

From

Chennai

The Head

15-11-2019

Dept. of Biomedical Engineering

BIHER

To

The Dean

BIHER

Respected Sir

Sub: approval to start a value added course on “**CERTIFICATE PROGRAM IN BINOCULAR VISION AND VISION THERAPY**” -reg

It has been planned by the Dept. of Biomedical Engineering to start a Value Added Course on “**CERTIFICATE PROGRAM IN BINOCULAR VISION AND VISION THERAPY**” for the B-Tech Biomedical Engineering, Industrial Biotechnology and Genetic Engineering students from 06th December, 2019. The duration of the course is 30 hrs comprising of theory. I request you to kindly approve of the same.

Thanking you

Yours sincerely

A handwritten signature in blue ink, appearing to read 'Anand', is written below the text 'Yours sincerely'.



BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

Date: 16-11-2019

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 **CERTIFICATE PROGRAM IN BINOCULAR VISION AND VISION THERAPY** from 06/12/2019 for a period of 3 weeks. Interested students can approach Dr. Vasukidevi R, Associate Professor and Course Coordinator, Department of Bio Medical Engineering for registration and for further details on or before 03rd December 2019.

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 RESIDENCY PROGRAM IN BINOCULAR VISION AND
VISION THERAPY**

2019-2020

COURSE CO-ORDINATOR DETAILS

Faculty Name: Dr.Vasukidevi R,

Associate Professor,

Department of Bio Medical Engineering.

Email ID: vasukidevir.bme@bharathuniv.ac.in

Mobile number: 95660 75312.

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH
SCHOOL OF BIO-ENGINEERING
DEPARTMENT OF BIO MEDICAL ENGINEERING
VALUE ADDED COURSE SYLLABUS
2019-2020

Value added course code	Certificate Program In Binocular Vision And Vision Therapy	L	T	P	C
	Total Contact Hours – 30	3	0	0	3
	Prerequisite – Human Anatomy and Physiology				
	OBJECTIVES				
<ul style="list-style-type: none"> • Ability to diagnose and manage and co-manage binocular vision anomalies • Ability to co-manage visual perceptual anomalies • Ability to manage diplopia, suppression and ARC 					

MODULE 1. Refractive Development:

Early Refractive Development- Visually Guided control of Refractive State: Animal Studies-
 Infant Accommodation and Convergence

MODULE 2. Oculomotor Function:

Conjugate Eye Movements of Infants-Development of the Vestibuloocular and Optokinetic
 reflexes

MODULE 3. Spatial and Chromatic Vision:

Front-end Limitations to Infant Spatial vision: Examination of two analyses-Development of the
 Human Visual Field- Development of Scotopic Retinal Sensitivity-Infant Color vision-
 Orientation and Motion selective Mechanisms in Infants-Intrinsic Noise and Infant performance

MODULE 4. Binocular Vision:

Development of interocular vision in Infants- Stereopsis in Infants and its developmental relation
 to visual acuity-Sensorimotor Adaptation and Development of the Horopter-Two stages in the
 development of Binocular Vision and Eye Alignment

MODULE 5. Retinal and cortical Development

TEXT/ REFERENCE BOOKS:

1. Clinical management of binocular vision Mitchell Scheiman and Bruce Wick
2. Applied concepts in vision therapy: Leonard Press
3. Pediatric optometry: Jerome K Rosner

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

**COURSE ON CERTIFICATE PROGRAM IN BINOCULAR VISION
AND VISION THERAPY (2019-2020)**

Session	Topic	Date	Duration (Hr)	Resource person
Session I	Refractive Development	06.12.2019	3	Dr.R.Vasukidevi
Session II	Oculomotor Function	07.12.2019	4	Dr.R.Vasukidevi
Session III	Oculomotor Function	07.12.2019	3	Ms.S.Geetha
Session IV	Spatial and Chromatic Vision	13.12.2019	3	Dr.Emerson Solomon
Session V	Spatial and Chromatic Vision	14.12.2019	4	Dr.R.Vasukidevi
Session VI	Binocular Vision	14.12.2019	3	Dr.R.Vasukidevi
Session VII	Binocular Vision	20.12.2019	3	Dr.Emerson Solomon
Session VIII	Retinal and cortical Development	21.12.2019	4	Dr.Emerson Solomon
Session IX	Retinal and cortical Development	21.12.2019	3	Ms.S.Geetha

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

SCHOOL OF BIO-ENGINEERING

DEPARTMENT OF BIO MEDICAL ENGINEERING

VALUE ADDED COURSE TIMETABLE

2019-2020

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

SUBJECT CODE	SUBJECT NAME	STAFF
Theory		
Value added course	Certificate Program In Binocular Vision And Vision Therapy (CBVT)	Dr.Vasukidevi R
	Room No	SK504

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

**COURSE ON CERTIFICATE PROGRAM IN BINOCULAR VISION AND
VISION THERAPY (2019-2020)**

Students Name List

S.NO	REG.NO	NAME	SEM/ YEAR	DEPART MENT
1.	U17BM026	Bharkavi M S	V/III	BME
2.	U17BM028	Sheeba Alexia B	V/III	BME
3.	U17BM029	Jeeva G	V/III	BME
4.	U17BM030	Swedha S	V/III	BME
5.	U17BM031	Loka Ranjani E	V/III	BME
6.	U17BM032	Pooja B	V/III	BME
7.	U17BM033	Varsha M	V/III	BME
8.	U17BM034	Avula Arun Kumar	V/III	BME
9.	U17BM036	Lokesh M	V/III	BME
10.	U17BM037	Medivemulla Chenna Reddy	V/III	BME
11.	U17BM106	RAMANAN R	V/III	BME
12.	U17BM107	TAPALSHAIK FHAZUL RAHMA	V/III	BME
13.	U17BM109	CHEEKATIPALLI LEENA	V/III	BME
14.	U17BM110	BUCHAGARI KAVYA	V/III	BME
15.	U17BM113	G VEENA	V/III	IBT
16.	U17BT022	SOLENKA MANOJ KUMAR	V/III	IBT
17.	U17BT023	KANCHA SIDHARTHA KUMAR	V/III	IBT
18.	U17BT024	GATTUPALLI VENKATA CHAI	V/III	IBT

19.	U17BT026	MADHAN KUMAR S	V/III	IBT
20.	U17BT027	KATA VEERA SUDARSAN	V/III	IBT
21.	U17BT029	A S MOHAN KRISHNA	V/III	IBT
22.	U17BT030	MALLIGA V	V/III	IBT
23.	U17BR009	HEMAMBUJAM D	V/III	BR
24.	U17BR010	MOHANED SHAIBI K M	V/III	BR
25.	U17BR011	VIJAYASRI T	V/III	BR
26.	U17BR012	EVANGELINE SELES J L	V/III	BR
27.	U17BR013	SAHANA SHREE S	V/III	BR
28.	U17BR014	JEEVANANTHAM N	V/III	BR
29.	U17BR015	THAMARAI ARASI R	V/III	BR
30.	U17BR016	NAVEEN KUMAR K	V/III	BR

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

**COURSE ON CERTIFICATE PROGRAM IN BINOCULAR VISION AND
VISION THERAPY (2019-2020)**

Students Name List

S.NO	REG.NO	NAME	RESULT ANALYSIS
1.	U17BM026	Bharkavi M S	A
2.	U17BM028	Sheeba Alexia B	A
3.	U17BM029	Jeeva G	S
4.	U17BM030	Swedha S	A
5.	U17BM031	Loka Ranjani E	S
6.	U17BM032	Pooja B	S
7.	U17BM033	Varsha M	A
8.	U17BM034	Avula Arun Kumar	S
9.	U17BM036	Lokesh M	S
10.	U17BM037	Medivemulla Chenna Reddy	S
11.	U17BM106	RAMANAN R	S
12.	U17BM107	TAPALSHAIK FHAZUL RAHMA	S
13.	U17BM109	CHEEKATIPALLI LEENA	A
14.	U17BM110	BUCHAGARI KAVYA	S
15.	U17BM113	G VEENA	A
16.	U17BT022	SOLENKA MANOJ KUMAR	A
17.	U17BT023	KANCHA SIDHARTHA KUMAR	S
18.	U17BT024	GATTUPALLI VENKATA CHAI	A

19.	U17BT026	MADHAN KUMAR S	S
20.	U17BT027	KATA VEERA SUDARSAN	S
21.	U17BT029	A S MOHAN KRISHNA	A
22.	U17BT030	MALLIGA V	S
23.	U17BR009	HEMAMBUJAM D	A
24.	U17BR010	MOHANED SHAIBI K M	S
25.	U17BR011	VIJAYASRI T	A
26.	U17BR012	EVANGELINE SELES J L	S
27.	U17BR013	SAHANA SHREE S	A
28.	U17BR014	JEEVANANTHAM N	S
29.	U17BR015	THAMARAI ARASI R	S
30.	U17BR016	NAVEEN KUMAR K	S

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

**COURSE ON CERTIFICATE PROGRAM IN BINOCULAR VISION AND
VISION THERAPY (2019-2020)**

Students Name List

S.NO	REG.NO	NAME	RESULT ANALYSIS
1.	U17BM026	Bharkavi M S	4.5
2.	U17BM028	Sheeba Alexia B	4.8
3.	U17BM029	Jeeva G	4.3
4.	U17BM030	Swedha S	4
5.	U17BM031	Loka Ranjani E	4.2
6.	U17BM032	Pooja B	4.5
7.	U17BM033	Varsha M	4.6
8.	U17BM034	Avula Arun Kumar	4.8
9.	U17BM036	Lokesh M	4.9
10.	U17BM037	Medivemulla Chenna Reddy	4.3
11.	U17BM106	RAMANAN R	4.2
12.	U17BM107	TAPALSHAIK FHAZUL RAHMA	4.5
13.	U17BM109	CHEEKATIPALLI LEENA	4.1
14.	U17BM110	BUCHAGARI KAVYA	4.9
15.	U17BM113	G VEENA	4.8
16.	U17BT022	SOLENKA MANOJ KUMAR	4.7
17.	U17BT023	KANCHA SIDHARTHA KUMAR	4.6
18.	U17BT024	GATTUPALLI VENKATA CHAI	4.5

19.	U17BT026	MADHAN KUMAR S	4.6
20.	U17BT027	KATA VEERA SUDARSAN	4.5
21.	U17BT029	A S MOHAN KRISHNA	4
22.	U17BT030	MALLIGA V	4.1
23.	U17BR009	HEMAMBUJAM D	4.2
24.	U17BR010	MOHANED SHAIBI K M	4.3
25.	U17BR011	VIJAYASRI T	4
26.	U17BR012	EVANGELINE SELES J L	4.1
27.	U17BR013	SAHANA SHREE S	4.3
28.	U17BR014	JEEVANANTHAM N	4.2
29.	U17BR015	THAMARAI ARASI R	4.1
30.	U17BR016	NAVEEN KUMAR K	4.8

CERTIFICATE PROGRAM IN BINOCULAR VISION AND VISION THERAPY- 07.12.2019





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INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as DEEMED-TO-BE-UNIVERSITY u/s 3 of the UGC Act, 1956)



SCHOOL OF BIOENGINEERING
VALUE ADDED COURSE ON CERTIFICATE PROGRAM IN BINOCULAR
VISION AND VISION THERAPY

Certificate

This is to certify that Mr /Ms **Ramanan R** has attended three weeks value added course on **CERTIFICATE PROGRAM IN BINOCULAR VISION AND VISION THERAPY** conducted by Department of Biomedical Engineering at Bharath Institute of Higher Education and Research, Chennai (TN), India during 06th -21st Dec 2019.


HOD


DEAN

From

Chennai

Head of the Department

09-08-2019

Department of Biomedical Engineering

BIHER

To

The Dean

BIHER

Respected Sir

Sub: Approval to conduct a certificate program on "BIO SIGNAL PROCESSING"
-reg

It has been planned by the Department of Biomedical Engineering to conduct a certificate program on "BIO SIGNAL PROCESSING" for the benefit of B. Tech Biomedical Engineering, B. Tech Industrial Biotechnology and B-Tech Genetic Engineering students from 26th August, 2019. The duration of the course is 30 hrs comprising of both theory and practical classes. 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: 12-08-2019

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 certificate program on “**Bio Signal Processing**” from 26/08/2019 for a period of 3 weeks. Interested students can approach Mr.S. Prasath, Assistant Professor and Course Coordinator, Department of Bio Medical Engineering, for registration and further details on or before 24th August 2019.

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 BIO MEDICAL ENGINEERING

CERTIFICATE PROGRAM ON BIO SIGNAL PROCESSING

2019-2020

COURSE CO-ORDINATOR DETAILS

Faculty Name: Mr. S. Prasath,

Assistant Professor,

Department of Bio Medical Engineering.

Email ID: Mail.surendhar@gmail.com

Mobile number: 87545 81937

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

SCHOOL OF BIO-ENGINEERING

DEPARTMENT OF BIO MEDICAL ENGINEERING

2019-2020

VALUE ADDED COURSE SYLLABUS

BIO SIGNAL PROCESSING

MODULE 1

Fourier transform for continuous signals. Energy spectrum, Properties (without proof), Gibbs phenomena, Auto and cross correlation. Discrete Fourier transforms. Properties (without proof), Inverse DFT, introduction to FFTIR & FIR Filters, Low pass, High Pass, Band Pass Filters using windows – Kaiser Windows. Sampling Theorem, aliasing Nyquist criteria, ADC's and DAC's.

MODULE 2

Digital signals and systems: Classification of systems causal, time varying, time invariant, lumped. Introduction to digital signals systems. Convolution, Auto-correlation and cross correlation , Use of Matlab signal processing toolbox on various real bio – medical signals.

MODULE 3

Introduction, Characteristics of Bio – Signals, Types of Signals, Measurement, Transformation. and reduction, computation of signal parameters that are diagnostically significant, stationary and non – stationary bio – signals, Application areas of Bio -Signals analysis – EEG, ECG, Phonocardiogram, Spiro Gram, Evoked Signals.

Total Contact Hour: 30

SCHOOL OF BIO-ENGINEERING

DEPARTMENT OF BIO MEDICAL ENGINEERING

Certificate Program on Bio Signal Processing

Session	Topic	Date	Duration (Hr)	Resource person
Session I	Fourier transform for continuous signals. Energy spectrum, Properties (without proof), Gibbs phenomena, Auto and cross correlation. Discrete Fourier transforms. Properties (without proof)	26.08.2019	4	R. Kishore Kanna
Session II	Inverse DFT, introduction to FFTIR & FIR Filters, Low pass, High Pass, Band Pass Filters using windows – Kaiser Windows. Sampling Theorem,	27.08.2019	4	R. Kishore Kanna
Session III	aliasing Nyquist criteria, ADC's and DAC's	28.08.2019	3	T. Manoj Prasath
Session IV	Digital signals and systems: Classification of systems causal, time varying, time invariant, lumped.	02.09.2019	4	T. Manoj Prasath
Session V	Introduction to digital signals systems. Convolution, Auto-correlation and cross correlation	03.09.2019	3	S. Prasath
Session VI	Use of Matlab signal processing toolbox on various real bio – medical signals.	04.09.2019	3	S. Prasath
Session VII	Introduction, Characteristics of Bio – Signals, Types of Signals, Measurement, Transformation.	09.09.2019	3	Dr.F.Emerson Solomon
Session VIII	reduction, computation of signal parameters that are diagnostically significant, stationary and non – stationary bio – signals	10.09.2019	3	S. Geetha
Session IX	Application areas of Bio -Signals analysis – EEG, ECG, Phonocardiogram, Spiro Gram, Evoked Signals.	11.09.2019	3	S. Geetha

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH
SCHOOL OF BIO-ENGINEERING
DEPARTMENT OF BIO MEDICAL ENGINEERING
CERTIFICATE PROGRAM ON BIO SIGNAL PROCESSING
STUDENTS NAME LIST

S.NO	REG.NO	NAME
1.	U17BM001	Sudhanraj J
2.	U17BM002	Keerthana N
3.	U17BM003	Raabiya Shareef A
4.	U17BM004	Karthika S
5.	U17BM005	Suprava Paul
6.	U17BM006	Kartic S
7.	U17BM007	Divine Winfred W
8.	U17BM008	Sorakayapeta R Manjusri
9.	U17BM009	Jeevaraj S
10.	U17BM010	B Karthikeyan
11.	U17BM011	V Varatharajan
12.	U17BM012	Vinodhini S
13.	U17BM013	Naveen Kumar M
14.	U17BM014	Dinesh Kumar R
15.	U17BM015	Mathankumar G K
16.	U17BM016	Ignatius Arun Sinjin G
17.	U17BM017	Debabrata Bandyopadhyay
18.	U17BM018	Supratik Nandi
19.	U17BM019	Kalyaneswar Mishra
20.	U17BM020	Dhayanithi J
21.	U17BM021	Akash Kumar T
22.	U17BM022	Nithishkumar G
23.	U17BM023	Lokesh V
24.	U17BM024	Afreen Banu A
25.	U17BM026	Bharkavi M S
26.	U17BM028	Sheeba Alexia B
27.	U17BM029	Jeeva G
28.	U17BM030	Swedha S
29.	U17AC001	VICKRANTH M
30.	U17AC002	MANI KANDAN N
31	U17AC003	HARINISRI REKHA G
32	U17AC004	VIGNESWARAN M
33	U17AC005	KODURI MERCY GRACE .
34	U17AC006	VIMAL KUMAR A
35	U17AC007	IRENI POORNIMA
36	U17AC008	VISHNU V
37	U17AC009	PAVAN KALYAN G
38	U17AC010	ASHWINI B
39	U17AC011	BOOMIBALAN B

40	U17AC012	MARIA JOSEPH M
41	U17AC013	LOGESH G
42	U17AC014	BIRUNTHAA C G
43	U17AC015	GALI KOTESH
44	U17AC016	KALAIRAJAN T
45	U17AC018	GUNAPRIYA D
46	U17AC019	RIMMALAPUDI REVATHI
47	U17AC020	DURGA R
48	U17AC021	KAMALASH V B
49	U17BR001	KAMALI V
50	U17BR002	RAJALAKSJMI E
51	U17BR003	PADMAPRIYA R
52	U17BR004	PREETHI P

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH
SCHOOL OF BIO-ENGINEERING
DEPARTMENT OF BIO MEDICAL ENGINEERING
CERTIFICATE PROGRAM BIO SIGNAL PROCESSING (2019-2020)

Students Result

S.NO	REG.NO	NAME	RESULT
1.	U17BM001	Sudhanraj J	S
2.	U17BM002	Keerthana N	S
3.	U17BM003	Raabiya Shareef A	A
4.	U17BM004	Karthika S	S
5.	U17BM005	Suprava Paul	S
6.	U17BM006	Kartic S	A
7.	U17BM007	Divine Winfred W	S
8.	U17BM008	Sorakayapeta R Manjusri	S
9.	U17BM009	Jeevaraj S	S
10.	U17BM010	B Karthikeyan	S
11.	U17BM011	V Varatharajan	S
12.	U17BM012	Vinodhini S	S
13.	U17BM013	Naveen Kumar M	S
14.	U17BM014	Dinesh Kumar R	S
15.	U17BM015	Mathankumar G K	S
16.	U17BM016	Ignatius Arun Sinjin G	A
17.	U17BM017	Debabrata Bandyopadhyay	S
18.	U17BM018	Supratik Nandi	S
19.	U17BM019	Kalyaneswar Mishra	S
20.	U17BM020	Dhayanithi J	S
21.	U17BM021	Akash Kumar T	S
22.	U17BM022	Nithishkumar G	S
23.	U17BM023	Lokesh V	S
24.	U17BM024	Afreen Banu A	S
25.	U17BM026	Bharkavi M S	S
26.	U17BM028	Sheeba Alexia B	S
27.	U17BM029	Jeeva G	S
28.	U17BM030	Swedha S	S
29.	U17AC001	VICKRANTH M	S
30.	U17AC002	MANI KANDAN N	S
31.	U17AC003	HARINISRI REKHA G	S
32.	U17AC004	VIGNESWARAN M	S
33.	U17AC005	KODURI MERCY GRACE .	S
34.	U17AC006	VIMAL KUMAR A	S
35.	U17AC007	IRENI POORNIMA	A
36.	U17AC008	VISHNU V	S
37.	U17AC009	PAVAN KALYAN G	S
38.	U17AC010	ASHWINI B	S
39.	U17AC011	BOOMIBALAN B	S
40.	U17AC012	MARIA JOSEPH M	S

41	U17AC013	LOGESH G	S
42	U17AC014	BIRUNTHAA C G	A
43	U17AC015	GALI KOTESH	S
44	U17AC016	KALAIRAJAN T	S
45	U17AC018	GUNAPRIYA D	S
46	U17AC019	RIMMALAPUDI REVATHI	S
47	U17AC020	DURGA R	A
48	U17AC021	KAMALASH V B	S
49	U17BR001	KAMALI V	S
50	U17BR002	RAJALAKSJMI E	S
51	U17BR003	PADMAPRIYA R	S
52	U17BR004	PREETHI P	S

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

SCHOOL OF BIOENGINEERING

DEPARTMENT OF BIOMEDICAL ENGINEERING

Name : Boomibalan.B

Register Number : U17AC011

Academic year: 2019-2020

Name of the course offered : Certificate program on "Biosignal processing".

Student Feedback

S.No	Criteria	Rating				
		Excellent	Very Good	Good	Fair	Satisfactory
1	Course content	✓				
2	Skill development	✓				
3	Motivation		✓			
4	Regularity of the faculty		✓			
5	Coverage of the syllabus	✓				
6	Resourse person interaction with students		✓			
7	Outcome	✓				
8	Individual Attention	✓				

Signature of the Course co-ordinator

Signature of the Student

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

SCHOOL OF BIOENGINEERING

DEPARTMENT OF BIOMEDICAL ENGINEERING

Name : *Sudhanraj - J*

Register Number : *U17BM001*

Academic year: *2019 - 2020*

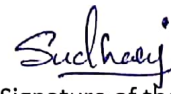
Name of the course offered : *Certificate program on "BIO SIGNAL PROCESSING"*

Student Feedback

S.No	Criteria	Rating				
		Excellent	Very Good	Good	Fair	Satisfactory
1	Course content	✓				
2	Skill development		✓			
3	Motivation	✓				
4	Regularity of the faculty	✓				
5	Coverage of the syllabus		✓			
6	Resourse person interaction with students	✓				
7	Outcome		✓			
8	Individual Attention	✓				



Signature of the Course co-ordinator



Signature of the Student



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




SCHOOL OF BIOENGINEERING

CERTIFICATE PROGRAM ON BIO SIGNAL PROCESSING

CERTIFICATE

This is to certify that Mr Ignatius Arun Sinjin G has attended three weeks **Certificate Program on Bio Signal Processing** conducted by the Department of Biomedical Engineering at Bharath Institute of Higher Education and Research, Chennai, India during 26th August to 11th September 2019.


Dean



HOD

From

Chennai

The Head of the Department

12-02-2020

Department of Biomedical Engineering

BIHER

To

The Dean

BIHER

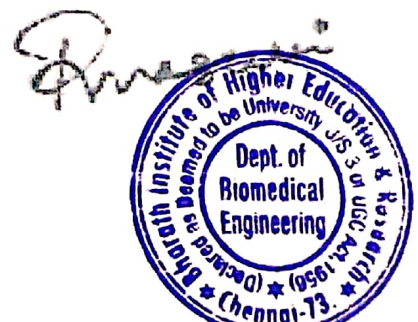
Respected Sir

Sub: Approval to conduct a value added course on "Introduction to Artificial Organs" -reg

It has been planned by the Department of Biomedical Engineering to start a Value Added Course on "Introduction to Artificial Organs" for the benefit of B.Tech Biomedical Engineering, B.Tech Industrial Biotechnology and B-Tech Genetic Engineering students from 02nd March, 2020. The duration of the course is 30 hrs comprising of both theory and practical classes. I request you to kindly approve for 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: 14-02-2020

**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 **“Introduction to Artificial Organs”** from 02/03/2020 for a period of 3 weeks. Interested students can approach Ms. R. Indumathi, Assistant Professor and Course Coordinator, Department of Bio Medical Engineering, for registration and further details on or before 28th February 2020.

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

Course Coordinator

HOD

Copy to:

Vice Chancellor

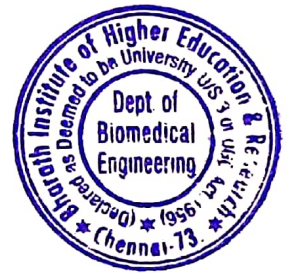
Pro Vice Chancellor

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 ARTIFICIAL ORGANS
2019-2020
COURSE CO-ORDINATOR DETAILS

Faculty Name: Ms. R. Indumathi,

Assistant Professor,

Department of Bio Medical Engineering.

Email ID: indhu.maheshradha@gmail.com

Mobile number: 99626 60176

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

SCHOOL OF BIO-ENGINEERING

DEPARTMENT OF BIO MEDICAL ENGINEERING

2019-2020

VALUE ADDED COURSE SYLLABUS

INTRODUCTION TO ARTIFICIAL ORGANS

MODULE 1

Introduction to artificial organs, Biomaterials used in artificial organs and prostheses, Artificial kidney: kidney filtration, artificial waste removal methods, hemodialysis, regeneration of dialysate, membrane configuration, wearable artificial kidney machine, Artificial heart-lung machine: lungs gaseous exchange/transport, Artificial heart valves.

MODULE 2

Liver support system, Artificial pancreas, Artificial limbs, Audiometry: air conduction, bone conduction, masking Ophthalmoscope, Artificial cornea, Prosthetic and Orthotic devices.

MODULE 3

Hybrid organs, Regenerative medicine – is it a future of artificial organ?, Ethical, economical, environmental and legal aspects in artificial organs domain.

Total Contact Hour: 30

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

Introduction to Artificial Organs

Session	Topic	Date	Duration (Hr)	Resource person
Session I	Introduction to artificial organs, Biomaterials used in artificial organs and prostheses	02.03.2020	4	Dr. F. Emerson Solomon
Session II	Artificial kidney: kidney filtration, artificial waste removal methods, hemodialysis, regeneration of dialysate, membrane configuration, wearable artificial kidney machine	03.03.2020	3	Dr. F. Emerson Solomon
Session III	Artificial heart-lung machine: lungs gaseous exchange/transport, Artificial heart valves	04.03.2020	3	Dr. Vasukidevi
Session IV	Liver support system, Artificial pancreas, Artificial limbs	09.03.2020	4	Ms. S. Geetha
Session V	Audiometry: air conduction, bone conduction, masking	10.03.2020	3	Dr. Vasukidevi
Session VI	Ophthalmoscope, Artificial cornea	11.03.2020	3	Dr. Vasukidevi
Session VII	Prosthetic and Orthotic devices	16.03.2020	4	Ms. S. Geetha
Session VIII	Hybrid organs	17.03.2020	3	Ms. S. Geetha
Session IX	Regenerative medicine – is it a future of artificial organ? Ethical, economical, environmental and legal aspects in artificial organs domain.	18.03.2020	3	Dr. F. Emerson Solomon

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH
SCHOOL OF BIO-ENGINEERING
DEPARTMENT OF BIO MEDICAL ENGINEERING
VALUE ADDED COURSE
Introduction to Artificial Organs
STUDENTS NAME LIST

S.NO	REG.NO	NAME
1.	U16BR004	MONALISHA B A
2.	U16BR011	MONIT KUMAR CHANDAN
3.	U16BR020	PREM KUMAR R
4.	U16BR029	KAMARAPU AMULYA
5.	U16BR044	PAVITHRA S
6.	U16BR048	NARAPPAGARI RADHIKA
7.	U16BR055	NAVYA PRANAVI KANDALA
8.	U16BR062	NARENDRA
9.	U16EA003	SURYAPRAKASH G
10.	U16BT007	VISHAL S K
11.	U16BT010	POOVARASAN A
12.	U16BT015	ASWIN M
13.	U16BT022	DARA VIJAYCHANDRA GANGADHAR GUPTHA
14.	U16BT027	KOKKILIGADDA JESSICA CAROLINE
15.	U16BT031	RATHNAKUMAR L
16.	U17BT002	KUMARESH M
17.	U17BT006	K KARAN
18.	U17BT016	S KEERTANA
19.	U17BT021	DOLE ARAVIND
20.	U17BT024	GATTUPALLI VENKATA CHARISHMA
21.	U17BT030	MALLIGA V
22.	U17BT033	SEERA SIRISHA
23.	U17BT039	GONDA SAHITH
24.	U17BT701	JOVIALITY SNAITANG
25.	U18BT004	ROGITH KUMAR A
26.	U18BT009	SOWNTHARYA P
27.	U18BT010	ANSAL V S
28.	U18BT013	TRIDEV HALDAY
29.	U18BT017	RAVI SRI SAI NANDINI
30.	U16BM011	Pavithra V
31	U16BM023	Nawaz Shariff A
32	U16BM028	Hari Ritu Sheshasai Niharika
33	U16BM036	Tulabandula Geetha Madhuri
34	U16BM057	Upputholla Rohith
35	U16BM072	Gattamaneni Swetha
36	U16BM081	Pravallika B
37	U17BM011	V Varatharajan
38	U17BM021	Akash Kumar T

39	U17BM031	Loka Ranjani E
40	U17BM043	Prashanth M
41	U17BM054	Madasu M Sri Lakshmi Sirisha
42	U17BM061	Duddela Bharathi
43	U17BM071	Arava Sharon Niharika
44	U17BM095	M Deepa
45	U17BM102	Kishore D
46	U17BM122	Gujarathi Hari Priya
47	U18BM008	Bhavya M
48	U18BM027	Bhavani M

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

Introduction to Artificial Organs
Students Name List

S.NO	REG.NO	NAME	RESULT
1.	U16BR004	MONALISHA B A	A
2.	U16BR011	MONIT KUMAR CHANDAN	S
3.	U16BR020	PREM KUMAR R	S
4.	U16BR029	KAMARAPU AMULYA	A
5.	U16BR044	PAVITHRA S	S
6.	U16BR048	NARAPPAGARI RADHIKA	S
7.	U16BR055	NAVYA PRANAVI KANDALA	A
8.	U16BR062	NARENDRA	S
9.	U16EA003	SURYAPRAKASH G	S
10.	U16BT007	VISHAL S K	A
11.	U16BT010	POOVARASAN A	S
12.	U16BT015	ASWIN M	S
13.	U16BT022	DARA VIJAYCHANDRA GANGADHAR GUPTHA	A
14.	U16BT027	KOKKILIGADDA JESSICA CAROLINE	S
15.	U16BT031	RATHNAKUMAR L	A
16.	U17BT002	KUMARESH M	S
17.	U17BT006	K KARAN	A
18.	U17BT016	S KEERTANA	A
19.	U17BT021	DOLE ARAVIND	S
20.	U17BT024	GATTUPALLI VENKATA CHARISHMA	A
21.	U17BT030	MALLIGA V	S
22.	U17BT033	SEERA SIRISHA	A
23.	U17BT039	GONDA SAHITH	S
24.	U17BT701	JOVIALITY SNAITANG	A
25.	U18BT004	ROGITH KUMAR A	S
26.	U18BT009	SOWNTHARYA P	A
27.	U18BT010	ANSAL V S	S
28.	U18BT013	TRIDEV HALDAY	A
29.	U18BT017	RAVI SRI SAI NANDINI	S
30.	U16BM011	Pavithra V	A
31.	U16BM023	Nawaz Shariff A	A
32.	U16BM028	Hari Ritu Sheshasai Niharika	S
33.	U16BM036	Tulabandula Geetha Madhuri	A
34.	U16BM057	Upputholla Rohith	S
35.	U16BM072	Gattamaneni Swetha	S
36.	U16BM081	Pravallika B	A
37.	U17BM011	V Varatharajan	A
38.	U17BM021	Akash Kumar T	S
39.	U17BM031	Loka Ranjani E	A

40	U17BM043	Prashanth M	A
41	U17BM054	Madasu M Sri Lakshmi Sirisha	S
42	U17BM061	Duddela Bharathi	A
43	U17BM071	Arava Sharon Niharika	S
44	U17BM095	M Deepa	A
45	U17BM102	Kishore D	A
46	U17BM122	Gujarathi Hari Priya	S
47	U18BM008	Bhavya M	A
48	U18BM027	Bhavani M	S

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

SCHOOL OF BIOENGINEERING

DEPARTMENT OF BIOMEDICAL ENGINEERING

Name: MONALISHA B.A

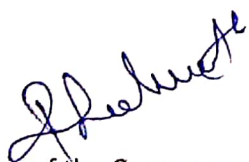
Register Number: U16BR004

Academic year: 2019-2020

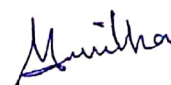
Name of the course offered: Value added course on Introduction to Artificial organs

Student Feedback

S.No	Criteria	Rating				
		Excellent	Very Good	Good	Fair	Satisfactory
1	Course content	✓	.			
2	Skill development		✓			
3	Motivation	✓				
4	Regularity of the faculty		✓			
5	Coverage of the syllabus	✓				
6	Resourse person interaction with students		✓			
7	Outcome	✓				
8	Individual Attention		✓			



Signature of the Course co-ordinator



Signature of the Student

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH
SCHOOL OF BIOENGINEERING
DEPARTMENT OF BIOMEDICAL ENGINEERING

Name: ANSAL VS

Register Number: U18BT010

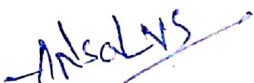
Academic year: 2019-2020

Name of the course offered: Value added Course^U on Introduction to Artificial Organs

Student Feedback

S.No	Criteria	Rating				
		Excellent	Very Good	Good	Fair	Satisfactory
1	Course content	✓				
2	Skill development		✓			
3	Motivation	✓				
4	Regularity of the faculty	✓				
5	Coverage of the syllabus		✓			
6	Resource person interaction with students	✓				
7	Outcome	✓				
8	Individual Attention	✓				


Signature of the Course co-ordinator


Signature of the Student



Bharath

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




DEPARTMENT OF BIOMEDICAL ENGINEERING
CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms/Mrs/Dr MONIT KUMAR CHANDAN

*has completed the value added course on "Introduction to Artificial Organs"
organized by the Department of Biomedical Engineering, Bharath Institute of
Higher Education and Research, Chennai (TN), India during 02nd March to
18th March, 2020.*


Co-ordinator

Ms. R. Indumathi


Convener
Dr. R. Vasuki

From

Head of the Department

Department of Biomedical Engineering

BIHER

Chennai

01-07-2019

To

The Dean

BIHER

Respected Sir

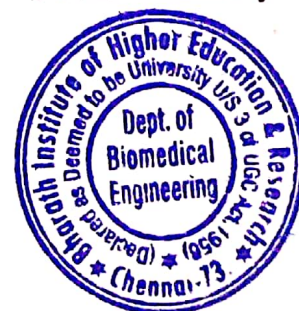
Sub: Approval to conduct a certificate program on "MEDICAL IMAGE PROCESSING" -reg

It has been planned by the Department of Biomedical Engineering to Conduct a certificate program on "MEDICAL IMAGE PROCESSING" for the benefit of B.Tech Biomedical Engineering, B.Tech Industrial Biotechnology and B-Tech Genetic Engineering students from 15th July, 2019. The duration of the course is 30 hrs comprising of both theory and practical classes. I request you to kindly approve of the same.

Thanking you



Yours sincerely





BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

Date: 05-07-2019

**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 certificate program on “**Medical Image Processing**” from 15/07/2019 for a period of 3 weeks. Interested students can approach Mr. R. Kishore Kanna, Assistant Professor and Course Coordinator, Department of Bio Medical Engineering, for registration and further details on or before 14th July 2019.

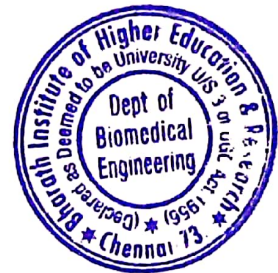
Eligibility-II, III and IV B-Tech IBT, GE and BME


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
CERTIFICATE PROGRAM ON MEDICAL IMAGE PROCESSING
2019-2020
COURSE CO-ORDINATOR DETAILS

Faculty Name: Mr. R. Kishore Kanna,

Assistant Professor,

Department of Bio Medical Engineering.

Email ID: kishorekanna007@gmail.com

Mobile number: 9003049998

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

SCHOOL OF BIO-ENGINEERING

DEPARTMENT OF BIO MEDICAL ENGINEERING

2019-2020

SYLLABUS

CERTIFICATE PROGRAM ON MEDICAL IMAGE PROCESSING

MODULE 1

Objectives of biomedical image analysis – Computer aided diagnosis – Nature of medical images: X-ray imaging – Tomography – Nuclear medicine imaging – SPECT imaging – Positron imaging tomography – Ultrasonography – Magnetic resonance imaging. Removal of artifacts – Space domain filters – Frequency domain filters – Optimal filtering – Adaptive filters.

MODULE 2

Image enhancement – Gray level transforms – Histogram transformation – Convolution mask operators – Contrast enhancement. Detection of regions of interest – Thresholding and binarization – Detection of isolated lines and points – Edge detection – Region growing.

MODULE 3

Analysis of shape and texture – Representation of shapes and contours – Shape factors – Models for generation of texture – Statistical analysis of texture – Fractal analysis – Fourier domain analysis of texture – Segmentation and structural analysis of texture. Pattern classification and diagnostic decision – Measures of diagnostic accuracy – Applications: Contrast enhancement of mammograms – Detection of calcifications by region growing – Shape and texture analysis of tumors.

Total Contact Hour: 30

SCHOOL OF BIO-ENGINEERING
DEPARTMENT OF BIO MEDICAL ENGINEERING
CERTIFICATE PROGRAM ON MEDICAL IMAGE PROCESSING
LESSON PLAN

Session	Topic	Date	Duration (Hr)	Resource person
Session I	Objectives of biomedical image analysis – Computer aided diagnosis – Nature of medical images: X-ray imaging – Tomography – Nuclear medicine imaging – SPECT imaging – Positron imaging tomography	15.07.2019	4	R. Kishore Kanna
Session II	Ultrasonography – Magnetic resonance imaging. Removal of artifacts – Space domain filters – Frequency domain filters – Optimal filtering – Adaptive filters.	16.07.2019	4	S. Prasath
Session III	Image enhancement – Gray level transforms – Histogram transformation – Convolution mask operators – Contrast enhancement.	17.07.2019	3	R. Kishore Kanna
Session IV	Detection of regions of interest – Thresholding and binarization – Detection of isolated lines and points – Edge detection – Region growing.	22.07.2019	4	S. Prasath
Session V	Analysis of shape and texture – Representation of shapes and c	23.07.2019	3	T. Manoj Prasath
Session VI	Statistical analysis of texture – Fractal analysis – Fourier doma	24.07.2019	4	T. Manoj Prasath
Session VII	Pattern classification and diagnostic decision – Measures of di	29.07.2019	4	Dr. F. Emerson Solomon
Session VIII	Applications: Contrast enhancement of mammograms – Detection of calcifications by region growing – Shape and texture analysis of	30.07.2019	4	Dr. F. Emerson Solomon

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH
SCHOOL OF BIO-ENGINEERING
DEPARTMENT OF BIO MEDICAL ENGINEERING
VALUE ADDED COURSE
Certificate Program on Medical Image Processing (2019-2020)
STUDENTS NAME LIST

S.NO	REG.NO	NAME
1	U16BM011	Pavithra V
2	U16BM012	Ashini TS
3	U16BM013	P V Jhansi Kiran
4	U16BM014	Jayapreetha M
5	U16BM015	Jeya Barathi S
6	U16BM016	Ajmeera Aruna
7	U16BM017	Bysani Anjani Umesh
8	U16BM018	Ajith Kumar P
9	U16BM019	Ajeesh SP
10	U16BM020	Abisha G
11	U16BM021	Chrysolyte Precious Rani S
12	U16BM022	Sasikumar J
13	U16BM023	Nawaz Sharifa
14	U16BM024	Karanam Adarash Rao
15	U16BM025	Kudugunta Achyutha Reddy
16	U16BM026	Mohammad Abraar Ahmad
17	U16BM027	Komatiguntha Brahmendra
18	U16BM028	Hari Ritu Sheshasar Niharika
19	U16BM029	Mulagada Nikshiplha
20	U16BM030	Shweta Singh
21	U16BM031	Tumma Sathvik Phani Ravi Teja
22	U16BM032	Kakani Karthik
23	U16BM033	Bollu Gowri
24	U16BM034	Neha Kumari
25	U16BM035	Vijay Kumar P
26	U16BM036	Tulabandula Geetha Madhuri
27	U16BM038	Mitragiri Afreen Banu
28	U16BM039	Rimmalapudi Guna Shankar
29	U16BM040	E Pravallika
30	U16BM041	Vignesh K
31	U16BM042	Kalleapadam Akshay Das
32	U16BM043	V Mownika
33	U16BM044	Janana Priyan S
34	U16BM045	I Neeraja
35	U16BM046	Jayashree A
36	U17AC079	RAHUL K
37	U17AC080	SHAIK MOHAMMAD FAYAZ .
38	U17AC081	MATEJI MANEESHA
39	U17AC083	VASANTHKUMAR S
40	U17AC085	SOMA HARI PRIYA .
41	U17AC087	SIVASHANMUGA VELAN P
42	U17AC088	SWETHA P
43	U17AC089	YASHMA A
44	U17AC090	ARUL A
45	U17AC091	AKASH B N
46	U17BR012	EVANGELINE SELES J L
47	U17BR013	SAHANA SHREE S
48	U17BR014	JEEVANANTHAM N
49	U17BR015	THAMARAI ARASI R
50	U17BR016	NAVEEN KUMAR K
51	U17BR017	PENDYALA SANDHYA RANI
52	U17BR018	KARTHIK RAJA G
53	U17BR019	SURAPAREDDY TEJA
54	U17BR020	MADDILATE SAI RAGA MAI
55	U17BR021	SONIYA SHANAVAS

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH
SCHOOL OF BIO-ENGINEERING
DEPARTMENT OF BIO MEDICAL ENGINEERING
VALUE ADDED COURSE
Certificate Program on Medical Image Processing (2019-2020)
Students Result

S.NO	REG.NO	NAME	RESULT
			S
			S
1	U16BM011	Pavithra V	A
2	U16BM012	Ashini TS	S
3	U16BM013	P V Jhansi Kiran	S
4	U16BM014	Jayapreetha M	S
5	U16BM015	Jeya Barathi S	S
6	U16BM016	Ajmeera Aruna	S
7	U16BM017	Bysani Anjani Umesh	S
8	U16BM018	Ajith Kumar P	S
9	U16BM019	Ajeesh SP	S
10	U16BM020	Abisha G	S
11	U16BM021	Chrysolyte Precious Rani S	S
12	U16BM022	Sasikumar J	S
13	U16BM023	Nawaz Shariif A	S
14	U16BM024	Karanam Adarash Rao	S
15	U16BM025	Kudugunta Achyutha Reddy	S
16	U16BM026	Mohammad Abraar Ahmad	S
17	U16BM027	Komatiguntla Brahmendra	S
18	U16BM028	Hari Ritu Sheshasai Niharika	S
19	U16BM029	Mulagada Nikshiptha	S
20	U16BM030	Shweta Singh	S
21	U16BM031	Tumma Sathvik Phani Kavi Teja	A
22	U16BM032	Kakani Karthik	S
23	U16BM033	Bollu Gowri	S
24	U16BM034	Neha Kumari	S
25	U16BM035	Vijay Kumar P	S
26	U16BM036	Tulabandula Geetha Madhuri	A
27	U16BM038	Mitaigiri Afreen Banu	S
28	U16BM039	Kimmalapudi Guna Shankar	S
29	U16BM040	E Pravallika	S
30	U16BM041	Vignesh K	S
31	U16BM042	Kalleapadam Akshay Das	S
32	U16BM043	V Mownika	S
33	U16BM044	Janana Priyan S	S
34	U16BM045	I Neeraja	S
35	U16BM046	Jayashree A	S
36	U17AC079	RAHUL K	S
37	U17AC080	SHAIK MOHAMMAD FAYAZ .	A
38	U17AC081	MATE IT MANEESHA	S
39	U17AC083	VASANTH KUMAR S	S
40	U17AC085	SOMA HARI PRIYA .	S
41	U17AC087	SIVASHANMUGA VELAN P	S
42	U17AC088	SWETHA P	S
43	U17AC089	YASHMA A	S
44	U17AC090	AKUL A	S
45	U17AC091	AKASH B N	S
46	U17BR012	EVANGELINE SELES JL	S
47	U17BR013	SAHANA SHREE S	S
48	U17BR014	JEEVANANTHAM N	S
49	U17BR015	THAMARAI ARASI R	A
50	U17BR016	NAVEEN KUMAR K	S
51	U17BR017	PENDYALA SANDHYA RANI	S
52	U17BR018	KARTHIK RAJA G	S
53	U17BR019	SURAPAREDDY TEJA	S
54	U17BR020	MADDILATE SAI KAGA MAI	S
55	U17BR021	SONIYA SHANAVAS	S

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH
SCHOOL OF BIOENGINEERING
DEPARTMENT OF BIOMEDICAL ENGINEERING

Name: ARUL.A

Register Number: 17AC090

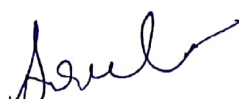
Academic year: 2019-2020

Name of the course offered: CERTIFICATE PROGRAM ON MEDICAL IMAGE PROCESSING

Student Feedback

S.No	Criteria	Rating				
		Excellent	Very Good	Good	Fair	Satisfactory
1	Course content	✓				
2	Skill development	✓				
3	Motivation		✓			
4	Regularity of the faculty	✓				
5	Coverage of the syllabus	✓				
6	Resourse person interaction with students	✓				
7	Outcome	✓				
8	Individual Attention	✓				


 Signature of the Course co-ordinator


 Signature of the Student

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH
SCHOOL OF BIOENGINEERING
DEPARTMENT OF BIOMEDICAL ENGINEERING

Name : ABISHA.G

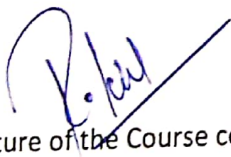
Register Number : U16AM020

Academic year: 2019-2020

Name of the course offered : MEDICAL IMAGE PROCESSING

Student Feedback

S.No	Criteria	Rating				
		Excellent	Very Good	Good	Fair	Satisfactory
1	Course content		/			
2	Skill development		/			
3	Motivation	/				
4	Regularity of the faculty		/			
5	Coverage of the syllabus		/			
6	Resourse person interaction with students	/				
7	Outcome	/				
8	Individual Attention		/			



Signature of the Course co-ordinator



Signature of the Student



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



SCHOOL OF BIOENGINEERING

Certificate Program on Medical Image Processing

CERTIFICATE

This is to certify that Ms. Pavithra V has attended three weeks Certificate Program on Medical Image Processing conducted by the Department of Biomedical Engineering at Bharath Institute of Higher Education and Research, Chennai, India during 15th July to 30th July 2019

Dean

HOD

From

Chennai

The Head

10-10-2019

Dept. of Biomedical Engineering

BIHER

To

The Dean

BIHER

Respected Sir

Sub: approval to start a value added course on “Neuroscience Of Human Movements” -reg

It has been planned by the Dept. of Biomedical Engineering to start a Value Added Course on “Neuroscience Of Human Movements” for the B-Tech Biomedical Engineering, Industrial Biotechnology and Genetic Engineering students from 30th October, 2019. The duration of the course is 30 hrs comprising of theory. I request you to kindly approve of the same.

Thanking you

Yours sincerely

A handwritten signature in blue ink, appearing to read 'Anand', is written in a cursive style.



BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

Date: 11-10-2019

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 **NEUROSCIENCE OF HUMAN MOVEMENTS** from 30/10/2019 for a period of 3 weeks. Interested students can approach Dr.F.Emerson Solomon, Professor and Course Coordinator, Department of Bio Medical Engineering for registration and for further details on or before 27th October 2019.

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 NEUROSCIENCE OF HUMAN MOVEMENTS
2019-2020
COURSE CO-ORDINATOR DETAILS

Faculty Name: Dr.Emerson Solomon F,

Professor,

Department of Bio Medical Engineering.

Email ID: emerson.bme@bharathuniv.ac.in

Mobile number: 95660 70703.

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH
SCHOOL OF BIO-ENGINEERING
DEPARTMENT OF BIO MEDICAL ENGINEERING
VALUE ADDED COURSE SYLLABUS
2019-2020

	Neuromechanics of Human	L	T	P	C
Value added	Total Contact Hours – 30	3	0	0	3
course code	Prerequisite – Human Anatomy and Physiology				
OBJECTIVES					
<ol style="list-style-type: none"> 1 To introduce the neural system responsible for generation of human movements. 2 To introduce neural control of movements (principles and theories) 3 Briefly introduce topics of motor disorders and rehabilitation approaches. 					

MODULE 1 Features of movement production system 6

Muscles, Neurons, Neuronal pathways, Sensory receptors, Reflexes and its kinds, Spinal control mechanisms

MODULE 2 Major brain structures responsible for movement generation 6

Motor Cortex (including a discussion of premotor and supplementary motor areas), Basal Ganglia, Cerebellum, Descending and ascending pathways

MODULE 3 Control theory approaches to motor control 6

Force control, generalized motor programs, muscle activation control, Merton's servo hypothesis, optimal control (including Posture based movement control)

MODULE 4 Coordination of human movement 6

Approaches to studying coordination: Optimization, Dynamical systems approach, Synergies, Action-Perception interactions and coupling.

MODULE 5 Changing and Evolving behaviors 6

Changes to movement control due to fatigue and aging- Spinal cord injury and Spasticity, Cortical disorders (Examples: Stroke, Cerebral Palsy), Disorders of Basal Ganglia (Examples: Parkinson's disease, Huntington's disease), Cerebellar disorders (Ataxia, Tremor, Timing issues,

problems with error correction). Approaches to rehabilitation (Example: Deep Brain Stimulation in Parkinson's patients)

Total Contact Hours: 30

Text Book:

1. Neurophysiological basis of movement (2 ed), Mark Latash, Human Kinetics, 2008
2. Fundamentals of Motor control Mark Latash, Academic Press (Elsevier) (2012)

Reference Books:

1. Progress in Motor Control: A Multidisciplinary Perspective (Advances in Experimental Medicine and Biology) (No. 5), Dagmar Sternad (ed), Springer (2007)
2. Neuroscience (5 ed), Dale Purves et al, Sinauer Associates (2011)
3. Human Motor Control (2 ed), David Rosenbaum, Academic Press (Elsevier) (2009)
4. Principles of neural science (5 ed), Eric Kandel, James Schwartz et al (2012)

SCHOOL OF BIO-ENGINEERING
DEPARTMENT OF BIO MEDICAL ENGINEERING
VALUE ADDED COURSE
COURSE ON NEUROSCIENCE OF HUMAN (2019-2020)

Session	Topic	Date	Duration (Hr)	Resource person
Session I	FEATURES OF MOVEMENT PRODUCTION SYSTEM	30.10.2019	3	Dr.F.Emerson Solomon
Session II	FEATURES OF MOVEMENT PRODUCTION SYSTEM	31.10.2017	4	Dr.R.Vasukidevi
Session III	MAJOR BRAIN STRUCTURES RESPONSIBLE FOR MOVEMENT	31.10.2017	3	Ms.S.Geetha
Session IV	MAJOR BRAIN STRUCTURES RESPONSIBLE FOR MOVEMENT	6.11.2019	3	Mr.S.Prasath
Session V	CONTROL THEORY APPROACHES TO MOTOR CONTROL	7.11.2019	4	Dr.F.Emerson Solomon
Session VI	COORDINATION OF HUMAN MOVEMENT	7.11.2019	3	Dr.R.Vasukidevi
Session VII	COORDINATION OF HUMAN MOVEMENT	13.11.2019	3	Ms.S.Geetha
Session VIII	CHANGING AND EVOLVING BEHAVIORS	14.11.2019	3	Mr.S.Prasath
Session IX	CHANGING AND EVOLVING BEHAVIORS	14.11.2019	4	Ms.S.Geetha

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

SCHOOL OF BIO-ENGINEERING

DEPARTMENT OF BIO MEDICAL ENGINEERING

VALUE ADDED COURSE TIMETABLE

2019-2020

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

SUBJECT CODE	SUBJECT NAME	STAFF
Theory		
Value added course	Neuroscience Of Human Movements (NMH)	Dr.Emerson Solomon F
	Room No	SK504

**BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH
SCHOOL OF BIO-ENGINEERING
DEPARTMENT OF BIO MEDICAL ENGINEERING
VALUE ADDED COURSE
COURSE ON NEUROSCIENCE OF HUMAN MOVEMENTS (2019-2020)**

Students Name List

S.NO	REG.NO	NAME	SEM/ YEAR	DEPART MENT
1.	U17BM002	Keerthana N	V/III	BME
2.	U17BM003	Raabiya Shareef A	V/III	BME
3.	U17BM004	Karthika S	V/III	BME
4.	U17BM005	Suprava Paul	V/III	BME
5.	U17BM006	Kartic S	V/III	BME
6.	U17BM008	Sorakayapeta R Manjusri	V/III	BME
7.	U17BM009	Jeevaraj S	V/III	BME
8.	U17BM010	B Karthikeyan	V/III	BME
9.	U17BM011	V Varatharajan	V/III	BME
10.	U17BM012	Vinodhini S	V/III	BME
11.	U17BM013	Naveen Kumar M	V/III	BME
12.	U17BM014	Dinesh Kumar R	V/III	BME
13.	U17BM015	Mathankumar G K	V/III	BME
14.	U17BM016	Ignatius Arun Sinjin G	V/III	BME
15.	U17BM017	Debabrata Bandyopadhyay	V/III	BME
16.	U17BM058	Rajalaxmi Mallick	V/III	BME
17.	U17BM059	Shaik Afnan Ali	V/III	BME
18.	U17BM060	Rajulapati Bhargavi	V/III	BME
19.	U17BM061	Duddela Bharathi	V/III	BME

20.	U17BM062	Rayala Pavan	V/III	BME
21.	U17BM064	Jerin Judery D S	V/III	BME
22.	U17BM065	Ambati Anitha	V/III	BME
23.	U17BM066	NARMADHA E S	V/III	BME
24.	U17BM067	VINCY SHAMLEY EBEN V	V/III	BME
25.	U17BM068	THEVAR KALAYARASI SENTH	V/III	BME
26.	U17BM069	ASHOK S	V/III	BME
27.	U17BM070	CHINTHAPANTI PRANEETHA	V/III	BME
28.	U17BT004	JEEVITHA S	V/III	IBT
29.	U17BT005	PALOJU DHARANI	V/III	IBT
30.	U17BT006	K KARAN	V/III	IBT
31	U17BT007	NIVEDHITHA T	V/III	IBT
32	U17BT009	JOTHI ILAVARASAN	V/III	IBT
33	U17BT010	AISHWARYA R	V/III	IBT
34	U17BT012	NAGAREDDY PRANEETH RED	V/III	IBT
35	U17BT013	MUTHYALA RAMYA	V/III	IBT
36	U17BT015	TOTTARAMUDI JABILI	V/III	BI
37	U17BR004	PREETHI P	V/III	BI
38	U17BR005	PRIYADARSHENEE R	V/III	BI
39	U17BR006	SONIYA M	V/III	BI
40	U17BR007	JARIS J	V/III	BI

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH
SCHOOL OF BIO-ENGINEERING
DEPARTMENT OF BIO MEDICAL ENGINEERING
VALUE ADDED COURSE
COURSE ON NEUROSCIENCE OF HUMAN MOVEMENTS (2019-2020)

Students Name List

S.NO	REG.NO	NAME	RESULT ANALYSIS
1.	U17BM002	Keerthana N	A
2.	U17BM003	Raabiya Shareef A	A
3.	U17BM004	Karthika S	S
4.	U17BM005	Suprava Paul	A
5.	U17BM006	Kartic S	S
6.	U17BM008	Sorakayapeta R Manjusri	S
7.	U17BM009	Jeevaraj S	A
8.	U17BM010	B Karthikeyan	S
9.	U17BM011	V Varatharajan	S
10.	U17BM012	Vinodhini S	S
11.	U17BM013	Naveen Kumar M	S
12.	U17BM014	Dinesh Kumar R	S
13.	U17BM015	Mathankumar G K	A
14.	U17BM016	Ignatius Arun Sinjin G	S
15.	U17BM017	Debabrata Bandyopadhyay	A
16.	U17BM058	Rajalaxmi Mallick	A
17.	U17BM059	Shaik Afnan Ali	S
18.	U17BM060	Rajulapati Bhargavi	A
19.	U17BM061	Duddela Bharathi	S

20.	U17BM062	Rayala Pavan	S
21.	U17BM064	Jerin Judery D S	A
22.	U17BM065	Ambati Anitha	S
23.	U17BM066	NARMADHA E S	A
24.	U17BM067	VINCY SHAMLEY EBEN V	S
25.	U17BM068	THEVAR KALAYARASI SENTH	A
26.	U17BM069	ASHOK S	S
27.	U17BM070	CHINTHAPANTI PRANEETHA	A
28.	U17BT004	JEEVITHA S	S
29.	U17BT005	PALOJU DHARANI	S
30.	U17BT006	K KARAN	S
31	U17BT007	NIVEDHITHA T	S
32	U17BT009	JOTHI ILAVARASAN	S
33	U17BT010	AISHWARYA R	S
34	U17BT012	NAGAREDDY PRANEETH REDDY	S
35	U17BT013	MUTHYALA RAMYA	S
36	U17BT015	TOTTARAMUDI JABILI	S
37	U17BR004	PREETHI P	S
38	U17BR005	PRIYADARSHENEE R	A
39	U17BR006	SONIYA M	A
40	U17BR007	JARIS J	A

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH
SCHOOL OF BIO-ENGINEERING
DEPARTMENT OF BIO MEDICAL ENGINEERING
VALUE ADDED COURSE
COURSE ON NEUROSCIENCE OF HUMAN MOVEMENTS (2019-2020)

Students Name List

S.NO	REG.NO	NAME	RESULT ANALYSIS
1.	U17BM002	Keerthana N	4.5
2.	U17BM003	Raabiya Shareef A	4.8
3.	U17BM004	Karthika S	4.3
4.	U17BM005	Suprava Paul	4
5.	U17BM006	Kartic S	4.2
6.	U17BM008	Sorakayapeta R Manjusri	4.5
7.	U17BM009	Jeevaraj S	4.6
8.	U17BM010	B Karthikeyan	4.8
9.	U17BM011	V Varatharajan	4.9
10.	U17BM012	Vinodhini S	4.3
11.	U17BM013	Naveen Kumar M	4.2
12.	U17BM014	Dinesh Kumar R	4.5
13.	U17BM015	Mathankumar G K	4.1
14.	U17BM016	Ignatius Arun Sinjin G	4.9
15.	U17BM017	Debabrata Bandyopadhyay	4.8
16.	U17BM058	Rajalaxmi Mallick	4.7
17.	U17BM059	Shaik Afnan Ali	4.6
18.	U17BM060	Rajulapati Bhargavi	4.5
19.	U17BM061	Duddela Bharathi	4.6

20.	U17BM062	Rayala Pavan	4.5
21.	U17BM064	Jerin Judery D S	4
22.	U17BM065	Ambati Anitha	4.1
23.	U17BM066	NARMADHA E S	4.2
24.	U17BM067	VINCY SHAMLEY EBEN V	4.3
25.	U17BM068	THEVAR KALAYARASI SENTH	4
26.	U17BM069	ASHOK S	4.1
27.	U17BM070	CHINTHAPANTI PRANEETHA	4.3
28.	U17BT004	JEEVITHA S	4.2
29.	U17BT005	PALOJU DHARANI	4.1
30.	U17BT006	K KARAN	4.8
31.	U17BT007	NIVEDHITHA T	4.6
32.	U17BT009	JOTHI ILAVARASAN	4.6
33.	U17BT010	AISHWARYA R	4.5
34.	U17BT012	NAGAREDDY PRANEETH REDDY	4
35.	U17BT013	MUTHYALA RAMYA	4.5
36.	U17BT015	TOTTARAMUDI JABILI	4.2
37.	U17BR004	PREETHI P	4.3
38.	U17BR005	PRIYADARSHENEE R	4.6
39.	U17BR006	SONIYA M	4.3
40.	U17BR007	JARIS J	4.2

Value Added Course On Neuroscience Of Human Movements – 7.11.2019





Bharath

INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as DEEMED-TO-BE-UNIVERSITY u/s 3 of the UGC Act, 1956)



SCHOOL OF BIOENGINEERING

VALUE ADDED COURSE ON NEUROSCIENCE OF HUMAN MOVEMENTS

Certificate

This is to certify that Mr /Ms **Keerthana N** has attended three weeks value added course on **NEUROSCIENCE OF HUMAN MOVEMENTS** conducted by Department of Biomedical Engineering at Bharath Institute of Higher Education and Research, Chennai (TN), India during 30th October-14th November , 2019.


HOD


DEAN

From

Chennai

The Head

29-08-2019

Dept. of Biomedical Engineering

BIHER

To

The Dean

BIHER

Respected Sir

Sub: approval to start a value added course on **“RESIDENCY PROGRAM IN BINOCULAR VISION AND VISION THERAPY”** -reg

It has been planned by the Dept. of Biomedical Engineering to start a Value Added Course on **“RESIDENCY PROGRAM IN BINOCULAR VISION AND VISION THERAPY”** for the B-Tech Biomedical Engineering, Industrial Biotechnology and Genetic Engineering students from 16th September, 2019. The duration of the course is 30 hrs comprising of theory. I request you to kindly approve of the same.

Thanking you

Yours sincerely

A handwritten signature in blue ink, appearing to read 'Anand', is written below the text 'Yours sincerely'.



BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

Date: 30-08-2019

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 **RESIDENCY PROGRAM IN BINOCULAR VISION AND VISION THERAPY** from 16/09/2019 for a period of 3 weeks. Interested students can approach Dr. Vasukidevi R, Associate Professor and Course Coordinator, Department of Bio Medical Engineering for registration and for further details on or before 14th September 2019.

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 RESIDENCY PROGRAM IN BINOCULAR VISION AND
VISION THERAPY**

2019-2020

COURSE CO-ORDINATOR DETAILS

Faculty Name: Dr.Vasukidevi R,

Associate Professor,

Department of Bio Medical Engineering.

Email ID: vasukidevir.bme@bharathuniv.ac.in

Mobile number: 95660 75312.

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH
SCHOOL OF BIO-ENGINEERING
DEPARTMENT OF BIO MEDICAL ENGINEERING
VALUE ADDED COURSE SYLLABUS
2019-2020

Value added course code	Residency Program In Binocular Vision And Vision Therapy	L	T	P	C
	Total Contact Hours – 30	3	0	0	3
	Prerequisite – Human Anatomy and Physiology				

OBJECTIVES

- To review basic refraction techniques including over fogging procedures.
- To learn the basic Binocular Vision (BV) assessments and nuances in diagnosing the BV anomalies
- To plan for Vision Therapy protocols for the BV conditions.

MODULE 1. Strabismus:

Early Refractive Development- Visually Guided control of Refractive State: Animal Studies- Infant Accommodation and Convergence

MODULE 2. Amblyopia

Conjugate Eye Movements of Infants-Development of the Vestibuloocular and Optokinetic reflexes

MODULE 3. Eye movements:

Front-end Limitations to Infant Spatial vision: Examination of two analyses-Development of the Human Visual Field- Development of Scotopic Retinal Sensitivity-Infant Color vision- Orientation and Motion selective Mechanisms in Infants-Intrinsic Noise and Infant performance

MODULE 4. Sensory and Motor evaluation:

Development of interocular vision in Infants- Stereopsis in Infants and its developmental relation to visual acuity-Sensorimotor Adaptation and Development of the Horopter-Two stages in the development of Binocular Vision and Eye Alignment

MODULE 5. Diagnosis

TEXT/ REFERENCE BOOKS

1. Scheiman M, Wick B. Clinical Management of Binocular Vision – Heterophoric, Accommodative, and eye movement disorders, 2nd edition.
Philadelphia :Lippincott Williams & Wilkins, 2002.
2. Philadelphia :Lippincott Williams & Wilkins, 2002.
3. Press L J. Applied Concepts in Vision Therapy. St. Louis: Mosby, 1997.

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

COURSE ON RESIDENCY PROGRAM IN BINOCULAR VISION AND VISION THERAPY (2019-2020)

Session	Topic	Date	Duration (Hr)	Resource person
Session I	Strabismus	16.09.2019	4	Dr.R.Vasukidevi
Session II	Strabismus	17.09.2019	4	Dr.R.Vasukidevi
Session III	Amblyopia	17.09.2019	3	Ms.S.Geetha
Session IV	Amblyopia	23.09.2019	4	Dr.Emerson Solomon
Session V	Eye movements	24.09.2019	4	Dr.R.Vasukidevi
Session VI	Accommodation & Vergence interactions	24.09.2019	3	Dr.R.Vasukidevi
Session VII	Sensory and Motor evaluation	30.9.2019	4	Dr.Emerson Solomon
Session VIII	Diagnosis of accommodative, Vergence and oculomotor anomalies	01.10.2019	4	Dr.Emerson Solomon
Session IX	Diagnosis of accommodative, Vergence and oculomotor anomalies	01.10.2019	3	Ms.S.Geetha

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**SCHOOL OF BIO-ENGINEERING****DEPARTMENT OF BIO MEDICAL ENGINEERING****VALUE ADDED COURSE TIMETABLE****2019-2020**

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	RBVT				L U N C H B R E A K			
TUE	RBVT					RBVT		
WED								
THU								
FRI								
SAT								

SUBJECT CODE	SUBJECT NAME	STAFF
Theory		
Value added course	Residency Program In Binocular Vision And Vision Therapy (RBVT)	Dr.Vasukidevi R
	Room No	SK504

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**SCHOOL OF BIO-ENGINEERING****DEPARTMENT OF BIO MEDICAL ENGINEERING****VALUE ADDED COURSE****COURSE ON RESIDENCY PROGRAM IN BINOCULAR VISION AND VISION THERAPY (2019-2020)****Students Name List**

S.NO	REG.NO	NAME	SEM/ YEAR	DEPART MENT
1.	U17BM026	Bharkavi M S	V/III	BME
2.	U17BM028	Sheeba Alexia B	V/III	BME
3.	U17BM029	Jeeva G	V/III	BME
4.	U17BM030	Swedha S	V/III	BME
5.	U17BM031	Loka Ranjani E	V/III	BME
6.	U17BM032	Pooja B	V/III	BME
7.	U17BM033	Varsha M	V/III	BME
8.	U17BM034	Avula Arun Kumar	V/III	BME
9.	U17BM036	Lokesh M	V/III	BME
10.	U17BM037	Medivemulla Chenna Reddy	V/III	BME
11.	U17BM106	RAMANAN R	V/III	BME
12.	U17BM107	TAPALSHAIK FHAZUL RAHMA	V/III	BME
13.	U17BM109	CHEEKATIPALLI LEENA	V/III	BME
14.	U17BM110	BUCHAGARI KAVYA	V/III	BME
15.	U17BM113	G VEENA	V/III	IBT
16.	U17BT022	SOLENSKA MANOJ KUMAR	V/III	IBT
17.	U17BT023	KANCHA SIDHARTHA KUMAR	V/III	IBT
18.	U17BT024	GATTUPALLI VENKATA CHAI	V/III	IBT
19.	U17BT026	MADHAN KUMAR S	V/III	IBT

20.	U17BT027	KATA VEERA SUDARSAN	V/III	IBT
21.	U17BT029	A S MOHAN KRISHNA	V/III	IBT
22.	U17BT030	MALLIGA V	V/III	IBT
23.	U17BR009	HEMAMBUJAM D	V/III	BR
24.	U17BR010	MOHANED SHAIBI K M	V/III	BR
25.	U17BR011	VIJAYASRI T	V/III	BR
26.	U17BR012	EVANGELINE SELES J L	V/III	BR
27.	U17BR013	SAHANA SHREE S	V/III	BR
28.	U17BR014	JEEVANANTHAM N	V/III	BR
29.	U17BR015	THAMARAI ARASI R	V/III	BR
30.	U17BR016	NAVEEN KUMAR K	V/III	BR

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH**SCHOOL OF BIO-ENGINEERING****DEPARTMENT OF BIO MEDICAL ENGINEERING****VALUE ADDED COURSE****COURSE ON RESIDENCY PROGRAM IN BINOCULAR VISION AND VISION THERAPY (2019-2020)****Students Name List**

S.NO	REG.NO	NAME	RESULT ANALYSIS
1.	U17BM026	Bharkavi M S	A
2.	U17BM028	Sheeba Alexia B	A
3.	U17BM029	Jeeva G	S
4.	U17BM030	Swedha S	A
5.	U17BM031	Loka Ranjani E	S
6.	U17BM032	Pooja B	S
7.	U17BM033	Varsha M	A
8.	U17BM034	Avula Arun Kumar	S
9.	U17BM036	Lokesh M	S
10.	U17BM037	Medivemulla Chenna Reddy	S
11.	U17BM106	RAMANAN R	S
12.	U17BM107	TAPALSHAIK FHAZUL RAHMA	S
13.	U17BM109	CHEEKATIPALLI LEENA	A
14.	U17BM110	BUCHAGARI KAVYA	S
15.	U17BM113	G VEENA	A
16.	U17BT022	SOLENSKA MANOJ KUMAR	A
17.	U17BT023	KANCHA SIDHARTHA KUMAR	S
18.	U17BT024	GATTUPALLI VENKATA CHAI	A
19.	U17BT026	MADHAN KUMAR S	S

20.	U17BT027	KATA VEERA SUDARSAN	S
21.	U17BT029	A S MOHAN KRISHNA	A
22.	U17BT030	MALLIGA V	S
23.	U17BR009	HEMAMBUJAM D	A
24.	U17BR010	MOHANED SHAIBI K M	S
25.	U17BR011	VIJAYASRI T	A
26.	U17BR012	EVANGELINE SELES J L	S
27.	U17BR013	SAHANA SHREE S	A
28.	U17BR014	JEEVANANTHAM N	S
29.	U17BR015	THAMARAI ARASI R	S
30.	U17BR016	NAVEEN KUMAR K	S

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH
SCHOOL OF BIO-ENGINEERING
DEPARTMENT OF BIO MEDICAL ENGINEERING
VALUE ADDED COURSE
COURSE ON RESIDENCY PROGRAM IN BINOCULAR VISION AND VISION THERAPY (2019-2020)

Students Name List

S.NO	REG.NO	NAME	RESULT ANALYSIS
1.	U17BM026	Bharkavi M S	4.5
2.	U17BM028	Sheeba Alexia B	4.8
3.	U17BM029	Jeeva G	4.3
4.	U17BM030	Swedha S	4
5.	U17BM031	Loka Ranjani E	4.2
6.	U17BM032	Pooja B	4.5
7.	U17BM033	Varsha M	4.6
8.	U17BM034	Avula Arun Kumar	4.8
9.	U17BM036	Lokesh M	4.9
10.	U17BM037	Medivemulla Chenna Reddy	4.3
11.	U17BM106	RAMANAN R	4.2
12.	U17BM107	TAPALSHAIK FHAZUL RAHMA	4.5
13.	U17BM109	CHEEKATIPALLI LEENA	4.1
14.	U17BM110	BUCHAGARI KAVYA	4.9
15.	U17BM113	G VEENA	4.8
16.	U17BT022	SOLENSKA MANOJ KUMAR	4.7
17.	U17BT023	KANCHA SIDHARTHA KUMAR	4.6
18.	U17BT024	GATTUPALLI VENKATA CHAI	4.5
19.	U17BT026	MADHAN KUMAR S	4.6

20.	U17BT027	KATA VEERA SUDARSAN	4.5
21.	U17BT029	A S MOHAN KRISHNA	4
22.	U17BT030	MALLIGA V	4.1
23.	U17BR009	HEMAMBUJAM D	4.2
24.	U17BR010	MOHANED SHAIBI K M	4.3
25.	U17BR011	VIJAYASRI T	4
26.	U17BR012	EVANGELINE SELES J L	4.1
27.	U17BR013	SAHANA SHREE S	4.3
28.	U17BR014	JEEVANANTHAM N	4.2
29.	U17BR015	THAMARAI ARASI R	4.1
30.	U17BR016	NAVEEN KUMAR K	4.8

COURSE ON RESIDENCY PROGRAM IN BINOCULAR VISION AND VISION THERAPY -24.9.2019





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SCHOOL OF BIOENGINEERING
VALUE ADDED COURSE ON RESIDENCY PROGRAM IN BINOCULAR VISION
AND VISION THERAPY

Certificate

This is to certify that Mr /Ms **Ramanan R** has attended three weeks value added course on **RESIDENCY PROGRAM IN BINOCULAR VISION AND VISION THERAPY** conducted by Department of Biomedical Engineering at Bharath Institute of Higher Education and Research, Chennai (TN), India during 16th Sept -01st Oct 2019.


HOD


DEAN

From

The Head of the Department

Department of Biomedical Engineering

BIHER

Chennai

27-12-2019

To

The Dean

BIHER

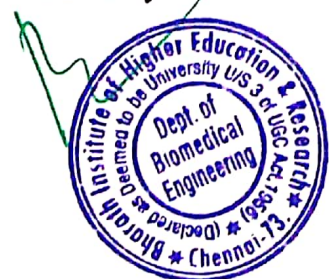
Respected Sir

Sub: Approval to conduct a “Short term course on Nanotechnology Medicine” -reg

It has been planned by the Department of Biomedical Engineering to start a “Short term course on Nanotechnology Medicine” for the benefit of B.Tech Biomedical Engineering, B.Tech Industrial Biotechnology and B-Tech Genetic Engineering students from 27th January, 2020. The duration of the course is 30 hrs comprising of both theory and practical classes. I request you to kindly approve for the same.

Thanking you

Yours sincerely





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BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

Date: 03-01-2020

**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 "Short term course on Nanotechnology Medicine" from 27/01/2020 for a period of 3 weeks. Interested students can approach Mr. S. Prasath, Assistant Professor and Course Coordinator, Department of Bio Medical Engineering, for registration and further details on or before 24th January 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

SHORT TERM COURSE ON NANOTECHNOLOGY MEDICINE

2019-2020

COURSE CO-ORDINATOR DETAILS

Faculty Name: Mr. S. Prasath,

Assistant Professor,

Department of Bio Medical Engineering.

Email ID: mail.surendhar@gmail.com

Mobile number: 87545 81937

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

SCHOOL OF BIO-ENGINEERING

DEPARTMENT OF BIO MEDICAL ENGINEERING

2019-2020

VALUE ADDED COURSE SYLLABUS

SHORT TERM COURSE ON NANOTECHNOLOGY MEDICINE

MODULE 1

Introduction to nano, Nano-biomimicry, Synthesis of nanomaterials by physical and chemical methods, Synthesis of nanomaterials by biological methods, Characterisation of nanomaterials.

MODULE 2

Nanomaterials for cancer diagnosis, Nanomaterials for cancer therapy, Nanotechnology in tissue engineering, Nano artificial cells, Nanotechnology in organ printing.

MODULE 3

Nanotechnology in point-of-care diagnostics, Nanopharmacology & drug targeting, Cellular uptake mechanisms of nanomaterials, In vitro methods to study antibacterial and anticancer properties of nanomaterials, Nanotoxicology

Total Contact Hour: 30

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

Short term course on Nanotechnology Medicine

Session	Topic	Date	Duration (Hr)	Resource person
Session I	Introduction to nano, Nano-biomimicry.	27.01.2020	4	Mr.S.Prasath
Session II	Synthesis of nanomaterials by physical and chemical methods, Synthesis of nanomaterials by biological methods	28.01.2020	3	Mr.S.Prasath
Session III	Characterisation of nanomaterials	29.01.2020	3	Mr.S.Prasath
Session IV	Nanomaterials for cancer diagnosis, Nanomaterials for cancer therapy.	03.02.2020	4	Ms. S. Geetha
Session V	Nanotechnology in tissue engineering	04.02.2020	3	Ms. S. Geetha
Session VI	Nano artificial cells, Nanotechnology in organ printing.	05.02.2020	3	Ms. S. Geetha
Session VII	Nanotechnology in point-of-care diagnostics, Nanopharmacology	10.02.2020	4	Dr. F. Emerson Solomon
Session VIII	Cellular uptake mechanisms of nanomaterials, In vitro methods to study antibacterial and anticancer properties of nanomaterials.	11.02.2020	3	Dr. F. Emerson Solomon
Session IX	Nanotoxicology	12.02.2020	3	Dr. F. Emerson Solomon

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH
SCHOOL OF BIO-ENGINEERING
DEPARTMENT OF BIO MEDICAL ENGINEERING
VALUE ADDED COURSE
Short term course on Nanotechnology Medicine
STUDENTS NAME LIST

S.NO	REG.NO	NAME
1.	U16BM006	Siva Harish S
2.	U16BM012	Ashini I S
3.	U16BM019	Ajeesh S P
4.	U16BM025	Kudugunta Achyutha Reddy
5.	U16BM029	Mulagada Nikshiptha
6.	U16BM035	Vijay Kumar P
7.	U16BM042	Kalleapadam Akshay Das
8.	U16BM050	Karanam Kavya
9.	U16BM054	Rakhi Dash
10.	U16BM060	Divi Divya Sree
11.	U16BM067	Ajitha .K
12.	U16BM074	Shouvik Poddar
13.	U16BM081	Pravallika B
14.	U17BM005	Suprava Paul
15.	U17BM006	Kartic S
16.	U17BM007	Divine Winfred W
17.	U17BM015	Mathankumar G K
18.	U17BM019	Kalyaneswar Mishra
19.	U17BM024	Afreen Banu A
20.	U17BM030	Swedha S
21.	U17BM037	Medivemulla Chenna Reddy
22.	U17BM041	Kottinti Swati
23.	U17BM050	Madhav P
24.	U17BM056	Kusampudi Likhita Supraja
25.	U17BM064	Jerin Judery D S
26.	U17BM075	Rahul K
27.	U17BM083	Fathima K
28.	U17BM091	Jency C
29.	U17BM098	Karthik B
30.	U17BM103	Vijay shankar Tiwary.S
31.	U17BM107	Tapalshaik Fhazul Rahman
32.	U17BM115	Jayasree S
33.	U17BM121	Hariharan S
34.	U17BM127	Marigari Hemalatha
35.	U17BM132	Kudikala Vani
36.	U18BM004	Selvaganapathy V
37.	U18BM005	Paveesh M
38.	U18BM018	Yushaaq Hussain Z

39	U18BM023	Siddavatam Mounika
40	U18BM027	Bhavani M
41	U18BM031	Jajula Prahnitha
42	U18BM035	Jonnagadla Harika
43	U18BM043	Gottiparthi Vaishnavi
44	U18BM056	P Haritha
45	U18BM066	Vykuntam Chandini .
46	U18BM069	Mandem Sumanasree
47	U18BM070	Srikanth M
48	U18BM071	Basode Veeranna
49	U17BM120	Arun K
50	U17BM130	Thagirisapu Venu Bhargavi

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

Short term course on Nanotechnology Medicine
Students Result

S.NO	REG.NO	NAME	RESULT
1.	U16BM006	Siva Harish S	S
2.	U16BM012	Ashini I S	A
3.	U16BM019	Ajeesh S P	A
4.	U16BM025	Kudugunta Achyutha Reddy	A
5.	U16BM029	Mulagada Nikshiptha	S
6.	U16BM035	Vijay Kumar P	S
7.	U16BM042	Kalleapadam Akshay Das	A
8.	U16BM050	Karanam Kavya	S
9.	U16BM054	Rakhi Dash	A
10.	U16BM060	Divi Divya Sree	S
11.	U16BM067	Ajitha .K	A
12.	U16BM074	Shouvik Poddar	S
13.	U16BM081	Pravallika B	A
14.	U17BM005	Suprava Paul	S
15.	U17BM006	Kartic S	A
16.	U17BM007	Divine Winfred W	S
17.	U17BM015	Mathankumar G K	A
18.	U17BM019	Kalyaneswar Mishra	S
19.	U17BM024	Afreen Banu A	A
20.	U17BM030	Swedha S	S
21.	U17BM037	Medivemulla Chenna Reddy	A
22.	U17BM041	Kottinti Swati	S
23.	U17BM050	Madhav P	A
24.	U17BM056	Kusampudi Likhita Supraja	S
25.	U17BM064	Jerin Judery D S	S
26.	U17BM075	Rahul K	A
27.	U17BM083	Fathima K	S
28.	U17BM091	Jency C	A
29.	U17BM098	Karthik B	A
30.	U17BM103	Vijay shankar Tiwary.S	S
31.	U17BM107	Tapalshaik Fhazul Rahman	S
32.	U17BM115	Jayasree S	A
33.	U17BM121	Hariharan S	S
34.	U17BM127	Marigari Hemalatha	A
35.	U17BM132	Kudikala Vani	S
36.	U18BM004	Selvaganapathy V	S
37.	U18BM005	Paveesh M	S
38.	U18BM018	Yushaaq Hussain Z	A
39.	U18BM023	Siddavatam Mounika	S

40	U18BM027	Bhavani M	A
41	U18BM031	Jajula Prahnitha	S
42	U18BM035	Jonnagadla Harika	S
43	U18BM043	Gottiparthi Vaishnavi	S
44	U18BM056	P Haritha	S
45	U18BM066	Vykuntam Chandini .	S
46	U18BM069	Mandem Sumanasree	A
47	U18BM070	Srikanth M	S
48	U18BM071	Basode Veeranna	S
49	U17BM120	Arun K	A
50	U17BM130	Thagirisapu Venu Bhargavi	S

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SCHOOL OF BIOENGINEERING
DEPARTMENT OF BIOMEDICAL ENGINEERING

Name : SIVA HARISH . S


Register Number : U16BM006

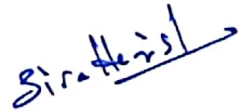
Academic year: 2019 - 2020

Name of the course offered : SHORT TERM COURSE ON NANOTECHNOLOGY MEDICINE

Student Feedback

S.No	Criteria	Rating				
		Excellent	Very Good	Good	Fair	Satisfactory
1	Course content	✓				
2	Skill development		✓			
3	Motivation	✓				
4	Regularity of the faculty	✓				
5	Coverage of the syllabus		✓			
6	Resourse person interaction with students	✓				
7	Outcome		✓			
8	Individual Attention	✓				


 Signature of the Course co-ordinator


 Signature of the Student

BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

SCHOOL OF BIOENGINEERING

DEPARTMENT OF BIOMEDICAL ENGINEERING

Name : M. Paveesh

Register Number : U18Bm005

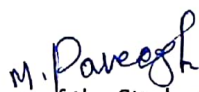
Academic year: 2019-2020

Name of the course offered : Short term Course on Nanotechnology medicine

Student Feedback

S.No	Criteria	Rating				
		Excellent	Very Good	Good	Fair	Satisfactory
1	Course content	✓				
2	Skill development	✓				
3	Motivation		✓			
4	Regularity of the faculty	✓				
5	Coverage of the syllabus		✓			
6	Resource person interaction with students	✓				
7	Outcome	✓				
8	Individual Attention		✓			


Signature of the Course co-ordinator


Signature of the Student



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DEPARTMENT OF BIOMEDICAL ENGINEERING
CERTIFICATE OF PARTICIPATION

This is to certify that Mr/Ms/Mrs/Dr Mulagada Nikshiptha

*has completed the value added course on "Short term course on Nanotechnology
Medicine" organized by the Department of Biomedical Engineering, Bharath
Institute of Higher Education and Research, Chennai (TN), India during 27th
January to 12th February, 2020.*

Co-ordinator
Mr. S. Prasath

Convenor
Dr. R. Vasuki