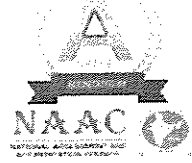


Bharath

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: 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
Education & Research,
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
1	U17CE041	MOHAMMED EHTESHYAMUDDIN	ehteshyamudfin@gmail.com	9700555345
2	U17CE042	KAKARLA RAMANAIDU	ramlaxmankakarla173137@gmail.com	7287033416
3	U17CE043	ILLURI JAYA VENKATA SIVA SAI KUMAR	saikumarilluri222@gmail.com	7993463966
4	U17CE045	PALAVELLI SASI KUMAR REDDY .	sasikumarreddy14@gmail.com	7893842066
5	U17CE046	MOOLA HANUMANATHA REDDY .	hhanumanthareddym2000@gmail.com	9182197104
6	U17CE047	YEMIREDDY RAGHAVENDRA REDDY .	reddy590@gmail.com	7330851493
7	U17CE049	MARLAPATINAVEEN .	naveenlovely991@gmail.com	8639650606
8	U17CE050	PALAPARTHI NAGARAJU	nagrajpalaparthi1999@gmail.com	7658979772
9	U17CE051	GOLLA DINESH	dineshdinnu745@gmail.com	7989208217
10	U17CE052	PERIVEMULA CHARITHA	charithaperivemula@gmail.com	9848477202
11	U17CE053	VENKATA SAI SABAREESH M	saisabareesh098@gmail.com	9949971343
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20	U17CE092	RIYAS A	riyasfritz2@gmail.com	850821063
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22	U17CE095	GOBBAKA SAI KIRAN .	saikirangobbaka123@gmail.com	7674086461
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24	U17CE097	SANTHOSH R	santhoshappu202@gmail.com	9543836104
25	U17CE099	KORVETHA MANIKANTA	maninani542@gmail.com	9182365642
26	U17CE100	IROM ROSHANKUMARM .	blacksabbathirom@gmail.com	9366323457
27	U17CE101	BANDI SRIKANTH	srikanthbandi@gmail.com	7730009698
28	U17CE102	ANANDHU SATHYAN	sathyananandhu1@gmail.com	9840710259
29	U17CE103	CHAMMANDI SAIJAYANTH	Saijayanthreddy1121@gmail.com	8639351859
30	U17CE104	SASIDHARAN S	sasilms92@gmail.com	9688858487
31	U17CE105	MUHAMMAD NAZRUL ISLAM .	ni1982490@gmail.com	7085994985
32	U17CE106	VIGNESH S	vingnesh@gmail.com	8838766322
33	U17CE107	MATHEW LARA EN	Mathewlara1999@gmail.com	8122225152
34	U17CE108	JANGA AKHIL KUMAR .	akhilawesome1121@gmail.com	8790196360
35	U17CE109	LAKSHMI NARAYAN GANESH PILLAY K	ganeshpillay939@gmail.com	7358322324
36	U17CE110	MOHAMED RIZWAN N	mohamed@gmail.com	9629186116

Head of the Dept.
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Chennai - 600 073


Value Added Course

COURSE ON DECISION MAKING UNDER UNCERTAINTY

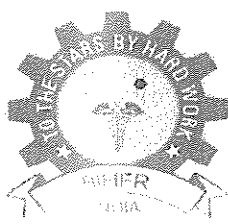
Content of Syllabus

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.



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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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CERTIFICATE OF PARTICIPATION

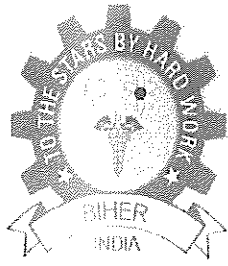
This is to Certify that RIYAS . A, from Bharath Institute of Higher Education and Research, has participated in value added course on '**Course on decision making under Uncertainty**' presented by **Ms.R.Chitra., Assistant Professor, Organized by School of Civil & Infrastructure Engineering, Bharath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



Bharath

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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 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

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