre-Requisites: Organizational behavior

Course Duration: 38 hours (29.7 2019)

Intended Audience: Civil Engineering Students

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

Coordinators: Ms S.Thendral & Mr. S. Rajesh

Objective:

- Students will develop critical thinking skills.
- Students will develop an understanding of change processes and be able to think critically about obstacles to change
- Students will understand and be able to use a process for decision making.
- Students will understand the history of leadership and current leadership theories.
- In addition, students will understand how leadership models are put into practice personally, locally, and globally.

COURSE OUTLINE:

The concept of leadership has been employed within different context and at different levels of analysis e.g. self-leadership, small-group leadership, organizational leadership and national leadership. The primary purpose of this course is to serve as a catalyst for the students of leadership's thinking and dialogue about leaders and the process of leadership.

The learner will participate in a simulated workplace scenario in our applied learning lab, where they will apply core leadership skills such as decision-making, teamwork, human resource management, and crisis leadership – and see the immediate results of their choices. Coaches will provide feedback on strengths as a leader and areas for further development; learn to act out of humanitarian values, such as being committed to social justice, engaging in social responsibility, and serving as positive social change agents. To develop and explore their own competence with regards to the dimensions of difference, especially as it relates to others in their communities, gain a greater understanding of their own personal identities and how their identities shape their leadership and followership.

To develop a comprehensive set of practical skills and tools to rely on through leadership practice. Such skills and tools include time management, meeting management and agenda setting, group dynamics, and team building.

To learn how to communicate effectively (using written and spoken word, non-verbal language, electronic tools, and listening skills) to develop relationships, manage conflicts, and work across differences, to learn the skills to engage in conflict productively and work toward conflict resolution. Students will learn how to effectively articulate their set of practical skills and tools on a resume, in a portfolio, and during interviews.

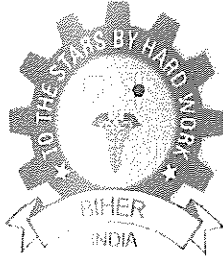
Value Added Course: Leadership Quality

Content of Syllabus

S.No.	Syllabus Details	No. of Lecture Hours	Date	Time	Lecture Name
1.	Develop personal goals and objectives	2 hrs	29.7.2019	4 Pm To 6 pm	Ms.S. Thendral
2.	Determine and discuss typical ideas about leadership	2 hrs	30.7.2019	4 Pm To 6 pm	Ms.S. Thendral
3.	Develop a database on leadership and leadership traits	2 hrs	31.7.19	4 Pm To 6 pm	Ms.S. Thendral
4.	Analyze and discuss three definitions of leadership	2 hrs	1.8.19	4 Pm To 6 pm	Ms.S. Thendral
5.	Examine the nature of intention and its relationship to leadership	2 hrs	2.8.19	4 Pm To 6 pm	Ms.S. Thendral
6.	Determine typical barriers to realizing intention	2 hrs	5.8.19	4 Pm To 6 pm	Ms.S. Thendral
7.	Develop an awareness of unconscious intentions	2 hrs	6.8.19	4 Pm To 6 pm	Ms.S. Thendral
8.	Assess the roles of courage and commitment in leadership	2 hrs	7.8.19	4 Pm To 6 pm	Ms.S. Thendral
9.	Compare different leadership styles	2 hrs	8.8.19	4 Pm To 6 pm	Ms.S. Thendral
10.	Develop individual acts of leadership	2 hrs	9.8.19	4 Pm To 6 pm	Ms.S. Thendral
11.	Expand one's self-concept as a leader	2 hrs	13.8.19	4 Pm To 6 pm	Ms.S. Thendral
12.	Incorporate feedback into developing commitments and plans	2 hrs	14.8.19	4 Pm To 6 pm	Ms.S. Thendral
13.	Develop individual acts of leadership	2 hrs	15.8.19	4 Pm To 6 pm	Ms.S. Thendral
14.	Expand one's self-concept as a leader	2 hrs	16.8.19	4 Pm To 6 pm	Ms.S. Thendral
15.	Compare different leadership styles	2 hrs	19.8.19	4 Pm To 6 pm	Ms.S. Thendral
16.	Analyze and discuss three definitions of leadership	2 hrs	20.8.19	4 Pm To 6 pm	Ms.S. Thendral
17.	Examine the nature of intention and its relationship to leadership	2 hrs	21.8.19	4 Pm To 6 pm	Ms.S. Thendral
18.	Develop an awareness of unconscious intentions	2 hrs	22.8.2019	4 Pm To 6 pm	Ms.S. Thendral
19.	Assess the roles of courage and commitment in leadership	2 hrs	23.8.2019	4 Pm To 6 pm	Ms.S. Thendral

HOD

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SCHOOL OF INFRASTRUCTURE ENGINEERING

VALUE ADDED COURSE – LEADERSHIP QUALITY

Date: 29.07.2019

Year/Sem: II /IV



SCHOOL OF INFRASTRUCTURE ENGINEERING**VALUE ADDED COURSE – Leadership Quality****Date: 29.07.2019****Year/Sem: II /IV**

Sl.NO	Reg No	Name of the students	Email id	Contacts Number
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DEEMED-TO-BE UNIVERSITY



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

CERTIFICATE OF PARTICIPATION

This is to Certify that Pavithra S. R,

Bharath Institute of Higher Education and Research, has participated in value added course on 'Leadership Quality' presented by **Ms. THEENDRAL. S, Assistant Professor**, Organized by School of Civil & Infrastructure Engineering, Bharath Institute of Science & Technology, BIHER from 29.07.2019 To 23.8.2019.

Coordinator

HOD

Head of the Dept.
(Civil Engineering)

Bharath Institute of Higher
Education & Research,
Selaipur, Chennai - 600 073.

VALUE ADDED COURSE

Feedback Form

Event Name: LEADERSHIP QUALITY

Event Venue: Date: 29/7/2019

Name of participant: PAVITHRAN 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
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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
-------	----

VALUE ADDED COURSE

Feedback Form

Event Name: LEADERSHIP QUALITY

Event Venue: Date: 29/7/2019

Name of participant: MOHAMMED YUSUF A

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

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

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

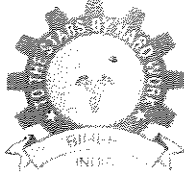
YES ✓	NO
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3. Did you receive all the information you required at this Venue?

YES ✓	NO
-------	----

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

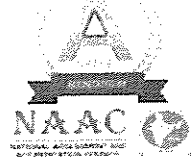
YES ✓	NO
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No. 173, Agharam Road, Selaiyur, Chennai , T.N - 600 073.

Ref: BIHER/BIST/Civil//Spl/2019

Date: 05/08/2019

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 decision making under uncertainty**. With the duration of 30 hours (Two hour per day) and commences from **28/08/2019 to 30/09/2019**.

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

HOD

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

Value Added Course

COURSE ON DECISION MAKING UNDER UNCERTAINTY

Name list:

Sl.NO	Reg No	Name of the students	E-mail Id	Phone
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2	U17CE042	KAKARLA RAMANAIDU	ramlaxmankakarla173137@gmail.com	7287033416
3	U17CE043	ILLURI JAYA VENKATA SIVA SAI KUMAR	saikumarilluri222@gmail.com	7993463966
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Value Added Course

COURSE ON DECISION MAKING UNDER UNCERTAINTY

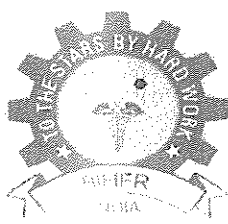
Content of Syllabus

S.No.	Syllabus Details	No. of Lecture hrs	Time	Date	Lecture name
1	Simple Static Stochastic Optimization Models	1	10.45 am to 11.45am	28.08.19	Ms.R.Chitra
2	Using data to model currency exchange rates, stock prices, commodity prices, air travel demand	1	03.00 pm to 04.00 pm	29.08.19	Ms.R.Chitra
3	Brief introduction to Monte Carlo simulation	1	10.45 am to 11.45am	30.08.19	Ms.R.Chitra
4	Optimal financial hedging strategies	1	03.00 pm to 04.00 pm	01.09.19	Ms.R.Chitra
5	Supply contract selection	1	10.45 am to 11.45am	02.09.19	Ms.R.Chitra
6	Airline booking control	1	03.00 pm to 04.00 pm	03.09.19	Ms.R.Chitra
7	Sequential Decision Making: Decision Tree	1	10.45 am to 11.45am	05.09.19	Ms.R.Chitra
8	Introduction to decision tree	1	03.00 pm to 04.00 pm	06.09.19	Ms.R.Chitra
9	Introduction to decision tree	1	10.45 am to 11.45am	07.09.19	Ms.R.Chitra
10	Bayesian update	1	03.00 pm to 04.00 pm	08.09.19	Ms.R.Chitra
11	Real Options and Decision Tree	1	10.45 am to 11.45am	09.09.19	Ms.R.Chitra
12	Value an R&D project: managing technology risk	1	03.00 pm to 04.00 pm	10.09.19	Ms.R.Chitra
13	Value a license agreement	1	10.45 am to 11.45am	12.09.19	Ms.R.Chitra
14	Options to postpone, expand, and contract	1	03.00 pm to 04.00 pm	13.09.19	Ms.R.Chitra
15	Sequential Decision Making: Stochastic Dynamic Programming	1	10.45 am to 11.45am	14.09.19	Ms.R.Chitra
16	Introduction to dynamic programming	1	03.00 pm to 04.00 pm	15.09.19	Ms.R.Chitra
17	Binomial tree	1	10.45 am to 11.45am	16.10.19	Ms.R.Chitra

18	American option pricing, Two-Stage Stochastic Optimization with Recourse	1	03.00 pm to 04.00 pm	17.09.19	Ms.R.Chitra
19	Targeted marketing	1	10.45 am to 11.45am	19.09.19	Ms.R.Chitra
20	Sequential Decision Making: Implementing Simple Policies	1	03.00 pm to 04.00 pm	20.09.19	Ms.R.Chitra
21	- Inventory management at a retail pharmacy	1	10.45 am to 11.45am	21.09.19	Ms.R.Chitra
22	Optimal timing for market entry,	1	03.00 pm to 04.00 pm	22.09.19	Ms.R.Chitra
23	Cash management at a retail bank, Process flexibility: hedging demand risk	1	10.45 am to 11.45am	23.09.19	Ms.R.Chitra
24	Forecasting Methods, Combing Simulation with Linear Optimization	1	03.00 pm to 04.00 pm	24.09.19	Ms.R.Chitra
25	Moving average, Combing Simulation with Linear Optimization	1	10.45 am to 11.45am	25.09.19	Ms.R.Chitra
26	Trends, Seasonality, Value-at-risk	1	03.00 pm to 04.00 pm	26.09.19	Ms.R.Chitra
27	Re-optimization- Introduction to linear programming, Production planning with forecasted demand	1	10.45 am to 11.45am	27.09.19	Ms.R.Chitra
28	Airline revenue management	1	03.00 pm to 04.00 pm	28.09.19	Ms.R.Chitra
29	Chance-Constrained Stochastic Optimization	1	10.45 am to 11.45am	29.09.19	Ms.R.Chitra
30	Capital budgeting: when projects have uncertain NPVs and uncertain capital usage	1	03.00 pm to 04.00 pm	30.09.19	Ms.R.Chitra


HOD

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Selayur, Chennai - 600 073.



Sharath

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

Topic: Course on decision making under Uncertainty.

Type of Course: value added course / UG

Department of school of Civil and infrastructure Engineering

Pre-Requisites: Building Materials

Course Duration: 30 hours (28 sep' 2019)

Intended Audience: Civil Engineering Students

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

Coordinators: Ms.R.Chitra

Objective:

From this course, students will

- Become aware of the scope of management problems that can be addressed with stochastic optimization models; and learn to identify opportunities for creating value using these models.
- Develop models that can be used to improve decision making under uncertainty within an organization.
- Sharpen their ability to structure problems and to perform logical analyses.
- Know how to assess the significance of model outputs for managerial insights and action.

COURSE OUTLINE:

This course introduces the basic concepts, principles, and techniques of decision making under uncertainty. You will learn how to model complex business problems that involve risk and uncertainty with the help of spreadsheet models. The course covers analytical models such as Decision Tree, Stochastic Optimization, Simulation & Optimization, and Dynamic Optimization. The course is hands-on. The emphasis will be on model formulation and interpretation of results, not on mathematical theory. This course does NOT require the course "Decision Models and Analytics" (DMA) as a prerequisite. This course emphasizes optimization models with uncertain parameter values. In contrast, the DMA course focuses on various deterministic optimization models and Monte Carlo simulation. You are encouraged to take both courses.



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BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

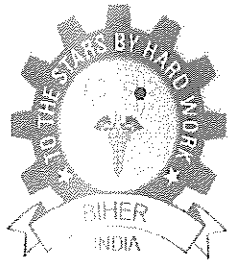
CERTIFICATE OF PARTICIPATION

This is to Certify that RIYAS . A, from Bharath Institute of Higher Education and Research, has participated in value added course on '**Course on decision making under Uncertainty**' presented by **Ms.R.Chitra., Assistant Professor, Organized by School of Civil & Infrastructure Engineering, Bharath Institute of Science & Technology, BIHER** from 28.08.2019 To 30.09.2019.

Coordinator

HOD

School of Civil & Infrastructure Engineering
(Civil Engineering)
Bharath Institute of Higher
Education & Research.



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INSTITUTE OF HIGHER EDUCATION AND RESEARCH
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SCHOOL OF CIVIL & INFRASTRUCTURE ENGINEERING

VALUE ADDED COURSE

COURSE ON DECISION MAKING UNDER UNCERTAINTY

Date: 12.09.2019

Year/Sem: II /III



VALUE ADDED COURSE

Feedback Form

Event Name: Course on Decision Making Under Uncertainty.

Event Venue: Date: 28.08.19 - 30.09.19

Name of participant: RIYAS A

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

Were 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? _____

VALUE ADDED COURSE

Feedback Form

Event Name: Course on Decision Making Under Uncertainty

Event Venue: Date: 28.08.19 - 30.09.19

Name of participant: Kianson Kshir

CONTENT

Was the content interesting?	Yes <input checked="" type="checkbox"/>	No
Was the content understandable?	Yes <input checked="" type="checkbox"/>	No
Was there clarity in the content?	Yes <input checked="" type="checkbox"/>	No

STRUCTURE

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

How was the focus of the talk good?	1	2	3	4	5 <input checked="" type="checkbox"/>
How far you found the lecture useful?	1	2	3	4	5 <input checked="" type="checkbox"/>
How far did the lecturer meet your expectations?	1	2	3	4	5 <input checked="" type="checkbox"/>
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 <input checked="" type="checkbox"/>
How did you find the lecturer vocabulary?	1	2	3	4	5 <input checked="" type="checkbox"/>
How far audience participation & interaction encouraged?	1	2	3	4	5 <input checked="" type="checkbox"/>
How far the lecturer appeared enthusiastic about the subject?	1	2	3	4	5 <input checked="" type="checkbox"/>

OVERALL

Where you satisfied with the lecture?	Yes <input checked="" type="checkbox"/>	No	
Was the lecturer able to answer your questions?	Yes <input checked="" type="checkbox"/>	No	
What is your overall impression about the lecture?	Good <input checked="" type="checkbox"/>	Average	Ok
What suggestions do you have to improve the lecturers approach?			



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BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

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

Ref: BIHER/BIST/Civil//Spl/2019

Date: 08/12/2019

CIRCULAR

The School of Civil and Infrastructure Engineering is planned to conduct a Value Added Course on **Ecology and Environment** for the benefit of II, III, IV B.Tech students. This value added course is commences from 18/12/2019 with the duration of 38 hours (Two hour per day), 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 2 days before the commencement of course.

Contact:

Ms.S.THENDRAL

Assistant.Professor / School of Civil & Infrastructure Engineering,

Course Coordinator

Bharath Institute of Higher Education & Research.

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


HOD/CIVIL

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

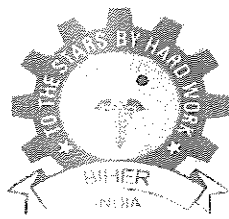
SCHOOL OF INFRASTRUCTURE ENGINEERING
VALUE ADDED COURSE - Ecology and Environment

Date: 18.12.2019

Year/Sem: II /IV

Sl.NO	Reg No	Name of the students	Email id	Contacts Number
1	U17CE071	MOGILI SRIKANTH	srikanthmogili0@gmail.com	9600052027
2	U17CE072	BHUKYA VENKATA NARASIMMA	venkatbhukya0456@gmail.com	9848550456
3	U17CE074	DHARASAN .K	dharasansweni16@gmail.com	7708581626
4	U17CE075	NIMMAKAYALA SURYAVAMSI REDDY	suryavamsireddy000@gmail.com	7780296604
5	U17CE076	KARRA ANAND RAVI TEJA	anandraviteji7@gmail.com	9618884649
6	U17CE077	KATTERAPALLI RAM MOHAN REDDY	ramureddy80084@gmail.com	8096798483
7	U17CE079	FAMOUSSTAR MANIK SYIEMLIEH	fsyiemlieh2@gmail.com	6382983568
8	U17CE080	CHINTHAM DINESH YADHAVU	chinthamdinesh143@gmail.com	6301926433
9	U17CE081	KATARU SAI KISHORE	saikishorenaidu888@gmail.com	9182814262
10	U17CE082	VEGINATI PAVAN KUMAR	pavanveginati143@gmail.com	6281916177
11	U17CE084	JASANTA LOKTONGBAM	Jasantaloktongbam1997@gmail.com	8837447621
12	U17CE085	MOHAMMED YUSUF .A	yusuffyuhana@gamil.com	9360172326
13	U17CE086	MUHAMMAD FARHAAN SHAREEFF Y.S	farhaanshareeff1999@gmail.com	8838159947
14	U17CE087	PEMCHAND KHWAIRAKPAM	premkhwairakpamcoool@gmail.com	7005828091
15	U17CE088	ADARSHON MARUWEIN	adhmar89@gmail.com	9600083712
16	U17CE089	NIHI OO CHALLAM	challamnihioo@gmail.com	8257854837
17	U17CE090	SHELJIN DHAS .H	sheljin007@gmail.com	8056235392
18	U17CE091	KHUNDRAKPAM ISHWORLAL	Khundrakpamishworlal@gmail.com	8794271910
19	U17CE094	PAVITHRANS .R	pavitharan143@gmail.com	9080564777
20	U17CE095	GOBBAKA SAI KIRAN	saikirangobbaka123@gmail.com	7674086461
21	U17CE096	NARESH .P	rockeynaresh001@gmail.com	8678961013
22	U17CE097	SANTHOSH .R	santhoshappu202@gmail.com	9543836104
23	U17CE099	KOREETHA MANIKANTA	maninani5678@gmail.com	9182365642
24	U17CE100	IROM ROSHAN KUMAR	blacksabbathirom@gmail.com	9366323457
25	U17CE101	BANDI SRIKANTH	srikanthbandi@gmail.com	7730009698
26	U17CE102	ANANDHU SATHYAN	sathyananandhu1@gmail.com	9840710259
27	U17CE103	CHAMMANDI SAIJAYANTHI	Saijayanthreddy1121@gmail.com	8639351859
28	U17CE105	MUHAMMAD NAZRUL ISLAM	ni1982490@gmail.com	7085994985
29	U17CE118	BOJJAM SAKETH KUMAR	sakethkumar.bojjam@gmail.com	9025726162
30	U17CE711	SONAM DORJEE	Sonamdorjee2906@gmail.com	7358038733

Head of the Dept.
(Civil Engineering)
Bharath Institute of Higher
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Settaiyur, Chennai - 600 073.



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Topic: Ecology and Environment

Type of Course: value added course

Department: School of Civil and infrastructure Engineering

Pre-Requisites: Environmental Sciences

Course Duration: 38 hours (18.12.19)

Intended Audience: Civil Engineering Students

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

Coordinators: Ms S.Thendral & Mr. S. Rajesh

Objective:

- ❖ Discuss ecological applications and understand how ecology is the study of relationships between organisms and their environment.
- ❖ Examine the diversity of life and explain the biological processes that link them together.
- ❖ Apply concepts of biological evolution to all course topics.
- ❖ Examine plant diversity and explain the process of photosynthesis, nutrient uptake, reproduction, and adaptation to the environment.
- ❖ Explore ecological principals that link individuals at populations, community, landscape, and ecosystem levels.
- ❖ Investigate the effects humans are having on disrupting natural ecosystem function.

COURSE OUTLINE:

The lectures are aimed at posing various questions that are relevant for all students of engineering and management to incorporate sustainability and sensitivity to ecology and environment in their design of products, processes and systems. Ecology is the study of how organisms interact with each other and their environment at the population, community, and ecosystem levels. The goal of this course is familiarize you with ecological theory and its applications

Fundamental concepts, theoretical principles, and practical applications of modern ecology: the study of the interactions of organisms with each other and their environment. Laboratory classes of this introductory course involve field work and research projects geared towards ecological application

To gain an understanding of the broad biological significance of ecological theory, to gain an understanding of the questions that ecologists study, the methods they use, and the questions that remain unanswered. To develop your ability to apply quantitative skills to analyze and interpret ecological data, to develop your ability to apply quantitative skills to analyze and interpret ecological data

Value Added Course
Ecology and Environment

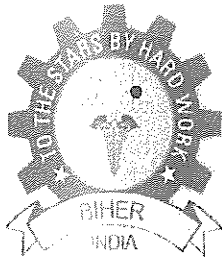
Content of Syllabus

S.No.	Syllabus Details	No. of Lecture Hours	Date	Time	Lecture Name
1.	Develop an understanding of ecology and how it is the study of relationships between organisms and their environment	2 hrs	21.12.2019	4 Pm To 6 pm	Ms.S. Thendral
2.	Identify how ecological systems form a hierarchy.	2 hrs	22.12.2019	4 Pm To 6 pm	Ms.S. Thendral
3.	Investigate nature using the scientific method.	2 hrs	23.12.19	4 Pm To 6 pm	Ms.S. Thendral
4.	Evaluate the ties between ecology and other disciplines	2 hrs	28.12.19	4 Pm To 6 pm	Ms.S. Thendral
5.	Develop and understanding of seasonal variation with solar radiation and how the earth intercepts solar radiation	2 hrs	29.12.19	4 Pm To 6 pm	Ms.S. Thendral
6.	Determine why air temperature decreases with altitude and how temperature influences moisture content of air	2 hrs	30.12.19	4 Pm To 6 pm	Ms.S. Thendral
7.	Discuss earth's rotation on wind and ocean currents	2 hrs	4.1.20	4 Pm To 6 pm	Ms.S. Thendral
8.	Discuss global patterns of air circulation, ocean currents, and precipitation.	2 hrs	5..1.20	4 Pm To 6 pm	Ms.S. Thendral
9.	Evaluate the influence of topography and microclimates on organism distribution.	2 hrs	6.1.20	4 Pm To 6 pm	Ms.S. Thendral
10.	Understand how the hydrologic cycle links all marine and freshwater aquatic ecosystems.	2 hrs	7.1.20	4 Pm To 6 pm	Ms.S. Thendral
11.	Identify water's distinctive properties and how this result from its structure.	2 hrs	8.1.20	4 Pm To 6 pm	Ms.S. Thendral
12.	Determine why light, temperature, and oxygen levels all generally decrease	2 hrs	11.1.20	4 Pm To 6 pm	Ms.S. Thendral

	with water depth				
13.	Discuss major constraints imposed on organisms by the transition from water to land.	2 hrs	12.1.20	4 Pm To 6 pm	Ms.S. Thendral
14.	Determine how plants are the dominant factor determining the vertical gradient of light.	2 hrs	13.1.20	4 Pm To 6 pm	Ms.S. Thendral
15.	Identify the distinguishing physical properties of soil	2 hrs	18.1.20	4 Pm To 6 pm	Ms.S. Thendral
16.	Evaluate a profile, water-holding, and ion exchange capacities of soil types	2 hrs	19.1.20	4 Pm To 6 pm	Ms.S. Thendral
17.	Compare asexual and sexual reproduction and forms of sexual reproduction	2 hrs	20.1.20	4 Pm To 6 pm	Ms.S. Thendral
18.	Describe types of animal mating systems and sexual selection of females.	2 hrs	21.1.20	4 Pm To 6 pm	Ms.S. Thendral
19.	Discuss how reproductive effort varies in timing, parental care, fecundity, latitude, and with habitat selection	2 hrs	22.1.20	4 Pm To 6 pm	Ms.S. Thendral


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Bharath Institute of Higher
Education & Research,
Selayur, Chennai - 600 073.



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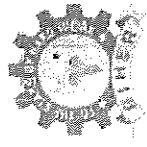
SCHOOL OF INFRASTRUCTURE ENGINEERING

VALUE ADDED COURSE - Ecology and Environment

Date: 18.12.2019

Year/Sem: II /IV





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A NAAC

NATIONAL ASSESSMENT AND
ACCREDITATION COUNCIL



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

CERTIFICATE OF PARTICIPATION

This is to Certify that DHARSHAN. K, Bharath Institute of Higher Education and Research, has participated in value added course on '**Ecology and Environmental**' presented by **Ms.THENDRAL. S**, Assistant Professor, Organized by School of Civil & Infrastructre Engineering, Bharath Institute of Science & Technology, BIHER from 18.12.2019 To 21.1.2020.


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: *Ecology & Environmental*

Event Venue: Date: *18/12/2019*

Name of participant: *Dharsan, 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
-------	----

VALUE ADDED COURSE

Feedback Form

Event Name: Ecology & Environmental

Event Venue: Date: 18/12/2019

Name of participant: SHELJIN DAS

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.

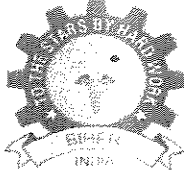
YES ✓	NO
-------	----

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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BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

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

Ref: BIHER/BIST/Civil//Spl/2020

Date: 10/01/2020

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 **Instructional Design and Presentation Skills** with the duration of 30 hours (Two hour per day) and commences from **24/01/2020 to 10/02/2020**.

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

HOD

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

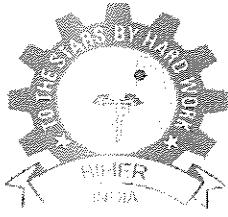
Value Added Course

Instructional Design and Presentation Skills Content of Syllabus

Name list

S.NO	REG NO	NAME OF THE CANDIDATE	EMAIL ID	MOBLIE NUMBER
1	U18CE001	SAI PRASANA S	saisurya616@gmail.com	73582125
2	U18CE004	VIKHNESH V S .	vikhnesh2001@gmail.com	94456432
3	U18CE005	LOKESH KUMAR THAKUR .	tlokesk472@gmail.com	62634881
4	U18CE006	YUVANESH K .	yuvaneshuv2001@gmail.com	87547002
5	U18CE007	KARIKETI VENNELA VERONIKA .	Vennelaveronika321@gmail.com	79895958
6	U18CE008	PASUPULA ASHOK KUMAR .	ashokpasupula5@gmail.com	91331151
7	U18CE042	KOYALAKUNTLA REDDY SAI	reddysaireddysai2@gmail.com	95151705
8	U18CE013	PALOJU TARUN KUMAR .	palojukumar2001@gmail.com	93811526
9	U18CE014	NIMMAGADDA LAKSHMI ARAVIND .	aravindnimmagadda@gmail.com	98489212
10	U18CE015	SATHIBABU.KAKA .	sathishkala9963@gmail.com	70958585
11	U18CE016	KOMMINENI LAKSHMI NARAYANA .	lakshmankommineni2001@gmail.com	93812551
12	U18CE018	BAGGU VISWANADH .	viswanadhbaggu@gmail.com	81859092
13	U18CE019	BOLNIDI MALLIKARJUNA RAO .	bolnidimallikarjunarao@gmail.com	81790148
14	U18CE020	MOIRANGTHEM DAVID SINGH .	davidmoirangthem32@gmail.com	90031827
15	U18CE022	YERUVA VIVEKANANDA REDDY .	vivekanandareddy.yeruva159@gmail.com	78937245
16	U18CE024	NINGOMBAM DEVSON SINGH .	ningombamdevson1@gmail.com	70055711
17	U18CE027	VEVO NIENU .	vevonieniu@gmail.com	93833088
18	U18CE028	NINGTHOUJAM SUBASH .	paradisesubash@gmail.com	70859648
19	U18CE029	KONGARA VISHNU MADHAV .	vishnumadhav775@gmail.com	72071676
20	U18CE030	KOTA ASHOK REDDY .	kotaashokreddy11@gmail.com	97059432
21	U18CE031	NADAKUDITI BHAVESH	bhaveshdevil15@gmailm.com	94401874
22	U18CE032	PEDDI MANIKANTA RAJA		87544262
23	U18CE034	GUNACHANDRA ANGOM .	gunachandraangom@gmail.com	98562337
24	U18CE035	MUTHINENI MANOJ .	muthinenimanoj05@gmail.com	96405101
25	U18CE036	INDRAJIT MOHAN M	indrajitcool28@gmail.com	91766699
26	U18CE037	RISHIVENTHAN N A .	rishiventhan9640@gmail.com	73975457
27	U18CE038	KANDULA GANESH NAGU .	ganeshnagu011@gmail.com	99635215
28	U18CE039	PULICHERLA PAVANKUMAR REDDY .	pavankumarreddy5343@gmail.com	83743647
29	U18CE040	RACHAMREDDY SHIVAPRASAD REDDY .	shivareddyshivareddy910@gmail.com	93813595
30	U18CE041	BAGGAM SAKETH PATNAIK .	sakethpatnaikgpm123@gmail.com	94915708

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Srirangapat, Chennai - 500 073.



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INSTITUTE OF HIGHER EDUCATION AND RESEARCH
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Topic: Instructional Design and Presentation Skills

Type of Course: value added course / UG

Department of school of Civil and infrastructure Engineering

Pre-Requisites: Professional Ethics

Course Duration: 30 hours (24 Jan' 2020)

Intended Audience: Civil Engineering Students

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

Coordinators: Ms.R.Chitra

Objective:

- a) This understands the study of instructional design process. Design must consider four areas of analysis: audience, including the organization's needs and the learner's profile (age, education, experience, roles, technical proficiency, etc.); content, including key message, examples, scenarios and case studies to support the content and/or assess the learner; technology, including the learning management system and available devices; and branding, to give the course a unique identity.
- b) Next, learning objectives are framed. These objectives help separate what is helpful and what is essential. The expected outcome should be clear.
- c) Design development is its own process. It involves organizing content into a logical sequence, determining an approach to deliver the course (such as through stories, games, problems or videos) and implementing engagement points like motivational videos or reflection questions. The design must be consistent in all modules and resource materials.
- d) Storyboard helps visually organize content and present a flow for topics. Instructional designers use these visual documents to identify the type of content involved, and to present the content for each page, along with text, graphics, characters and notes.

COURSE OUTLINE:

The major goals of this course are:

- Provides the basic knowledge and application of the skills and techniques required for the process of addressing learning settings. Focus on instructional systems design and instructional
- Strategies at the curricular and the the classroom level. Provide the background and skills needed to prepare
- Use a wide range of effective instructional materials. Distinguish basic advantages and disadvantages
- Main instructional media and materials. Provide practice to assure effective preparation and the
- Use of instructional materials.

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.

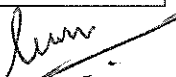
This course is designed to teach you how to be an interior designer by focusing on interior design from a macro level. If you decide to pursue an interior design career after reading about everything that will be required of you if you choose to pursue a career in interior design, then you will spend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

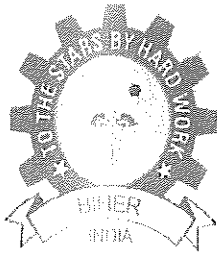
Value Added Course

Instructional Design and Presentation Skills Content of Syllabus

S.No.	Syllabus Details	No. of Lecture hrs	Time	Date	Lecture name
1	Introduction to Instructional Design and ID Process, introducing syllabus	2	10.45 am to 12.45am	24.01.20	Ms.R.Chitra
2	Assessing needs to identify instructional goals Performance analysis Instructional goals Learners, Context, and Tools Conducting a Goal Analysis Intellectual Skills Psychomotor Skills Attitudes Goal Analysis Procedures	2	02.00 pm to 04.00 pm	25.01.20	Ms.R.Chitra
3	Instructional Analysis Identifying related Skills and Entry Behaviors Analyzing Learners Entry behaviors Prior knowledge of topic area Attitudes toward content and potential delivery system Academic motivation Educational and ability levels General learning preferences Group characteristics	2	10.45 am to 12.45am	26.01.20	Ms.R.Chitra
4	Contexts analysis Writing Performance Objectives Behaviors, conditions, criteria	2	02.00 pm to 04.00 pm	26.01.20	Ms.R.Chitra
5	Developing an Instructional Strategy Content Sequence and Clustering Learning Components of Instructional Strategies Pre-instructional Activities Content Presentation and Examples	2	10.45 am to 12.45am	27.01.20	Ms.R.Chitra
6	Learner Participation Assessment Follow-Through Activities	2	02.00 pm to 04.00 pm	28.01.20	Ms.R.Chitra
7	The Delivery System and Media Selections Components of an Instructional Package Selecting Existing Instructional	2	10.45 am to 12.45am	29.01.20	Ms.R.Chitra

	Materials				
8	The Designer's Role in Material Development and Instructional Delivery	2	02.00 pm to 04.00 pm	02.02.20	Ms.R.Chitra
9	Developing Instructional Materials for Formative Evaluation Rough Draft Materials Rapid Prototyping Materials Development Tools and Resources Printed materials Still pictures and graphics	2	10.45 am to 12.45am	03.02.20	Ms.R.Chitra
10	Formative evaluation and revising instructional materials One-to-One Evaluation with Learners Small-Group	2	02.00 pm to 04.00 pm	04.02.20	Ms.R.Chitra
11	Formative Evaluation in the Performance Context Collecting Data on Reactions to Instruction Analyzing Data from One-to-One Trials Analyzing Data from Small-Group and Field Trials	2	10.45 am to 12.45am	05.02.20	Ms.R.Chitra
12	Designing and Conducting Summative Evaluation	2	02.00 pm to 04.00 pm	06.02.20	Ms.R.Chitra
13	Expert Judgment Phase of Summative Evaluation Field-Trial Phase of Summative Evaluation	2	10.45 am to 12.45am	07.02.20	Ms.R.Chitra
14	E-learning material development	2	02.00 pm to 04.00 pm	08.02.20	Ms.R.Chitra
15	E-learning material development	2	10.45 am to 12.45am	10.02.20	Ms.R.Chitra


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



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SCHOOL OF CIVIL & INFRASTRUCTURE ENGINEERING

VALUE ADDED COURSE - BASICS OF INTERIOR AND DECORATION

Date: 24.01.2020

Year/Sem: II /III

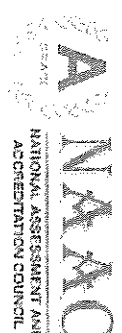




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DEEMED-TO-BE UNIVERSITY



NATIONAL ASSESSMENT AND
ACCREDITATION COUNCIL



BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

CERTIFICATE OF PARTICIPATION

This is to Certify that Mr. R. Vyas. B, from Bharath Institute of Higher Education and Research, has participated in value added course on '**Instructional Design and Presentation Skills**' presented by **Ms.R.Chitra, Assistant Professor, Organized by School of Civil & Infrastructure Engineering, Bharath Institute of Science & Technology, BIHER from 24.01.2020 To 10.02.2020.**

Coordinator

School of Civil & Infrastructure Engineering

HOD

Head of the Dept.
(Civil Engineering)

Bharath Institute of Higher

Education & Research
Srirangapatna, Chennai - 600 089

VALUE ADDED COURSE

Feedback Form

Event Name: Course on Decision Making Under Uncertainty

Event Venue: Date: 28.08.19 - 30.09.19

Name of participant: RYAS. A

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

1

2

3

4

5 ✓

2. Describe what topic is good. Cash Management

3. What aspects of the course we improve. Nil

4. What else would you like to see added. More Design Development.

VALUE ADDED COURSE

Feedback Form

Event Name: Course on Decision Making Under Uncertainty

Event Venue: Date: 28.08.19 - 30.09.19

Name of participant: Keenan Kshiar

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

1 2 3 4 5 ✓

2. Describe what topic is good. Optimal timing for market entry.

3. What aspects of the course we improve. —

4. What else would you like to see added. Visualization of charts / Images to the objects.



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BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY

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

Ref: BIHER/BIST/Civil//Spl/2020

Date: 25/11/2020

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 **Introduction to Instrumentation Design** with the duration of 30 hours (Two hour per day) and commences from **2/12/2020 to 18/12/2020**.

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

HOD

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

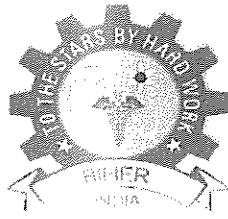
Value Added Course

Introduction to Instrumentation Design

NAME LIST

Sl.NO	Reg No	Name of the students	E-Mail ID
1	U17CE002	M. VIKASH	vikashmathi2012@gmail.com
2	U17CE003	AISHWARYA .C	cbaish18@gmail.com
3	U17CE005	KALLAM VENKATA REDDY	venk4147@gmail.com
4	U17CE006	ROSHAN NILLING GUHA	rosannilling@gmail.com
5	U17CE007	DILIP KUMAR .G	Dilipramya1406@ Gmail.com
6	U17CE008	LARRY LALNUNZIRA	larryziras@gmail.com
7	U17CE009	PRAVEEN KUMAR .S	praveenvictory505@gmail.com
8	U17CE010	MATHAVAN .S	maddyaustin316@gmail.com
9	U17CE011	DEEPAK KUMAR .N	littledeepak46@gmail.com
10	U17CE012	D.MULLAIVENDHAN	mullaivendhan949@gmail.com
11	U17CE013	REGHAKUMAR MUTHUKUMAR	kumarraghav333@gmail.com
12	U17CE014	TAJAMMUL AFROZ	tajammulafroz@gmail.com
13	U17CE015	KESAVA RANGANATH	keshavkhan1999@gmail.com
14	U17CE017	KISHORE .G	Kishorgkv30@gmail.com
15	U17CE018	RUBESH .V	rubeshragul17@gmail.com
16	U17CE019	JAIKISHEN .S	jaikishen91@gmail.com
17	U17CE021	TALASU PAVAN MANEESH	pavanmaneesh.talasu@gmail.com
18	U17CE022	SAYATUNENI PRASANNA KUMAR	savapaneni69@gmail.com
19	U17CE023	KUNDEPI PAWAN SAI GOPAL	kpsgopal2000@gmail.com
20	U17CE024	KONJENGBAM SHYAM SINGH	kshyam2791@gmail.com
21	U17CE025	CHINTALAAKHIL KRISHNA	chintalabrothers11@gmail.com
22	U17CE026	MUTHURU ASHOK KUMAR REDDY	ashokkreddy8264@gmail.com
23	U17CE027	VARIKUTTI AYAPPA	manirockzz371@gmail.com

24	U17CE028	GABE TEJA SAI REDDY	gadetejasaireddy@gmail.com
25	U17CE029	CHINTALAPUDI NAGA MURALI KRISHNA	chinthalapudimuralikrishna5@gmail.com
26	U17CE030	NISHANTH RAJ .K	nishanthvijay62@gmail.com
27	U17CE031	GADAEWAR SAI PRANAY	saipranay4181@gmail.com
28	U17CE032	RAGHAVAREDDY PRASANTH REDDY	rp7842197222@gmail.com
29	U17CE033	CHILAKA SATHISH REDDY	chilakasathish664@gmail.com
30	U17CE035	JAYANT CHODHARY	choudharyjayant689@gmail.com



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Topic: Introduction to Instrumentation Design

Type of Course: value added course / UG

Department of school of Civil and infrastructure Engineering

Pre-Requisites: 12th Science

Course Duration: 30 hours (12 Dec' 2020)

Intended Audience: Civil Engineering Students

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

Coordinators: Ms.R.Chitra

Objective:

- To introduce the measurement techniques of force, torque and speed.
- To introduce the measurement techniques of acceleration, Vibration and density
- To introduce the measurement Viscosity, Humidity and moisture.
- To introduce the temperature measurement techniques
- To introduce the pressure measurement techniques

COURSE OUTLINE:

At the end of the course, the student will have the:

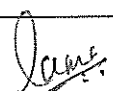
1. Ability to understand the construction and working of instruments used for measurement of force, torque, speed, acceleration, vibration, density, viscosity, humidity, moisture, temperature.
2. Ability to select instruments according to the application.
3. Ability to understand the concept of calibration of instruments and gain knowledge about temperature measurement devices.
4. Ability to design signal conditioning circuits and compensation schemes for temperature measuring instruments.
5. Ability to understand the working of instruments used for measurement of pressure. 6. Ability to measure fiber optic sensor to measure temperature

Value Added Course

Introduction to Instrumentation Design Content of Syllabus

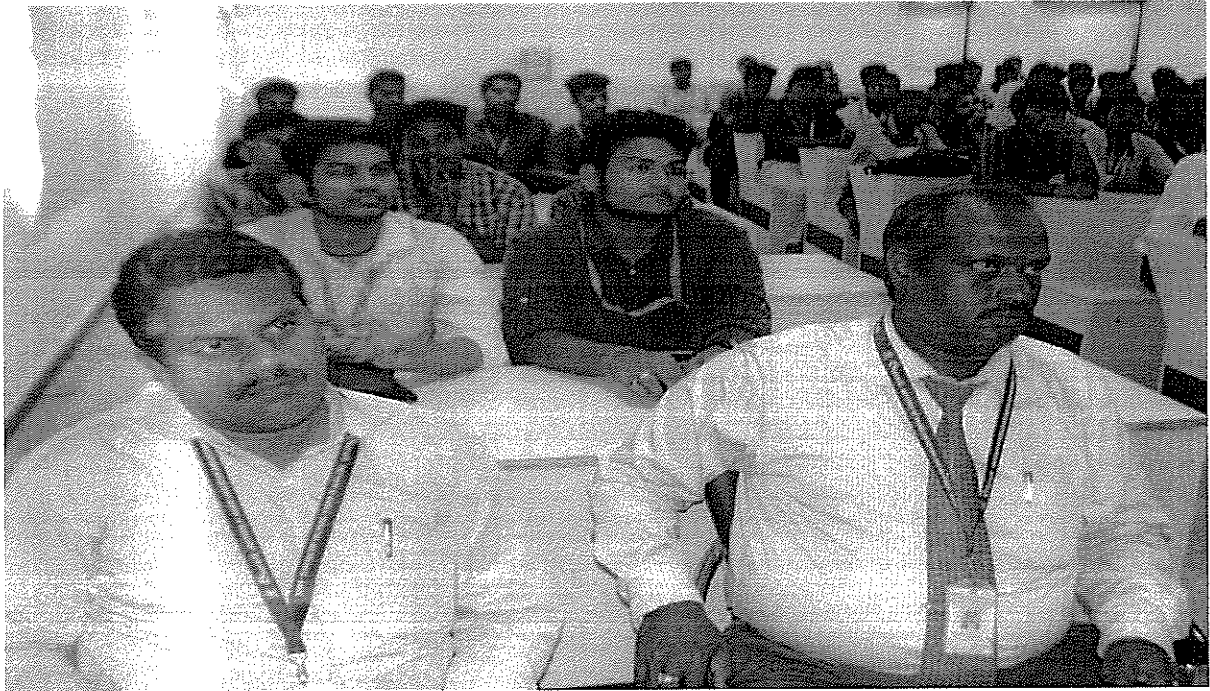
S.No.	Syllabus Details	No. of Lecture hrs	Time	Date	Lecture name
1	Different types of load cells	2	10.45 am to 12.45am	02.12.20	Ms.R.Chitra
2	Hydraulic, Pneumatic, Strain gauge, Magneto-elastic and Piezoelectric load cells	2	02.00 pm to 04.00 pm	03.12.20	Ms.R.Chitra
3	Different methods of torque measurement: Strain gauge, Relative angular twist. Speed measurement:	2	10.45 am to 12.45am	04.12.20	Ms.R.Chitra
4	Capacitive tacho, Drag cup type tacho, D.C and A.C tacho generators - Stroboscope	2	02.00 pm to 04.00 pm	05.12.20	Ms.R.Chitra
5	Accelerometers: LVDT, Piezoelectric, Strain gauge and Variable reluctance type accelerometers - Mechanical type vibration instruments - Seismic instruments as accelerometer	2	10.45 am to 12.45am	07.12.20	Ms.R.Chitra
6	Seismic instruments as accelerometer – Vibration sensor - Calibration of vibration pickups - Units of density and specific gravity	2	02.00 pm to 04.00 pm	08.12.20	Ms.R.Chitra
7	Baume scale and API scale – Densitometers: Pressure type densitometers, Float type densitometers, Ultrasonic densitometer and gas densitomet	2	10.45 am to 12.45am	09.12.20	Ms.R.Chitra
8	Definitions and standards – Primary and secondary fixed points – Different types of filled in system thermometers – Sources of errors in filled in systems and their compensation	2	02.00 pm to 04.00 pm	10.12.20	Ms.R.Chitra
9	Bimetallic thermometers – IC sensors – Thermocouples: Laws of thermocouple, Fabrication of industrial thermocouples, Reference junctions compensation, Signal	2	10.45 am to 12.45am	11.12.20	Ms.R.Chitra

	conditioning for thermocouple				
10	Signal conditioning for thermocouple, Commercial circuits for cold junction compensation, Response of thermocouple, Special techniques for measuring high temperature using thermocouple – Radiation fundamentals	2	02.00 pm to 04.00 pm	12.12.20	Ms.R.Chitra
11	- Radiation methods of temperature measurement – Total radiation pyrometers – Optical pyrometers – Two color radiation pyrometers	2	10.45 am to 12.45am	14.12.20	Ms.R.Chitra
12	Fiber optic sensor for temperature measurement – Thermograph, Temperature switches and thermostats – Temperature sensor selection, Installation and Calibration	2	02.00 pm to 04.00 pm	15.12.20	Ms.R.Chitra
13	Units of pressure – Manometers: Different types, Elastic type pressure gauges: Bourdon tube, Bellows, Diaphragms and Capsules	2	10.45 am to 12.45am	16.12.20	Ms.R.Chitra
14	Capacitive type pressure gauge - Piezo resistive pressure sensor- Resonator pressure sensor - Measurement of vacuum: McLeod gauge,	2	02.00 pm to 04.00 pm	17.12.20	Ms.R.Chitra
15	Thermal conductivity gauge, Ionization gauges, Cold cathode type and hot cathode type – Pressure gauge selection, installation and calibration using dead weight tester	2	10.45 am to 12.45am	18.12.20	Ms.R.Chitra


HOD
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 (Civil Engineering)
 Bharath Institute of High
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 Campus, Chennai - 600 073.

Value Added Course

Introduction to Instrumentation Design





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CERTIFICATE OF PARTICIPATION

This is to Certify that KISHORE S, from Bharath Institute of Higher Education and Research, has participated in value added course on 'Introduction to Instrumentation Design' presented by **Ms. R.Chitra, Assistant Professor**, Organized by School of Civil & Infrastructre Engineering, Bharath Institute of Science & Technology, BIHER from 2/12/2020 to 18/12/2020.

Coordinator

HOD

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

VALUE ADDED COURSE

Feedback Form

Event Name: INTRODUCTION TO INSTRUMENTATION DESIGN

Event Venue: Date: 2/12/2020

Name of participant: KISHORE. G

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

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

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

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

YES ✓	NO
-------	----

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

YES ✓	NO
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VALUE ADDED COURSE

Feedback Form

Event Name: INTRODUCTION TO INSTRUMENTATION DESIGN

Event Venue: Date: 2/12/2020

Name of participant: AISHWARYA 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 ✓
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2. Value added course is useful and well organized.

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

YES ✓	NO
-------	----

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

YES ✓	NO
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