

Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as deemed to be university under section 3 of UGC Act 1956, vide notification No.F.9-5/2000-U.3)

SCHOOL OF BASIC SCIENCES

Date : 18.4.2018

CIRCULAR


**Sub : Organising Value added Course: Statistical design of experiments
- Reg.**

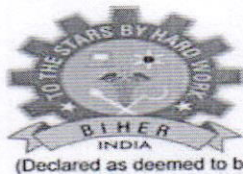
With reference to the above mentioned subject, we bring it to your notice that School of Basic Sciences, Bharath Institute of Higher Education & Research is organising **Value added course "Statistical Design of Experiments"**. The syllabus and registration form is enclosed below. The candidates those who are interested to join must fill the registration form and submit to the Course Coordinator Mrs. V. Jula, Department of Biotechnology on or before 27.04.2018. The Registration form received after the mentioned date shall not be entertained under any circumstances.

Encl: A copy of Syllabus & Registration form

Copy To:

- 1.All HODs
- 2.Office File/ Notice Board
- 3.Course Coordinator


Dean Faculty of Arts & Science
Bharath Institute of Higher Education & Research
(Declared as Deemed to be University U/S 3 of UGC Act. 1956)
Chennai-600 073, INDIA



Sharath

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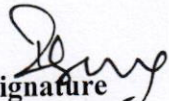
SCHOOL OF BASIC SCIENCES

Registration Form

Value Added Course

Date: 19.4.2018

Name : ISWARYA S
Reg. No. : U17135018
Gender : Female
Department : Biotechnology
Year : 2017-20
Contact No. : 95983 86304
Email ID : iswaryaaa@gmail.com
Course Applied for : Statistical design of experiments


Signature

Bharath Institute of Higher Education & Research
School of Basic Sciences
Students Registration List
Value Added Course: Statistical Design of Experiments -

S.NO	REG.NO	NAME OF THE CANDIDATE	DEPARTMENT
1	U17MI018	MOHAMMED RIZAIL FAHATH	BSC-MICRO
2	U17MI019	SANDHIYA VIJAY M	BSC-MICRO
3	U17MI020	ABBAS	BSC-MICRO
4	U17MI021	KATHIRESAN	BSC-MICRO
5	U17MI054	RAJANI	BSC-MICRO
6	U17MI055	SARMILA	BSC-MICRO
7	U17MI024	SURAJIT SARMA	BSC-MICRO
8	U17BS013	SHOBICA R	BSC-BIOTECH
9	U17BS016	JAYENDRAN U	BSC-BIOTECH
10	U17BS017	ARAVINDHA M	BSC-BIOTECH
11	U17BS018	ISWARYA S	BSC-BIOTECH
12	U17BS019	GOPALAKRISHNAN S	BSC-BIOTECH
13	U17BS020	MAHALAKSHMI M	BSC-BIOTECH
14	U17PS015	SHALINI M	BSC-PHYSICS
15	U17PS016	ELAYAKUMAR V	BSC-PHYSICS
16	U17PS017	KAMALESH V	BSC-PHYSICS
17	U17PS018	SUSHMA CHANDRAN R	BSC-PHYSICS
18	U17PS019	AFRINTAJ S	BSC-PHYSICS
19	U17PS020	VIVITHA R	BSC-PHYSICS
20	U17CI014	MOHANRAJ V	BSC-CHEM
21	U17CI015	SETHURAMAN R	BSC-CHEM
22	U17CI016	YUKESH S	BSC-CHEM
23	U17CI017	SARATHKUMAR M	BSC-CHEM
24	U17CI018	SUMAIYA BANU K	BSC-CHEM
25	U17CI019	MUKUNDA KUMAR D	BSC-CHEM
26	U17MA015	ILAKKIYA S	BSC-MATHS
27	U17MA018	MONISHA S	BSC-MATHS
28	U17MA019	DEEPAKRAJ M	BSC-MATHS
29	U17MA020	MALATHI G	BSC-MATHS
30	U17MA021	DEEPIKA R	BSC-MATHS
31	U17MA022	DHIVYA V	BSC-MATHS
32	U17MA023	KALAIVANI R	BSC-MATHS
33	U17SC022	PREMKUMAR B	BSC-COMP
34	U17SC023	RAJ KUMAR M	BSC-COMP
35	U17SC024	KALAISELVAKUMAR D	BSC-COMP
36	U17SC025	YUVARAJ P	BSC-COMP
37	U17SC026	SATHISH P	BSC-COMP
38	U17SC027	ANAND S	BSC-COMP

39	U17SC028	GOKULAKANNAN K	BSC-COMP
40	U17SC029	MANISH TOPNO	BSC-COMP
41	U17SC030	RAVICHANDRAN B	BSC-COMP
42	U17SC031	PAVAN PANINTHRA	BSC-COMP
43	U17VC014	PRATHAP K	BSC-VISCOM
44	U17VC015	NAVEEN KUMAR V	BSC-VISCOM
45	U17VC016	SATISH KUMAR S	BSC-VISCOM



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SCHOOL OF BASIC SCIENCES

Value Added Course

Short term course on Statistical Design of Experiments -

Syllabus

Introduction to experimental design. Planning experiments, regression analysis, types of experiments, software, literature. Example of experimental : synthesis-context, goal, synthesis route consists of elements.

Issues of in examples: to measure the yield, to vary the control variables, many combinations can be tested. Statistical terminology for experiments and modern approach design of experiments. Example of analysis - simple experiments-response is conversion.

Examples of construction. Teaching tools: virtual experiments. Short history of statistics and experimentation - Goals in experimentation. Types of experimental designs - screening designs, response surface designs. Interactions - factors are optimised separately, factors may influence each other.

Interaction effects - Cross terms in linear regression models cause interaction effects: Multi-layered experiments - an initial experiment, main experiment confirmation experiment. Make clear protocol of execution of experiment (including randomised order of measurements)

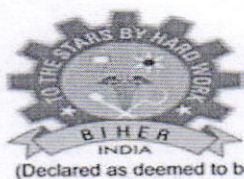
Bharath Institute of Higher Education & Research
School of Basic Science
Course Time Table

Value Added Course: Short term course on Statistical Design of Experiments-Duration:30 Hrs

S.No	Date	Time	Hour
1	07.05.2018	10 AM - 12 PM	2
2	12.05.2018	10 AM - 12 PM	2
3	13.05.2018	10 AM - 12 PM	2
4	19.05.2018	10 AM - 12 PM	2
5	20.05.2018	10 AM - 12 PM	2
6	26.05.2018	10 AM - 12 PM	2
7	27.05.2018	10 AM - 12 PM	2
8	02.06.2018	10 AM - 12 PM	2
9	03.06.2018	10 AM - 12 PM	2
10	09.06.2018	10 AM - 12 PM	2
11	10.06.2018	10 AM - 12 PM	2
12	17.06.2018	10 AM - 12 PM	2
13	23.06.2018	10 AM - 12 PM	2
14	24.06.2018	10 AM - 12 PM	2
15	30.06.2018	10 AM - 12 PM	2

Bharath Institute of Higher Education & Research
School of Basic Sciences
Lesson Plan

Value Added Course: Short term course on Statistical Design of Experiments- Duration: 30 Hrs				Course
S.No	Date	Topic	Time	Hour
1	07.05.2018	Introduction to experimental design	10 AM - 12 PM	2
2	12.05.2018	Plannning expriments, regression analysis, types of expriments	10 AM - 12 PM	2
3	13.05.2018	Example of experimental : synthesis - context, goal, synthesis r	10 AM - 12 PM	2
4	19.05.2018	Issues of in examples:to measure the yield, to vary the control	10 AM - 12 PM	2
5	20.05.2018	Statistical terminology for experiments and modern approach d	10 AM - 12 PM	2
6	26.05.2018	Example of analysis - simple experiments - response is conver	10 AM - 12 PM	2
7	27.05.2018	Example of construction	10 AM - 12 PM	2
8	02.06.2018	Teaching tools: virtual experiments	10 AM - 12 PM	2
9	03.06.2018	Short history of statistics and experimentation-Goals in experim	10 AM - 12 PM	2
10	09.06.2018	Types of experimental designs-screening designs,response surf	10 AM - 12 PM	2
11	10.06.2018	Interactions - factors are optimised separatelyFactors may infl	10 AM - 12 PM	2
12	17.06.2018	Interaction effects-Cross terms in linear regression models cau	10 AM - 12 PM	2
13	23.06.2018	Multi-layered experiments-an initial experiment,main experim	10 AM - 12 PM	2
14	24.06.2018	Short checklist for DOE-clearly state objective of experimentc	10 AM - 12 PM	2
15	30.06.2018	make clear protocol of execution of experiment (including rand	10 AM - 12 PM	2



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Course Feedback form

Value Added Course

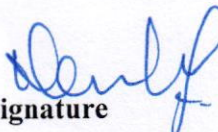
Date: 24.06.2018

Course Title: Short term course on Statistical Design of Experiments-

Name : MAHALAKSHMI M
Reg. No. : U17B5020
Department : Biotechnology

S.No	Particulars	1	2	3	4	5
(1. Very Unsatisfied 2. Unsatisfied 3. Neutral 4. Satisfied 5. Very Satisfied)						
1.	Objectives of the course clear to you	✓				
2.	Course contents met with your expectations	✓				
3.	Lecture sequence was well planned	✓				
4.	Lectures were clear and easy to understand	✓				
5.	Teaching aids were effective	✓				
6.	Instructors encourage interaction and were helpful	✓				
7.	The level of the course	✓				
(1. Very poor 2. Poor 3. Average 4. Good 5. Excellent)						
8.	Overall rating of the course:	4	2	3	4	5

Please give Suggestion for the improvement of the course:


Signature



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Name of the course	Statistical Design of Experiments
Handled by	Mrs. V. Jula Asst. Prof, Department of Biotechnology School of Basic Science, BIHER.



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CERTIFICATE OF PARTICIPATION

This is to certify that

SHOBICA. R

has participated in the Statistical Design of Experiments, conducted by School of Basic Sciences, BIHER, from May 07, 2018 to June 30, 2018.

Mrs. V. Jula
Course Co-ordinator

Dr. L. Jeyanthi Rebecca
Convenor

Dr. A. Muthukumaravel
Dean - Arts and Science