

From

Chennai

The Head of the Department

12-02-2020

Department of Biomedical Engineering

BIHER

To

The Dean

BIHER

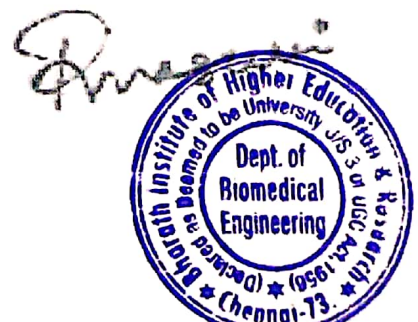
Respected Sir

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

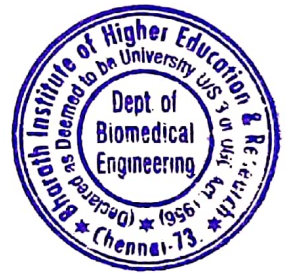
Pro Vice Chancellor

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

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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

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SCHOOL OF BIOENGINEERING
DEPARTMENT OF BIOMEDICAL ENGINEERING

Name: ANSAL VS

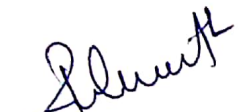
Register Number: U18BT010

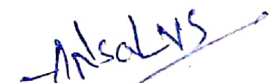
Academic year: 2019-2020

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



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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