

Chennai

01.10.2020

From  
The Head  
Department of Industrial Biotechnology,  
BIHER

To  
The Dean  
BIHER

Respected Sir

Sub: approval to start a value added (online) course on "Food Technology" -reg

It has been planned by the Department of Industrial Biotechnology to start a Value Added Course on "Food technology" for the benefit of the B-Tech – Biomedical Engineering, Genetic Engineering, and Industrial Biotechnology students from 9<sup>th</sup> October, 2020. The duration of the course is 30 hrs. I request you to kindly approve of the same.

Thanking you

Yours sincerely





# Bharath

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

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH  
DEPARTMENT OF INDUSTRIAL BIOTECHNOLOGY**

Date: 05-10-2020

## **CIRCULAR**

### **Notification for Value added courses offered by the Department of Industrial Biotechnology**

The Faculty of Bio Industrial Biotechnology is scheduled to offer a Value added Course on "Food Technology" from 09/10/2020 for a period of 3 weeks. Interested students can approach Ms. D. Sharmila, Assistant Professor and Course Coordinator, Faculty of Bio Engineering (Industrial Biotechnology) for registration and for further details on or before 7<sup>th</sup> October 2020.

**Eligibility-III & IV Year - B-Tech – BME, IBT, GE**

Course Coordinator

HOD

Copy to:

Vice Chancellor

Pro Vice Chancellor

Additional Registrar

Deans

CoE

Heads of Departments

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

**DEPARTMENT OF INDUSTRIAL BIOTECHNOLOGY**

**VALUE ADDED COURSE ON FOOD TECHNOLOGY**

**2020-2021**

**COURSE CO-ORDINATOR DETAILS**

**Faculty Name:** Ms. D. Sharmila, Assistant Professor, Department of Industrial Biotechnology.

**Email ID:** sharmibiotechnology@gmail.com

**Mobile number:** 9677298889.

**Bharath Institute of Higher Education and Research**

**Department of Industrial Biotechnology**

**Value Added Course**

**2020 - 2021**

**FOOD TECHNOLOGY**

**Module I**

Introduction to Food Technology, Food biochemistry, food microbiology, food processing, Rheology and texture analysis, food and vegetable products, Post-harvest technology, Bakery and confectionary products, milk products, pulses and oil seeds.

**Module I**

Preservation by fermentation, Water activity of food and its significance in food preservation; Use of preservative in foods: chemical preservative, bio-preservatives, low temperature preservation: cold storage, cold chain, freezing (including cryogenic freezing).

**Module III**

Introduction to business laws and ethics, International food legislations and standards, Business management & international trade, Food laws and quality assurance, Food plant safety and hazard analysis, Food industry waste management.

**Total contact hours: 30**

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
**DEPARTMENT OF INDUSTRIAL BIOTECHNOLOGY**  
**VALUE ADDED COURSE**  
**FOOD TECHNOLOGY (2020-2021)**

Session	Topic	Date	Duration (Hr)	Resource person
Session I	Food Technology	09.10.2020	3	Ms. D.Sharmila
Session II	food processing	10.11.2020	3	Ms. Merina Paul Das
Session III	Post-harvest technology	10.11.2020	4	Dr.M.R.K. Rao
Session IV	Types of preservative	16.11.2020	3	Ms. S.Sharmila
Session V	low temperature preservation	17.11.2020	3	Ms. D.Sharmila
Session VI	Preservation by fermentation	17.11.2020	4	Ms. Merina Paul Das
Session VII	business laws and ethics	23.11.2020	3	Dr.M.R.K. Rao
Session VIII	Food plant safety and hazard analysis	24.11.2020	3	Ms. S.Sharmila
Session IX	Food industry waste management	24.11.2020	4	Ms. D.Sharmila

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
**DEPARTMENT OF INDUSTRIAL BIOTECHNOLOGY**  
**VALUE ADDED COURSE**  
**FOOD TECHNOLOGY (2020-2021)**

**Students Name List**

S.No	Reg No	Name
1	U12BT001	ANKUSH
2	U12BT003	AYUB ALAM
3	U12BT005	HARINI S
4	U12BT006	JITENDRA KUMAR
5	U12BT007	K.DILLESWARI
6	U12BT012	SATADRU DUTTA RAY
7	U12BT013	SURUTHI P
8	U12BT014	VENNILA DEVI P
9	U12BT015	YASMINE Y
10	U12BT016	YOGASRI K
11	U12BT020	IRFAN HUSSAIN LONE
12	U12BT501	SAI RAHUL
13	U12BT502	RAJA ROHITH
14	U12BM004	AQSA ASLAM
15	U12BM005	BIVASH RAI
16	U12BM006	HARITHA P C
17	U12BM007	JIABUR RAHAMAN
18	U12BM008	KAYALVIZHI S
19	U12BM010	NAVANEESH K
20	U12BM011	NIVETHA SHRI K
21	U12BM012	OVAIS AHMAD KHAN
22	U12BM014	PRIYA SINHA
23	U12BM016	VINODHINI R
24	U12BM017	VINOTHINI V
25	U12BM018	SHAIK REHANA BEGUM
26	U12BM019	SUSILANKA S
27	U12BM020	ROOBINI K
28	U12BM021	SANTHANA PRIYA S
29	U12BM024	JAFFAR SADHIK J
30	U12BM501	SABAHAT SYED
31	U13BR001	AEI SINGH
32	U13BR002	DURGA LAXSHMI
33	U13BR003	HARSHAVARDHINI B
34	U13BR004	LALAN GUPTA
35	U13BR005	MOHAMMED ABRAR
36	U13BR006	NISMABIN
37	U13BR007	PAVITHRA S
38	U13BR009	RAMKUMAR N
39	U13BR010	REEBA C.R
40	U13BR011	REVATHY G
41	U13BR012	SABY P.S
42	U13BR013	SHRI VISHALINI R
43	U13BR014	SOJA N.J
44	U13BR015	STENI JOSE
45	U13BR016	SUPRABUDDHA
46	U13BR018	SWETHA M

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
**DEPARTMENT OF INDUSTRIAL BIOTECHNOLOGY**  
**VALUE ADDED COURSE**  
**FOOD TECHNOLOGY (2020-2021)**  
**Students Feedback**

S.No	Reg No	Name	Rating
1	U12BT001	ANKUSH	4
2	U12BT003	AYUB ALAM	4.5
3	U12BT005	HARINI S	4.5
4	U12BT006	JITENDRA KUMAR	4
5	U12BT007	K.DILLESWARI	4.4
6	U12BT012	SATADRU DUTTA RAY	3.5
7	U12BT013	SURUTHI P	4.5
8	U12BT014	VENNILA DEVI P	5
9	U12BT015	YASMINE Y	4.5
10	U12BT016	YOGASRI K	5
11	U12BT020	IRFAN HUSSAIN LONE	4.6
12	U12BT501	SAI RAHUL	5
13	U12BT502	RAJA ROHITH	4.4
14	U12BM004	AQSA ASLAM	3.7
15	U12BM005	BIVASH RAI	4.5
16	U12BM006	HARITHA P C	4.5
17	U12BM007	JIABUR RAHAMAN	5
18	U12BM008	KAYALVIZHI S	5
19	U12BM010	NAVANEESH K	5
20	U12BM011	NIVETHA SHRI K	5
21	U12BM012	OVAIS AHMAD KHAN	4.5
22	U12BM014	PRIYA SINHA	5
23	U12BM016	VINODHINI R	4.5
24	U12BM017	VINOTHINI V	5
25	U12BM018	SHAIK REHANA BEGUM	4.5
26	U12BM019	SUSILANKA S	4
27	U12BM020	ROOBINI K	5
28	U12BM021	SANTHANA PRIYA S	4.5
29	U12BM024	JAFFAR SADHIK J	5
30	U12BM501	SABAHAT SYED	4
31	U13BR001	AEI SINGH	4.5
32	U13BR002	DURGA LAXSHMI	5
33	U13BR003	HARSHAVARDHINI.B	5
34	U13BR004	LALAN GUPTA	5
35	U13BR005	MOHAMMED ABRAR	4.5
36	U13BR006	NISMABLN	5
37	U13BR007	PAVITHRA.S	4.5
38	U13BR009	RAMKUMAR.N	4.5
39	U13BR010	REEBA.C.R	5
40	U13BR011	REVATHY.G	5
41	U13BR012	SABY.P.S	5
42	U13BR013	SHRI VISHALINLR	4.5
43	U13BR014	SOJA. N.J	5
44	U13BR015	STENI JOSE	5
45	U13BR016	SUPRABUDDHA	4.5
46	U13BR018	SWETHA.M	4



# Bharath

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Value Added Course  
'Food Technology'

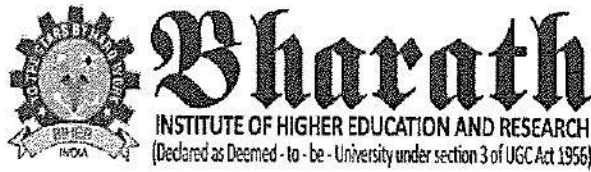
*Certificate*

This is to certify that Ms NISMABI.N (U13BR006) has attended three weeks Value Added Course on "Food Technology" conducted by faculty of Industrial Biotechnology at Bharath Institute of Higher Education and Research, Chennai (TN), India during 9<sup>th</sup> – 27<sup>th</sup> October, 2020.

  
Coordinator

  
HOD





**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 1<sup>st</sup> April 2021 .

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

  
Course Coordinator



Copy to:

Vice Chancellor

Pro Vice Chancellor

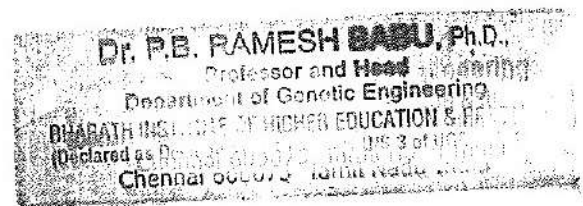
Additional Registrar

Deans

CoE

Heads of Departments

HOD



**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](mailto: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 Solomon Christopher, Prasanna Samuelson 1st edition Pub Date 14 Sep 09.

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

**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					<b>LUNCH BREAK</b>				
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

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
**SCHOOL OF BIO-ENGINEERING**  
**DEPARTMENT OF GENETIC ENGINEERING**  
**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

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH								
SCHOOL OF BIO-ENGINEERING								
DEPARTMENT OF GENETIC ENGINEERING								
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



**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
**SCHOOL OF BIO-ENGINEERING**  
**DEPARTMENT OF GENETIC ENGINEERING**  
**VALUE ADDED COURSE**  
**CERTIFICATE PROGRAM IN BIostatISTICS (2020-2021)**  
**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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**DEPARTMENT OF GENETIC ENGINEERING**  
**VALUE ADDED COURSE**  
**CERTIFICATE PROGRAM IN BIostatISTICS (2020-2021)**  
**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
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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)

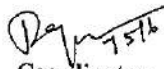


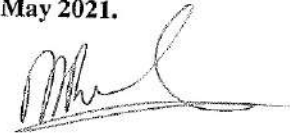
SCHOOL OF BIO-ENGINEERING

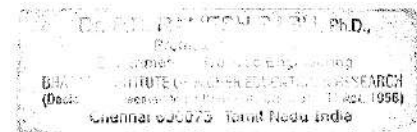
VALUE ADDED COURSE ON CERTIFICATE PROGRAM IN BIostatISTICS

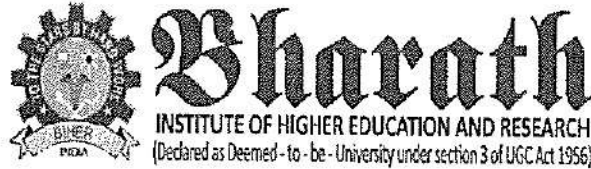
*Certificate of Participation*

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 22<sup>nd</sup>- 7<sup>th</sup> April&May 2021.

  
Coordinator

  
HOD





**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

Date: 14.05.2021

**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 **INTRODUCTION TO BIOLOGICAL HEALTH SCIENCE** from 14/06/2021 for a period of 3 weeks. Interested students can approach Dr.P.Rajasulochana, Professor and Course Coordinator, Department of Genetic Engineering for registration and for further details on or before 1<sup>st</sup> June 2021.

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

*P. Rajasulochana*  
Course Coordinator

HOD

Copy to:

Vice Chancellor

Pro Vice Chancellor

Additional Registrar

Deans

CoE

Heads of Departments

**PROFESSOR**  
Department of Genetic Engineering  
**BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH**  
(Declared as Deemed to be University U/S 3 of UGC Act. 1956)  
Chennai 600073 Tamil Nadu India

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

**SCHOOL OF BIO-ENGINEERING**

**DEPARTMENT OF GENETIC ENGINEERING**

**VALUE ADDED COURSE ON**

**INTRODUCTION TO BIOLOGICAL HEALTH SCIENCE**

**2020-2021**

**COURSE CO-ORDINATOR DETAILS**

**Faculty Name:** Dr. P.Rajasulochana, Professor, Department of Genetic Engineering.

**Email ID:** prsnellore@gmail.com

**Mobile number:** 9003074715

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

**INTRODUCTION TO BIOLOGICAL HEALTH SCIENCE**

**OBJECTIVES**

- Acquisition of adequate theoretical and practical knowledge of foundation in the basic biological subject.
- Aware of the principle underlying the organization of a Cell.

**MODULE I: Basic Biology concepts**

Introduction to biology; Cell; Cellular organization; Cell division; Eukaryotic cell; Prokaryotic cell, molecular mechanism that govern the replication, recombination, and expression of eukaryotic genome.

**MODULE 2: Molecular biology and its principles**

DNA replication, DNA recombination, gene transcription, RNA splicing, regulation of gene expression, protein synthesis and protein folding, prerequisite.

**MODULE 3 Infectious biology**

Bacteria, Replication of bacteria, viruses, Mechanism of pathogenic microbes, fungi, and its infections. Different human infections. Cancer, HIV. Control and preventative measures. Awareness of different microbial infections in human and hygienic conditions.

**Total Contact Hours: 30**

**TEXT BOOKS:**

1. Histology for Pathologists. Stacey Mills. 4th Edition, Lippincott (Ed), Raven Press, New York. 2012.
2. General Pathology JB Walter, MS Israel. 7th Edition, Churchill Livingstone, Edinburgh, 2009.

**REFERENCE BOOKS:**

1. Wintrobe's Clinical Hematology, Lee GR, Foerster J, Lupeus J, Paraskevas F, Gveer JP, Rodgers GN, 2 volume 13th Edition Lippincott, Baltimore, 2013
2. Practical Haematology, Dacie JV, Lewis SM, 11th Edition Churchill Livingstone, Edinburgh, 2011.



**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

**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					<b>LUNCH BREAK</b>	IBHS			
TUE									
WED									
THU									
FRI						IBHS			
SAT	IBHS					IBHS			

SUBJECT CODE	SUBJECT NAME	STAFF
Theory		
Value added course	INTRODUCTION OF BIOLOGY IN HEALTH SCIENCES (IBHS)	Dr.P.Rajasulochana

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

**INTRODUCTION TO BIOLOGICAL HEALTH SCIENCE (2020-2021)**

Session	Topic	Date	Duration (Hr)	Resource person
Session I	Introduction to biology;	17/6/2021	3	Dr.T.Jayalakshmi
Session II	Cell; Cellular organization; Cell division;	17/6/2021	3	Mr.A.Manikandan
Session III	expression of eukaryotic genome.	18/6/2021	4	Dr.T.Jayalakshmi
Session IV	DNA replication,	18/6/2021	3	Dr.P.B.Ramesh babu
Session V	DNA recombination, gene transcription, R	24/6/2021	3	Mr.A.Manikandan
Session VI	protein synthesis and protein folding, prerequisite.	24/6/2021	4	Dr.P.Rajasulochana
Session VII	Structure of bacteria	25/6/2021	3	Dr.P.B.Ramesh babu
Session VIII	Bacteria, Replication of bacteria, viruses, Mechanism of pathogenic microbes, fungi, and its infections	1/7/2021	3	Mr.A.Manikandan
Session IX	Different human infections. Cancer, HIV. Control and preventative measures.	2/7/2021	4	Mrs.K.Vijayalakshmi

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
**SCHOOL OF BIO-ENGINEERING**  
**DEPARTMENT OF GENETIC ENGINEERING**  
**VALUE ADDED COURSE**  
**INTRODUCTION TO BIOLOGICAL HEALTH SCIENCE(2020-2021)**  
**STUDENTS LIST**

S.No	Reg No	Name
1	U12BT001	Ankush
2	U12BT002	Ashutosh Kumar Ram
3	U12BT003	Ayub Alam
4	U12BT004	Guddu Kumar
5	U12BT005	Harini S
6	U12BT006	Jitendra Kumar
7	U12BT007	K.Dilleswari
8	U12BT008	Kumari Sangeeta Singh
9	U12BT009	Rakesh Kumar
10	U12BT012	Satadru Dutta Ray
11	U12BT013	Suruthi P
12	U12BT014	Vennila Devi P
13	U12BT015	Yasmine Y
14	U12BT016	Yogasri K
15	U12BT020	Irfan Hussain Lone
16	U13BM010	KM PREM LATA
17	U13BM011	MUTHEESWARAN U
18	U13BM012	MYTHILI G
19	U13BM013	NALINIDEVI N S
20	U13BM014	NASIR RIYAZ
21	U13BM015	NUSRATH SULTHANA K J
22	U13BM016	PREM RANJAN KUMAR
23	U13BM017	RAFIQ AHMAD
24	U13BM018	RAKESH KUMAR SHA
25	U13BM019	RESHMA J S
26	U13BM020	ROUF AHMAD WANI
27	U13BM021	SALMA A
28	U13BM022	SHAHID HUSSAIN HAJI
29	U13BM023	SHOWKAT AHMAD LONE
30	U13BM024	SHUBHAM KUMAR
31	U13BM025	SUDHA P M
32	U13BM026	VIGNESHWAR J
33	U13BM027	GANTA ABHIKIRAN
34	U13BM028	B M MOULYAVIKA
35	U13BR003	HARSHA VARDHINI.B
36	U13BR007	PAVITHRA S
37	U13BR004	Lalan Gupta
38	U13BR016	SuprabuddhaDatta Chowdhury
39	U13BR018	Swetha M
40	U12BM011	NIVETHA SHRI K
41	U12BM012	OVAIS AHMAD KHAN

42	U12BM014	PRIYA SINHA
43	U12BM016	VINODHINI R
44	U12BM017	VINOTHINI V
45	U12BM018	SHAIK REHANA BEGUM

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
**SCHOOL OF BIO-ENGINEERING**  
**DEPARTMENT OF GENETIC ENGINEERING**  
**VALUE ADDED COURSE**  
**INTRODUCTION TO BIOLOGICAL HEALTH SCIENCE (2020-2021)**  
**Attendance Report**

S.No	Reg No	Name	17/6/2021	18/6/2021	24/6/2021	25/6/2021	1/7/2021	2/7/2021
1	U12BT001	Ankush	P	P	P	P	P	P
2	U12BT002	Ashutosh Kumar Ram	P	P	P	P	P	P
3	U12BT003	Ayub Alam	P	P	P	P	AB	P
4	U12BT004	Guddu Kumar	P	P	P	P	P	P
5	U12BT005	Harini S	P	P	P	P	P	P
6	U12BT006	Jitendra Kumar	P	P	P	P	P	P
7	U12BT007	K.Dilleswari	P	P	P	P	P	P
8	U12BT008	Kumari Sangeeta Singh	P	P	P	P	P	P
9	U12BT009	Rakesh Kumar	P	P	P	P	P	P
10	U12BT012	Satadru Dutta Ray	P	P	P	P	P	P
11	U12BT013	Suruthi P	P	P	P	P	P	P
12	U12BT014	Vanila Devi P	P	P	P	P	P	AB
13	U12BT015	Yasmine Y	P	P	P	P	P	P
14	U12BT016	Yogasri K	P	AB	AB	P	P	P
15	U12BT020	Irfan Hussain Lone	P	P	P	P	P	P
16	U13BM010	KM PREM LATA	AB	P	P	P	P	P
17	U13BM011	MUTHEESWARAN U	P	P	P	P	P	P
18	U13BM012	MYTHILI G	P	P	P	P	P	P
19	U13BM013	NALINIDEVI N S	P	P	P	P	P	P
20	U13BM014	NASIR RIYAZ	P	P	P	AB	P	P
21	U13BM015	NUSRATH SULTHANA K J	P	P	P	P	P	P
22	U13BM016	PREM RANJAN KUMAR	P	P	P	P	P	P
23	U13BM017	RAFIQ AHMAD	AB	P	P	P	AB	P
24	U13BM018	RAKESH KUMAR SHA	P	P	P	AB	P	P
25	U13BM019	RESHIMA J S	P	P	P	P	P	P
26	U13BM020	ROUF AHMAD WANI	P	P	P	P	P	P
27	U13BM021	SALMA A	P	P	P	P	P	P
28	U13BM022	SHAHID HUSSAIN HAJI	P	P	P	P	P	AB
29	U13BM023	SHOWKAT AHMAD LONE	P	P	P	P	P	P
30	U13BM024	SHUBHAM KUMAR	P	P	P	P	P	P
31	U13BM025	SUDHA P M	P	AB	P	P	P	P
32	U13BM026	VIGNESHWAR J	P	P	P	P	AB	P
33	U13BM027	GANTA ABHIKIRAN	P	P	P	P	P	P
34	U13BM028	B M MOULYAVIKA	P	P	P	P	P	P
35	U13BR003	HARSHA VARDHINI.B	AB	P	P	AB	P	P
36	U13BR007	PAVITHRA S	P	P	P	P	P	P
37	U13BR004	Laian Gupta	P	P	P	P	P	P
38	U13BR016	SuprabuddhaDatta Chowdhury	P	P	P	P	P	AB
39	U13BR018	Swelha M	P	P	P	P	P	P
40	U12BM011	NIVETHA SHRI K	P	P	P	P	P	P
41	U12BM012	OVAIS AHMAD KHAN	P	P	P	P	P	P
42	U12BM014	PRIYA SINHA	P	P	P	AB	P	P
43	U12BM016	VINODHINI R	P	P	AB	P	P	P
44	U12BM017	VINOTHINI V	P	P	P	P	P	AB
45	U12BM018	SHAIK REHANA BEGUM	P	P	P	P	P	P

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
**SCHOOL OF BIO-ENGINEERING**  
**DEPARTMENT OF GENETIC ENGINEERING**  
**VALUE ADDED COURSE**  
**INTRODUCTION TO BIOLOGICAL HEALTH SCIENCE (2020-2021)**  
**Result analysis**

S.No	Reg No	Name	Grade
1	U12BT001	Ankush	S
2	U12BT002	Ashutosh Kumar Ram	S
3	U12BT003	Ayub Alam	A
4	U12BT004	Guddu Kumar	S
5	U12BT005	Harini S	B
6	U12BT006	Jitendra Kumar	A
7	U12BT007	K.Dilleswari	S
8	U12BT008	Kumari Sangeeta Singh	B
9	U12BT009	Rakesh Kumar	A
10	U12BT012	Satadru Dutta Ray	S
11	U12BT013	Suruthi P	B
12	U12BT014	Vennila Devi P	A
13	U12BT015	Yasmine Y	A
14	U12BT016	Yogasri K	S
15	U12BT020	Irfan Hussain Lone	B
16	U13BM010	KM PREM LATA	B
17	U13BM011	MUTHEESWARAN U	S
18	U13BM012	MYTHILI G	S
19	U13BM013	NALINIDEVI N S	A
20	U13BM014	NASIR RIYAZ	B
21	U13BM015	NUSRATH SULTHANA K J	A
22	U13BM016	PREM RANJAN KUMAR	B
23	U13BM017	RAFIQ AHMAD	S
24	U13BM018	RAKESH KUMAR SHA	S
25	U13BM019	RESHMA J S	B
26	U13BM020	ROUF AHMAD WANI	S
27	U13BM021	SALMA A	A
28	U13BM022	SHAHID HUSSAIN HAJI	S
29	U13BM023	SHOWKAT AHMAD LONE	A
30	U13BM024	SHUBHAM KUMAR	S
31	U13BM025	SUDHA P M	S
32	U13BM026	VIGNESHWAR J	A
33	U13BM027	GANTA ABHIKIRAN	S

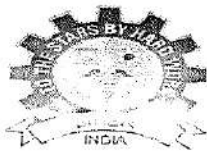
34	UI3BM028	B M MOULYAVIKA	B
35	U13BR003	HARSHA VARDHINI.B	A
36	U13BR007	PAVITHRA S	S
37	U13BR004	Lalan Gupta	S
38	U13BR016	SuprabuddhaDatta Chowdhury	S
39	U13BR018	Swetha M	S
40	UI2BM011	NIVETHA SHRI K	A
41	UI2BM012	OVAIS AHMAD KHAN	S
42	UI2BM014	PRIYA SINHA	S
43	UI2BM016	VINODHINI R	A
44	UI2BM017	VINOTHINI V	S
45	UI2BM018	SHAIK REHANA BEGUM	A

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
**SCHOOL OF BIO-ENGINEERING**  
**DEPARTMENT OF GENETIC ENGINEERING**  
**VALUE ADDED COURSE**  
**INTRODUCTION TO BIOLOGICAL HEALTH SCIENCE (2020-2021)**  
**Students Feedback**

S.No	Reg No	Name	Rating
1	U12BT001	Ankush	4.5
2	U12BT002	Ashutosh Kumar Ram	4.5
3	U12BT003	Ayub Alam	4.5
4	U12BT004	Guddu Kumar	3
5	U12BT005	Harini S	4.4
6	U12BT006	Jitendra Kumar	3.5
7	U12BT007	K.Dilleswari	4.5
8	U12BT008	Kumari Sangeeta Singh	5
9	U12BT009	Rakesh Kumar	4.5
10	U12BT012	Satadru Dutta Ray	5
11	U12BT013	Suruthi P	4.6
12	U12BT014	Vennila Devi P	5
13	U12BT015	Yasmine Y	4.4
14	U12BT016	Yogasri K	3.7
15	U12BT020	Irfan Hussain Lone	4.5
16	U13BM010	KM PREM LATA	4.5
17	U13BM011	MUTHEESWARAN U	5
18	U13BM012	MYTHILI G	5
19	U13BM013	NALINIDEVI N S	5
20	U13BM014	NASIR RIYAZ	5
21	U13BM015	NUSRATH SULTHANA K J	4.5
22	U13BM016	PREM RANJAN KUMAR	5
23	U13BM017	RAFIQ AHMAD	4.5
24	U13BM018	RAKESH KUMAR SHA	5
25	U13BM019	RESHMA J S	4.5
26	U13BM020	ROUF AHMAD WANI	4
27	U13BM021	SALMA A	5
28	U13BM022	SHAHID HUSSAIN HAJI	4.5
29	U13BM023	SHOWKAT AHMAD LONE	5
30	U13BM024	SHUBHAM KUMAR	4
31	U13BM025	SUDHA P M	4.5
32	U13BM026	VIGNESHWAR J	5
33	U13BM027	GANTA ABHIKIRAN	5
34	U13BM028	B M MOULYAVIKA	5
35	U13BR003	HARSHA VARDHINI.B	4.5
36	U13BR007	PAVITHRA S	5
37	U13BR004	Lalan Gupta	4.5
38	U13BR016	SuprabuddhaDatta Chowdhury	4
39	U13BR018	Swetha M	4.2
40	U12BM011	NIVETHA SHRI K	4.1
41	U12BM012	OVAIS AHMAD KHAN	4.6
42	U12BM014	PRIYA SINHA	4.3
43	U12BM016	VINODHINI R	4.2
44	U12BM017	VINOTHINI V	4.1



45	U12BM018	SHAIK REHANA BEGUM	4
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**SCHOOL OF BIO-ENGINEERING**

**VALUE ADDED COURSE ON INTRODUCTION TO BIOLOGICAL HEALTH SCIENCE**

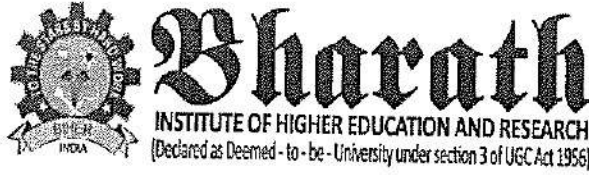
*Certificate of Participation*

This is to certify that Mr /Ms Swetha M (U13BR018) has attended three weeks value added course on Introduction to biological health science conducted by Department of Genetic Engineering at Bharath Institute of Higher Education and Research, Chennai (TN), India during 17<sup>th</sup> June - 27<sup>th</sup> July 2021.

*P. Rajasulochana*  
Coordinator

**HOD**

Head and Head  
Genetic Engineering  
Department of Genetic Engineering & Biotechnology  
Bharath Institute of Higher Education & Research  
(Declared as Deemed - to - be - University under section 3 of UGC Act 1956)  
Chennai - 600 075, Tamil Nadu, India



**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

**Date: 25.12.2020**

**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 Introduction to human value for excellence from 27/01/2021 for a period of 3 weeks. Interested students can approach Dr. K.Vijayalakshmi, Assistant Professor and Course Coordinator, Department of Genetic Engineering for registration and for further details on or before 05<sup>th</sup> January 2021.

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

*K. Vijayalakshmi*  
Course Coordinator

**HOD**

**Copy to:**

Vice Chancellor

Pro Vice Chancellor

Additional Registrar

Deans

CoE

Heads of Departments

Department Head  
Dept. of Genetic Engineering  
Bharath Institute of Higher Education and Research  
Chennai 600 075 Tamil Nadu India  
Chan

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
**SCHOOL OF BIO-ENGINEERING**  
**DEPARTMENT OF GENETIC ENGINEERING**  
**VALUE ADDED COURSE ON INTRODUCTION TO HUMAN VALUES FOR EXCELLENCE**  
**2020-2021**  
**COURSE CO-ORDINATOR DETAILS**

**Faculty Name:** Dr.K.Vijayalakshmi, Assistant Professor, Department of Genetic Engineering.

**Email ID:** [vijayalakshmi.genetic@bharathuniv.ac.in](mailto:vijayalakshmi.genetic@bharathuniv.ac.in)

**Mobile number:** 9444273215

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
**SCHOOL OF BIO-ENGINEERING**  
**DEPARTMENT OF GENETIC ENGINEERING**  
**VALUE ADDED COURSE SYLLABUS**  
**INTRODUCTION TO HUMAN VALUES FOR EXCELLENCE**

(2020-2021)

**OBJECTIVES**

1. To teach the philosophy of Life, personal value, social value, mind cultural value and personal health
2. To teach professional ethical values, codes of ethics,
3. To take responsibilities, safety, rights and related global issues.

**UNIT I: PHILOSOPHY OF LIFE AND INDIVIDUAL QUALITIES** 9

Human Life on Earth - Purpose of Life, Meaning and Philosophy of Life. The Law of Nature – Protecting Nature /Universe. Basic Culture - Thought Analysis - Regulating desire - Guarding against anger.

**UNIT II: SOCIAL VALUES (INDIVIDUAL AND SOCIAL WELFARE)** 9

Family - Peace in Family, Society, The Law of Life Brotherhood - The Pride of Womanhood – Five responsibilities/duties of Man : - a) to himself, b) to his family, c) to his environment, d) to his society, e) to the Universe in his lives.

**UNIT III: MIND CULTURE & TENDING PERSONAL HEALTH** 9

Mind Culture - Life and Mind - Bio - magnetism, Universal Magnetism (God –Realization and Self Realization) - Genetic Centre – Thought Action – Short term Memory – Expansiveness – Thought – Waves..

**Total Contact Hours: 30**

**TEXT BOOKS:**

1. Value Education for Health, Happiness and Harmony, The World Community Service, Centre Vethathiri Publications (Unit 1 – III).

**REFERENCE BOOKS:**

1. Philosophy of Universal Magnetism (Bio - magnetism, Universal Magnetism) The World Community Service Centre Vethathiri Publications (for Unit III)
2. Thirukkural with English Translation of Rev. Dr. G.U. Pope, Uma Publication, 156, Serfoji Nagar, Medical College Road, Thanjavur (for Units I - III).

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

**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					<b>LUNCH BREAK</b>			
TUE								
WED								
THU								
FRI						HVE		
SAT	HVE					HVE		
						HVE		

SUBJECT CODE	SUBJECT NAME	STAFF
Theory		
Value added course	Introduction to Human value for Excellence (HVE)	Dr.K.Vijayalakshmi

**SCHOOL OF BIO-ENGINEERING**  
**DEPARTMENT OF GENETIC ENGINEERING**  
**VALUE ADDED COURSE LESSON PLAN**  
**Introduction to Human value for Excellence**

Session	Topic	Date	Duration (Hr)	Resource person
Session I	History and types of Bioinoculants	29.01.2021	3	Dr.K.Vijayalakshmi
Session II	Biological nitrogen fixation	29.01.2021	3	Dr.K.Vijayalakshmi
Session III	Characteristics and classification of Rhizobium, Azospirillum	30.02.2021	4	Dr.T.Jayalakshmi
Session IV	Mycorrhizae and types	05.02.2021	3	Dr.P.B.Ramesh babu
Session V	Blue green algae and Azolla	05.02.2021	3	Dr.K.Vijayalakshmi
Session VI	Mechanisms of 'P' mobilizers	06.02.2021	4	Dr.P.Rajasulochana
Session VII	N <sub>2</sub> fixation mechanisms	12.02.2021	3	Dr.T.Jayalakshmi
Session VIII	Frankia characters and their importance	13.02.2021	3	Dr.T.Jayalakshmi
Session IX	Zn, K, and Si, solubilizer and their importance.	13.02.2021	4	Mrs.K.Vijayalakshmi

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
**SCHOOL OF BIO-ENGINEERING**  
**DEPARTMENT OF GENETIC ENGINEERING**  
**VALUE ADDED COURSE**  
**INTRODUCTION TO HUMAN VALUE EDUCATION FOR EXCELLENCE(2020-2021)**  
**Students Name List**

S.No	Reg No	Name
1	U13BR005	Mohammed Abrar Basha
2	U13BR013	SHRI VISHALINI R
3	U13BR001	AFI SINGH D.B
4	U13BR002	C.DURGA LAXSHMI
5	U13BR003	HARSHA VARDHINI.B
6	U13BR007	PAVITHRA S
7	U13BR004	Lalan Gupta
8	U13BR016	SuprabuddhaDatta Chowdhury
9	U13BR018	Swetha M
10	U13BM001	AARTHI R
11	U13BM002	ABHISHEK SARKAR
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13	U13BM005	DEBJYOTI PATRA
14	U13BM006	IRFANA BEGUM A
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17	U13BM009	KANDEEPAN J
18	U13BM010	KM PREM LATA
19	U13BM011	MUTHEESWARAN U
20	U13BM012	MYTHILI G
21	U13BM013	NALINIDEVI N S
22	U13BM014	NASIR RIYAZ
23	U13BM015	NUSRATH SULTHANA K J
24	U11BT001	Abhishek Roy
25	U11BT002	Anish Kumar
26	U11BT003	Anoop Prakash Chandra
27	U11BT004	Avinash Kumar
28	U11BT005	Daniel Raj Prabhakar I
29	U11BT006	Divya D
30	U11BT007	Dola Sarkar
31	U11BT008	Guvvada Neelima
32	U11BT009	Maggidi Reynolds
33	U12BT001	Ankush
34	U12BT002	Ashutosh Kumar Ram
35	U12BT003	Ayub Alam
36	U12BT004	Guddu Kumar
37	U12BT005	Harini S



38	U12BT006	Jitendra Kumar
39	U12BT007	K.Dilleswari
40	U12BT008	Kumari Sangeeta Singh
41	U12BT009	Rakesh Kumar
42	U12BT012	Satadru Dutta Ray
43	U12BT013	Suruthi P

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH  
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VALUE ADDED COURSE  
INTRODUCTION TO HUMAN VALUE FOR EXCELLENCE (2021)  
Attendance Report

S.No	Reg No	Name	29/01/21	30/01/21	5/2/2021	6/2/2021	12/2/2021	13/02/21
1	U13BR005	Mohammed Abrar Basha	P	P	P	P	P	P
2	U13BR013	SHRI VISHALINI R	P	P	P	P	P	P
3	U13BR001	AFI SINGH D.B	P	P	P	P	P	P
4	U13BR002	C.DURGA LAXSHMI	P	P	P	P	AB	P
5	U13BR003	HARSHA VARDHINI.B	P	P	P	P	P	P
6	U13BR007	PAVITHRA S	P	P	P	P	P	P
7	U13BR004	Lalan Gupta	P	P	P	P	P	P
8	U13BR016	Suprabaddha Datta Chowdhury	P	P	P	P	P	P
9	U13BR018	Swetha M	P	P	P	P	P	P
10	U13BM001	AARTHI R	P	P	P	P	P	P
11	U13BM002	ABHISHEK SARKAR	P	P	P	P	P	P
12	U13BM004	CHITPIRALLA YUVA CHAITANYA	P	P	P	P	P	P
13	U13BM005	DEBJYOTI PATRA	P	P	P	P	P	AB
14	U13BM006	IRFANA BEGUM A	P	AB	AB	P	P	P
15	U13BM007	JENNY E	P	P	P	P	P	P
16	U13BM008	JONTTY TYAGI	AB	P	P	P	P	P
17	U13BM009	KANDEEPAN J	P	P	P	P	P	P
18	U13BM010	KM PREM LATA	P	P	P	P	P	P
19	U13BM011	MUTHESWARAN U	P	P	P	P	P	P
20	U13BM012	MYTHILI G	P	P	P	P	P	P
21	U13BM013	NALINIDEVI N S	P	P	P	AB	P	P
22	U13BM014	NASIR RIAZ	P	P	P	P	P	P
23	U13BM015	NUSRATH SULTHANA K J	AB	P	P	P	P	P
24	U11BT001	Abhishek Roy	P	P	P	P	AB	P
25	U11BT002	Anish Kumar	P	P	P	AB	P	P
26	U11BT003	Anoop Prakash Chandra	P	P	P	P	P	P
27	U11BT004	Avinash Kumar	P	P	P	P	P	P
28	U11BT005	Daniel Raj Prabhakar f	P	P	P	P	P	P
29	U11BT006	Divya D	P	P	P	P	P	AB
30	U11BT007	Dola Sarkar	P	P	P	P	P	P
31	U11BT008	Guvvada Neelima	P	AB	P	P	P	P
32	U11BT009	Maggidi Reynolds	P	P	P	P	P	P
33	U12BT001	Ankush	P	P	P	P	AB	P
34	U12BT002	Ashutosh Kumar Ram	P	P	P	P	P	P
35	U12BT003	Ayub Alam	AB	P	P	P	P	P
36	U12BT004	Guddu Kumar	P	P	P	AB	P	P
37	U12BT005	Harini S	P	P	P	P	P	P
38	U12BT006	Jitendra Kumar	P	AB	P	P	P	P
39	U12BT007	K.Dilleswari	AB	P	P	P	AB	P
40	U12BT008	Kumari Sangeeta Singh	P	P	P	P	P	P
41	U12BT009	Rakesh Kumar	P	P	P	P	P	P
42	U12BT012	Satadru Dutta Ray	P	P	P	P	P	AB
43	U12BT013	Suruthi P	P	P	P	P	P	P

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**INTRODUCTION TO HUMAN VALUE FOR EXCELLENCE(2020-2021)**  
**Result Analysis**

S.No	Reg No	Name	Grade
1	U13BR005	Mohammed Abrar Basha	S
2	U13BR013	SHRI VISHALINI R	S
3	U13BR001	AFI SINGH D.B	A
4	U13BR002	C.DURGA LAXSHMI	B
5	U13BR003	HARSHA VARDHINI.B	A
6	U13BR007	PAVITHRA S	S
7	U13BR004	Lalan Gupta	A
8	U13BR016	SuprabuddhaDatta Chowdhury	S
9	U13BR018	Swetha M	A
10	U13BM001	AARTHI R	S
11	U13BM002	ABHISHEK SARKAR	B
12	U13BM004	CHITIPIRALLA YUVA CHAITANYA	A
13	U13BM005	DEBIYOTI PATRA	B
14	U13BM006	IRFANA BEGUM A	A
15	U13BM007	JENNY E	A
16	U13BM008	JONTTY TYAGI	S
17	U13BM009	KANDEEPAN J	A
18	U13BM010	KM PREM LATA	A
19	U13BM011	MUTHEESWARAN U	B
20	U13BM012	MYTHILI G	A
21	U13BM013	NALINIDEVI N S	A
22	U13BM014	NASIR RIYAZ	A
23	U13BM015	NUSRATH SULTHANA K J	S
24	U11BT001	Abhishek Roy	S
25	U11BT002	Anish Kumar	B
26	U11BT003	Anoop Prakash Chandra	B
27	U11BT004	Avinash Kumar	A
28	U11BT005	Daniel Raj Prabhakar I	S
29	U11BT006	Divya D	S
30	U11BT007	Dola Sarkar	A
31	U11BT008	Guvvada Neelima	A
32	U11BT009	Maggidi Reynolds	S
33	U12BT001	Ankush	B
34	U12BT002	Ashutosh Kumar Ram	A
35	U12BT003	Ayub Alam	B
36	U12BT004	Guddu Kumar	A

37	U12BT005	Harini S	S
38	U12BT006	Jitendra Kumar	A
39	U12BT007	K.Dilleswari	B
40	U12BT008	Kumari Sangeeta Singh	B
41	U12BT009	Rakesh Kumar	A
42	U12BT012	Satadru Dutta Ray	S
43	U12BT013	Suruthi P	S

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**INTRODUCTION TO HUMAN VALUES FOR EXCELLENCE(2020-2021)**  
**Students Feedback**

S.No	Reg No	Name	Rating
1	U13BR005	Mohammed Abrar Basha	
2	U13BR013	SHRI VISHALINI R	4.5
3	U13BR001	AFI SINGH D.B	4.5
4	U13BR002	C.DURGA LAXSHMI	4.5
5	U13BR003	HARSHA VARDHINI.B	3
6	U13BR007	PAVITHRA S	4.4
7	U13BR004	Lalan Gupta	3.5
8	U13BR016	SuprabuddhaDatta Chowdhury	4.5
9	U13BR018	Swetha M	5
10	U13BM001	AARTHI R	4.5
11	U13BM002	ABHISHEK SARKAR	5
12	U13BM004	CHITIPIRALLA YUVA CHAITANYA	4.6
13	U13BM005	DEBJYOTI PATRA	5
14	U13BM006	IRFANA BEGUM A	4.4
15	U13BM007	JENNY E	3.7
16	U13BM008	JONTTY TYAGI	4.5
17	U13BM009	KANDEEPAN J	4.5
18	U13BM010	KM PREM LATA	5
19	U13BM011	MUTHEESWARAN U	5
20	U13BM012	MYTHILI G	5
21	U13BM013	NALINI/DEVI N S	5
22	U13BM014	NASIR RIYAZ	4.5
23	U13BM015	NUSRATH SULTHANA K J	5
24	U11BT001	Abhishek Roy	4.5
25	U11BT002	Anish Kumar	5
26	U11BT003	Anoop Prakash Chandra	4.5
27	U11BT004	Avinash Kumar	4
28	U11BT005	Daniel Raj Prabhakar I	5
29	U11BT006	Divya D	4.5
30	U11BT007	Dola Sarkar	5
31	U11BT008	Guvvada Neelima	4
32	U11BT009	Maggidi Reynolds	4.5
33	U12BT001	Ankush	5
34	U12BT002	Ashutosh Kumar Ram	5
35	U12BT003	Ayub Alam	5
36	U12BT004	Guddu Kumar	4.5
37	U12BT005	Harini S	5
			4.5

38	U12BT006	Jitendra Kumar	
39	U12BT007	K.Dilleswari	4
40	U12BT008	Kumari Sangeeta Singh	5
41	U12BT009	Rakesh Kumar	4.5
42	U12BT012	Satadru Dutta Ray	5
43	U12BT013	Suruthi P	5
			4.5



# 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 INTRODUCTION TO HUMAN VALUE FOR EXCELLENCE

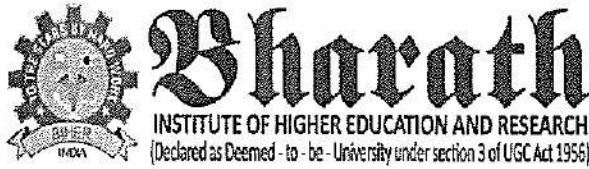
*Certificate of Participation*

This is to certify that Mr /Ms Lalan Gupta (U13BR004) has attended three weeks value added course on INTRODUCTION TO HUMAN VALUE FOR EXCELLENCE conducted by Department of Genetic Engineering at Bharath Institute of Higher Education and Research, Chennai (TN), India during 27th January to 13th February 2021.

*K. Manjula*  
Coordinator

HOD **DR. BABU, Ph.D.**

Department of Genetic Engineering  
Bharath Institute of Higher Education and Research  
Chennai (TN), India



**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

Date: 16.04.2021

**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 Introduction to Personal health management from 16/05/2021 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 1<sup>st</sup> May 2021.

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

  
Course Coordinator

  
HOD

Copy to:

Vice Chancellor

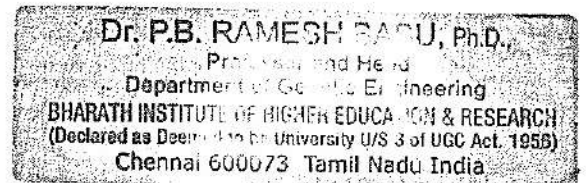
Pro Vice Chancellor

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 ON**

**INTRODUCTION TO PERSONAL HEALTH MANAGEMENT**

**2020-2021**

**COURSE CO-ORDINATOR DETAILS**

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

**Email ID:** [jayalakshmi.bi@bharathuniv.ac.in](mailto: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**

**Introduction to Personal Health Management**

**OBJECTIVES**

1. Able to employ health care systems in India.
2. Understand the basics of epidemiology.

**MODULE I: Introduction to Public Health**

Evolution of Public Health. Important Public Health Acts, Health problems of developed and developing countries, Health problems in India, Environment and Health.

**MODULE II: Basic Epidemiology**

Definition and Concepts of Epidemiology, Concepts of Health and Disease.

Role of Genetics in Health and Disease, Levels of Prevention, Types of Epidemiology, Uses of Epidemiology.

**MODULE III: Health Systems in India**

Health planning in India including various committees and National Health Policy and Health Goals set from time to time. Organised sector with reference to Centre, State, District and Block level structures and local bodies and Panchayati Raj Organisation and functions of community health centres and Primary Health Centres (PHCs).

**Total Contact Hours: 30**

**TEXT BOOKS:**

1. S.C. Gupta & V.K. Kapoor, Fundamentals of Health systems, New Delhi, 2003.
2. 'Organised sector' by Kapur J.N. And Saxena H. C. S. Chand and Co., New Delhi 2004.

**REFERENCE BOOKS:**

1. Concepts of epidemiology, second edition: (Hardcover-Dec 28, 2006)
2. Healthcare systems: Principles and Practice by B. Antonisamy Solomom Christopher, Prasanna Samuelson 1st edition Pub Date 14 Sep 09.

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

**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					<b>LUNCH BREAK</b>			
TUE								
WED								
THU								
FRI						IPHM		
SAT	IPHM					IPHM		

SUBJECT CODE	SUBJECT NAME	STAFF
Theory		
Value added course	Introduction to Personal health management (IPHM)	Dr.T.Jayalakshmi

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

**INTRODUCTION TO PERSONAL HEALTH MANAGEMENT (2020-2021)**

Session	Topic	Date	Duration (Hr)	Resource person
Session I	Evolution of Public Health	20/5/2021	3	Dr.P.B.Ramesh babu
Session II	Important Public Health Acts	20/5/2021	3	Mr.A.Manikandan
Session III	Environment and Health	21/5/2021	4	Dr.T.Jayalakshmi
Session IV	Concepts of Epidemiology	27/5/2021	3	Dr.P.B.Ramesh babu
Session V	Role of Genetics in Health and Disease	27/5/2021	3	Mr.A.Manikandan
Session VI	Levels of Prevention	28/5/2021	4	Dr.P.Rajasulochana
Session VII	Health planning in India	28/5/2021	3	Dr.P.B.Ramesh babu
Session VIII	Organised sector	3/6/2021	3	Dr.T.Jayalakshmi
Session IX	National Health Policy	4/6/2021	4	Mrs.K.Vijayalakshmi

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
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**INTRODUCTION TO PERSONAL HEALTH MANAGEMENT (2020-2021)**  
**Students Name List**

S.No	Reg No	Name
1	U13BR003	HARSHA VARDHINI.B
2	U13BR004	Lalan Gupta
3	U13BR013	SHRI VISHALINI R
4	U13BR007	Pavithra
5	U13BR016	SuprabuddhaDatta Chowdhury
6	U12BT001	Ankush
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8	U12BT003	Ayub Alam
9	U12BT004	Guddu Kumar
10	U12BT005	Harini S
11	U12BT006	Jitendra Kumar
12	U12BT007	K.Dilleswari
13	U12BT008	Kumari Sangeeta Singh
14	U12BT009	Rakesh Kumar
15	U12BT012	Satadru Dutta Ray
16	U12BT013	Suruthi P
17	U12BT014	Vennila Devi P
18	U12BT015	Yasmine Y
19	U13BM009	KANDEEPAN J
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28	U13BM014	NASIR RIYAZ
29	U13BM015	NUSRATH SULTHANA K J
30	U13BM016	PREM RANJAN KUMAR
31	U13BM017	RAFIQ AHMAD
32	U13BM018	RAKESH KUMAR SHA
33	U13BM019	RESHMA J S
34	U12BM001	ABIGAIL LALNUNNEM PAKHUONGTE
35	U12BM002	ADLINE MONISHA KEZIAH S

36	U12BM004	AQSA ASLAM
37	U12BM005	BIVASH RAI
38	U12BM006	HARITHA P C
39	U12BM007	JIABUR RAHAMAN
40	U12BM008	KAYALVIZHI S
41	U12BM018	SHAIK REHANA BEGUM
42	U12BM020	ROOBINI K
43	U12BM021	SANTHANA PRIYA S
44	U12BM024	JAFFAR SADHIK J
45	U12BM501	SABAHAT SYED

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
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**VALUE ADDED COURSE**  
**INTRODUCTION TO PERSONAL HEALTH MANAGEMENT (2020-2021)**

**Attendance Report**

S.No	Reg No	Name	20/5/2021	21/5/2021	27/5/2021	28/5/2021	3/6/2021	4/6/2021
1	U13BR003	HARSHA VARDHINI.B	P	AB	P	P	P	P
2	U13BR004	Lalan Gupta	P	P	AB	P	P	P
3	U13BR013	SHRI VISHALINI R	P	P	P	P	AB	P
4	U13BR007	Pavithra	P	P	P	P	P	P
5	U13BR016	SuprabuddhaDatta Chowdhury	P	P	AB	P	P	P
6	U12BT001	Ankush	P	P	P	P	P	P
7	U12BT002	Ashtosh Kumar Ram	P	P	P	P	P	P
8	U12BT003	Ayub Alam	P	AB	P	P	P	P
9	U12BT004	Guddu Kumar	P	P	P	P	P	P
10	U12BT005	Harini S	P	P	AB	P	P	P
11	U12BT006	Jitendra Kumar	P	P	P	P	P	P
12	U12BT007	K.Dilteswari	P	P	P	P	P	P
13	U12BT008	Kumari Sangeeta Singh	P	P	P	P	P	AB
14	U12BT009	Rakesh Kumar	P	AB	AB	P	P	P
15	U12BT012	Satadru Dutta Ray	P	P	P	P	P	P
16	U12BT013	Suruthi P	AB	P	P	P	P	P
17	U12BT014	Vennila Devi P	P	P	P	P	P	P
18	U12BT015	Yasmine Y	P	P	P	P	P	P
19	U13BM009	KANDEEPAN J	P	P	P	P	P	P
20	U13BM010	KM PREM LATA	P	P	P	P	P	P
21	U13BM001	AARTHI R	P	P	P	AB	P	P
22	U13BM002	ABHISHEK SARKAR	P	P	P	P	P	P
23	U13BM004	CHITIPIRALLA YUVA CHAITANYA	AB	P	P	P	AB	P
24	U13BM005	DEBJYOTI PATRA	P	P	P	AB	P	P
25	U13BM006	IRFANA BEGUM A	P	P	P	P	P	P
26	U13BM007	JENNY E	P	P	P	P	P	P
27	U13BM013	NALINIDEVI N S	P	P	P	P	P	P
28	U13BM014	NASIR RIYAZ	P	P	P	P	P	P
29	U13BM015	NUSRATH SULTHANA K J	P	P	P	P	P	AB
30	U13BM016	PREM RANJAN KUMAR	P	P	P	P	P	P
31	U13BM017	RAFIQ AHMAD	P	AB	P	P	P	P
32	U13BM018	RAKESH KUMAR SHA	P	P	P	P	P	P
33	U13BM019	RESHMA J S	P	P	P	P	AB	P
34	U12BM001	ABIGAIL LALNUNNEM PAKHUONGTE	P	P	P	P	P	P
35	U12BM002	ADLINE MONISHA KEZIAH S	AB	P	P	AB	P	P
36	U12BM004	AQSA ASLAM	P	P	P	P	P	P
37	U12BM005	BIVASH RAI	P	P	P	P	P	P
38	U12BM006	HARITHA P C	P	P	P	P	P	P
39	U12BM007	JIABUR RAHAMAN	P	P	P	P	P	P
40	U12BM008	KAYALVIZHI S	P	P	P	AB	P	P
41	U12BM018	SHAIK REHANA BEGUM	P	P	P	P	P	P
42	U12BM020	ROOBINI K	P	P	P	P	P	P
43	U12BM021	SANTHANA PRIYA S	AB	P	P	P	P	P
44	U12BM024	JAFFAR SADHIK J	P	P	P	AB	P	P
45	U12BM501	SABAHA SYED	P	P	P	P	P	P

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**Introduction to Personal health Management (2020-2021)**  
**Result Analysis**

S.No	Reg No	Name	Grade
1	U13BR003	Harsha Vardhini B	
2	U13BR004	Lalan Gupta	A
3	U13BR013	Shri vishalini R	B
4	U13BR007	Pavithra	A
5	U13BR016	SuprabuddhaDatta Chowdhury	B
6	U12BT001	Ankush	A
7	U12BT002	Ashutosh Kumar Ram	A
8	U12BT003	Ayub Alam	A
9	U12BT004	Guddu Kumar	S
10	U12BT005	Harini S	B
11	U12BT006	Jitendra Kumar	S
12	U12BT007	K.Dilleswari	B
13	U12BT008	Kumari Sangeeta Singh	A
14	U12BT009	Rakesh Kumar	B
15	U12BT012	Satadru Dutta Ray	A
16	U12BT013	Suruthi P	A
17	U12BT014	Vennila Devi P	S
18	U12BT015	Yasmine Y	B
19	U13BM009	KANDEEPAN J	A
20	U13BM010	KM PREM LATA	B
21	U13BM001	AARTHI R	A
22	U13BM002	ABHISHEK SARKAR	A
23	U13BM004	CHITIPIRALLA YUVA CHAITANYA	A
24	U13BM005	DEBJYOTI PATRA	S
25	U13BM006	IRFANA BEGUM A	S
26	U13BM007	JENNY E	B
27	U13BM013	NALINIDEVI N S	B
28	U13BM014	NASIR RIYAZ	A
29	U13BM015	NUSRATH SULTHANA K J	S
30	U13BM016	PREM RANJAN KUMAR	S
31	U13BM017	RAFIQ AHMAD	A
32	U13BM018	RAKESH KUMAR SHA	A
33	U13BM019	RESHMA J S	S
34	U12BM001	ABIGAIL LALNUNNEM PAKHUONGTE	B
35	U12BM002	ADLINE MONISHA KEZIAH S	A
36	U12BM004	AQSA ASLAM	B
			A



37	U12BM005	BIVASH RAI	S
38	U12BM006	HARITHA P C	S
39	U12BM007	JIABUR RAHAMAN	B
40	U12BM008	KAYALVIZHI S	A
41	U12BM018	SHAIK REHANA BEGUM	B
42	U12BM020	ROOBINI K	A
43	U12BM021	SANTHANA PRIYA S	B
44	U12BM024	JAFFAR SADHIK J	A
45	U12BM501	SABAHAT SYED	B

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
**SCHOOL OF BIO-ENGINEERING**  
**DEPARTMENT OF GENETIC ENGINEERING**  
**VALUE ADDED COURSE**  
**Introduction to Personal HealthMangement (2020-2021)**  
**Students Feedback**

S.No	Reg No	Name	Rating
1	U13BR003	Harsha Vardhini B	4
2	U13BR004	Lalan Gupta	5
3	U13BR013	Shri Vishalini R	4
4	U13BR007	Pavithra	4
5	U13BR016	SuprabuddhaDatta Chowdhury	4.4
6	U12BT001	Ankush	3.5
7	U12BT002	Ashutosh Kumar Ram	4.5
8	U12BT003	Ayub Alam	5
9	U12BT004	Guddu Kumar	4.5
10	U12BT005	Harini S	5
11	U12BT006	Jitendra Kumar	4.6
12	U12BT007	K.Dilleswari	5
13	U12BT008	Kumari Sangeeta Singh	4.4
14	U12BT009	Rakesh Kumar	4
15	U12BT012	Satadru Dutta Ray	4.5
16	U12BT013	Suruthi P	4.5
17	U12BT014	Vennila Devi P	5
18	U12BT015	Yasmine Y	5
19	U13BM009	KANDEEPAN J	5
20	U13BM010	KM PREM LATA	5
21	U13BM001	AARTHI R	4.5
22	U13BM002	ABHISHEK SARKAR	5
23	U13BM004	CHITIPIRALLA YUVA CHAITANYA	4.5
24	U13BM005	DEBJYOTI PATRA	5
25	U13BM006	IRFANA BEGUM A	4.5
26	U13BM007	JENNY E	4
27	U13BM013	NALINIDEVIN S	5
28	U13BM014	NASIR RIYAZ	4.5
29	U13BM015	NUSRATH SULTHANA K J	5
30	U13BM016	PREM RANJAN KUMAR	4
31	U13BM017	RAFIQ AHMAD	4.5
32	U13BM018	RAKESH KUMAR SHA	5
33	U13BM019	RESHMA J S	5
34	U12BM001	ABIGAIL LALNUNNEM PAKHUONGTE	5
35	U12BM002	ADLINE MONISHA KEZIAH S	4.5

36	U12BM004	AQSA ASLAM	5
37	U12BM005	BIVASH RAI	4.5
38	U12BM006	HARITHA P C	4.4
39	U12BM007	JIABUR RAHAMAN	3.5
40	U12BM008	KAYALVIZHI S	4.5
41	U12BM018	SHAIK REHANA BEGUM	5
42	U12BM020	ROOBINI K	4.5
43	U12BM021	SANTHANA PRIYA S	4.4
44	U12BM024	JAFFAR SADHIK J	4
45	U12BM501	SABAHAT SYED	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 INTRODUCTION TO PERSONAL HEALTH MANAGEMENT**

*Certificate of Participation*

This is to certify that Mr /Ms Bivash Rai (U12BM005) has attended three weeks value added course on Introduction to Personal Health management conducted by Department of Genetic Engineering at Bharath Institute of Higher Education and Research, Chennai (TN), India during 20<sup>th</sup> - 4<sup>th</sup> May & June 2021.

  
Coordinator

  
HOD



From

Chennai -73

The HOD

4-01-2021

Department of Biomedical Engineering

BIHER

To

The Dean

BIHER

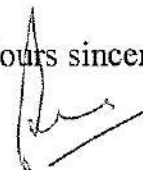
Respected Sir

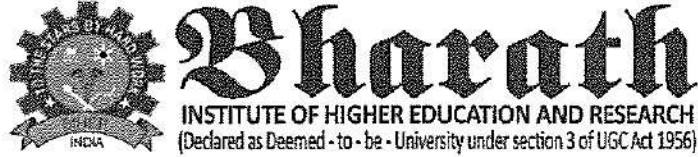
Sub: approval to start a value added course on "Course On Early Childhood Education" (Online) -reg

It has been planned by the Faculty of Biomedical Engineering to start a Value Added Course on "Course On Early Childhood Education" for the benefit of the B.Tech Biomedical Engineering students from 27<sup>th</sup> January 2021 . The duration of the course is 30 hrs. I request you to kindly approve of the same.

Thanking you

Yours sincerely

A handwritten signature in black ink, appearing to be the name of the sender, written over the typed name 'Yours sincerely'.



**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

**Date: 16-01-2021**

**SCHOOL OF BIOENGINEERING**


**CIRCULAR**

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

The Department of Bio Medical Engineering, School of Bioengineering, is scheduled to offer a Value added Course on **COURSE ON EARLY CHILDHOOD EDUCATION** from 27-01-2021 for a period of 3 weeks. Interested students can approach Dr. P. KANAGARAJ, Associate Professor and Course Coordinator, Department of Bio Medical Engineering for registration and for further details on or before 26<sup>th</sup> January 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 BIO MEDICAL ENGINEERING**  
**VALUE ADDED COURSE ON COURSE ON EARLY CHILDHOOD EDUCATION**  
**2020-2021**  
**COURSE CO-ORDINATOR DETAILS**

**Faculty Name** : Dr. P. KANAGARAJ  
**Designation** : Associate Professor  
**Department** : Biomedical Engineering  
**Email ID** : muthammal.kanagaraj@gmail.com  
**Mobile number** : 9884014969

## **COURSE ON EARLY CHILDHOOD EDUCATION**

### **UNIT I Child Development and basic concepts**

Growth, development & principles of child development- Importance of studying children in the contemporary context-Nature and Scope of child development-Fundamental concepts of Child Development.

### **UNIT II BASIC CONCEPTS OF CHILD EDUCATION DEVELOPMENT**

Understanding the conceptual heredity and environment-maturation & learning, health and nutrition, factors determining-development-Developmental areas, developmental tasks-General principles of growth and development.

### **UNIT III Methods of studying children**

Cross-sectional and longitudinal approaches. Observation -techniques, interview, questionnaire- Projective Techniques.

### **UNIT IV Personality Development**

Meaning of Personality-Role of genetic and environmental factors in shaping personality characteristics-Personality as a function of culture and child-rearing.

### **UNIT V LANGUAGE & COGNITIVE DEVELOPMENT**

Defining language development-Sequence of language development including its social and cultural aspects.-What is cognition ? -Content / Stages of cognitive growth in childhood-Views of Piaget-Concept development in young children-Creativity in relation to cognitive development.

### **TEXT BOOKS:**

1. Bruce T. Early childhood education. Hachette UK; 2012 Mar 16.
2. Morrison GS. Early childhood education today. Kevin M. Davis; 2007.



**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

**SCHOOL OF BIO-ENGINEERING**

**DEPARTMENT OF BIO MEDICAL 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					<b>LUNCH BREAK</b>			
TUE								
WED								
THU								
FRI						ECE		
SAT	ECE					ECE		

SUBJECT CODE	SUBJECT NAME	STAFF
Theory		
Value added course	Early Childhood Education(ECE)	Dr. P. Kanagaraj

**SCHOOL OF BIO-ENGINEERING**  
**DEPARTMENT OF BIO MEDICAL ENGINEERING**  
**VALUE ADDED COURSE**

**COURSE ON COURSE ON EARLY CHILDHOOD EDUCATION (2020-2021)**

Session	Topic	Date	Duration (Hr)	Resource person
Session I	CHILD DEVELOPMENT AND BASIC CONCEPTS	27.01.2021	3	Dr.F.Emerson Solomon
Session II	CHILD DEVELOPMENT AND BASIC CONCEPTS	27.01.2021	3	Mr.S.Prasath
Session III	BASIC CONCEPTS OF CHILD EDUCATION DEVELOPMENT	28.01.2021	4	Ms.S.Geetha
Session IV	BASIC CONCEPTS OF CHILD EDUCATION DEVELOPMENT	28.01.2021	3	Mr.S.Prasath
Session V	METHODS OF STUDYING CHILDREN	03.02.2021	3	Dr.F.Emerson Solomon
Session VI	METHODS OF STUDYING CHILDREN	03.02.2021	4	Dr. P. KANAGARAJ
Session VII	PERSONALITY DEVELOPMENT	04.02.2021	3	Ms.S.Geetha
Session VIII	PERSONALITY DEVELOPMENT	09.02.2021	3	Mr.S.Prasath
Session IX	LANGUAGE & COGNITIVE DEVELOPMENT	10.02.2021	4	Ms.S.Geetha

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH  
SCHOOL OF BIO-ENGINEERING  
DEPARTMENT OF BIO MEDICAL ENGINEERING  
VALUE ADDED COURSE  
COURSE ON COURSE ON EARLY CHILDHOOD EDUCATION (2020-2021)

ChapName	Name	Sno
Topic	Sub Topic	Duration
UNIT I CHILD DEVELOPMENT AND BASIC CONCEPTS	Growth, development & principles of child development	1 hour
UNIT I CHILD DEVELOPMENT AND BASIC CONCEPTS	Importance of studying children in the contemporary context	1 hour
UNIT I CHILD DEVELOPMENT AND BASIC CONCEPTS	Nature and Scope of child development	1 hour
UNIT I CHILD DEVELOPMENT AND BASIC CONCEPTS	Nature and Scope of child development	1 hour
UNIT I CHILD DEVELOPMENT AND BASIC CONCEPTS	Fundamental concepts of Child Development	1 hour
UNIT I CHILD DEVELOPMENT AND BASIC CONCEPTS	Fundamental concepts of Child Development	1 hour
UNIT II BASIC CONCEPTS OF CHILD EDUCATION DEVELOPMENT	Understanding the conceptual heredity and environment-maturation & learning	1 hour
UNIT II BASIC CONCEPTS OF CHILD EDUCATION DEVELOPMENT	health and nutrition	1 hour
UNIT II BASIC CONCEPTS OF CHILD EDUCATION DEVELOPMENT	factors determining-development	1 hour
UNIT II BASIC CONCEPTS OF CHILD EDUCATION DEVELOPMENT	Developmental areas	1 hour
UNIT II BASIC CONCEPTS OF CHILD EDUCATION DEVELOPMENT	developmental tasks-General principles of growth and development	1 hour
UNIT II BASIC CONCEPTS OF CHILD EDUCATION DEVELOPMENT	developmental tasks-General principles of growth and development	1 hour
UNIT III METHODS OF STUDYING CHILDREN	Cross-sectional and longitudinal approaches	1 hour
UNIT III METHODS OF STUDYING CHILDREN	Cross-sectional and longitudinal approaches	1 hour

UNIT III METHODS OF STUDYING CHILDREN	Observation -techniques	1 hour
UNIT III METHODS OF STUDYING CHILDREN	Observation -techniques	1 hour
UNIT III METHODS OF STUDYING CHILDREN	interview, questionnaire	1 hour
UNIT III METHODS OF STUDYING CHILDREN	Projective Techniques	1 hour
UNIT IV PERSONALITY DEVELOPMENT	Meaning of Personality	1 hour
UNIT IV PERSONALITY DEVELOPMENT	Role of genetic and environmental factors in shaping	1 hour
UNIT IV PERSONALITY DEVELOPMENT	Role of genetic and environmental factors in shaping	1 hour
UNIT IV PERSONALITY DEVELOPMENT	personality characteristics	1 hour
UNIT IV PERSONALITY DEVELOPMENT	Personality as a function of culture and child-rearing	1 hour
UNIT IV PERSONALITY DEVELOPMENT	Personality as a function of culture and child-rearing	1 hour
UNIT V LANGUAGE & COGNITIVE DEVELOPMENT	Defining language development	1 hour
UNIT V LANGUAGE & COGNITIVE DEVELOPMENT	Sequence of language development including its social and cultural aspects	1 hour
UNIT V LANGUAGE & COGNITIVE DEVELOPMENT	What is cognition ? -Content / Stages of cognitive growth in childhood-Views of Piaget-Concept development in young children-	1 hour
UNIT V LANGUAGE & COGNITIVE DEVELOPMENT	What is cognition ? -Content / Stages of cognitive growth in childhood-Views of Piaget-Concept development in young children-	1 hour
UNIT V LANGUAGE & COGNITIVE DEVELOPMENT	Creativity in relation to cognitive development	1 hour
UNIT V LANGUAGE & COGNITIVE DEVELOPMENT	Creativity in relation to cognitive development	1 hour

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
**SCHOOL OF BIO-ENGINEERING**  
**DEPARTMENT OF BIO MEDICAL ENGINEERING**  
**VALUE ADDED COURSE**  
**COURSE ON EARLY CHILDHOOD EDUCATION (2020-2021)**

**Students Name List**

S.NO	REG.NO	NAME	SEM/ YEAR	DEPART MENT
1.	U14BM005	Aravind Bharathwaj .V.S.	V / III	BME
2.	U14BM007	Athina Das	V / III	BME
3.	U14BM010	Damini Sarkar	V / III	BME
4.	U14BM014	Gagandeep Kour	V / III	BME
5.	U14BM022	Mahfooz Aamil D.S	V / III	BME
6.	U14BM023	Malgari Shanthi Swaroop	V / III	BME
7.	U14BM026	Manivannan	V / III	BME
8.	U14BM035	Preethi Kumari .B	V / III	BME
9.	U14BM036	Rajeswari.M	V / III	BME
10.	U14BM042	Sangeeta Chatterjee	V / III	BME
11.	U14BM046	Suman Mishra	V / III	BME
12.	U14BM047	Susovan Pal	V / III	BME
13.	U14BM052	Vandhana.M	V / III	BME
14.	U14BM056	Sruthi .H	V / III	BME
15.	U14BM058	Pujari Dhanya Sree	V / III	BME
16.	U14BT003	Al Afzal.S.Khan	V / III	IBT
17.	U14BT005	Mathika Anjani Nikhil Kumar	V / III	IBT
18.	U14BT006	Balasubramaniam.M	V / III	IBT
19.	U14BT011	Harinee.C	V / III	IBT

20.	U14BT013	Inaganti Aditya	V / III	IBT
21.	U14BT016	Karpuram Prasad	V / III	IBT
22.	U14BT017	Kaushik Baishya	V / III	IBT
23.	U14BT022	Rahila Parveen.S	V / III	IBT
24.	U14BT023	Renuka.M	V / III	IBT
25.	U14BT032	Jupaka Sindhuja	V / III	IBT
26.	U14BR001	Aruna.T	V / III	BI
27.	U14BR002	Bandi Meghana	V / III	BI
28.	U14BR007	Hanisha Yasmeen.K	V / III	BI
29.	U14BR008	Mamindla Harish	V / III	BI
30.	U14BR014	Nuziha Thasneem	V / III	BI
31.	U14BR015	Pooja Sri .S	V / III	BI
32.	U14BR022	Savaliya Umesh Himmatbhai	V / III	BI
33.	U14BR025	Sugitha .E	V / III	BI
34.	U14BR028	Vasundra H.P	V / III	BI
35.	U14BR030	Syed Mohamed Khaleel	V / III	BI
36	U13BM019	Reshma J S	VIII/IV	BME
37	U13BM016	Prem Ranjan Kumar	VIII/IV	BME
38	U13BM011	Mutheeswaran U	VIII/IV	BME
39	U13BM005	Debjyoti Patra	VIII/IV	BME
40	U13BM001	Aarshi R	VIII/IV	BME
41	U13BM027	Ganta Abhikiran	VIII/IV	BME

42	U13BM028	B M Moulyavika	VIII/IV	BME
43	U13BM022	Shahid Hussain Haji	VIII/IV	BME
44	U13BM017	Rafiq Ahmad	VIII/IV	BME
45	U13BM021	Salma A	VIII/IV	BME
46	U13BM015	Nusrath Sulthana K J	VIII/IV	BME

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
**SCHOOL OF BIO-ENGINEERING**  
**DEPARTMENT OF BIO MEDICAL ENGINEERING**  
**VALUE ADDED COURSE**  
**COURSE ON EARLY CHILDHOOD EDUCATION (2020-2021)**

**Students Name List**

S.NO	REG.NO	NAME	RESULT
1.	U14BM005	Aravind Bharathwaj .V.S.	S
2.	U14BM007	Athina Das	S
3.	U14BM010	Damini Sarkar	A
4.	U14BM014	Gagandeep Kour	S
5.	U14BM022	Mahfooz Aamil D.S	A
6.	U14BM023	Malgari Shanthi Swaroop	S
7.	U14BM026	Manivannan	S
8.	U14BM035	Preethi Kumari .B	A
9.	U14BM036	Rajeswari.M	B
10.	U14BM042	Sangeeta Chatterjee	A
11.	U14BM046	Suman Mishra	A
12.	U14BM047	Susovan Pal	A
13.	U14BM052	Vandhana.M	S
14.	U14BM056	Sruthi .H	S
15.	U14BM058	Pujari Dhanya Sree	A
16.	U14BT003	Al Afzal.S.Khan	S
17.	U14BT005	Mathika Anjani Nikhil Kumar	A
18.	U14BT006	Balasubramaniam.M	S
19.	U14BT011	Harinee.C	B



20.	U14BT013	Inaganti Aditya	S
21.	U14BT016	Karpuram Prasad	A
22.	U14BT017	Kaushik Baishya	A
23.	U14BT022	Rahila Parveen.S	A
24.	U14BT023	Renuka.M	S
25.	U14BT032	Jupaka Sindhuja	S
26.	U14BR001	Aruna.T	A
27.	U14BR002	Bandi Meghana	A
28.	U14BR007	Hanisha Yasmeen.K	S
29.	U14BR008	Mamindla Harish	B
30.	U14BR014	Nuziha Thasneem	S
31.	U14BR015	Pooja Sri .S	A
32.	U14BR022	Savaliya Umesh Himmatbhai	A
33.	U14BR025	Sugitha .E	B
34.	U14BR028	Vasundra H.P	S
35.	U14BR030	Syed Mohamed Khaleel	S
36	U13BM019	Reshma J S	A
37	U13BM016	Prem Ranjan Kumar	A
38	U13BM011	Mutheeswaran U	B
39	U13BM005	Debjyoti Patra	A
40	U13BM001	Aarthi R	S
41	U13BM027	Ganta Abhikiran	A

42	U13BM028	B M Moufyavika	A
43	U13BM022	Shahid Hussain Haji	A
44	U13BM017	Rafiq Ahmad	S
45	U13BM021	Salma A	S
46	U13BM015	Nusrath Sulthana K J	S

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
**SCHOOL OF BIO-ENGINEERING**  
**DEPARTMENT OF BIO MEDICAL ENGINEERING**  
**VALUE ADDED COURSE**  
**COURSE ON EARLY CHILDHOOD EDUCATION (2020-2021)**

**Students Name List**

S.NO	REG.NO	NAME	RATING
1.	U14BM005	Aravind Bharathwaj .V.S.	4.5
2.	U14BM007	Athina Das	4.7
3.	U14BM010	Damini Sarkar	4.9
4.	U14BM014	Gagandeep Kour	4.5
5.	U14BM022	Mahfooz Aamil D.S	4.5
6.	U14BM023	Malgari Shanthi Swaroop	4.9
7.	U14BM026	Manivannan	4.8
8.	U14BM035	Preethi Kumari .B	4.7
9.	U14BM036	Rajeswari.M	4.8
10.	U14BM042	Sangeeta Chatterjee	4.5
11.	U14BM046	Suman Mishra	4.8
12.	U14BM047	Susovan Pal	4.5
13.	U14BM052	Vandhana.M	4.7
14.	U14BM056	Sruthi .H	4.8
15.	U14BM058	Pujari Dhanya Sree	4.8
16.	U14BT003	Al Afzal.S.Khan	4.3
17.	U14BT005	Mathika Anjani Nikhil Kumar	4.7
18.	U14BT006	Balasubramaniam.M	4.7
19.	U14BT011	Harinee.C	4.9

20.	U14BT013	Inaganti Aditya	4.4
21.	U14BT016	Karpuram Prasad	4.5
22.	U14BT017	Kaushik Baishya	4.5
23.	U14BT022	Rahila Parveen.S	4.9
24.	U14BT023	Renuka.M	4.7
25.	U14BT032	Jupaka Sindhuja	4.7
26.	U14BR001	Aruna.T	4.9
27.	U14BR002	Bandi Meghana	4.9
28.	U14BR007	Hanisha Yasmeen.K	4.8
29.	U14BR008	Mamindla Harish	4.5
30.	U14BR014	Nuziha Thasneem	4.8
31.	U14BR015	Pooja Sri .S	4.8
32.	U14BR022	Savaliya Umesh Himmatbhai	5
33.	U14BR025	Sugitha .E	5
34.	U14BR028	Vasundra H.P	4.5
35.	U14BR030	Syed Mohamed Khaleel	5
36	U13BM019	Reshma J S	4.9
37	U13BM016	Prem Ranjan Kumar	4.5
38	U13BM011	Mutheeswaran U	4.5
39	U13BM005	Debjyoti Patra	5
40	U13BM001	Aarthi R	4.9
41	U13BM027	Ganta Abhikiran	4.8

42	U13BM028	B M Moulyavika	5
43	U13BM022	Shahid Hussain Haji	4.9
44	U13BM017	Rafiq Ahmad	5
45	U13BM021	Salma A	4.5
46	U13BM015	Nusrath Sulthana K J	4.8



**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 COURSE ON EARLY CHILDHOOD EDUCATION**

**Certificate**

This is to certify that Ms. Nalinidevi N. S. has attended three weeks value added COURSE ON EARLY CHILDHOOD EDUCATION conducted by Department of Biomedical Engineering at Bharath Institute of Higher Education and Research, Chennai (TN), India during 27<sup>th</sup> January - 13<sup>th</sup> February, 2021.

  
Dean

  
HOD

From

Chennai

The Head

3-06-2021

Department of Industrial Biotechnology

BIHER

To

The Dean

BIHER

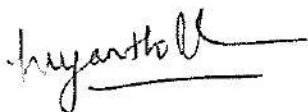
Respected Sir

Sub: approval to start a value added course on "Cytogenetics and Molecular Biology Techniques" (Online)-reg

It has been planned by the Department of Industrial Biotechnology to start a Value Added Course on "Cytogenetics and Molecular Biology Techniques" for the benefit of the B. Tech (Industrial Biotechnology), B. Tech (Biomedical Engineering) and B-Tech (Genetic Engineering) students from 21-06-2021. The duration of the course is 30 hrs. I request you to kindly approve of the same.

Thanking you

Yours sincerely





**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

**DEPARTMENT OF INDUSTRIAL BIOTECHNOLOGY**

Date: 16-06-2021

## **CIRCULAR**

### **Notification for Value added courses offered by the Department of Industrial Biotechnology**

The Department of Industrial Biotechnology is scheduled to offer a Value added course on "Cytogenetics and Molecular Biology Techniques" from 21/06/2021 for a period of 3 weeks. Interested students can approach Ms. R. Kamalambigeswari, Department of Industrial Biotechnology, for registration and for further details on or before 19<sup>th</sup> June 2021.

**Eligibility-III B. Tech Genetic Engineering; III B-Tech Biomedical;  
III B-Tech Industrial Biotechnology**

**Course Coordinator**

**HOD**

Copy to:

Vice Chancellor

Pro Vice Chancellor

Additional Registrar

Deans

CoE

Heads of Departments



**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
**DEPARTMENT OF INDUSTRIAL BIOTECHNOLOGY**  
**VALUE ADDED COURESE ON CYTOGENETICS AND MOLECULAR**  
**BIOLOGY TECHNIQUES**

**2020-2021**

**COURSE CO-ORDINATOR DETAILS**

**Faculty Name:** Ms. R. Kamalambigeswari, Assistant Professor, Department of Industrial Biotechnology

**Email ID:** [kamali1203@gmail.com](mailto:kamali1203@gmail.com)

**Mobile number:** 9894373615.

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH  
DEPARTMENT OF INDUSTRIAL BIOTECHNOLOGY  
VALUE ADDED COURSE SYLLABUS  
2020-2021**

**CYTOGENETICS AND MOLECULAR BIOLOGY TECHNIQUES**

**MODULE I: INTRODUCTION**

History and basic principles of Cytogenetics. Mitosis and Meiosis: Crossing over with translocations/inversions, recombination. The results of reproduction. Laboratory safety and general procedures

**MODULE II: MICROSCOPY**

Microscopes, cell counts, staining and banding. Image Capture/Photography DNA: Structure and function

**MODULE III: MOLECULAR TECHNIQUES**

Fluorescence In situ Hybridisation (FISH) – Principle, methods, analysis, interpretation. Polymerase chain reaction (PCR)- Principle, methods, analysis, interpretation

**Total Contact Hours: 30**

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

Department of Industrial Biotechnology

**VALUE ADDED COURSE****Cytogenetics and Molecular Biology Techniques (2020-2021)**

Session	Topic	Date	Duration (Hr)	Resource person
Session I	Principles of Cytogenetics	21.06.2021	3	Ms. R. Kamalmbigeswari
Session II	Mitosis and Meiosis:	25.06.2021	7	Ms. Merina Paul Das
Session III	Crossing over with translocations/inversions, recombination	28.06.2021	3	Ms. S. Sharmila
Session IV	Microscopes, cell counts, staining and bandingDNA: Structure and function	02.07.2021	7	Ms. R. Kamalmbigeswari
Session V	Fluorescence In situ Hybridisation (FISH)	05.07.2021	3	Ms. S. Sharmila
Session VI	Polymerase chain reaction (PCR)	09.07.2021	7	Ms. Merina Paul Das

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH  
DEPARTMENT OF INDUSTRIAL BIOTECHNOLOGY  
VALUE ADDED COURSE**

**Cytogenetics and Molecular Biology Techniques (2020-2021)  
Students Name List**

S.No	Reg No	Name
1	U14BR002	BANDI MEGHANA
2	U14BR003	BRISHTI NANDI
3	U14BR004	EMMADISHETTY SRI SOWMYA
4	U14BR005	GADDE PRAVALLIKA
5	U14BR006	GAJULA KOUSHIK
6	U14BR007	HANISHA YASMEEN.K
7	U14BR010	MANI.D
8	U14BR011	MOHAMED ASADULLAH
9	U14BR017	RAHUL.P
10	U14BR018	RAMKI .S
11	U14BR023	SENTHIL NATHAN.M
12	U14BR024	SRIBAL.S.
13	U14BR025	SUGITHA .E
14	U14BR026	TEJASVINI.M
15	U14BR029	SHAIK SHABABA
16	U14BM007	ATHINA DAS
17	U14BM008	BIRRU VIKAS
18	U14BM009	CHIDUPUDI MANASA
19	U14BM015	JOSHUA SITHARRAJ BHASKAR
20	U14BM016	KAMAKSHI.M
21	U14BM022	MAHFOOZ AAMIL D.S
22	U14BM023	MALGARI SHANTHI SWAROOP
23	U14BM024	MANIMEGALAI.S.
24	U14BM025	MANISHA.N
25	U14BM026	MANIVANNAN
26	U14BM027	MOHAMAD ROUMAN
27	U14BM030	NAGARAJ.V
28	U14BM031	NANDI.CHARISHMA
29	U14BM032	PADMAVATHY .M
30	U14BM033	PARTHIBAN.R
31	U14BM037	RAMKUMAR .K
32	U14BM038	RANI AFROZI
33	U14BM039	RAVULA SAI NIKHILA
34	U14BT001	ADARASANI PRASHANTH
35	U14BT002	AL AMEEN A
36	U14BT003	AL AFZAL.S.KHAN
37	U14BT004	ANGHUMAN DAS
38	U14BT005	MATHIKA ANJANI NIKHIL KUMAR
39	U14BT006	BALASUBRAMANIAM.M
40	U14BT007	BARNALI SARKAR
41	U14BT008	DARPAN BARIK
42	U14BT011	HARINBE.C
43	U14BT012	HIMANGSHU DAS
44	U14BT013	INAGANTI ADITYA
45	U14BT014	KAJAL KUMARI
46	U14BT015	KALAIVANIA
47	U14BT016	KARPURAM PRASAD
48	U14BT017	KAUSHIK BAISHYA

49	U14BT018	LAKSHMANAN.V
50	U14BT019	NESHI NELITA MARANDI
51	U14BT020	POLEPALLI REDDY SUGUNA
52	U14BT023	RENUKA.M
53	U14BT024	SAMPAD SHIL
54	U14BT028	TANMOY SAHA
55	U14BT030	JAJAM VENKATA VIJAYALAKSHMI
56	U14BT034	M.DINESH
57	U14BT035	B.SHRIVATSAN

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
**DEPARTMENT OF INDUSTRIAL BIOTECHNOLOGY**  
**VALUE ADDED COURSE**  
**Cytogenetics and Molecular Biology Techniques (2020-2021)**

**Students Feedback**

S.No	Reg No	Name	Rating
1	U14BR002	BANDI MEGHANA	3.5
2	U14BR003	BRISHTI NANDI	4.5
3	U14BR004	EMMADISHETTY SRI SOWMYA	4.5
4	U14BR005	GADDE PRAVALLIKA	3
5	U14BR006	GAJULA KOUSHIK	4.4
6	U14BR007	HANISHA YASMEEN.K	3.5
7	U14BR010	MANI.D	4.5
8	U14BR011	MOHAMED ASADULLAH	5
9	U14BR017	RAHUL.P	4.5
10	U14BR018	RAMKI .S	5
11	U14BR023	SENTHIL NATHAN.M	4.6
12	U14BR024	SRIBAL.S.	5
13	U14BR025	SUGITHA .E	4.4
14	U14BR026	TEJASVINI.M	3.7
15	U14BR029	SHAIK SHABABA	4.5
16	U14BM007	ATHINA DAS	4.5
17	U14BM008	BIRRU VIKAS	5
18	U14BM009	CHIDUPUDI MANASA	5
19	U14BM015	JOSHUA SITHARRAJ BHASKAR	5
20	U14BM016	KAMAKSHI.M	5
21	U14BM022	MAHFOOZ AAMIL D.S	4.5
22	U14BM023	MALGARI SHANTHI SWAROOP	5
23	U14BM024	MANIMEGALAI.S.	4.5
24	U14BM025	MANISHA.N	5
25	U14BM026	MANIVANNAN	4.5
26	U14BM027	MOHAMAD ROUMAN	4
27	U14BM030	NAGARAJ.V	5
28	U14BM031	NANDI.CHARISHMA	4.5
29	U14BM032	PADMAVATHY .M	5
30	U14BM033	PARTHIBAN.R	4
31	U14BM037	RAMKUMAR .K	4.5
32	U14BM038	RANI AFROZI	5
33	U14BM039	RAVULA SAI NIKHILA	5
34	U14BT001	ADARASANI PRASHANTH	5
35	U14BT002	AL AMEEN A	4.5
36	U14BT003	AL AFZAL.S.KHAN	5
37	U14BT004	ANGHUMAN DAS	4.5
38	U14BT005	MATHIKA ANJANI NIKHIL KUMAR	4.5

39	U14BT006	BALASUBRAMANIAM.M	5
40	U14BT007	BARNALI SARKAR	5
41	U14BT008	DARPAN BARIK	5
42	U14BT011	HARINEE.C	4.5
43	U14BT012	HIMANGSHU DAS	5
44	U14BT013	INAGANTI ADITYA	5
45	U14BT014	KAJAL KUMARI	4.5
46	U14BT015	KALAIVANLA	4
47	U14BT016	KARPURAM PRASAD	5
48	U14BT017	KAUSHIK BAISHYA	5
49	U14BT018	LAKSHMANAN.V	4.5
50	U14BT019	NESHI NELITA MARANDI	4
51	U14BT020	POLEPALLI REDDY SUGUNA	4.5
52	U14BT023	RENUKA.M	4.5
53	U14BT024	SAMPAD SHIL	5
54	U14BT028	TANMOY SAHA	4
55	U14BT030	JAJAM VENKATA VIJAYALAKSHMI	5
56	U14BT034	M.DINESH	4
57	U14BT035	B.SHRIVATSAN	4.5



# Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH

(Declared as Deemed-to-be-University under section 3 of UGC Act 1956)



Department of Industrial Biotechnology

VALUE ADDED COURSE ON CYTOGENETICS AND MOLECULAR BIOLOGY TECHNIQUES

*Certificate of Participation*

This is to certify that Mr /Ms BANDI MEGHANA U14BR002 has attended three weeks value added course on “Cytogenetics and Molecular Biology Techniques” conducted by Department of Industrial Biotechnology at Bharath Institute of Higher Education and Research, Chennai (TN), India from 21-06-2021 to 09-07-21.

  
Coordinator

  
HOD



From

Chennai -73

The HOD

1-8-2020

Department of Biomedical Engineering

BIHER

To

The Dean

BIHER

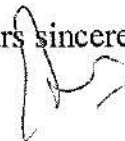
Respected Sir

Sub: approval to start a value added course on "Introduction To Health CARE Research" (Online) -reg

It has been planned by the Faculty of Biomedical Engineering to start a Value Added Course on "Introduction to Health and Research" for the benefit of the B.Tech Biomedical Engineering students from 17<sup>th</sup> August 2020. The duration of the course is 30 hrs . I request you to kindly approve of the same.

Thanking you

Yours sincerely





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

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

**Date: 4-08-2020**

**SCHOOL OF BIOENGINEERING**

**CIRCULAR**

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

The Department of Bio Medical Engineering, School of Bioengineering, is scheduled to offer a Value added Course on **INTRODUCTION TO HEALTH CARE RESEARCH** from 17-08-2020 for a period of 3 weeks. Interested students can approach Mr. VENKATRAMAN, Associate Professor and Course Coordinator, Department of Bio Medical Engineering for registration and for further details on or before 16<sup>th</sup> August 2020.

**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 BIO MEDICAL ENGINEERING**  
**VALUE ADDED COURSE ON INTRODUCTION TO HEALTH CARE RESEARCH**  
**2020-2021**  
**COURSE CO-ORDINATOR DETAILS**

**Faculty Name** : Mr. VENKATRAMAN  
**Designation** : Assistant Professor  
**Department** : Biomedical Engineering  
**Email ID** : venkat.biomed@gmail.com  
**Mobile number** : 9176132035

## **INTRODUCTION TO HEALTH CARE RESEARCH**

### **UNIT I HEALTH & MEDICAL INFORMATICS**

Introduction - Structure of Medical Informatics --Internet and Medicine -Security issues ,Computer based medical information retrieval, Hospital management and information system, Functional capabilities of a computerized HIS, e-health services, Health Informatics.

### **UNIT II COMPUTERISED PATIENT RECORD**

Introduction - History taking by computer, Dialogue with the computer, Components and functionality of CPR, Development tools, Intranet.

### **UNIT III COMPUTERS IN CLINICAL LABORATORY AND MEDICAL IMAGING**

Automated clinical laboratories-Automated methods in hematology, cytology and histology, Intelligent Laboratory Information System - Computerized ECG, EEG and EMG,Computer assisted medical imaging.

### **UNIT IV COMPUTER ASSISTED MEDICAL DECISION-MAKING**

Neuro computers and Artificial Neural Networks application, Expert system -- General model of CMD, Computer --assisted decision support system-production rule system cognitive model, semester networks .

### **UNIT V RECENT TRENDS IN MEDICAL INFORMATICS RESEARCH**

Virtual reality applications in medicine, Computer assisted surgery , Surgical simulation ,Telemedicine - Tele surgery computer aids for the handicapped, computer assisted instrumentation in Medical Informatics - Computer assisted patient education and health - Medical education and health care information.

### **TEXT BOOKS:**

1.R.D.Lele Computers in medicine progress in medical informatics, Tata Mcgraw Hill Publishing computers Ltd,2005, New Delhi

2.Mohan Bansal, Medical informatics Tata Mcgraw Hill Publishing computers Ltd, 2003 New Delhi

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

**SCHOOL OF BIO-ENGINEERING**

**DEPARTMENT OF BIO MEDICAL 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	IHR				<b>LUNCH BREAK</b>	IHR		
TUE	IHR					IHR		
WED								
THU								
FRI								
SAT								

SUBJECT CODE	SUBJECT NAME	STAFF
Theory		
Value added course	Introduction To Health . . . Research	Mr .Venkatraman.

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH  
SCHOOL OF BIO-ENGINEERING**

**DEPARTMENT OF BIO MEDICAL ENGINEERING**

**VALUE ADDED COURSE**

**COURSE ON INTRODUCTION TO HEALTH CARE RESEARCH (2020-2021)**

Session	Topic	Date	Duration (Hr)	Resource person
Session I	HEALTH & MEDICAL INFORMATICS	17.08.2020	3	Dr.F.Emerson Solomon
Session II	HEALTH & MEDICAL INFORMATICS	17.08.2020	3	Dr.R.Vasuki
Session III	COMPUTERISED PATIENT RECORD	18.08.2020	4	Ms.S.Geetha
Session IV	COMPUTERISED PATIENT RECORD	18.08.2020	3	Mr.Sundarraaj
Session V	COMPUTERS IN CLINICAL LABORATORY AND MEDICAL IMAGING	24.08.2020	3	Dr.F.Emerson Solomon
Session VI	COMPUTERS IN CLINICAL LABORATORY AND MEDICAL IMAGING	24.08.2020	4	Mr.Sundarraaj
Session VII	COMPUTER ASSISTED MEDICAL DECISION-MAKING	25.08.2020	3	Ms.S.Geetha
Session VIII	COMPUTER ASSISTED MEDICAL DECISION-MAKING	25.08.2020	3	Mr.Venkatraman
Session IX	RECENT TRENDS IN MEDICAL INFORMATICS RESEARCH	1.09.2020	4	Ms.S.Geetha

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH  
SCHOOL OF BIO-ENGINEERING  
DEPARTMENT OF BIO MEDICAL ENGINEERING  
VALUE ADDED COURSE  
COURSE ON INTRODUCTION TO HEALTH CARE RESEARCH (2020-2021)

ChapName	Name	Sno
Topic	Sub Topic	Duration
UNIT I HEALTH & MEDICAL INFORMATICS	Introduction - Structure of Medical Informatics	1 hour
UNIT I HEALTH & MEDICAL INFORMATICS	Internet and Medicine	1 hour
UNIT I HEALTH & MEDICAL INFORMATICS	Security issues ,Computer based medical information retrieval	1 hour
UNIT I HEALTH & MEDICAL INFORMATICS	Hospital management and information system	1 hour
UNIT I HEALTH & MEDICAL INFORMATICS	Functional capabilities of a computerized HIS	1 hour
UNIT I HEALTH & MEDICAL INFORMATICS	e-health services, Health Informatics	1 hour
UNIT II COMPUTERISED PATIENT RECORD	Introduction - History taking by computer	1 hour
UNIT II COMPUTERISED PATIENT RECORD	Dialogue with the computer	1 hour
UNIT II COMPUTERISED PATIENT RECORD	Components and functionality of CPR	1 hour
UNIT II COMPUTERISED PATIENT RECORD	Components and functionality of CPR	1 hour
UNIT II COMPUTERISED PATIENT RECORD	Development tools, Intranet	1 hour
UNIT II COMPUTERISED PATIENT RECORD	Development tools, Intranet	1 hour
UNIT III COMPUTERS IN CLINICAL LABORATORY AND MEDICAL IMAGING	Automated clinical laboratories	1 hour
UNIT III COMPUTERS IN CLINICAL LABORATORY AND MEDICAL IMAGING	Automated methods in haematology	1 hour
UNIT III COMPUTERS IN CLINICAL LABORATORY AND MEDICAL IMAGING	cytology and histology	1 hour

UNIT III COMPUTERS IN CLINICAL LABORATORY AND MEDICAL IMAGING	Intelligent Laboratory Information System	1 hour
UNIT III COMPUTERS IN CLINICAL LABORATORY AND MEDICAL IMAGING	Computerized ECG, EEG and EMG	1 hour
UNIT III COMPUTERS IN CLINICAL LABORATORY AND MEDICAL IMAGING	Computer assisted medical imaging	1 hour
UNIT IV MACHINE LEARNING IN BIOINFORMATICS	Neuro computers and Artificial Neural Networks application	1 hour
UNIT IV COMPUTER ASSISTED MEDICAL DECISION-MAKING	Expert system – General model of CMD	1 hour
UNIT IV COMPUTER ASSISTED MEDICAL DECISION-MAKING	Computer –assisted decision support system	1 hour
UNIT IV COMPUTER ASSISTED MEDICAL DECISION-MAKING	Computer –assisted decision support system	1 hour
UNIT IV COMPUTER ASSISTED MEDICAL DECISION-MAKING	production rule system cognitive model	1 hour
UNIT IV COMPUTER ASSISTED MEDICAL DECISION-MAKING	semester networks	1 hour
UNIT V RECENT TRENDS IN MEDICAL INFORMATICS RESEARCH	Virtual reality applications in medicine	1 hour
UNIT V RECENT TRENDS IN MEDICAL INFORMATICS RESEARCH	Computer assisted surgery	1 hour
UNIT V RECENT TRENDS IN MEDICAL INFORMATICS RESEARCH	Surgical simulation	1 hour
UNIT V RECENT TRENDS IN MEDICAL INFORMATICS RESEARCH	Telemedicine - Tele surgery computer aids for the handicapped	1 hour
UNIT V RECENT TRENDS IN MEDICAL INFORMATICS RESEARCH	computer assisted instrumentation in Medical Informatics	1 hour
UNIT V RECENT TRENDS IN MEDICAL INFORMATICS RESEARCH	Computer assisted patient education and health -Medical education and health care information	1 hour



**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
**SCHOOL OF BIO-ENGINEERING**  
**DEPARTMENT OF BIO MEDICAL ENGINEERING**  
**VALUE ADDED COURSE**  
**COURSE ON INTRODUCTION TO HEALTH CARE RESEARCH (2020-2021)**

**Students Name List**

S.NO	REG.NO	NAME	SEM/ YEAR	DEPART MENT
1.	U12BM001	ABIGAIL LALNUNNEM PAKHUONGTE	VII/VI	BME
2.	U12BM002	ADLINE MONISHA KEZIAH S	VII/VI	BME
3.	U12BM004	AQSA ASLAM	VII/VI	BME
4.	U12BM007	JIABUR RAHAMAN	VII/VI	BME
5.	U12BM008	KAYALVIZHI S	VII/VI	BME
6.	U12BM014	PRIYA SINHA	VII/VI	BME
7.	U12BM017	VINOTHINI V	VII/VI	BME
8.	U12BM018	SHAIK REHANA BEGUM	VII/VI	BME
9.	U12BM020	ROOBINI K	VII/VI	BME
10.	U12BM021	SANTHANA PRIYA S	VII/VI	BME
11.	U12BM022	EBRAHIM MANEA AHMED NAHSHAL	VII/VI	BME
12.	U12BM024	JAFFAR SADHIK J	VII/VI	BME
13.	U12BM501	SABAHAT SYED	VII/VI	BME
14.	U14BM056	JEGAN	VII/VI	BME
15.	U14BM058	PUJARI DHANYA SREE	VII/VI	BME
16.	U13BM028	B M MOULYAVIKA	V/III	BME
17.	U13BM025	SUDHA P M	V/III	BME
18.	U13BM024	SHUBHAM KUMAR	V/III	BME
19.	U13BM022	SHAHID HUSSAIN HAJI	V/III	BME
20.	U13BM020	ROUF AHMAD WANI	V/III	BME

21.	U13BM016	PREM RANJAN KUMAR	V/III	BME
22.	U13BM014	NASIR RIYAZ	V/III	BME
23.	U13BM013	NALINIDEVIN S	V/III	BME
24.	U13BM011	MUTHEESWARAN U	V/III	BME
25.	U13BM008	JONTTY TYAGI	V/III	BME
26.	U13BM007	JENNY E	V/III	BME
27.	U13BM004	CHITIPIRALLA YUVA CHAITANYA	V/III	BME
28.	U12BT020	Irfan Hussain Lone	VII/VI	IBT
29.	U12BT016	Yogasri K	VII/VI	IBT
30.	U12BT015	Yasmine Y	VII/VI	IBT
31.	U12BT014	Vennila Devi P	VII/VI	IBT
32.	U12BT013	Suruthi P	VII/VI	IBT
33.	U12BT012	Satadru Dutta Ray	VII/VI	IBT
34.	U12BT009	Rakesh Kumar	VII/VI	IBT
35.	U12BT008	Kumari Sangeeta Singh	VII/VI	IBT
36	U12BT004	Guddu Kumar	VII/VI	IBT
37	U12BT005	Harini S	VII/VI	IBT
38	U12BT006	Jitendra Kumar	VII/VI	IBT
39	U12BT007	K.Dilleswari	VII/VI	IBT
40	U12BT002	Ashutosh Kumar Ram	VII/VI	IBT
41	U12BT003	Ayub Alam	VII/VI	IBT
42	U12BT001	Ankush	VII/VI	IBT

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH  
SCHOOL OF BIO-ENGINEERING  
DEPARTMENT OF BIO MEDICAL ENGINEERING  
VALUE ADDED COURSE  
COURSE ON INTRODUCTION TO HEALTH CARE RESEARCH (2020-2021)**

**Students Name List**

S.NO	REG.NO	NAME	RESULT
1.	U12BM001	ABIGAIL LALNUNNEM PAKHUONGTE	A
2.	U12BM002	ADLINE MONISHA KEZIAH S	A
3.	U12BM004	AQSA ASLAM	A
4.	U12BM007	JIABUR RAHAMAN	S
5.	U12BM008	KAYALVIZHI S	A
6.	U12BM014	PRIYA SINHA	S
7.	U12BM017	VINOTHINI V	S
8.	U12BM018	SHAIK REHANA BEGUM	B
9.	U12BM020	ROOBINI K	A
10.	U12BM021	SANTHANA PRIYA S	A
11.	U12BM022	EBRAHIM MANEA AHMED NAHSHAL	A
12.	U12BM024	JAFFAR SADHIK J	S
13.	U12BM501	SABAHAT SYED	S
14.	U14BM056	JEGAN	A
15.	U14BM058	PUJARI DHANYA SREE	S
16.	U13BM028	B M MOULYAVIKA	S
17.	U13BM025	SUDHA P M	S
18.	U13BM024	SHUBHAM KUMAR	B
19.	U13BM022	SHAHID HUSSAIN HAJI	A
20.	U13BM020	ROUF AHMAD WANI	S

21.	U13BM016	PREM RANJAN KUMAR	A
22.	U13BM014	NASIR RIYAZ	A
23.	U13BM013	NALINIDEVI N S	A
24.	U13BM011	MUTHEESWARAN U	A
25.	U13BM008	JONTTY TYAGI	S
26.	U13BM007	JENNY E	S
27.	U13BM004	CHITIPIRALLA YUVA CHAITANYA	A
28.	U12BT020	Irfan Hussain Lone	S
29.	U12BT016	Yogasri K	A
30.	U12BT015	Yasmine Y	A
31.	U12BT014	Vennila Devi P	A
32.	U12BT013	Suruthi P	A
33.	U12BT012	Satadru Dutta Ray	B
34.	U12BT009	Rakesh Kumar	C
35.	U12BT008	Kumari Sangeeta Singh	S
36.	U12BT004	Guddu Kumar	S
37.	U12BT005	Harini S	A
38.	U12BT006	Jitendra Kumar	A
39.	U12BT007	K.Dilleswari	A
40.	U12BT002	Ashutosh Kumar Ram	A
41.	U12BT003	Ayub Alam	B
42.	U12BT001	Ankush	A

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
**SCHOOL OF BIO-ENGINEERING**  
**DEPARTMENT OF BIO MEDICAL ENGINEERING**  
**VALUE ADDED COURSE**  
**COURSE ON INTRODUCTION TO HEALTH CARE RESEARCH (2020-2021)**

**Students Name List**

S.NO	REG.NO	NAME	RATING
1.	U12BM001	ABIGAIL LALNUNNEM PAKHUONGTE	4.7
2.	U12BM002	ADLINE MONISHA KEZIAH S	5
3.	U12BM004	AQSA ASLAM	4.8
4.	U12BM007	JIABUR RAHAMAN	4.8
5.	U12BM008	KAYALVIZHI S	4.8
6.	U12BM014	PRIYA SINHA	4.6
7.	U12BM017	VINOTHINI V	4.7
8.	U12BM018	SHAIK REHANA BEGUM	4.6
9.	U12BM020	ROOBINI K	4.7
10.	U12BM021	SANTHANA PRIYA S	5
11.	U12BM022	EBRAHIM MANEA AHMED NAHSHAL	4.8
12.	U12BM024	JAFFAR SADHIK J	4.7
13.	U12BM501	SABAHAT SYED	4.6
14.	U14BM056	JEGAN	4.7
15.	U14BM058	PUJARI DHANYA SREE	5
16.	U13BM028	B M MOULYAVIKA	4.8
17.	U13BM025	SUDHA P M	4.8
18.	U13BM024	SHUBHAM KUMAR	4.6
19.	U13BM022	SHAHID HUSSAIN HAJI	4.7
20.	U13BM020	ROUF AHMAD WANI	4.8

21.	U13BM016	PREM RANJAN KUMAR	5
22.	U13BM014	NASIR RIYAZ	4.7
23.	U13BM013	NALINIDEVI N S	4.8
24.	U13BM011	MUTHEESWARAN U	4.6
25.	U13BM008	JONTTY TYAGI	4.8
26.	U13BM007	JENNY E	4.7
27.	U13BM004	CHITIPIRALLA YUVA CHAITANYA	4.6
28.	U12BT020	Irfan Hussain Lone	5
29.	U12BT016	Yogasri K	4.8
30.	U12BT015	Yasmine Y	4.8
31.	U12BT014	Vennila Devi P	4.7
32.	U12BT013	Suruthi P	4.8
33.	U12BT012	Satadru Dutta Ray	4.8
34.	U12BT009	Rakesh Kumar	5
35.	U12BT008	Kumari Sangeeta Singh	4.6
36	U12BT004	Guddu Kumar	4.7
37	U12BT005	Harini S	4.6
38	U12BT006	Jitendra Kumar	4.8
39	U12BT007	K.Dilleswari	4.8
40	U12BT002	Ashutosh Kumar Ram	4.8
41	U12BT003	Ayub Alam	4.7
42	U12BT001	Ankush	5



# **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 INTRODUCTION TO HEALTH AND RESEARCH**

**Certificate**

This is to certify that Ms. Reshma has attended three weeks value added course on INTRODUCTION TO HEALTH CARE RESEARCH conducted by Department of Biomedical Engineering at Bharath Institute of Higher Education and Research, Chennai (TN), India during 17<sup>th</sup> August – 1<sup>st</sup> September, 2020.

  
Dean

HOD



From

Chennai -73

The HOD

20-1-2021

Department of Biomedical Engineering

BIHER

To

The Dean

BIHER

Respected Sir

Sub: approval to start a value added course on “Short Term Course On Medical Sociology”(Online) -reg

It has been planned by the Faculty of Biomedical Engineering to start a Value Added Course on “Short Term Course On Medical Sociolog” for the benefit of the B.Tech Biomedical Engineering students from 8<sup>th</sup> February 2021. The duration of the course is 30 hrs. I request you to kindly approve of the same.

Thanking you

  
Yours sincerely





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

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

Date: 25-01-2021

**SCHOOL OF BIOENGINEERING**

**CIRCULAR**

**Notification for Value added courses (online)**

**offered by**

**School of Bioengineering**

The Department of Bio Medical Engineering, School of Bioengineering, is scheduled to offer a Value added Course on **SHORT TERM COURSE ON MEDICAL SOCIOLOGY** from 08-02-2021 for a period of 3 weeks. Interested students can approach Ms. KRITHIKA, Assistant Professor and Course Coordinator, Department of Bio Medical Engineering for registration and for further details on or before 7<sup>th</sup> February 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 BIO MEDICAL ENGINEERING**

**VALUE ADDED COURSE ON**

**SHORT TERM COURSE ON MEDICAL SOCIOLOGY**

**2020-2021**

**COURSE CO-ORDINATOR DETAILS**

**Faculty Name** : Ms. KRITHIKA  
**Designation** : Assistant Professor  
**Department** : Biomedical Engineering  
**Email ID** : krithika.mohanraj@gmail.com  
**Mobile number** : 9467299821

## **SHORT TERM COURSE ON MEDICAL SOCIOLOGY**

### **UNIT I Nature and scope of Sociology**

Definition, Historical background, subject matter of sociology, Nature and scope, Importance, Sociology of India, of sociology with other social institution . **UNIT II FUNDAMENTAL CONCEPTS OF SOCIOLOGY**

Society and Individual, social Community, Social structure and functions of Institutions, Importance Association, Organization, Social system, social order, Social control, social groups, Social Process, Social change.

### **UNIT III SOCIOLOGY OF INDIA**

Characteristics of Indian society, pattern of caste in Racial linguistic, Religious and modern village.demographic, Hindu social organization-ashramas, varnas,dharma and karma, purushartha,Caste system, Problems of SC&ST, Sanskritisation,Westernization and Modernization.

### **UNIT IV PLANNING SUPPORTIVE MEDICAL SOCIOLOGY SERVICES**

Medical Records Department – Central Sterilization and Supply Department – Pharmacy –Food Services - Laundry Services.

### **UNIT V MEDICAL SOCIOLOGY COMMUNICATION AND SAFETY ASPECTS IN HOSPITAL**

Purposes – Planning of Communication, Modes of Communication – Telephone, ISDN,Public Address and Piped Music – CCTV.Security – Loss Prevention – Fire Safety – Alarm System – Safety Rules

#### **TEXT BOOKS:**

1. R.C.Goyal, "Hospital Administration and Human Resource Management", PHI –Fourth Edition, 2006.
2. G.D.Kunders, "Hospitals – Facilities Planning and Management – TMH, New Delhi –Fifth Reprint 2007.

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

**SCHOOL OF BIO-ENGINEERING**

**DEPARTMENT OF BIO MEDICAL ENGINEERING**

**VALUE ADDED COURSE TIMETABLE**

2020-2021

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

SUBJECT CODE	SUBJECT NAME	STAFF
Theory		
Value added course	Short Term Course On Medical Sociology	Ms. KRITHIKA

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH  
**SCHOOL OF BIO-ENGINEERING**  
**DEPARTMENT OF BIO MEDICAL ENGINEERING**  
**VALUE ADDED COURSE**

**COURSE ON SHORT TERM COURSE ON MEDICAL SOCIOLOGY (2020-2021)**

Session	Topic	Date	Duration (Hr)	Resource person
Session I	NATURE AND SCOPE OF SOCIOLOGY	8.02.2021	3	Dr.F.Emerson Solomon
Session II	NATURE AND SCOPE OF SOCIOLOGY	8.02.2021	3	Dr.R.Vasuki
Session III	FUNDAMENTAL CONCEPTS OF SOCIOLOGY	9.02.2021	4	Ms.S.Geetha
Session IV	FUNDAMENTAL CONCEPTS OF SOCIOLOGY	9.02.2021	3	Mr.Sundarraaj
Session V	SOCIOLOGY OF INDIA	15.02.2021	3	Dr.F.Emerson Solomon
Session VI	SOCIOLOGY OF INDIA	15.02.2021	4	Mr.Sundarraaj
Session VII	PLANNING SUPPORTIVE MEDICAL SOCIOLOGY SERVICES	16.02.2021	3	Ms. Krithika
Session VIII	PLANNING SUPPORTIVE MEDICAL SOCIOLOGY SERVICES	22.02.2021	3	Mr.Venkatraman
Session IX	MEDICAL SOCIOLOGY COMMUNICATION AND SAFETY ASPECTS IN HOSPITAL	23.02.2021	4	Ms.S.Geetha

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH  
SCHOOL OF BIO-ENGINEERING  
DEPARTMENT OF BIO MEDICAL ENGINEERING  
VALUE ADDED COURSE  
COURSE ON SHORT TERM COURSE ON MEDICAL SOCIOLOGY (2020-2021)

ChapName	Name	Sno
Topic	Sub Topic	Duration
UNIT I NATURE AND SCOPE OF SOCIOLOGY	Definition Historical background	1 hour
UNIT I NATURE AND SCOPE OF SOCIOLOGY	subject matter of sociology	1 hour
UNIT I NATURE AND SCOPE OF SOCIOLOGY	Nature and scope	1 hour
UNIT I NATURE AND SCOPE OF SOCIOLOGY	Importance, Sociology of India	1 hour
UNIT I NATURE AND SCOPE OF SOCIOLOGY	Importance, Sociology of India	1 hour
UNIT I NATURE AND SCOPE OF SOCIOLOGY	sociology with other social institution	1 hour
UNIT II FUNDAMENTAL CONCEPTS OF SOCIOLOGY	Society and Individual	1 hour
UNIT II FUNDAMENTAL CONCEPTS OF SOCIOLOGY	social Community	1 hour
UNIT II FUNDAMENTAL CONCEPTS OF SOCIOLOGY	Social structure and functions of Institutions, Importance Association	1 hour
UNIT II FUNDAMENTAL CONCEPTS OF SOCIOLOGY	Organization, Social system, social order, Social control	1 hour
UNIT II FUNDAMENTAL CONCEPTS OF SOCIOLOGY	Organization, Social system, social order, Social control	1 hour

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
**SCHOOL OF BIO-ENGINEERING**  
**DEPARTMENT OF BIO MEDICAL ENGINEERING**  
**VALUE ADDED COURSE**  
**COURSE ON SHORT TERM COURSE ON MEDICAL SOCIOLOGY (2020-2021)**

**Students Name List**

<b>S.NO</b>	<b>REG.NO</b>	<b>NAME</b>	<b>SEM/ YEAR</b>	<b>DEPAR TMENT</b>
1.	U12BT001	Ankush	VIII/IV	IBT
2.	U12BT002	Ashutosh Kumar Ram	VIII/IV	IBT
3.	U12BT003	Ayub Alam	VIII/IV	IBT
4.	U12BT004	Guddu Kumar	VIII/IV	IBT
5.	U12BT005	Harini S	VIII/IV	IBT
6.	U12BT006	Jitendra Kumar	VIII/IV	IBT
7.	U12BT007	K.Dilleswari	VIII/IV	IBT
8.	U12BT008	Kumari Sangeeta Singh	VIII/IV	IBT
9.	U12BT009	Rakesh Kumar	VIII/IV	IBT
10.	U12BT012	Satadru Dutta Ray	VIII/IV	IBT
11.	U12BT013	Suruthi P	VIII/III	IBT
12.	U12BT014	Vennila Devi P	VIII/IV	IBT
13.	U12BT015	Yasmine Y	VIII/IV	IBT
14.	U12BT016	Yogasri K	VIII/IV	IBT
15.	U12BT020	Irfan Hussain Lone	VIII/IV	IBT
16.	U14BM002	AKKAL DEV DIVYA	IV/II	BME
17.	U14BM003	ALAKANTI KARTHIK	IV/II	BME
18.	U14BM005	ARAVIND BHARATHWAJ .V.S.	IV/II	BME
19.	U14BM007	ATHINA DAS	IV/II	BME

20.	U14BM008	BIRRU VIKAS	IV/II	BME
21.	U14BM001	AKASH MISRA	IV/II	BME
22.	U14BM004	AMIRTHAVALLIJ	IV/II	BME
23.	U14BM009	CHIDUPUDI MANASA	IV/II	BME
24.	U14BM010	DAMINI SARKAR	IV/II	BME
25.	U14BM011	DASARI.SHRUTHI SABURI	IV/II	BME
26.	U14BM012	DEEPAK RAJ.S.	IV/II	BME
27.	U14BM014	GAGANDEEP KOUR	IV/II	BME
28.	U14BM015	JOSHUA SITHARRAJ BHASKAR	IV/II	BME
29.	U14BM016	KAMAKSHI.M	IV/II	BME
30.	U14BM017	KARTHIKA .S	IV/II	BME
31.	U14BM023	MALGARI SHANTHI SWAROOP	IV/II	BME
32.	U14BM026	MANIVANNAN	IV/II	BME
33.	U14BM039	RAVULA SAI NIKHILA	IV/II	BME
34.	U14BM040	RIYA RANI	IV/II	BME
35.	U14BM041	ROSHINI .B	IV/II	BME
36	U14BM046	SUSOVAN PAL	IV/II	BME
37	U14BM048	THANISHKI REDDY .A	IV/II	BME
38	U14BM050	UDAY KUMAR REDDY.S.	IV/II	BME
39	U14BM051	UDAYAKUMAR.D	IV/II	BME
40	U14BM052	VANDHANA.M	IV/II	BME
41	U14BM054	YOUSUF MUFEED .M	IV/II	BME
42	U14BM055	ZAKIR AHMAD LONE	IV/II	BME



43	U14BM056	SRUTHI .H	IV/II	BME
44	U14BM058	PUJARI DHANYA SREE	IV/II	BME
45	U14BM059	NINU.P.S.	IV/II	BME
46	U14BM060	SIVA	IV/II	BME
47	U14BM701	KATHIRESAN	IV/II	BME
48	U14BM702	RAJSMITHA DAS	IV/II	BME
49	U14BM501	BHARATHWAJ	IV/II	BME
50	U14BM042	SANGEETA CHATTERJEE	IV/II	BME
51	U14BM043	SATAYANARAYANA GOUD.U	IV/II	BME

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RES**  
**SCHOOL OF BIO-ENGINEERING**  
**DEPARTMENT OF BIO MEDICAL ENGINEERING**  
**VALUE ADDED COURSE**  
**COURSE ON SHORT TERM COURSE ON MEDICAL SOCIOLOGY (2020-2021)**

**Students Name List**

<b>S.NO</b>	<b>REG.NO</b>	<b>NAME</b>	<b>RESULT</b>
1.	U12BT001	Ankush	S
2.	U12BT002	Ashutosh Kumar Ram	S
3.	U12BT003	Ayub Alam	S
4.	U12BT004	Guddu Kumar	A
5.	U12BT005	Harini S	A
6.	U12BT006	Jitendra Kumar	S
7.	U12BT007	K.Dilleswari	A
8.	U12BT008	Kumari Sangeeta Singh	S
9.	U12BT009	Rakesh Kumar	A
10.	U12BT012	Satadru Dutta Ray	S
11.	U12BT013	Suruthi P	S
12.	U12BT014	Vennila Devi P	S
13.	U12BT015	Yasmine Y	A
14.	U12BT016	Yogasri K	S
15.	U12BT020	Irfan Hussain Lone	S
16.	U14BM002	AKKAL DEV DIVYA	A
17.	U14BM003	ALAKANTI KARTHIK	A
18.	U14BM005	ARAVIND BHARATHWAJ .V.S.	S
19.	U14BM007	ATHINA DAS	B

20.	U14BM008	BIRRU VIKAS	S
21.	U14BM001	AKASH MISRA	B
22.	U14BM004	AMIRTHAVALLI.J	S
23.	U14BM009	CHIDUPUDI MANASA	A
24.	U14BM010	DAMINI SARKAR	S
25.	U14BM011	DASARI.SHRUTHI SABURI	S
26.	U14BM012	DEEPAK RAJ.S.	A
27.	U14BM014	GAGANDEEP KOUR	A
28.	U14BM015	JOSHUA SITHARRAJ BHASKAR	A
29.	U14BM016	KAMAKSHI.M	A
30.	U14BM017	KARTHIKA .S	B
31.	U14BM023	MALGARI SHANTHI SWAROOP	A
32.	U14BM026	MANIVANNAN	A
33.	U14BM039	RAVULA SAI NIKHILA	S
34.	U14BM040	RIYA RANI	A
35.	U14BM041	ROSHINI .B	A
36	U14BM046	SUSOVAN PAL	A
37	U14BM048	THANISHKI REDDY .A	A
38	U14BM050	UDAY KUMAR REDDY.S.	A
39	U14BM051	UDAYAKUMAR.D	S
40	U14BM052	VANDHANA.M	S
41	U14BM054	YOUSUF MUFEED .M	S
42	U14BM055	ZAKIR AHMAD LONE	S

43	U14BM056	SRUTHI .H	S
44	U14BM058	PUJARI DHANYA SREE	A
45	U14BM059	NINU.P.S.	A
46	U14BM060	SIVA	B
47	U14BM701	KATHIRESAN	A
48	U14BM702	RAJSMITHA DAS	A
49	U14BM501	BHARATHWAJ	A
50	U14BM042	SANGEETA CHATTERJEE	S
51	U14BM043	SATAYANARAYANA GOUD.U	S

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**  
**SCHOOL OF BIO-ENGINEERING**  
**DEPARTMENT OF BIO MEDICAL ENGINEERING**  
**VALUE ADDED COURSE**  
**COURSE ON SHORT TERM COURSE ON MEDICAL SOCIOLOGY (2020-2021)**

**Students Name List**

<b>S.NO</b>	<b>REG.NO</b>	<b>NAME</b>	<b>RATING</b>
1.	U12BT001	Ankush	4.8
2.	U12BT002	Ashutosh Kumar Ram	4.7
3.	U12BT003	Ayub Alam	4.8
4.	U12BT004	Guddu Kumar	4.8
5.	U12BT005	Harini S	4.9
6.	U12BT006	Jitendra Kumar	4.7
7.	U12BT007	K.Dilleswari	4.7
8.	U12BT008	Kumari Sangeeta Singh	4.8
9.	U12BT009	Rakesh Kumar	4.9
10.	U12BT012	Satadru Dutta Ray	4.9
11.	U12BT013	Suruthi P	4.7
12.	U12BT014	Vennila Devi P	4.8
13.	U12BT015	Yasmine Y	4.7
14.	U12BT016	Yogasri K	4.7
15.	U12BT020	Irfan Hussain Lone	4.8
16.	U14BM002	AKKAL DEV DIVYA	4.8
17.	U14BM003	ALAKANTI KARTHIK	4.9
18.	U14BM005	ARAVIND BHARATHWAJ .V.S.	5
19.	U14BM007	ATHINA DAS	4.8

20.	U14BM008	BIRRU VIKAS	5
21.	U14BM001	AKASH MISRA	4.8
22.	U14BM004	AMIRTHAVALLI.J	5
23.	U14BM009	CHIDUPUDI MANASA	4.9
24.	U14BM010	DAMINI SARKAR	4.9
25.	U14BM011	DASARI.SHRUTHI SABURI	5
26.	U14BM012	DEEPAK RAJ.S.	5
27.	U14BM014	GAGANDEEP KOUR	4.8
28.	U14BM015	JOSHUA SITHARRAJ BHASKAR	4.7
29.	U14BM016	KAMAKSHI.M	4.8
30.	U14BM017	KARTHIKA .S	4.6
31.	U14BM023	MALGARI SHANTHI SWAROOP	4.9
32.	U14BM026	MANIVANNAN	4.8
33.	U14BM039	RAVULA SAI NIKHILA	5
34.	U14BM040	RIYA RANI	4.7
35.	U14BM041	ROSHINI .B	4.8
36	U14BM046	SUSOVAN PAL	4.9
37	U14BM048	THANISHKI REDDY .A	4.9
38	U14BM050	UDAY KUMAR REDDY.S.	4.8
39	U14BM051	UDAYAKUMAR.D	5
40	U14BM052	VANDHANA.M	4.7
41	U14BM054	YOUSUF MUFEED .M	4.8
42	U14BM055	ZAKIR AHMAD LONE	5

43	U14BM056	SRUTHI .H	5
44	U14BM058	PUJARI DHANYA SREE	4.9
45	U14BM059	NINU.P.S.	4.8
46	U14BM060	SIVA	4.9
47	U14BM701	KATHIRESAN	4.8
48	U14BM702	RAJSMITHA DAS	5
49	U14BM501	BHARATHWAJ	4.8
50	U14BM042	SANGEETA CHATTERJEE	4.8
51	U14BM043	SATAYANARAYANA GOUD.U	4.8



**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 SHORT TERM COURSE ON MEDICAL SOCIOLOGY**

**Certificate**

This is to certify that Ms. Roobini. K has attended three weeks value added course on **SHORT TERM COURSE ON MEDICAL SOCIOLOGY** conducted by Department of Biomedical Engineering at Bharath Institute of Higher Education and Research, Chennai (TN), India during 8<sup>th</sup> February - , 23<sup>rd</sup> February 2021.

  
Dean

  
HOD



From

Chennai -73

The HOD

16-2-2021

Department of Biomedical Engineering

BIHER

To

The Dean


BIHER

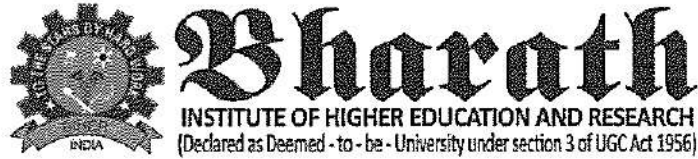
Respected Sir

Sub: approval to start a value added course on “Introduction To Interdisciplinary Approaches To HIV / AIDS” (online) -reg

It has been planned by the Faculty of Biomedical Engineering to start a Value Added Course on “Introduction To Interdisciplinary Approaches To HIV / AIDS” for the benefit of the B.Tech Biomedical Engineering students from 14<sup>th</sup> March 2021. The duration of the course is 30 hrs. I request you to kindly approve of the same.

Thanking you

  
Yours sincerely



**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

Date: 03-03-2021

**SCHOOL OF BIOENGINEERING**

**CIRCULAR**


**Notification for Value added courses (online)**

**offered by**

**School of Bioengineering**

The Department of Bio Medical Engineering, School of Bioengineering, is scheduled to offer a Value added Course on **INTRODUCTION TO INTERDICIPINARY APPROACHES TO HIV / AIDS** from 14-03-2021 for a period of 3 weeks. Interested students can approach Mr. SUNDAR RAJ, Assistant Professor and Course Coordinator, Department of Bio Medical Engineering for registration and for further details on or before 13<sup>th</sup> March 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 BIO MEDICAL ENGINEERING**  
**VALUE ADDED COURSE ON**  
**INTRODUCTION TO INTERDICIPINARY APPROACHES TO HIV / AIDS**  
**2020-2021**  
**COURSE CO-ORDINATOR DETAILS**

**Faculty Name** : Mr. SUNDAR RAJ  
**Designation** : Assistant Professor  
**Department** : Biomedical Engineering  
**Email ID** : sundarmbe@gmail.com  
**Mobile number** : 9080198510

## **INTRODUCTION TO INTERDISCIPLINARY APPROCHES TO HIV/AIDS**

### **UNIT I HUMAN POPULATION AND THE ENVIRONMENT**

Population growth, variation among nations – population explosion – family welfare programme – environment and human health – human rights

### **UNIT II HUMAN HEALTH AWARENESS PROGRAMME**

value education – HIV /AIDS – women and child welfare – role of information technology in environment and human health – Case studies.

### **UNIT III BASICS OF HIV**

HIV Basics-How Does HIV Affect the Body-Symptoms Associated With HIV-How an HIV Diagnosis is Made

### **UNIT IV PREVENTION & PRECAUTIONS OF HIV**

Preventing HIV Infection and Transmission to Others -Traditional HIV Treatment Options-Alternative Medical Treatments for HIV- Living with HIV-Preventing HIV Related Illness.

### **UNIT V Global Infectious Disease and HIV**

Comprehend HIV/AIDS by describing its etiology, epidemiology, prevention, clinical manifestations and treatments, International AIDS and Prevention Strategies- – Women, Gender Issues & HIV- Correctional Healthcare.

### **TEXT BOOKS:**

1. Huber, Jeffrey T. How to Find Information about AIDS. 2nd ed., Harrington Park Press; Haworth Press, 1992. 288p. general/geographic indices ISBN 0-918393-99-X \$14.95 (pb) ISBN 1-56024-140-3.
2. Flanders, Stephen A. and Carl N. Flanders. Library in a Book: AIDS. Facts on File, 1991. 248p. appendices index ISBN 0-8160-1910-X

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**

**SCHOOL OF BIO-ENGINEERING**

**DEPARTMENT OF BIO MEDICAL 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	IIAHIV/AIDS				<b>LUNCH BREAK</b>	IIAHIV/AIDS		
TUE	IIAHIV/AIDS					IIAHIV/AIDS		
WED								
THU								
FRI								
SAT								

SUBJECT CODE	SUBJECT NAME	STAFF
Theory		
Value added course	Introduction To Interdisciplinary Approaches To  HIV/AIDS	Mr . Sundar Raj

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH  
 SCHOOL OF BIO-ENGINEERING  
 DEPARTMENT OF BIO MEDICAL ENGINEERING  
 VALUE ADDED COURSE  
 COURSE ON INTRODUCTION TO INTERDISPLINARY APPROCHES TO HIV/AIDS(2020-2021)

Session	Topic	Date	Duration (Hr)	Resource person
Session I	HUMAN POPULATION AND THE ENVIRONMENT	14.03.2021	3	Dr.F.Emerson Solomon
Session II	HUMAN POPULATION AND THE ENVIRONMENT	14.03.2021	3	Dr.R.Vasuki
Session III	HUMAN HEALTH AWARENESS PROGRAME	15.03.2021	4	Ms.S.Geetha
Session IV	HUMAN HEALTH AWARENESS PROGRAME	15.03.2021	3	Mr.Sundarraaj
Session V	BASICS OF HIV	21.03.2021	3	Dr.F.Emerson Solomon
Session VI	BASICS OF HIV	21.03.2021	4	Mr.Sundarraaj
Session VII	PREVENTION & PRECAUTIONZS OF HIV	22.03.2021	3	Ms.S.Geetha
Session VIII	PREVENTION & PRECAUTIONZS OF HIV	28.03.2021	3	Mr.Venkatraman
Session IX	GLOBAL INFECTIOUS DISEASE AND HIV	29.03.2021	4	Ms.S.Geetha

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH  
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VALUE ADDED COURSE  
COURSE ON INTRODUCTION TO INTERDICPLINARY APPROACH TO HIV / AIDS (2020-2021)

ChapName	Name	Sno
Topic	Sub Topic	Duration
UNIT I HUMAN POPULATION AND THE ENVIRONMENT	Population growth	1 hour
UNIT I HUMAN POPULATION AND THE ENVIRONMENT	variation among nations	1 hour
UNIT I HUMAN POPULATION AND THE ENVIRONMENT	population explosion	1 hour
UNIT I HUMAN POPULATION AND THE ENVIRONMENT	family welfare programme	1 hour
UNIT I HUMAN POPULATION AND THE ENVIRONMENT	environment and human health – human rights	1 hour
UNIT I HUMAN POPULATION AND THE ENVIRONMENT	environment and human health – human rights	1 hour
UNIT II HUMAN HEALTH AWARENESS PROGRAME	value education – HIV /AIDS	1 hour
UNIT II HUMAN HEALTH AWARENESS PROGRAME	women and child welfare	1 hour
UNIT II HUMAN HEALTH AWARENESS PROGRAME	role of information technology in environment and human health	1 hour
UNIT II HUMAN HEALTH AWARENESS PROGRAME	role of information technology in environment and human health	1 hour
UNIT II HUMAN HEALTH AWARENESS PROGRAME	role of information technology in environment and human health	1 hour
UNIT II HUMAN HEALTH AWARENESS PROGRAME	Case studies	1 hour
UNIT III BASICS OF HIV	HIV Basics-How Does HIV Affect the Body	1 hour
UNIT III BASICS OF HIV	HIV Basics-How Does HIV Affect the Body	1 hour
UNIT III BASICS OF HIV	Symptoms Associated With HIV	1 hour
UNIT III BASICS OF HIV	Symptoms Associated With HIV	1 hour
UNIT III BASICS OF HIV	How an HIV Diagnosis is Made	1 hour
UNIT III BASICS OF HIV	How an HIV Diagnosis is Made	1 hour

UNIT IV PREVENTION & PRECAUTIONS OF HIV	Preventing HIV Infection and Transmission to Others	1 hour
UNIT IV PREVENTION & PRECAUTIONS OF HIV	Traditional HIV Treatment Options	1 hour
UNIT IV PREVENTION & PRECAUTIONS OF HIV	Alternative Medical Treatments for HIV	1 hour
UNIT IV PREVENTION & PRECAUTIONS OF HIV	Alternative Medical Treatments for HIV	1 hour
UNIT IV PREVENTION & PRECAUTIONS OF HIV	Living with HIV	1 hour
UNIT IV PREVENTION & PRECAUTIONS OF HIV	Preventing HIV Related Illness	1 hour
UNIT V GLOBAL INFECTIOUS DISEASE AND HIV	Comprehend HIV/AIDS by describing its etiology	1 hour
UNIT V GLOBAL INFECTIOUS DISEASE AND HIV	epidemiology, prevention, clinical manifestations and treatments	1 hour
UNIT V GLOBAL INFECTIOUS DISEASE AND HIV	International AIDS and Prevention Strategies	1 hour
UNIT V GLOBAL INFECTIOUS DISEASE AND HIV	International AIDS and Prevention Strategies	1 hour
UNIT V GLOBAL INFECTIOUS DISEASE AND HIV	Women, Gender Issues & HIV-Correctional Healthcare	1 hour
UNIT V GLOBAL INFECTIOUS DISEASE AND HIV	Women, Gender Issues & HIV-Correctional Healthcare	1 hour



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Students Name List

S.NO	REG.NO	NAME	SEM/ YEAR	DEPART MENT
1.	U18BT002	Albeena Reji	IV / II	IBT
2.	U18BT003	Anup Sonowal	IV / II	IBT
3.	U18BT004	Dimple Sona	IV / II	IBT
4.	U18BT005	Jothy Kumari	IV / II	IBT
5.	U18BT006	Koteeshwaran N	IV / II	IBT
6.	U18BT008	Mayukh Gangopadhyay	IV / II	IBT
7.	U18BT009	Nabadeep Pathak	IV / II	IBT
8.	U18BT010	Priyanga K	IV / II	IBT
9.	U18BT011	Priyanka R	IV / II	IBT
10.	U18BT012	Pushpanajai	IV / II	IBT
11.	U18BT013	Rafeequa Zaibunisha AM	IV / II	IBT
12.	U18BT014	Rajkumar P	IV / II	IBT
13.	U18BT015	Ravindhran M	IV / II	IBT
14.	U18BT016	Sanjay KR Singh	IV / II	IBT
15.	U18BT017	Sivagami K	IV / II	IBT
16.	U18BT018	Suganya S	IV / II	IBT
17.	U18BT019	Anirban Bhattacharjee	IV / II	IBT
18.	U18BT020	Alakesh Dutta	IV / II	IBT
19.	U18BT021	Swathy Priya L	IV / II	IBT

20.	U16BM001	Subabalan M	VIII / V	BME
21.	U16BM002	Sanjanaah Shree S	VIII / V	BME
22.	U16BM004	Vinothraj K	VIII / V	BME
23.	U16BM005	Paul Harrison J	VIII / V	BME
24.	U16BM006	Siva Harish S	VIII / V	BME
25.	U16BM009	Devasneha D P K	VIII / V	BME
26.	U16BM011	Pavithra V	VIII / V	BME
27.	U16BM013	P V Jhansi Kiran	VIII / V	BME
28.	U16BM014	Jayapreetha M	VIII / V	BME
29.	U16BM015	Jeya Barathi S	VIII / V	BME
30.	U16BM020	Abisha G	VIII / V	BME
31.	U16BM021	Chrysolite Precious Rani S	VIII / V	BME
32.	U16BM023	Nawaz Shariff A	VIII / V	BME
33.	U16BM073	Pabbidi Supriya	VIII / V	BME
34.	U16BM076	Indhumathi K	VIII / V	BME
35.	U16BM077	Asodu Ajay Teja	VIII / V	BME
36	U16BM080	Praveen Shankar P	VIII / V	BME
37	U16BM081	Pravallika B	VIII / V	BME
38	U16BM067	Ajitha .K	VIII / V	BME
39	U16BM068	Gajji Sai Mounik	VIII / V	BME
40	U16BM069	Dhanavath Venkatsai	VIII / V	BME
41	U16BM071	Vamsi Mangalagiri	VIII / V	BME
42	U16BM060	Divi Divya Sree	VIII / V	BME

43	U16BM062	Divya Kerketta	VIII / V	BME
44	U16BM038	Mitaigiri Afreen Banu	VIII / V	BME
45	U16BM039	Rimmalapudi Guna Shankar	VIII / V	BME
46	U16BM040	E Pravaalika	VIII / V	BME
47	U16BM034	Neha Kumari	VIII / V	BME
48	U16BM035	Vijay Kumar P	VIII / V	BME
49	U16BM036	Tulabandula Geetha Madhuri	VIII / V	BME
50	U16BM018	Ajith Kumar P	VIII / V	BME
51	U16BM019	Ajeesh S P	VIII / V	BME
52	U16BM029	Mulagada Nikshiptha	VIII / V	BME
53	U16BM033	Bollu Gowri	VIII / V	BME
54	U16BM032	Kakani Karthik	VIII / V	BME
55	U16BM026	Mohammad Abraar Ahmad	VIII / V	BME
56	U16BM025	Kudugunta Achyutha Reddy	VIII / V	BME
57	U16BM024	Karanam Adarash Rao	VIII / V	BME
58	U16BM023	Nawaz Shariff A	VIII / V	BME

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**COURSE ON INTRODUCTION TO INTERDISCIPLINARY APPROACHES TO HIV / AIDS (2020-2021)**  
**Students Name List**

S.NO	REG.NO	NAME	RESULT
1.	U18BT002	Albeena Reji	A
2.	U18BT003	Anup Sonowal	A
3.	U18BT004	Dimple Sona	S
4.	U18BT005	Jothy Kumari	S
5.	U18BT006	Koteeshwaran N	S
6.	U18BT008	Mayukh Gangopadhyay	S
7.	U18BT009	Nabadeep Pathak	A
8.	U18BT010	Priyanga K	S
9.	U18BT011	Priyanka R	A
10.	U18BT012	Pushpanajai	S
11.	U18BT013	Rafeeqa Zaibunisha AM	S
12.	U18BT014	Rajkumar P	A
13.	U18BT015	Ravindhran M	A
14.	U18BT016	Sanjay KR Singh	A
15.	U18BT017	Sivagami K	B
16.	U18BT018	Suganya S	S
17.	U18BT019	Anirban Bhattacharjee	A
18.	U18BT020	Alakesh Dutta	A
19.	U18BT021	Swathy Priya L	A

20.	U16BM001	Subabalan M	C
21.	U16BM002	Sanjanaah Shree S	A
22.	U16BM004	Vinothraj K	S
23.	U16BM005	Paul Harrison J	A
24.	U16BM006	Siva Harish S	A
25.	U16BM009	Devasneha D P K	A
26.	U16BM011	Pavithra V	S
27.	U16BM013	P V Jhansi Kiran	S
28.	U16BM014	Jayapreetha M	B
29.	U16BM015	Jeya Barathi S	A
30.	U16BM020	Abisha G	A
31.	U16BM021	ChrysolYTE Precious Rani S	S
32.	U16BM023	Nawaz Shariff A	A
33.	U16BM073	Pabbidi Supriya	S
34.	U16BM076	Indhumathi K	A
35.	U16BM077	Asodu Ajay Teja	A
36	U16BM080	Praveen Shankar P	A
37	U16BM081	Pravallika B	A
38	U16BM067	Ajitha .K	A
39	U16BM068	Gajji Sai Mounik	S
40	U16BM069	Dhanavath Venkatsai	S
41	U16BM071	Vamsi Mangalagiri	S
42	U16BM060	Divi Divya Sree	A

43	U16BM062	Divya Kerketta	S
44	U16BM038	Mitaigiri Afreen Banu	A
45	U16BM039	Rimmalapudi Guna Shankar	A
46	U16BM040	E Pravallika	B
47	U16BM034	Neha Kumari	A
48	U16BM035	Vijay Kumar P	C
49	U16BM036	Tulabandula Geetha Madhuri	A
50	U16BM018	Ajith Kumar P	A
51	U16BM019	Ajeesh S P	A
52	U16BM029	Mulagada Nikshiptha	A
53	U16BM033	Bollu Gowri	A
54	U16BM032	Kakani Karthik	S
55	U16BM026	Mohammad Abraar Ahmad	S
56	U16BM025	Kudugunta Achyutha Reddy	A
57	U16BM024	Karanam Adarash Rao	A
58	U16BM023	Nawaz Shariff A	A

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**COURSE ON INTRODUCTION TO INTERDISCIPLINARY APPROACHES TO HIV / AIDS (2015-2016)**  
**Students Name List**

S.NO	REG.NO	NAME	RATING
1.	U18BT002	Albeena Reji	4.8
2.	U18BT003	Anup Sonowal	4.9
3.	U18BT004	Dimple Sona	4.8
4.	U18BT005	Jothy Kumari	4.9
5.	U18BT006	Koteeshwaran N	5
6.	U18BT008	Mayukh Gangopadhyay	4.5
7.	U18BT009	Nabadeep Pathak	4.5
8.	U18BT010	Priyanga K	4.8
9.	U18BT011	Priyanka R	4.8
10.	U18BT012	Pushpanajai	4.9
11.	U18BT013	Rafeequa Zaibunisha AM	4.9
12.	U18BT014	Rajkumar P	4.8
13.	U18BT015	Ravindhran M	4.9
14.	U18BT016	Sanjay KR Singh	4.5
15.	U18BT017	Sivagami K	4.5
16.	U18BT018	Suganya S	4.8
17.	U18BT019	Anirban Bhattacharjee	4.8
18.	U18BT020	Alakesh Dutta	4.9
19.	U18BT021	Swathy Priya L	5

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**Students Name List**

S.NO	REG.NO	NAME	RATING
1.	U18BT002	Albeena Reji	4.8
2.	U18BT003	Anup Sonowal	4.9
3.	U18BT004	Dimple Sona	4.8
4.	U18BT005	Jothy Kumari	4.9
5.	U18BT006	Koteeshwaran N	5
6.	U18BT008	Mayukh Gangopadhyay	4.5
7.	U18BT009	Nabadeep Pathak	4.5
8.	U18BT010	Priyanga K	4.8
9.	U18BT011	Priyanka R	4.8
10.	U18BT012	Pushpanajai	4.9
11.	U18BT013	Rafeequa Zaibunisha AM	4.9
12.	U18BT014	Rajkumar P	4.8
13.	U18BT015	Ravindhran M	4.9
14.	U18BT016	Sanjay KR Singh	4.5
15.	U18BT017	Sivagami K	4.5
16.	U18BT018	Suganya S	4.8
17.	U18BT019	Anirban Bhattacharjee	4.8
18.	U18BT020	Alakesh Dutta	4.9
19.	U18BT021	Swathy Priya L	5



20.	U16BM001	Subabalan M	4.8
21.	U16BM002	Sanjanaah Shree S	4.5
22.	U16BM004	Vinothraj K	4.8
23.	U16BM005	Paul Harrison J	4.8
24.	U16BM006	Siva Harish S	4.8
25.	U16BM009	Devasneha D P K	4.9
26.	U16BM011	Pavithra V	5
27.	U16BM013	P V Jhansi Kiran	4.5
28.	U16BM014	Jayapreetha M	4.9
29.	U16BM015	Jeya Barathi S	4.8
30.	U16BM020	Abisha G	4.8
31.	U16BM021	Chrysolite Precious Rani S	4.8
32.	U16BM023	Nawaz Shariff A	4.8
33.	U16BM073	Pabbidi Supriya	4.5
34.	U16BM076	Indhumathi K	4.5
35.	U16BM077	Asodu Ajay Teja	4.5
36	U16BM080	Praveen Shankar P	4.8
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39	U16BM068	Gajji Sai Mounik	4.8
40	U16BM069	Dhanavath Venkatsai	4.8
41	U16BM071	Vamsi Mangalagiri	5
42	U16BM060	Divi Divya Sree	5

43	U16BM062	Divya Kerketta	4.8
44	U16BM038	Mitaigiri Afreen Banu	4.8
45	U16BM039	Rimmalapudi Guna Shankar	4.9
46	U16BM040	E Pravallika	4.8
47	U16BM034	Neha Kumari	4.5
48	U16BM035	Vijay Kumar P	4.8
49	U16BM036	Tulabandula Geetha Madhuri	4.8
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53	U16BM033	Bollu Gowri	4.8
54	U16BM032	Kakani Karthik	4.8
55	U16BM026	Mohammad Abraar Ahmad	4.5
56	U16BM025	Kudugunta Achyutha Reddy	4.9
57	U16BM024	Karanam Adarash Rao	5
58	U16BM023	Nawaz Shariff A	4.8



**Bharath**  
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**SCHOOL OF BIO-ENGINEERING**

**VALUE ADDED COURSE ON INTRODUCTION TO INTERDISCIPLINARY APPROACHES TO HIV/AIDS**

**Certificate**

This is to certify that Mr. Rakesh Kumar Sha has attended three weeks value added course on INTRODUCTION TO INTERDISCIPLINARY APPROACHES TO HIV/AIDS conducted by Department of Biomedical Engineering at Bharath Institute of Higher Education and Research, Chennai (TN), India during 14<sup>th</sup> March - 29<sup>rd</sup> March 2021.

  
Dean

  
HOD