From

Chennai

The Head

12-09-2018

Department of Biomedical Engineering

**BIHER** 

To

The Dean

**BIHER** 

Respected Sir

Sub: requesting Approval to start a value added course on "Introduction to Bioinformatics" -reg

It has been planned by the Department of Biomedical Engineering to start a Value Added Course on "Introduction to Bioinformatics" for the Students of the B.Tech - Genetic Engineering, Industrial Biotechnology, and Biomedical Engineering from 25<sup>th</sup> Sep 2018. The duration of the course is 30 hrs .Hence I request your Kind approval to conduct the Value added course.

Thanking you

Yours sincerely



# BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

Date: 15-09-2018

HOD

# 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 BIO INFORMATICS** from 10/10/2018 for a period of 3 weeks. Interested students can approach Emerson Solomon F., Professor and Course Coordinator, Department of Bio Medical Engineering for registration and for further details on or before 08<sup>th</sup> October 2018.

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

# DEPARTMENT OF BIO MEDICAL ENGINEERING VALUE ADDED COURSE ON INTRODUCTION TO BIO INFORMATICS

2018-2019

# COURSE CO-ORDINATOR DETAILS

Faculty Name: Emerson Solomon F,

Professor,

Department of Bio Medical Engineering.

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

Mobile number: 9566070703

# DEPARTMENT OF BIO MEDICAL ENGINEERING

# VALUE ADDED COURSE TIMETABLE

# 2018-2019

Days / Period	I 9.00 - 9.50	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								
TUE					AK			
WED					H BREA		IBI	
THU					NCH		IBI	
FRI		IB	Ī		LUN			
SAT								

SUBJECT CODE	SUBJECT NAME	STAFF
Theory		
Value added course	Introduction To Bio Informatics $(\mathrm{IBI})$	Dr.Emerson Solomon F
	Room No	SK505

# DEPARTMENT OF BIO MEDICAL ENGINEERING VALUE ADDED COURSE SYLLABUS

# 2018-2019

		L	T	P	C
	COURSE ON INTRODUCTION TO BIO				
Value added	INFORMATICS				
course code	Total Contact Hours - 30	3	0	0	3
	Prerequisite - Cell Biology, Principles of Genetics, M	icroBiol	ogy		

## **OBJECTIVES**

- 1 To understand Basic Bioinformatics
- 2 To know about Structural databases of Proteins.
- 3 To Apply Computer aided tools for data reterival.

## UNIT I: INTRODUCTION TO BIOINFORMATICS

6

Biology is an information science, History of Bioinformatics, Types of data, Application areas: Introduction to upcoming segments, NCBI & EBI resources for the molecular domain of bioinformatics, Focus on GenBank, UniProt, Entrez and Gene Ontology.

## UNIT II: SEQUENCE ALIGNMENT

6

DNA and Protein Database Searching, Protein structure comparisons, PSI-BLAST, Structural genomics.

## UNIT III: DATA STORAGE AND RETRIEVAL AND INTEROPERABILITY

Flat files, relational, object oriented databases and controlled vocabularies. File Format (Genbank, DDBJ, FASTA, PDB, SwissProt). Introduction to Metadata and search; Indices, Boolean, Fuzzy, Neighboringsearch. The challenges of data exchange and integration.

### MODULE IV: GENES AND DISEASES

Human examples, 23&Me, Patients Like Me, SNP arrays and beyond, Genomics and human health, The promise and potential of shifting medicine from a reactive practice of treating symptoms and diseases, to one where disease risk is diagnosed early or even managed prior to onset.

### MODULE V: THE FUTURE OF BIOINFORMATICS

6

Applications of bioinformatics to translational medicine and the social impacts and ethical implications of how genomic sequence information is used in society

## **Total Contact Hours: 30**

### TEXT BOOKS

- 1. Introduction to BioInformatics Arthur.M.Lesk
- 2. Bio Informatics A Practical Guide to Analysis of Genes and Proteins 3<sup>rd</sup> Edition –Andreas D Baxevanis, B.Francis Quellette

## REFERENCE BOOKS

- 1. Bio Informatics Principles and Applications Zhumur Ghosh
- 2. Bio Informatics Computing Bryanbergeron.M.D

## SCHOOL OF BIO-ENGINEERING

# DEPARTMENT OF BIO MEDICAL ENGINEERING

## VALUE ADDED COURSE

COURSE ON INTRODUCTION TO BIO INFORMATICS (2018-2019)

Session	Topic	Date	Duration (Hr)	Resource person
Session I	INTRODUCTION TO BIOINFORMATICS	10.10.2018	3	Mrs.Geetha S
Session II	INTRODUCTION TO BIOINFORMATICS	11.10.2018	3	Dr.R.Vasukidevi
Session III	SEQUENCE ALIGNMENT	12.10.2018	4	Dr.F.Emerson Solomon
Session IV	SEQUENCE ALIGNMENT	17.10.2018	3	Mr.S.Prasath
Session V	DATA STORAGE AND RETRIEVAL AND INTEROPERABILITY	18.10.2018	3	Dr.F.Emerson Solomon
Session VI	DATA STORAGE AND RETRIEVAL AND INTEROPERABILITY	19.10.2018	4	Dr.R.Vasukidevi
Session VII	GENES AND DISEASES	24.10.2018	3	Dr.F.Emerson Solomon
Session VIII	GENES AND DISEASES	25.10.2018	3	Mr.S.Prasath
Session IX	THE FUTURE OF BIOINFORMATICS	26.10.2018	4	Ms.S.Geetha

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

VALUE ADDED COURSE COURSE ON INTRODUCTION TO BIO INFORMATICS (2018-2019)

ChapName COURSE ON INTRODUCTION TO	Name	Sno
Topic	Sub Topic	Duration
UNIT I: INTRODUCTION TO BIOINFORMATICS	Biology is an information science	1 hour
UNIT I: INTRODUCTION TO BIOINFORMATICS	History of Bioinformatics	1 hour
UNIT 1: INTRODUCTION TO BIOINFORMATICS	Types of data	1 hour
	Application areas: Introduction to upcoming	
UNIT I: INTRODUCTION TO BIOINFORMATICS	segments	1 hour
	NCBI & EBI resources for the molecular	1 11041
UNIT I: INTRODUCTION TO BIOINFORMATICS	domain of bioinformatics	1 hour
	Focus on GenBank, UniProt, Entrez and	
UNIT I: INTRODUCTION TO BIOINFORMATICS	Gene Ontology	1 hour
UNIT II: SEQUENCE ALIGNMENT	DNA and Protein Database Searching	1 hour
UNIT II: SEQUENCE ALIGNMENT	DNA and Protein Database Searching	1 hour
UNIT II: SEQUENCE ALIGNMENT	Protein structure comparisons	1 hour
UNIT II: SEQUENCE ALIGNMENT	Protein structure comparisons	1 hour
UNIT II: SEQUENCE ALIGNMENT	PSI-BLAST	1 hour
UNIT II: SEQUENCE ALIGNMENT	Structural genomics	1 hour
UNIT III: DATA STORAGE AND RETRIEVAL AND	Flat files, relational, object oriented	1 Hou
INTEROPERABILITY	databases and controlled vocabularies	1 hour
UNIT III: DATA STORAGE AND RETRIEVAL AND	File Format (Genbank, DDBJ, FASTA,	1 Hour
INTEROPERABILITY		1 hour
INTEROPERABILITY	PDB, SwissProt	1 nour
HAUT HE DATA STORAGE AND DETRIEVAL AND	La La Cara Marta de la la	
UNIT III: DATA STORAGE AND RETRIEVAL AND	Introduction to Metadata and search;	
INTEROPERABILITY	Indices, Boolean, Fuzzy, Neighboringsearch	1 hour
LINE III D. T. CTOD. OF THE DETERMINE THE		
UNIT III: DATA STORAGE AND RETRIEVAL AND	Introduction to Metadata and search;	
INTEROPERABILITY	Indices, Boolean, Fuzzy, Neighboringsearch	1 hour
UNIT III: DATA STORAGE AND RETRIEVAL AND	The challenges of data exchange and	
INTEROPERABILITY	integration	1 hour
UNIT III: DATA STORAGE AND RETRIEVAL AND	Ontologies, interchange languages and	
INTEROPERABILITY	standardization efforts	1 hour
LINET W. CONFIG AND DISCORD		
UNIT IV: GENES AND DISEASES	Human examples, 23&Me, PatientsLikeMe	1 hour
UNIT IV: GENES AND DISEASES	SNP arrays and beyond	1 hour
UNIT IV: GENES AND DISEASES	Genomics and human health	1 hour
UNIT IV: GENES AND DISEASES	Genomics and human health	1 hour
	The promise and potential of shifting	
	medicine from a reactive practice of treating	
UNIT IV: GENES AND DISEASES	symptoms and diseases	1 hour
	The promise and potential of shifting	
	medicine from a reactive practice of treating	
UNIT IV: GENES AND DISEASES	symptoms and diseases	1 hour
	Applications of bioinformatics to	
UNIT V:THE FUTURE OF BIOINFORMATICS	translational medicine	1 hour
	Applications of bioinformatics to	
UNIT V:THE FUTURE OF BIOINFORMATICS	translational medicine	1 hour
UNIT V:THE FUTURE OF BIOINFORMATICS	the social impacts and ethical implications	1 hour
UNIT V:THE FUTURE OF BIOINFORMATICS	the social impacts and ethical implications	1 hour
	genomic sequence information is used in	
UNIT V:THE FUTURE OF BIOINFORMATICS	society	1 hour
	genomic sequence information is used in	
UNIT V:THE FUTURE OF BIOINFORMATICS	society	I hour

# DEPARTMENT OF BIO MEDICAL ENGINEERING

## **VALUE ADDED COURSE**

# COURSE ON INTRODUCTION TO BIO INFORMATICS (2018-2019)

## **Students Name List**

S.NO	REG.NO	NAME	SEM/ YEAR	DEPART MENT
1.	U16BM003	Evangeline elakiya benedict E.D	V/III	BME
2.	U16BM004	Vinothraj.K	V/III	BME
3.	U16BM005	Paul harrison .J	V/III	BME
4.	U16BM006	Siva harish	V/III	BME
5.	U16BM008	Monisha.R	V/III	BME
6.	U16BM010	Subburam K.M	V/III	BME
7.	U16BM011	Pavithra.V	V/III	BME
8.	U16BM012	Ashini I.S	V/III	BME
9.	U16BM013	P.V.Jhansi kiran	V/III	BME
10.	U16BM014	Jayapreetha.M	V/III	BME
11.	U16BM015	Jeya barathi.S	V/III	BME
12.	U16BM016	Ajmeera aruna	V/III	BME
13.	U16BM017	Bysani anjani umeshi	V/III	BME
14.	U16BM018	Ajith kumar.P	V/III	BME
15.	U16BM021	Chryolyte precious rani.S	V/III	BME
16.	U16BT003	Sankar Singh.T	V/III	IBT
17.	U16BT004	Balaji	V/III	ÌBT
18.	U16BT005	Kadar Jassim MMS	V/III	IBT
19.	U16BT007	Vishal	V/III	IBT

20.	U16BT008	Bharath AK	V/III	IBT
21.	U16BT009	Karamy Aiphaba	V/III	IBT
22.	U16BT010	Poovarasan A	V/III	IBT
23.	U16BT012	Pinky Maibam	V/III	IBT
24.	U16BR022	UPAL JOSHI	V/III	BI
25.	U16BR023	VINODH KANNA K	V/III	BI
26.	U16BR025	HARINI B	V/III	BI
27.	U16BR026	RAMESH T	V/III	BI
28.	U16BR027	MUGUNDAN K	V/III	BI
29.	U16BR028	VISHNU S	V/III	BI
30.	U16BR029	KAMARAPU AMULYA	V/III	BI

# DEPARTMENT OF BIO MEDICAL ENGINEERING VALUE ADDED COURSE

# COURSE ON INTRODUCTION TO BIO INFORMATICS (2018-2019)

# **Students Name List**

S.NO	REG.NO	NAME	RESULT ANALYSIS
1.	U16BM003	Evangeline elakiya benedict E.D	
2.	U16BM004	Vinothraj.K	A
3.	U16BM005	Paul harrison .J	S
٥.	0108101003	Paul narrison .J	S
4.	U16BM006	Siva harish	A
5.	U16BM008	Monisha.R	S
6.	U16BM010	Subburam K.M	
7.	U16BM011	Pavithra.V	S
			A
8.	U16BM012	Ashini I.S	A
9.	U16BM013	P.V.Jhansi kiran	S
10.	U16BM014	Jayapreetha.M	S
11.	U16BM015	Jeya barathi.S	
12.	U16BM016	Ajmeera aruna	A
13.	U16BM017	Bysani anjani umeshi	A
			A
14.	U16BM018	Ajith kumar.P	
15.	U16BM021	Chryolyte precious rani.S	
16.	U16BT003	Sankar Singh.T	S
17.	1116DT004		S
17.	U16BT004	Balaji	S
18.	U16BT005	Kadar Jassim MMS	
19.	U16BT007	Vishal	S

			S
20.	U16BT008	Bharath AK	A
21.	U16BT009	Karamy Aiphaba	A
22.	U16BT010	Poovarasan A	A
23.	U16BT012	Pinky Maibam	A
24.	U16BR022	UPAL JOSHI	A
25.	U16BR023	VINODH KANNA K	В
26.	U16BR025	HARINI B	A
27.	U16BR026	RAMESH T	В
28.	U16BR027	MUGUNDAN K	A
29.	U16BR028	VISHNU S	
30.	U16BR029	KAMARAPU AMULYA	A S



# BHARATH INSTITUTE OF SCIENCE AND TECHNOLOGY SCHOOL OF BIO-ENGINEERING VALUE ADDED COURSE ON INTRODUCATION OF BIO INFORMATICS CERTIFICATE

This is to certify that Mr./Ms. Pavithra.V has attended three weeks Value Added Course on INTRODUCTION ON BIO INFORMATICS conducted by Department of Biomedical Engineering at Bharath Institute of Higher Education and Research, Chennai (TN), India during 10<sup>th</sup> October -26<sup>th</sup> October, 2018.

COORDINATOR

HØD

# Course Feedback Form

Course little: Introduction of Bio.	Typerratics	
Dates: 26-10-18	Venue: BME	
Please fill the short questionnaire to make the cou	irse better.	
Your background: Teaching in Engg./Arch./Diplo	oma Research Organisation	Industry
Your Highest Qualifications: Diploma/ Degree/ N	ME/ MTech/ PhD	
Please respond below with 1, 2, 3, 4 or 5, where 1		
	and 5 are explained.	
THE DESIGN OF THE COURSE	1	
A. Were objectives of the course clear to you?	$Y \supset N \square$	
B. The course contents met with your expectation	ns	
l. Strongly disagree	5. Strongly agree	5
C. The lecture sequence was well planned		
l. Strongly disagree	5. Strongly agree	5
D. The contents were illustrated with		
1. Too few examples	5. Adequate examples	5
E. The level of the course was		
I. Too low	5. Too high	3
F. The course contents compared with your expension		
1. Too theoretical	5. Too empirical	5
G. The course exposed you to new knowledge and		
1. Strongly disagree	5. Strongly agree	5
H. Will you recommend this course to your collea		5
1. Not at all	5. Very strongly	5
THE CONDUCT OF THE COURSE		
A. The lectures were clear and easy to understand		
1. Strongly disagree	5. Strongly agree	5
B. The teaching aids were effectively used		
<ol> <li>Strongly disagree</li> </ol>	5. Strongly agree	5
C. The course material handed out was adequate		
<ol> <li>Strongly disagree</li> </ol>	5. Strongly agree	5
D. The instructors encouraged interaction and wer	e helpful	
<ol> <li>Strongly disagree</li> </ol>	5. Strongly agree	5
E. Were objectives of the course realized? Y	/ N 🗌	

F.	Please give overall rating of the course		
	90% - 100% ( 80% - 90% ( 70% - 80% (	60% - 70% ( 50% - 60% ( below 50% (	)

Optional – Your name and contact address: Powithra V

Thank you!!

# Course Feedback Form

Dates: 2/ 10 18	o-Informatics	
Dates: 26-10-18	Venue: BHE	
Please fill the short questionnaire to make the cou-	rse better.	
Your background: Teaching in Engg./Arch./Diplor	ma Research Organisation	Industry
Your Highest Qualifications: Diploma/ Degree/ M		
Please respond below with 1, 2, 3, 4 or 5, where 1		
	and b are explained.	
THE DESIGN OF THE COURSE		
A. Were objectives of the course clear to you?	Y / N	
B. The course contents met with your expectation	S	
<ol> <li>Strongly disagree</li> </ol>	5. Strongly agree	5
C. The lecture sequence was well planned		
<ol> <li>Strongly disagree</li> </ol>	5. Strongly agree	5
D. The contents were illustrated with		
1. Too few examples	5. Adequate examples	5
E. The level of the course was		
1. Too low	5. Too high	5
F. The course contents compared with your expec	tations	
1. Too theoretical	5. Too empirical	5
G. The course exposed you to new knowledge and	practices	
<ol> <li>Strongly disagree</li> </ol>	5. Strongly agree	5
H. Will you recommend this course to your colleag	gues?	
1. Not at all	5. Very strongly	2
THE CONDUCT OF THE COURSE		
A. The lectures were clear and easy to understand		
Strongly disagree	5 Stuanal	S
B. The teaching aids were effectively used	5. Strongly agree	2
Strongly disagree	5 Strongly and	5
C. The course material handed out was adequate	5. Strongly agree	
Strongly disagree	5. Strongly agree	2
D. The instructors encouraged interaction and were	helpful	
1. Strongly disagree	5. Strongly agree	5
E. Were objectives of the course realized? Y $\square$ /	N \	

F. Please give overall rating of the	ne course		
90% - 1009 80% - 90% 70% - 80%		60% - 70% ( 50% - 60% ( below 50% (	)))

Optional - Your name and contact address: Virethraj K.

Thank you!!

From

Chennai

The Head

06-09-2018

Faculty of Bio-Engineering

BIHER

To

The Dean

BIHER

# Respected Sir

Sub: approval to start a value added course on "Microbial Inoculant Production Technology" -reg

It has been planned by the Faculty of BioEngineering to start a Value Added Course on "Microbial Inoculant Production Technology" for the benefit of B-Tech, Genetic Engineering, Industrial Biotechnology and Biomedical Engineering students from 4<sup>th</sup> October, 2018. 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

1



# BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

Date: 06.09.2018

# SCHOOL OF BIOENGINEERING

# **CIRCULAR**

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

The Department of Genetic Engineering, School of Bioengineering, is scheduled to offer a Value added Course on "Microbial Inoculant Production Technology" from 04/10/2018 for a period of 3 weeks. Interested students can approach Mr.A.Manikandan, Assistant Professor and Course Coordinator, Department of Genetic Engineering for registration and for further details on or before 1<sup>st</sup> October 2018.

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

Dr. P.B. RAMESH BABU, Ph.D.,

Professor and Head
Department of Genetic Engineering
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH
(Declared as Deemed to be University U/S 3 of UGC Act. 1959)
Chennai 600073 Tamil Nadu India

# DEPARTMENT OF GENETIC ENGINEERING

# VALUE ADDED COURSE ON MICROBIAL INOCULANT PRODUCTION TECHNOLOGY

# 2018-2019

# COURSE CO-ORDINATOR DETAILS

Faculty Name: Mr.A.Manikandan, Assistant Professor, Department of Genetic Engineering.

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

Mobile number: 78456 48898

Dang

# BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH SCHOOL OF BIO-ENGINEERING DEPARTMENT OF GENETIC ENGINEERING VALUE ADDED COURSE SYLLABUS 2018-2019

# Microbial Inoculant Production Technology

### **OBJECTIVES**

- 1. To make the students to understand concept and history of microbial inoculants
- 2. To study about the importance of bacterial Nitrogen fixers
- 3. To study about the Fungal Bioinoculants & 'P'Solubilizers and P-mobilizers.

# MODULE I: BACTERIAL BIOINOCULANTS

History of Bioinoculants, concepts— types of bioinoculants — Bacterial, Fungal, Algal and Actinorhizal. Nitrogen fixation — Biological nitrogen fixation— Importance of biofertilizers. Bacterial Nitrogen fixers, Characteristics and classification of Rhizobium, Azospirillum.

# MODULE II: FUNGAL AND ALGAL BIOINOCULANTS

Mycorrhizae and types- Mechanisms of 'P' mobilizers – AM Fungi characters- Algae and Azolla bioinoculants, Blue green algae and Azolla -types and their characters – N2 fixation mechanisms- BGA Azolla symbiosis.

# MODULE III: ACTINORHIZOAL AND OTHER INOCULANTS

Frankia-casuarina symbiosis- Frankia characters and their importance – Zn, K, and Si, solubilizer and their importance.

### **Total Contact Hours: 30**

# **TEXT BOOKS:**

- 1) Adhya, T.K., Lal, B., Mohapatra, B., Paul, D. and Das, S. Advances in Soil Microbiology; Recent Trends and Future Prospects. Springer Publi., UK.
- 2) Barabara. E., Schulz Christein J.C. Boyle Thomas N. Sieber (Eds.) 2006. Microbial Root Endophytes. Springer publications, Germany.

## REFERENCE BOOKS:

- 1) Coyne, M.S. 2000. Soil Microbiology, CBS Publications, New Delhi.
- 2) Dixon, G.R., Tilston, Emma L.(Eds.) 2010 Soil Microbiology and Sustainable Crop Production, Springer publisher.
- 3) Eldor paul, 2015. Soil Microbiology, Ecology and Biochemistry, fourth edition, academic press, wyman St., Waltham.

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

# Microbial Inoculant Production Technology (2018-2019)

Session	Topic	Date	Duration (Hr)	Resource person
Session I	History and types of Bioinoculants	5/10/2018	3	Dr. T. Issuelalada
Session II	Biological nitrogen fixation	5/10/2018	3	Dr.T.Jayalakshmi
	Characteristics and classification of	3/10/2018	3	Mr.A.Manikandan
Session III	Rhizobium, Azospirillum	6/10/2018	4	Dr. T. Ioualalada
Session IV	Mycorrhizae and types	6/10/2018	2	Dr.T.Jayalakshmi
Session V	Blue green algae and Azolla	12/10/2018	3	Dr.P.B.Ramesh babu
Session VI	Mechanisms of 'P' mobilizers		3	Mr.A.Manikandan
Session VII		13/10/2018	4	Dr.P.Rajasulochana
	N2 fixation mechanisms	13/10/2018	3	Dr.P.B.Ramesh babu
Session VIII	Frankia characters and their importance	19/10/2018	3	Mr.A.Manikandan
	Zn, K, and Si, solubilizer and their			ivii.A.iviaiiikailuali
Session IX	importance.	20/10/2018	4	Mrs.K.Vijayalakshmi

# BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

# SCHOOL OF BIO-ENGINEERING

# VALUE ADDED COURSE TIMETABLE

DEPARTMENT OF GENETIC ENGINEERING

## 2018-2019

Days / Period	9.00 - 9.50	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							2.30	3.30
TUE					AK			
WED					BREAK			
THU					UNCH			
FRI					LUI		MIP	
SAT		MI	P				MIP	

SUBJECT CODE	SUBJECT NAME	STAFF
Theory		
Value added course	Microbial Inoculant Production technology (MIP)	Mr.A.Manikandan
	Room No	SA 114

# BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH

# SCHOOL OF BIO-ENGINEERING DEPARTMENT OF GENETIC ENGINEERING VALUE ADDED COURSE MICROBIAL INOCULANT PRODUCTION TECHNOLOGY(2018-2019)

Students Name List

S.No	Reg No	Name
1	U16BR022	Upal joshi
2	U16BR023	Vinodh kanna k
3	U16BR028	Vishnu s
4	U16BR032	T Baba chandrika
5	U16BR033	Shali thasneem
6	U16BR034	Kayapoyollu neelima
7	U16BR048	Narappagari radhika
8	U16BR049	Asritha reddy
9	U16BR050	Keerthivasu r
10	U16BR060	Nagarjuna
11	U16BR061	Sharmila
12	U16BR066	B lakshmi reddy
13	U16BR067	Nikhil charan k
14	U16BR066	B lakshmi reddy
15	U16BR067	Nikhil charan k
16	U16BR072	D Yuvabharathi kannan
17	U16BR073	G Surya prakash
18	U16BT014	Puviyarasi S
19	U16BT015	Aswin M
20	U16BT017	Vedicherla Aswin Kumar
21	U16BT018	Penna Balakrishna
22	U16BT021	Deepika
23	U16BT022	Dara Vijay chandra Gangadhar Guptha
24	U16BT025	Ramavath Arun Naik
25	U16BT030	Manikandan K
26	U16BT031	L. Rathna Kumar
27	U16BT501	Kaviya Lakshmi P
28	U16BM019	Ajeesh.P
9	U16BM021	Chryolyte precious rani.S
0	U16BM022	Sasikumar.J

31	U16BM023	Nawaz shariff.A	
32	U16BM025	K.Achyuthareddy	
33	U16BM028	Hariritusheshasainiharika	
34	U16BM031	Tummasathvikphani rani teja	
35	U16BM032	Kakanikarthik	
36	U16BM034	Nehakumari	
37	U16BM036	Tulabandulageethamadhuri	

# BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH SCHOOL OF BIO-ENGINEERING DEPARTMENT OF GENETIC ENGINEERING VALUE ADDED COURSE MICROBIAL INOCULANT PRODUCTION TECHNOLOGY(2018-2019)

Attendance Report

S.No	Reg No	Name	5/10/2018	6/10/2018	12/10/2018	13/10/2019	10/10/2010	20/10/2010
1	U16BR022	UPAL JOSHI	P	P	D	P	P P	20/10/2018
2	U16BR023	VINODH KANNA K	P	P	P	p	P	P
3	U16BR028	VISHNU S	Р	P	P	P		
4	U16BR032	T BABA CHANDRIKA	P	P	P	P	AB	P
5	U16BR033	SHALI THASNEEM	P	P	P	P	P	P
6	U16BR034	KAYAPOYOLLU NEELIMA	P	P	P	P	-	Р
7	U16BR048	NARAPPAGARI RADHIKA	P	P	P	P	P	Р
8	U16BR049	ASRITHA REDDY	P	P	P	P	Р	Р
9	U16BR050	KEERTHIVASU R	P	P	P	P	Р	Р
10	U16BR060	NAGARJUNA	P	P	P	P	P	Р
11	U16BR061	SHARMILA	P	P	P	P	Р	Р
12	U16BR066	B LAKSHMI REDDY	P	P	P		Р	Р
13	U16BR067	NIKHIL CHARAN K	P	P	P	P	Р	AB
14	U16BR066	B LAKSHMI REDDY	P	AB		P	P	Р
15	U16BR067	NIKHIL CHARAN K	P	Р	AB P	P	P	Р
16	U16BR072	D YUVABHARATHI KANNAN	AB	P	P	P	Р	Р
17	U16BR073	G SURYA PRAKASH	P	P	P	P	Р	Р
18	U16BT014	Puviyarasi S	P	P		P	Р	P
19	U16BT015	Aswin M	P	P	P	P	Р	P
20	U16BT017	Vedicherla Aswin Kumar	P	P	P	P	Р	Р
21	U16BT018	Penna Balakrishna	P	P	P	AB	Р	P
22	U16BT021	Deepika	P	P	Р	Р	Р	Р
23	U16BT022	Dara Vijay chandra Gangadhar	AB		Р	Р	Р	P
24	U16BT025	Ramavath Arun Naik	P	P	P	Р	AB	Р
25	U16BT030	Manikandan.K	P	P	P	AB	Р	P
26	U16BT031	L. Rathna Kumar	P	P	P	Р	Р	Р
27	U16BT501	Kaviya Lakshmi P		P	Р	Р	P	Р
28	U16BM019	Ajeesh.P	P	P	P	Р	P	Р
29	U16BM021	Chryolyte precious rani.S	P	P	Р	Р	P	AB
30	U16BM022	Sasikumar.J	P	P	Р	Р	P	Р
31	U16BM023		Р	Р	P	P	P	Р
32	U16BM025	Nawaz shariff.A	P	AB	Р	Р	P	Р
33	U16BM028	K.Achyuthareddy	P	Р	Р	Р	AB	Р
34	U16BM031	Hariritusheshasainiharika	Р	Р	P	Р	Р	Р
35		Tummasathvikphani rani teja	Р	Р	Р	Р	Р	Р
36	U16BM032	Kakanikarthik	AB	Р			Р	Р
37	U16BM034	Nehakumari	Р	Р	Р	Р	Р	Р
5/	U16BM036	Tulabandulageethamadhuri	P	Р	P	Р	P	Р

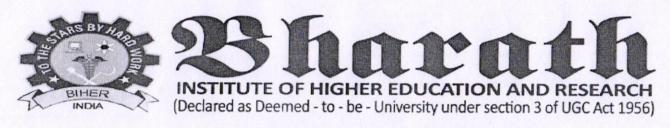
# BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH SCHOOL OF BIO-ENGINEERING DEPARTMENT OF GENETIC ENGINEERING VALUE ADDED COURSE MICROBIAL INOCULANT PRODUCTION TECHNOLOGY(2018-2019)

**Result Analysis** 

S.No	Reg No	Name	Grade
	U16BR022	UPAL JOSHI	S
	U16BR023	VINODH KANNA K	S
	U16BR028	VISHNU S	A
	U16BR032	T BABA CHANDRIKA	В
	U16BR033	SHALI THASNEEM	A
	U16BR034	KAYAPOYOLLU NEELIMA	S
	U16BR048	NARAPPAGARI RADHIKA	A
	U16BR049	ASRITHA REDDY	S
	U16BR050	KEERTHIVASU R	A
	U16BR060	NAGARJUNA	S
	U16BR061	SHARMILA	В
	U16BR066	B LAKSHMI REDDY	A
13	U16BR067	NIKHIL CHARAN K	В
	U16BR066	B LAKSHMI REDDY	A
	U16BR067	NIKHIL CHARAN K	A
	U16BR072	D YUVABHARATHI KANNAN	S
	U16BR073	G SURYA PRAKASH	A
	U16BT014	Puviyarasi S	A
	U16BT015	Aswin M	В
	U16BT017	Vedicherla Aswin Kumar	A
	U16BT018	Penna Balakrishna	A
	U16BT021	Deepika	Α
	U16BT022	Dara Vijay chandra Gangadhar Guptha	S
	U16BT025	Ramavath Arun Naik	S
	U16BT030	Manikandan.K	В
	U16BT031	L. Rathna Kumar	В
	U16BT501	Kaviya Lakshmi P	A
	U16BM019	Ajeesh.P	S
	J16BM021	Chryolyte precious rani.S	S
	J16BM022	Sasikumar.J	A
	J16BM023	Nawaz shariff.A	A
	J16BM025	K.Achyuthareddy	S
	J16BM028	Hariritusheshasainiharika	В
	J16BM031	Tummasathvikphani rani teja	A
	J16BM032	Kakanikarthik	В
	J16BM034	Nehakumari	A
3/1	J16BM036	Tulabandulageethamadhuri	S

# BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH SCHOOL OF BIO-ENGINEERING DEPARTMENT OF GENETIC ENGINEERING VALUE ADDED COURSE MICROBIAL INOCULANT PRODUCTION TECHNOLOGY(2018-2019) Students Feedback

U16BR022	S.No	Reg No	Name	
STATES   S			UPAL JOSHI	
U16BR028			VINODH KANNA K	4.5
SUL6BR033	3	U16BR028		4.5
5 U16BR033         SHALI THASNEEM         4           6 U16BR034         KAYAPOYOLLU NEELIMA         3           7 U16BR048         NARAPPAGARI RADHIKA         4           8 U16BR049         ASRITHA REDDY         4           10 U16BR060         NAGARJUNA         4           11 U16BR061         SHARMILA         4           12 U16BR066         B LAKSHMI REDDY         4           13 U16BR067         NIKHIL CHARAN K         4           14 U16BR066         B LAKSHMI REDDY         3           15 U16BR072         NIKHIL CHARAN K         4           16 U16BR072         D YUVABHARATHI KANNAN         4           17 U16BR073         G SURYA PRAKASH           18 U16BT014         Puviyarasi S           19 U16BT015         Aswin M           20 U16BT017         Vedicherla Aswin Kumar           21 U16BT018         Penna Balakrishna         4           22 U16BT020         Dara Vijay chandra Gangadhar Guptha         4           23 U16BT021         Deepika         4           24 U16BT022         Dara Vijay chandra Gangadhar Guptha         4           26 U16BT031         L. Rathna Kumar         4           27 U16BT030         Manikandan.K         4	4	U16BR032	T BABA CHANDRIKA	4.5
G   U16BR034	5	U16BR033		3
Tu16BR048   NARAPPAGARI RADHIKA   3   4   4   4   4   4   4   4   4   4	6	U16BR034		4.4
S   U16BR049   ASRITHA REDDY	7	U16BR048		3.5
9 U16BR050 KEERTHIVASU R 10 U16BR060 NAGARJUNA 11 U16BR061 SHARMILA 12 U16BR066 B LAKSHMI REDDY 13 U16BR066 B LAKSHMI REDDY 14 U16BR066 B LAKSHMI REDDY 15 U16BR067 NIKHIL CHARAN K 16 U16BR072 D YUVABHARATHI KANNAN 17 U16BR073 G SURYA PRAKASH 18 U16BR014 Puviyarasi S 19 U16BT015 Aswin M 20 U16BT015 Penna Balakrishna 21 U16BT018 Penna Balakrishna 22 U16BT021 Deepika 23 U16BT022 Dara Vijay chandra Gangadhar Guptha 4. U16BT030 Manikandan.K 4. U16BT031 L. Rathna Kumar 24 U16BT031 L. Rathna Kumar 25 U16BT031 Kaviya Lakshmi P 28 U16BT031 Kaviya Lakshmi P 29 U16BM021 Chryolyte precious rani.S 30 U16BM022 Sasikumar.J 31 U16BM023 Nawaz shariff.A 32 U16BM028 Hariritusheshasainiharika 35 U16BM034 Nehakumari 36 U16BM034 Tulabandulageethamadhuri 37 U16BM034 Tulabandulageethamadhuri 37 U16BM036 Tulabandulageethamadhuri 37 U16BM036 Tulabandulageethamadhuri				4.5
10   U16BR060   NAGARJUNA	9	U16BR050		5
11 U16BR061       SHARMILA       4         12 U16BR066       B LAKSHMI REDDY       4         13 U16BR067       NIKHIL CHARAN K       4         14 U16BR066       B LAKSHMI REDDY       3         15 U16BR067       NIKHIL CHARAN K       4         16 U16BR072       D YUVABHARATHI KANNAN       4         17 U16BR073       G SURYA PRAKASH         18 U16BT014       Puviyarasi S         19 U16BT015       Aswin M         20 U16BT017       Vedicherla Aswin Kumar         21 U16BT018       Penna Balakrishna         22 U16BT021       Deepika         23 U16BT022       Dara Vijay chandra Gangadhar Guptha         24 U16BT025       Ramavath Arun Naik         25 U16BT030       Manikandan.K         26 U16BT031       L. Rathna Kumar         27 U16BT501       Kaviya Lakshmi P         28 U16BM019       Ajeesh.P         29 U16BM021       Chryolyte precious rani.S         30 U16BM022       Sasikumar.J         31 U16BM023       Nawaz shariff.A         32 U16BM028       Hariritusheshasainiharika         34 U16BM031       Tummasathvikphani rani teja         35 U16BM034       Nehakumari         37 U16BM036       Tulabandulag	10	U16BR060		4.5
12	11	U16BR061		5
13       U16BR067       NIKHIL CHARAN K       4         14       U16BR066       B LAKSHMI REDDY       3         15       U16BR067       NIKHIL CHARAN K       4         16       U16BR072       D YUVABHARATHI KANNAN       4         17       U16BR073       G SURYA PRAKASH       4         18       U16BT014       Puviyarasi S       9         19       U16BT015       Aswin M       4         20       U16BT017       Vedicherla Aswin Kumar       4         21       U16BT018       Penna Balakrishna       4         22       U16BT021       Deepika       4         23       U16BT022       Dara Vijay chandra Gangadhar Guptha       4         24       U16BT025       Ramavath Arun Naik       4         25       U16BT030       Manikandan.K       4         26       U16BT031       L. Rathna Kumar       4         27       U16BT001       Kaviya Lakshmi P       4         28       U16BM019       Ajeesh.P       4         29       U16BM021       Chryolyte precious rani.S       5         30       U16BM022       Sasikumar.J       4         31       U16BM023	12	U16BR066		4.6
14 U16BR066       B LAKSHMI REDDY       3         15 U16BR067       NIKHIL CHARAN K       4         16 U16BR072       D YUVABHARATHI KANNAN       4         17 U16BR073       G SURYA PRAKASH         18 U16BT014       Puviyarasi S         19 U16BT015       Aswin M         20 U16BT017       Vedicherla Aswin Kumar         21 U16BT018       Penna Balakrishna       4         22 U16BT021       Deepika       4         23 U16BT022       Dara Vijay chandra Gangadhar Guptha       4         24 U16BT025       Ramavath Arun Naik       4         25 U16BT030       Manikandan.K       4         26 U16BT031       L. Rathna Kumar       4         27 U16BT501       Kaviya Lakshmi P       5         28 U16BM019       Ajeesh.P       4         29 U16BM021       Chryolyte precious rani.S       5         30 U16BM022       Sasikumar.J       4         31 U16BM023       Nawaz shariff.A       4         32 U16BM028       Hariritusheshasainiharika       5         34 U16BM031       Tummasathvikphani rani teja       5         35 U16BM034       Nehakumari       5         37 U16BM036       Tulabandulageethamadhuri       5	13	U16BR067		5
15       U16BR067       NIKHIL CHARAN K       3         16       U16BR072       D YUVABHARATHI KANNAN       4         17       U16BR073       G SURYA PRAKASH       4         18       U16BT014       Puviyarasi S       9         19       U16BT015       Aswin M       4         20       U16BT017       Vedicherla Aswin Kumar       4         21       U16BT018       Penna Balakrishna       4         22       U16BT021       Deepika       4         23       U16BT022       Dara Vijay chandra Gangadhar Guptha       4         24       U16BT025       Ramavath Arun Naik       4         25       U16BT030       Manikandan.K       4         26       U16BT031       L. Rathna Kumar       4         27       U16BT501       Kaviya Lakshmi P       5         28       U16BM019       Ajeesh.P       4         29       U16BM021       Chryolyte precious rani.S       5         30       U16BM022       Sasikumar.J       4         31       U16BM023       Nawaz shariff.A       4         32       U16BM025       K.Achyuthareddy       5         33       U16BM031	14	U16BR066		4.4
16       U16BR072       D YUVABHARATHI KANNAN       4.         17       U16BR073       G SURYA PRAKASH         18       U16BT014       Puviyarasi S         19       U16BT015       Aswin M         20       U16BT017       Vedicherla Aswin Kumar         21       U16BT018       Penna Balakrishna       4.         22       U16BT021       Deepika       4.         23       U16BT022       Dara Vijay chandra Gangadhar Guptha       4.         24       U16BT025       Ramavath Arun Naik       4.         25       U16BT030       Manikandan.K       4.         26       U16BT031       L. Rathna Kumar       4.         27       U16BT501       Kaviya Lakshmi P       5.         28       U16BM019       Ajeesh.P       5.         29       U16BM021       Chryolyte precious rani.S       5.         30       U16BM022       Sasikumar.J       4.         31       U16BM023       Nawaz shariff.A       4.         32       U16BM025       K.Achyuthareddy       5.         33       U16BM031       Tummasathvikphani rani teja       5.         35       U16BM034       Nehakumari       5.	15	U16BR067		3.7
17 U16BR073	16	U16BR072		4.5
18 U16BT014       Puviyarasi S         19 U16BT015       Aswin M         20 U16BT017       Vedicherla Aswin Kumar         21 U16BT018       Penna Balakrishna         22 U16BT021       Deepika         23 U16BT022       Dara Vijay chandra Gangadhar Guptha         24 U16BT025       Ramavath Arun Naik         25 U16BT030       Manikandan.K         26 U16BT031       L. Rathna Kumar         27 U16BT501       Kaviya Lakshmi P         28 U16BM019       Ajeesh.P         29 U16BM021       Chryolyte precious rani.S         30 U16BM022       Sasikumar.J         31 U16BM023       Nawaz shariff.A         32 U16BM025       K.Achyuthareddy         33 U16BM028       Hariritusheshasainiharika         34 U16BM031       Tummasathvikphani rani teja         35 U16BM032       Kakanikarthik         36 U16BM034       Nehakumari         37 U16BM036       Tulabandulageethamadhuri	17	U16BR073		4.5
19 U16BT015       Aswin M         20 U16BT017       Vedicherla Aswin Kumar         21 U16BT018       Penna Balakrishna       4.         22 U16BT021       Deepika       4.         23 U16BT022       Dara Vijay chandra Gangadhar Guptha       4.         24 U16BT025       Ramavath Arun Naik       4.         25 U16BT030       Manikandan.K       4.         26 U16BT031       L. Rathna Kumar       4.         27 U16BT501       Kaviya Lakshmi P       5.         28 U16BM019       Ajeesh.P       4.         29 U16BM021       Chryolyte precious rani.S       5.         30 U16BM022       Sasikumar.J       4.         31 U16BM023       Nawaz shariff.A       4.5         32 U16BM028       Hariritusheshasainiharika       5.         34 U16BM031       Tummasathvikphani rani teja       5.         35 U16BM032       Kakanikarthik       4.5         36 U16BM034       Nehakumari       5.         37 U16BM036       Tulabandulageethamadhuri       5.	18	U16BT014		5
U16BT018	19	U16BT015	Aswin M	5
21 U16BT018       Penna Balakrishna       4.         22 U16BT021       Deepika         23 U16BT022       Dara Vijay chandra Gangadhar Guptha       4.         24 U16BT025       Ramavath Arun Naik       4.         25 U16BT030       Manikandan.K       4.         26 U16BT031       L. Rathna Kumar       4.         27 U16BT501       Kaviya Lakshmi P       5.         28 U16BM019       Ajeesh.P       5.         29 U16BM021       Chryolyte precious rani.S       5.         30 U16BM022       Sasikumar.J       5.         31 U16BM023       Nawaz shariff.A       4.5         32 U16BM025       K.Achyuthareddy       5.         33 U16BM028       Hariritusheshasainiharika       5.         34 U16BM031       Tummasathvikphani rani teja       5.         35 U16BM032       Kakanikarthik       4.5         36 U16BM034       Nehakumari       5.         37 U16BM036       Tulabandulageethamadhuri       5.	20	U16BT017	Vedicherla Aswin Kumar	5
22 U16BT021       Deepika         23 U16BT022       Dara Vijay chandra Gangadhar Guptha         24 U16BT025       Ramavath Arun Naik         25 U16BT030       Manikandan.K         26 U16BT031       L. Rathna Kumar         27 U16BT501       Kaviya Lakshmi P         28 U16BM019       Ajeesh.P         29 U16BM021       Chryolyte precious rani.S         30 U16BM022       Sasikumar.J         31 U16BM023       Nawaz shariff.A         32 U16BM025       K.Achyuthareddy         33 U16BM028       Hariritusheshasainiharika         34 U16BM031       Tummasathvikphani rani teja         35 U16BM032       Kakanikarthik         36 U16BM034       Nehakumari         37 U16BM036       Tulabandulageethamadhuri	21	U16BT018		5
23       U16BT022       Dara Vijay chandra Gangadhar Guptha       4.         24       U16BT025       Ramavath Arun Naik       4.         25       U16BT030       Manikandan.K       4.         26       U16BT031       L. Rathna Kumar       4.         27       U16BT501       Kaviya Lakshmi P       2.         28       U16BM019       Ajeesh.P       4.         29       U16BM021       Chryolyte precious rani.S       5.         30       U16BM022       Sasikumar.J       5.         31       U16BM023       Nawaz shariff.A       4.5         32       U16BM025       K.Achyuthareddy       4.5         33       U16BM038       Hariritusheshasainiharika       5.         34       U16BM031       Tummasathvikphani rani teja       5.         35       U16BM034       Nehakumari       5.         37       U16BM036       Tulabandulageethamadhuri       5.	22	U16BT021		4.5
24 016BT025       Ramavath Arun Naik         25 U16BT030       Manikandan.K         26 U16BT031       L. Rathna Kumar         27 U16BT501       Kaviya Lakshmi P         28 U16BM019       Ajeesh.P         29 U16BM021       Chryolyte precious rani.S         30 U16BM022       Sasikumar.J         31 U16BM023       Nawaz shariff.A         32 U16BM025       K.Achyuthareddy         33 U16BM028       Hariritusheshasainiharika         34 U16BM031       Tummasathvikphani rani teja         35 U16BM032       Kakanikarthik         36 U16BM034       Nehakumari         37 U16BM036       Tulabandulageethamadhuri	23	U16BT022		5
25       U16BT030       Manikandan.K       4.3         26       U16BT031       L. Rathna Kumar       4.3         27       U16BT501       Kaviya Lakshmi P       2.3         28       U16BM019       Ajeesh.P       4.5         29       U16BM021       Chryolyte precious rani.S       5.3         30       U16BM022       Sasikumar.J       5.3         31       U16BM023       Nawaz shariff.A       4.5         32       U16BM025       K.Achyuthareddy       4.5         33       U16BM028       Hariritusheshasainiharika       5.5         34       U16BM031       Tummasathvikphani rani teja       5.5         35       U16BM034       Nehakumari       4.5         37       U16BM036       Tulabandulageethamadhuri       5.5	24	U16BT025	Ramayath Arun Naik	4.5
26       U16BT031       L. Rathna Kumar         27       U16BT501       Kaviya Lakshmi P         28       U16BM019       Ajeesh.P         29       U16BM021       Chryolyte precious rani.S         30       U16BM022       Sasikumar.J         31       U16BM023       Nawaz shariff.A         32       U16BM025       K.Achyuthareddy         33       U16BM028       Hariritusheshasainiharika         34       U16BM031       Tummasathvikphani rani teja         35       U16BM032       Kakanikarthik         36       U16BM034       Nehakumari         37       U16BM036       Tulabandulageethamadhuri	25	U16BT030		5
27 U16BT501       Kaviya Lakshmi P         28 U16BM019       Ajeesh.P         29 U16BM021       Chryolyte precious rani.S         30 U16BM022       Sasikumar.J         31 U16BM023       Nawaz shariff.A         32 U16BM025       K.Achyuthareddy         33 U16BM028       Hariritusheshasainiharika         34 U16BM031       Tummasathvikphani rani teja         35 U16BM032       Kakanikarthik         36 U16BM034       Nehakumari         37 U16BM036       Tulabandulageethamadhuri	26	U16BT031		4.5
28 U16BM019       Ajeesh.P         29 U16BM021       Chryolyte precious rani.S         30 U16BM022       Sasikumar.J         31 U16BM023       Nawaz shariff.A         32 U16BM025       K.Achyuthareddy         33 U16BM028       Hariritusheshasainiharika         34 U16BM031       Tummasathvikphani rani teja         35 U16BM032       Kakanikarthik         36 U16BM034       Nehakumari         37 U16BM036       Tulabandulageethamadhuri	27	J16BT501		4
29 U16BM021       Chryolyte precious rani.S         30 U16BM022       Sasikumar.J         31 U16BM023       Nawaz shariff.A         32 U16BM025       K.Achyuthareddy         33 U16BM028       Hariritusheshasainiharika         34 U16BM031       Tummasathvikphani rani teja         35 U16BM032       Kakanikarthik         36 U16BM034       Nehakumari         37 U16BM036       Tulabandulageethamadhuri	28 (	J16BM019		5
30 U16BM022       Sasikumar.J         31 U16BM023       Nawaz shariff.A         32 U16BM025       K.Achyuthareddy         33 U16BM028       Hariritusheshasainiharika         34 U16BM031       Tummasathvikphani rani teja         35 U16BM032       Kakanikarthik         36 U16BM034       Nehakumari         37 U16BM036       Tulabandulageethamadhuri	29 (	J16BM021		4.5
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32       U16BM025       K.Achyuthareddy       4.5         33       U16BM028       Hariritusheshasainiharika       5         34       U16BM031       Tummasathvikphani rani teja       5         35       U16BM032       Kakanikarthik       4.5         36       U16BM034       Nehakumari       5         37       U16BM036       Tulabandulageethamadhuri       5	31 (	J16BM023		4
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34 U16BM031       Tummasathvikphani rani teja       5         35 U16BM032       Kakanikarthik       5         36 U16BM034       Nehakumari       4.5         37 U16BM036       Tulabandulageethamadhuri       5	33 L	J16BM028		5
35 U16BM032       Kakanikarthik       5         36 U16BM034       Nehakumari       4.5         37 U16BM036       Tulabandulageethamadhuri       5	34 L	J16BM031		5
36 U16BM034         Nehakumari         4.5           37 U16BM036         Tulabandulageethamadhuri         5	35 L	J16BM032		5
37 U16BM036 Tulabandulageethamadhuri 5				4.5
4.5	37 L	J16BM036		5
			i diabandulageethamadhuri	4



# SCHOOL OF BIO-ENGINEERING

# VALUE ADDED COURSE ON MICROBIAL INOCULANT PRODUCTION TECHNOLOGY

Certificate of Participation

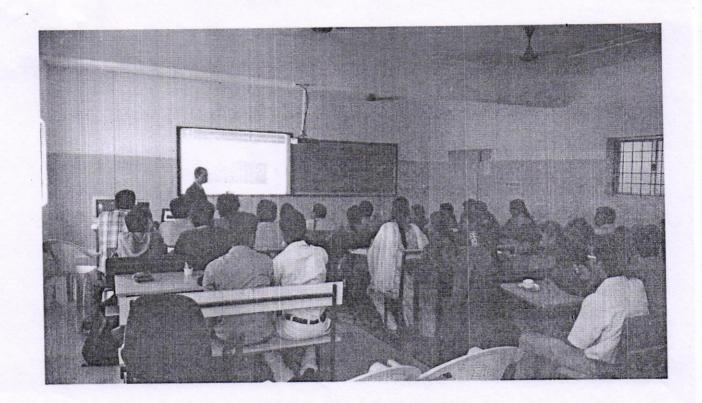
This is to certify that Mr/Ms P. Ajeesh (U16BM019) has attended three weeks value added course on Microbial Inoculant Production Technology conducted by Department of Genetic Engineering at Bharath Institute of Higher Education and Research, Chennai (TN), India during 5<sup>th</sup>- 20<sup>th</sup> October, 2018.

HOD

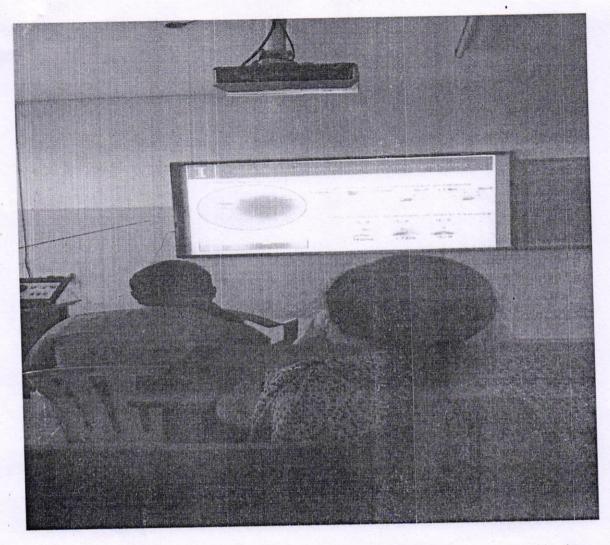
Coordinator X8/10

Dr. P.B. RAMESH BABU, Ph.D.,

Professor and Head
Department of Genetic Engineering
BHARATH INSTITUTE OF HIGHER EDUCATION & RESEARCH
(Declared as Deemed to be University U/S 3 of UGC Act. 1966)
Chennai 600073 Tamil Nadu India



The value added course on "Microbial Inoculant Production technology" has been conducted by the Department of Genetic Engineering from 04/10/2018 to 20/10/2018 by the course co-ordinator Mr.A.Manikandan, Assistant Professor, BIHER.



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