

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

Date: 15.03.2021

SCHOOL OF BIOENGINEERING

CIRCULAR

**Notification for Value added courses (online)
offered by the
School of Bioengineering**

The Department of Genetic Engineering, School of Bioengineering, is scheduled to offer a Value added Course on Certificate Program in Biostatistics from 18/04/2021 for a period of 3 weeks. Interested students can approach Dr.T.Jayalakshmi, Associate Professor, Course Coordinator, Department of Genetic Engineering for registration and for further details on or before 1st April 2021 .

Eligibility-II, III and IV B-Tech IBT, GE and BME

Course Coordinator

HOD

Copy to:

Vice Chancellor

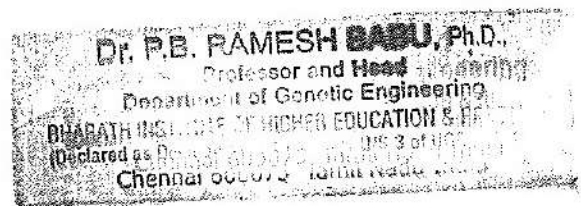
Pro Vice Chancellor

Additional Registrar

Deans

CoE

Heads of Departments



BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

SCHOOL OF BIO-ENGINEERING

DEPARTMENT OF GENETIC ENGINEERING

VALUE ADDED COURSE (ONLINE)

CERTIFICATE PROGRAM IN BIostatISTICS

2020-2021

COURSE CO-ORDINATOR DETAILS

Faculty Name: Dr.T.Jayalakshmi, Associate Professor, Department of Genetic Engineering.

Email ID: jayalakshmi.bi@bharathuniv.ac.in

Mobile number: 99400 96229

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH
SCHOOL OF BIO-ENGINEERING
DEPARTMENT OF GENETIC ENGINEERING
VALUE ADDED COURSE SYLLABUS
2020-2021

Certificate Program in Biostatistics

OBJECTIVES

1. Able to employ for numerical problems To teach professional ethical values, codes of ethics,
2. Understand the Probability and theoretical distributions.

MODULE I: INTRODUCTION TO BIO-STATISTICS

Introduction and Basics of Bio Statistics. Applications of Biostatistics. Handling univariate and bi-variate data – Measures of central tendency – Measures of dispersion –Skewness & Kurtosis – Correlation and Regression.

MODULE II: PROBABILITY & THEORETICAL DISTRIBUTIONS

Probability concepts – Conditional probability – Baye's theorem – one – dimensional random variables –expectation, variance, moments. Theoretical distributions: Binomial, Poisson, Normal.

MODULE III: TESTING OF HYPOTHESIS

Introduction – Large sample tests based on normal distribution - Test for single mean, difference between means, proportion, difference between proportions, standard deviation, difference between standard deviation. Chi-square test for goodness of fit, Independence of attributes.

Total Contact Hours: 30

TEXT BOOKS:

1. S.C. Gupta & V.K. Kapoor, Fundamentals of Mathematical Statistics, Sultan Chand and Sons, New Delhi, 2003.
2. Kapur J.N. And Saxena H. C. 'Mathematical Statistics". S. Chand and Co., New Delhi 2004.

REFERENCE BOOKS:

1. Biostatistics, second edition: A Guide to Design, Analysis and Discovery by Ronald N. Forthofer, Fun Sel Lee, and Mike Hernandez (Hardcover-Dec 28, 2006)
2. Biostatistics: Principles and Practice by B. Antonisamy Solomom Christopher, Prasanna Samuelson 1st edition Pub Date 14 Sep 09.

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SCHOOL OF BIO-ENGINEERING

DEPARTMENT OF GENETIC ENGINEERING

VALUE ADDED COURSE TIMETABLE

2020-2021

Days / Period	I 9.00 – 9.50	II 9.50 – 10.40	III 10.50 – 11.40	IV 11.40 – 12.30	12.30 – 1.30	V 1.30 – 2.10	VI 2.10 – 2.50	VII 2.50 – 3.30	
MON					LUNCH BREAK				
TUE									
WED									
THU									
FRI						CPBS			
SAT	CPBS					CPBS			

SUBJECT CODE	SUBJECT NAME	STAFF
Theory		
Value added course	Certificate program in Biostatistics (CPBS)	Dr.T.Jayalakshmi

SCHOOL OF BIO-ENGINEERING
DEPARTMENT OF GENETIC ENGINEERING
VALUE ADDED COURSE

CERTIFICATE PROGRAM IN BIostatISTICS (2020-2021)

Session	Topic	Date	Duration (Hr)	Resource person
Session I	Introduction and Basics of Bio Statistics	22/04/2021	3	Dr.T.Jayalakshmi
Session II	Measures of dispersion	22/04/2021	3	Mr.A.Manikandan
Session III	Correlation and Regression.	23/04/2021	4	Dr.T.Jayalakshmi
Session IV	Probability concepts	23/04/2021	3	Dr.P.B.Ramesh babu
Session V	Baye's theorem	29/04/2021	3	Mr.A.Manikandan
Session VI	Theoretical distributions	30/04/2021	4	Dr.P.Rajasulochana
Session VII	Large sample tests based on normal distribution	30/04/2021	3	Dr.P.B.Ramesh babu
Session VIII	standard deviation	6/5/2021	3	Mr.A.Manikandan
Session IX	Independence of attributes.	7/5/2021	4	Mrs.K.Vijayalakshmi

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SCHOOL OF BIO-ENGINEERING
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VALUE ADDED COURSE
CERTIFICATE PROGRAM IN BIostatISTICS (2020-2021)
Students Name List

S.No	Reg No	Name
1	U13BM009	KANDEEPAN J
2	U13BM010	KM PREM LATA
3	U13BM001	AARTHI R
4	U13BM002	ABHISHEK SARKAR
5	U13BM004	CHITIPIRALLA YUVA CHAITANYA
6	U13BM005	DEBJYOTI PATRA
7	U13BM006	IRFANA BEGUM A
8	U13BM007	JENNY E
9	U13BM013	NALINIDEVI N S
10	U13BM014	NASIR RIYAZ
11	U13BM015	NUSRATH SULTHANA K J
12	U13BM016	PREM RANJAN KUMAR
13	U13BM017	RAFIQ AHMAD
14	U13BM018	RAKESH KUMAR SHA
15	U13BM019	RESHMA J S
16	U12BT001	Ankush
17	U12BT002	Ashutosh Kumar Ram
18	U12BT003	Ayub Alam
19	U12BT004	Guddu Kumar
20	U12BT005	Harini S
21	U12BT006	Jitendra Kumar
22	U12BT007	K.Dilleswari
23	U12BT008	Kumari Sangeeta Singh
24	U12BT009	Rakesh Kumar
25	U12BT012	Satadru Dutta Ray
26	U12BT013	Suruthi P
27	U12BT014	Vennila Devi P
28	U12BT015	Yasmine Y
29	U12BM006	HARITHA P C
30	U12BM007	JIABUR RAHAMAN
31	U12BM008	KAYALVIZHI S
32	U12BM016	VINODHINI R
33	U12BM017	VINOTHINI V
34	U12BM018	SHAIK REHANA BEGUM
35	U12BM020	ROOBINI K

36	U12BM021	SANTHANA PRIYA S
37	U12BM024	JAFFAR SADHIK J
38	U12BM501	SABAHAT SYED
39	U13BR013	SHRI VISHALINI R
40	U13BR004	Lalan Gupta
41	U13BR003	HARSHA VARDHINI.B
42	U13BR007	Pavithra
43	U13BR016	SuprabuddhaDatta Chowdhury

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VALUE ADDED COURSE								
CERTIFICATE PROGRAM IN BIostatISTICS (2020-2021)								
Attendance Report								
S.No	Reg No	Name	22/04/2021	23/04/2021	29/04/2021	30/04/2021	6/5/2021	7/5/2021
1	U13BM009	KANDEEPAN J	P	P	P	P	P	P
2	U13BM010	KM PREM LATA	P	P	P	P	P	P
3	U13BM001	AARTHI R	P	P	P	P	P	P
4	U13BM002	ABHISHEK SARKAR	P	P	P	P	AB	P
5	U13BM004	CHITIPIRALLA YUVA CHAITANYA	P	P	P	P	P	P
6	U13BM005	DEBJYOTI PATRA	P	P	P	P	P	P
7	U13BM006	IRFANA BEGUM A	P	P	P	P	P	P
8	U13BM007	JENNY E	P	P	P	P	P	P
9	U13BM013	NALINIDEVI N S	P	P	P	P	P	P
10	U13BM014	NASIR RIYAZ	P	P	P	P	P	P
11	U13BM015	NUSRATH SULTHANA K J	P	P	P	P	P	P
12	U13BM016	PREM RANJAN KUMAR	P	P	P	P	P	P
13	U13BM017	RAFIQ AHMAD	P	P	P	P	P	AB
14	U13BM018	RAKESH KUMAR SHA	P	AB	AB	P	P	P
15	U13BM019	RESHMA J S	P	P	P	P	P	P
16	U12BT001	Ankush	AB	P	P	P	P	P
17	U12BT002	Ashutosh Kumar Ram	P	P	P	P	P	P
18	U12BT003	Ayub Alam	P	P	P	P	P	P
19	U12BT004	Guddu Kumar	P	P	P	P	P	P
20	U12BT005	Harini S	P	P	P	AB	P	P
21	U12BT006	Jitendra Kumar	P	P	P	P	P	P
22	U12BT007	K.Dilleswari	P	P	P	P	P	P
23	U12BT008	Kumari Sangeeta Singh	AB	P	P	P	AB	P
24	U12BT009	Rakesh Kumar	P	P	P	AB	P	P
25	U12BT012	Satadru Dutta Ray	P	P	P	P	P	P
26	U12BT013	Suruthi P	P	P	P	P	P	P
27	U12BT014	Vennila Devi P	P	P	P	P	P	P
28	U12BT015	Yasmine Y	P	P	P	P	P	P
29	U12BM006	HARITHA P C	P	P	P	P	P	AB
30	U12BM007	JIABUR RAHAMAN	P	P	P	P	P	P
31	U12BM008	KAYALVIZHI S	P	AB	P	P	P	P
32	U12BM016	VINODHINI R	P	P	P	P	AB	P
33	U12BM017	VINOTHINI V	P	P	P	P	P	P
34	U12BM018	SHAIK REHANA BEGUM	P	P	P	P	P	P
35	U12BM020	ROOBINI K	AB	P	P	AB	P	P
36	U12BM021	SANTHANA PRIYA S	P	P	P	P	P	P
37	U12BM024	JAFFAR SADHIK J	P	P	P	P	P	P
38	U12BM501	SABAHAT SYED	P	P	P	P	P	P
39	U13BR013	SHRI VISHALINI R	P	P	P	AB	P	P
40	U13BR004	Lalan Gupta	P	P	P	P	P	P
41	U13BR003	HARSHA VARDHINI.B	P	P	P	P	P	P
42	U13BR007	Pavithra	P	P	P	P	P	P
43	U13BR016	SuprabuddhaDatta Chowdhury	AB	P	P	AB	P	P

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Result Analysis

S.No	Reg No	Name	Grade
1	U13BM009	KANDEEPAN J	S
2	U13BM010	KM PREM LATA	S
3	U13BM001	AARTHI R	A
4	U13BM002	ABHISHEK SARKAR	B
5	U13BM004	CHITIPIRALLA YUVA CHAITANYA	A
6	U13BM005	DEBJYOTI PATRA	S
7	U13BM006	IRFANA BEGUM A	A
8	U13BM007	JENNY E	S
9	U13BM013	NALINIDEVI N S	A
10	U13BM014	NASIR RIYAZ	S
11	U13BM015	NUSRATH SULTHANA K J	B
12	U13BM016	PREM RANJAN KUMAR	A
13	U13BM017	RAFIQ AHMAD	B
14	U13BM018	RAKESH KUMAR SHA	A
15	U13BM019	RESHMA J S	A
16	U12BT001	Ankush	S
17	U12BT002	Ashutosh Kumar Ram	A
18	U12BT003	Ayub Alam	A
19	U12BT004	Guddu Kumar	B
20	U12BT005	Harini S	A
21	U12BT006	Jitendra Kumar	A
22	U12BT007	K.Dilleswari	A
23	U12BT008	Kumari Sangeeta Singh	S
24	U12BT009	Rakesh Kumar	S
25	U12BT012	Satadru Dutta Ray	B
26	U12BT013	Suruthi P	B
27	U12BT014	Vennila Devi P	A
28	U12BT015	Yasmine Y	S
29	U12BM006	HARITHA P C	S
30	U12BM007	JIABUR RAHAMAN	A
31	U12BM008	KAYALVIZHI S	A
32	U12BM016	VINODHINI R	S
33	U12BM017	VINOTHINI V	B
34	U12BM018	SHAIK REHANA BEGUM	A
35	U12BM020	ROOBINI K	B
36	U12BM021	SANTHANA PRIYA S	A

37	U12BM024	JAFFAR SADHIK J	S
38	U12BM501	SABAHAT SYED	S
39	U13BR013	SHRI VISHALINI R	B
40	U13BR004	Lalan Gupta	A
41	U13BR003	HARSHA VARDHINI.B	B
42	U13BR007	Pavithra	A
43	U13BR016	SuprabuddhaDatta Chowdhury	B

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Students Feedback

S.No	Reg No	Name	Rating
1	U13BM009	KANDEEPAN J	4.5
2	U13BM010	KM PREM LATA	4.5
3	U13BM001	AARTHI R	4.5
4	U13BM002	ABHISHEK SARKAR	3
5	U13BM004	CHITIPIRALLA YUVA CHAITANYA	4.4
6	U13BM005	DEBJYOTI PATRA	3.5
7	U13BM006	IRFANA BEGUM A	4.5
8	U13BM007	JENNY E	5
9	U13BM013	NALINIDEVI N S	4.5
10	U13BM014	NASIR RIYAZ	5
11	U13BM015	NUSRATH SULTHANA K J	4.6
12	U13BM016	PREM RANJAN KUMAR	5
13	U13BM017	RAFIQ AHMAD	4.4
14	U13BM018	RAKESH KUMAR SHA	3.7
15	U13BM019	RESHMA J S	4.5
16	U12BT001	Ankush	4.5
17	U12BT002	Ashutosh Kumar Ram	5
18	U12BT003	Ayub Alam	5
19	U12BT004	Guddu Kumar	5
20	U12BT005	Harini S	5
21	U12BT006	Jitendra Kumar	4.5
22	U12BT007	K.Dilleswari	5
23	U12BT008	Kumari Sangeeta Singh	4.5
24	U12BT009	Rakesh Kumar	5
25	U12BT012	Satadru Dutta Ray	4.5
26	U12BT013	Suruthi P	4
27	U12BT014	Vennila Devi P	5
28	U12BT015	Yasmine Y	4.5
29	U12BM006	HARITHA P C	5
30	U12BM007	JIABUR RAHAMAN	4
31	U12BM008	KAYALVIZHI S	4.5
32	U12BM016	VINODHINI R	5
33	U12BM017	VINOTHINI V	5
34	U12BM018	SHAIK REHANA BEGUM	5
35	U12BM020	ROOBINI K	4.5

36	U12BM021	SANTHANA PRIYA S	5
37	U12BM024	JAFFAR SADHIK J	4.5
38	U12BM501	SABAHAT SYED	4.4
39	U13BR013	SHRI VISHALINI R	3.5
40	U13BR004	Lalan Gupta	4.5
41	U13BR003	HARSHA VARDHINI.B	5
42	U13BR007	Pavithra	4.5
43	U13BR016	SuprabuddhaDatta Chowdhury	4.4



Bharath

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

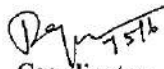



SCHOOL OF BIO-ENGINEERING

VALUE ADDED COURSE ON CERTIFICATE PROGRAM IN BIostatISTICS

Certificate of Participation

This is to certify that Mr /Ms Harsha Vardhini .B (U13BR003) has attended three weeks value added course on Certificate Program in Biostatistics conducted by Department of Genetic Engineering at Bharath Institute of Higher Education and Research, Chennai (TN), India during 22nd- 7th April&May 2021.


Coordinator


HOD

