



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(DEEMED TO BE UNIVERSITY)

Accredited "A" Grade by NAAC | 12B Status by UGC | Approved by AICTE

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SCHOOL OF BIO AND CHEMICAL ENGINEERING

DEPARTMENT OF BIOTECHNOLOGY

1.3.2 VALUE ADDED COURSES FOR IMPARTING TRANSFERABLE AND LIFE SKILLS OFFERED DURING 2022- 2023

S. No.	Title	Event Dates	Page No.
1	Introduction to MATLAB for bioscience	11.07.2022 to 15.07.2022	2
2	Sustainable Bio entrepreneurship	15.03.2022 to 21.03.2022	8
3	Art of Successful scientific writing	21.11.2022 to 25.11.2022	14
4	Mushroom Farming	05.12.2022 to 10.12.2022	20
5	Advance Bioprocess Technology	06.02.2023 to 10.02.2023	26
6	Advance Bioprocess Technology	20.02.2023 to 24.02.2023	33



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SCHOOL OF BIO AND CHEMICAL ENGINEERING
DEPARTMENT OF BIOTECHNOLOGY

Organizes value added course
on

INTRODUCTION TO MATLAB FOR BIOSCIENCE

DATE: 11.07.2022 to 15.07.2022 (5 working Days)

TIME: 9.00 PM TO 3.00 PM

RESOURCE PERSONS

DR. VEDHANARAYANAN,
ASSISTANT PROFESSOR,
DEPARTMENT OF ELECTRONICS AND
INSTRUMENTATION.

ELIGIBLE STUDENTS- B.TECH AND M.TECH BIOTECHNOLOGY

VENUE:-

Department of Biotechnology

Attendance is mandatory for all classes

ORGANIZER

Dr. Prakash P
Assistant Professor
Department of Biotechnology



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INTRODUCTION TO MATLAB FOR BIOSCIENCE

OBJECTIVES

- Courses cover the basics of MATLAB, tips, and tricks, and advanced techniques for specialized areas.
- To apply MatLab techniques in bioprocess engineering and computational biology.

TOTAL: 30 HRS

MODULE 1: DESKTOP, VARIABLES, AND DATA TYPES

Introduction to MATLAB, Creating Variables, Some Useful MATLAB Functions, Data Types.

6 HRS

MODULE 2: BASIC PLOTTING

Creating simple plots, Adding titles, axis labels, and annotations, Multiple data sets in one plot, Specifying line styles and colors.

6 HRS

MODULE 3: GRAPHICS WITH MATLAB

Basic 2D, 3D plots, Graphic handling

6 HRS

MODULE 4: PROGRAMMING WITH MATLAB

Applications of MATLAB Programming

6 HRS

MODULE 5: MATHEMATICAL COMPUTING WITH MATLAB

Algebraic equations, Basic Symbolic Calculus, and Differential equations.

6HRS

OUTCOMES:

- Able to use Matlab for interactive computations.
- Familiar with memory and file management in Matlab.
- Able to generate plots and export this for use in reports and presentations



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DATE	TIME	TOPIC	HANDLED BY
11-07-2022	9.00 TO 11.00	INTRODUCTION TO MATLAB	DR. VEDHANARAYANAN
11-07-2022	11.00 TO 12.00	CREATING VARIABLES, MATLAB FUNCTIONS	DR. VEDHANARAYANAN
11-07-2022	1.00 TO 3.00	DATA TYPES, CREATING SIMPLE PLOTS	DR. VEDHANARAYANAN
12-07-2022	9.00 TO 11.00	ADDING TITLES	DR.RAMESHKUMAR
12-07-2022	11.00 TO 12.00	AXIS LABELS AND ANNOTATION	DR.RAMESHKUMAR
12-07-2022	1.00 TO 3.00	MULTIPLE DATA SETS IN ONE PLOTS	DR.RAMESHKUMAR
13-07-2022	9.00 TO 11.00	INTRODUCTION TO 2D PLOTS	DR. VEDHANARAYANAN
13-07-2022	11.00 TO 12.00	INTRODUCTION TO 3D PLOTS	MR. VEDHANARAYANAN
13-07-2022	1.00 TO 3.00	APPLICATIONS OF 2D AND 3D PLOTS	MR. VEDHANARAYANAN
14-07-2022	9.00 TO 11.00	APPLICATIONS OF MATLAB PROGRAMMING IN CHEMICAL ENGINEERING	DR. VEDHANARAYANAN
14-07-2022	11.00 TO 12.00	APPLICATIONS OF MATLAB PROGRAMMING IN BIOPROCESS ENGINEERING	DR.RAMESHKUMAR
14-07-2022	1.00 TO 3.00	ALGEBRAIC EQUATION	DR. VEDHANARAYANAN
15-07-2022	9.00 TO 11.00	BASIC SYMBOLIC CALCULUS	DR.RAMESHKUMAR
15-07-2022	11.00 TO 12.00	DIFFERENTIAL EQUATIONS	DR.RAMESHKUMAR
15-07-2022	1.00 TO 3.00	HANDS ON TRAINING	DR. VEDHANARAYANAN



LIST OF PARTICIPANTS B. TECH AND M. TECH BIOTECHNOLOGY (BATCH 2020-2024/2021-23)

S. No.	Reg. Number	Student Name
1	39230001	AMBRITHA. C
2	39230002	AMRIT WILKHU
3	39230003	ANITHA. V
4	39230004	ASWINI SAI BALAJI
5	39230005	BAGAVATHY DARSHAN. M
6	39230006	POTTI BHOOMIKA LEKHYA
7	39230007	BHUVANESH. P
8	39230008	BRITLIN DEVA JEBASTA. N
9	39230009	CHANDINI SENGUPTA
10	39230010	DEEKSHA. R. V
11	39230011	DEVIPRIYA. V
12	39230012	DHANA SRI. C . K
13	39230013	DHATCHAYANI. K
14	39230014	DIVYA. K
15	39230015	EDWIN VINES RAJ. M
16	39230016	GANESH. S
17	39230017	GOWSHIK. T
18	39230018	JEEVIKA. R
19	39230019	JESSE MIRACLIN BINCY. D
20	39230020	JOEL. K. SENU
21	39230021	JOEVATHY. J
22	39230022	KEERTHANA. S
23	39230023	LOHAPPRIYA. R. R
24	39230024	GURENKA MANITEJA
25	39230026	MITHRINTHAA. S
26	39230027	MOHANRAJ. M
27	39230028	NANDA KUMAR. R
28	39230029	NISHA. K
29	39230030	NOEL RICHARD PRAKASH. L
30	39230031	POOJA. V
31	39230032	PRANITHA. A .P
32	39230033	PREETHI. G
33	39230034	RAJALAKSHMI. D
34	39230035	RAKSHI .A. D
35	39230036	ROHITH. R. K
36	39230037	SANDHYA. S
37	39230038	SANJANA. M

38	39230039	SANJAY. M
39	39230040	SANJAY PREETH. R
40	39230041	SATHIYASREE. M
41	39230042	SHERIL TABITHA. Y
42	39230043	SHOBANA. A
43	39230044	SIVA SHANKARAN. V
44	39230045	SRISHTI RAJA
45	39230046	SUBHASHINI. R
46	39230047	SUBIKSHA. T. V
47	39230048	SUCHITHRA. L
48	39230049	SUDHIR SAKTHI RAJA. A
49	39230050	SYED ALI ABDUR RAHMAN
50	39230051	SYED IBRAHIM. A
51	39230052	TAMIL SELVAM. S
52	39230053	TIVIYA THANGASWAMY
53	39230054	SNEHA. V. S
54	39230055	VALLABA.M
55	39230056	VARADA
56	39230057	VINOTH KUMAR. V
57	39230058	VISHWANATHAN. J
58	39230059	WINNIE PRAHELIKA. W
59	39230060	SAMYUKTHA. E
60	39230061	JANANITHA. K
61	41810001	ANGEL ROMILA K
62	41810002	ARCHANA JEEVAN
63	41810003	ASHMITHA K
64	41810004	ESHWARNATH V. S
65	41810005	HARITHA S
66	41810006	HARSHAA RAJABALAKUMAR
67	41810007	HELEENA
68	41810008	KAVI PRABA A
69	41810009	LOVELY MATHEW
70	41810010	MADHUMITHA B
71	41810011	MANEESWARI T
72	41810012	NIRMAL KUMAR G
73	41810013	PRAVEENA DEVI M S
74	41810014	RAGHAVI SURESH
75	41810015	P. RAHUL PRAKASH
76	41810016	RAMYA N
77	41810017	ROOPINI K S
78	41810018	SHARON BEAULA V
79	41810019	SHEEBA J
80	41810020	VARSHINE K R
81	41810021	YUVARAJ M



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SCHOOL OF BIO AND CHEMICAL ENGINEERING
DEPARTMENT OF BIOTECHNOLOGY

VALUE ADDED COURSE

Sustainable Bioentrepreneurship - A Skill Development Programme

DATE: MAR 15th To 21th



THE GLOBAL GOALS
For Sustainable Development

Eligible Candidates:
B.Tech and M.Tech
(Biotechnology)

Registration link:
<http://bit.ly/3IUfDVS>



Scan to join us

Chief Patrons

Dr. Mariazeena Johnson, Chancellor
Dr. Marie Johnson, President
Mr. J. Arun Selvan, Vice-president
Ms. Maria Bernadette Tamilarasi, Vice-president
Ms. Maria Catherine Jayapriya, Vice-president

Patrons

Dr T Sasipraba, Vice Chancellor
Dr. E. Logashanmugam, Pro Vice Chancellor
Dr. S. S. Rao, Registrar
Dr. S. Igni Sabasti Prabu, Controller of Exam
Dr. B. Sheela Rani, Director-Research
Dr. G. Sundari, Director - Administration

Organizing Secretaries

Dr.P.Prakash
(Assistant Professor)
Dr. Masilamani Selvam
(Associate Professor)
Dr. S.M.Indumathi
(Assistant Professor)

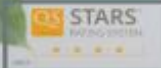
Convenor

Dr. V. Ramesh Kumar,
Head Department of
Biotechnolo



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SCHOOL OF BIO AND CHEMICAL ENGINEERING DEPARTMENT OF BIOTECHNOLOGY

VALUE ADDED COURSE

Sustainable Bioentrepreneurship - A Skill Development Programme

DATE: MAR 15th To 21th



THE GLOBAL GOALS
For Sustainable Development

Eligible Candidates:
B.Tech and M.Tech
(Biotechnology)

Registration link:
<http://bit.ly/3IUfDVS>



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Dr. Mariazeena Johnson, Chancellor
Dr. Marie Johnson, President
Mr. J. Arun Selvan, Vice-president
Ms. Maria Bernadette Tamilarasi, Vice-president
Ms. Maria Catherine Jayapriya, Vice-president

Patrons

Dr T Sasipraba, Vice Chancellor
Dr. E. Logashanmugam, Pro Vice Chancellor
Dr. S. S. Rao, Registrar
Dr. S. Igni Sabasti Prabu, Controller of Exam
Dr. B. Sheela Rani, Director-Research
Dr. G. Sundari, Director - Administration

Organizing Secretaries

Dr.P.Prakash
(Assistant Professor)
Dr. Masilamani Selvam
(Associate Professor)
Dr. S.M.Indumathi
(Assistant Professor)

Convenor

Dr. V. Ramesh Kumar,
Head Department of
Biotechnolo

SCHEDULE FOR THE PROGRAMME		
DATE	TOPIC	GUEST LECTURERS
15.03.2023 	SEAWEEDS - POTENT BIORESOURCE FOR BIOENTREPRENEURS HIP	Dr. L. Stanley Abraham, Scientist E, Centre for Ocean Research, Sathyabama Institute of Science and Technology
16.03.2023 	ARTEMIA CULTIVATION AND ITS APPLICATIONS ON AQUACULTURE	Dr. D. Inbakandan, Head & Scientist – E / Professor, Centre for Ocean Research, MoES - Earth Science & Technology Cell, Sathyabama Institute of Science and Technology. Task Force Co-Chair, Ecosystem-based Aquaculture Group (E-bAG), IUCN CEM
17.03.2023 	EDIBLE INSECT FARMING AS AN EMERGING AND PROFITABLE ENTERPRISE	Dr.P.Oviya Assistant Professor Sathyabama Institute of Science and Technology
18.03.2023 	CULTIVATION OF EDIBLE MUSHROOMS ADVANCES IN SHRIMP CULTURE	Dr.P.Prakash, Assistant Professor, Sathyabama Institute of Science and Technology Dr. Masilamani Selvam, Associate Professor, Sathyabama Institute of Science and Technology
20.03.2023 	PANCHKAVYA PREPARATION AND ITS APPLICATIONS	Dr.L.Inbathamizh, Assistant Professor, Sathyabama Institute of Science and Technology
21.03.2023 	Production of vermicompost and its application	Dr. S.M. Indumathi, Assistant Professor, Sathyabama Institute of Science and Technology



LIST OF PARTICIPANTS B.TECH BIOTECHNOLOGY BATCH 2020-2024

S.NO	REGISTER NUMBER	NAME
1.	40230001	AISHWARYA. S
2.	40230002	AMISHA BARUAH
3.	40230003	ARJUN ADITIYA. K.R
4.	40230004	ARTHY. M
5.	40230005	ARUL HANCY EVITAA. K.I
6.	40230006	BENJAMIN ISAAC THOMSON
7.	40230007	BOOMIKA. V
8.	40230008	DHARSHINI. S
9.	40230009	DURGA GOMATHI. A
10.	40230010	FATHIMA SUMAIRA. S
11.	40230011	GOWTHAMAN. J
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24.	40230025	MANIKANDAN.M
25.	40230026	MEENAMBIGAI. S
26.	40230027	MIRDUSHI VASU. M
27.	40230028	MONISHA. V
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45.	40230048	VEDHAPRIYA. S
46.	40230049	YUVARAJA. T
47.	40230050	J.AILEEN AKSHARAA V.RAYEN
48.	40230051	ILHAN SHAMIR ALI. M
49.	40230052	GRANAP BLESSY. R
50.	40230053	JAYANTH. A
51.	40230054	MATHUVARSHINI. B
52.	40230055	RIZWAN AHAMED. N
53.	40230056	VYANKATESH GANESH PANTAM



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DEPARTMENT OF BIOTECHNOLOGY

*Organizes value added course
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ART OF SUCCESSFUL SCIENTIFIC WRITING

DATE: 21.11.2022 to 25.11.2022 (5 working Days)

TIME: 9.00 PM TO 3.00 PM

RESOURCE PERSONS

DR. P. PREMASUDHA,
ASSISTANT PROFESSOR
DEPARTMENT OF NANOSCIENCE AND
TECHNOLOGY BHARATHIAR UNIVERSITY
COIMBATORE,
TAMIL NADU.

DR. SATHYARAJESWARAN,
DIRECTOR IN-CHARGE, SCI-III, SIDDHA CENTRAL RESEARCH INSTITUTE,
CENTRAL COUNCIL FOR RESEARCH IN SIDDHA, MINISTRY OF AYUSH,
GOVT OF INDIA.

DR. JOSEPH DANIEL,
ASSOCIATE PROFESSOR &
HEAD DEPARTMENT OF MICROBIOLOGY,
ST. JOSEPH'S COLLEGE OF ARTS AND SCIENCE
(AUTONOMOUS),
CUDDALORE,
TAMIL NADU

DR. ARUNDAKSHINAMURTHY,
MANAGER, SPI GLOBAL, PUDUCHERRY,
INDIA.

DR. KANTHESH BASALINGAPPA,
ASSISTANT PROFESSOR & COURSE COORDINATOR
DIVISION OF MOLECULAR BIOLOGY / FACULTY OF LIFE
SCIENCES

JSS ACADEMY OF HIGHER EDUCATION & RESEARCH
(DEEMED TO BE UNIVERSITY) MYSURU, KARNATAKA

ELIGIBLE STUDENTS - ALL B.SC, B.TECH AND M.TECH STUDENTS

VENUE: DEPARTMENT OF BIOTECHNOLOGY

Attendance is mandatory for all classes



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ART OF SUCCESSFUL SCIENTIFIC WRITING

OBJECTIVES:

Total: 30 Hrs

This course teaches students to become more effective writers, using practical examples and exercises.

COURSE CONTENT

Module 1: Ethics in Research Publication	6 Hrs
Module 2: Writing a Scientific Review Article	6 Hrs
Module 3: How to Write a Scientific Research Article	6 Hrs
Module 4: How to Avoid Plagiarism	6 Hrs
Module 5: Use of Drawing and Graphical Tools	6 Hrs

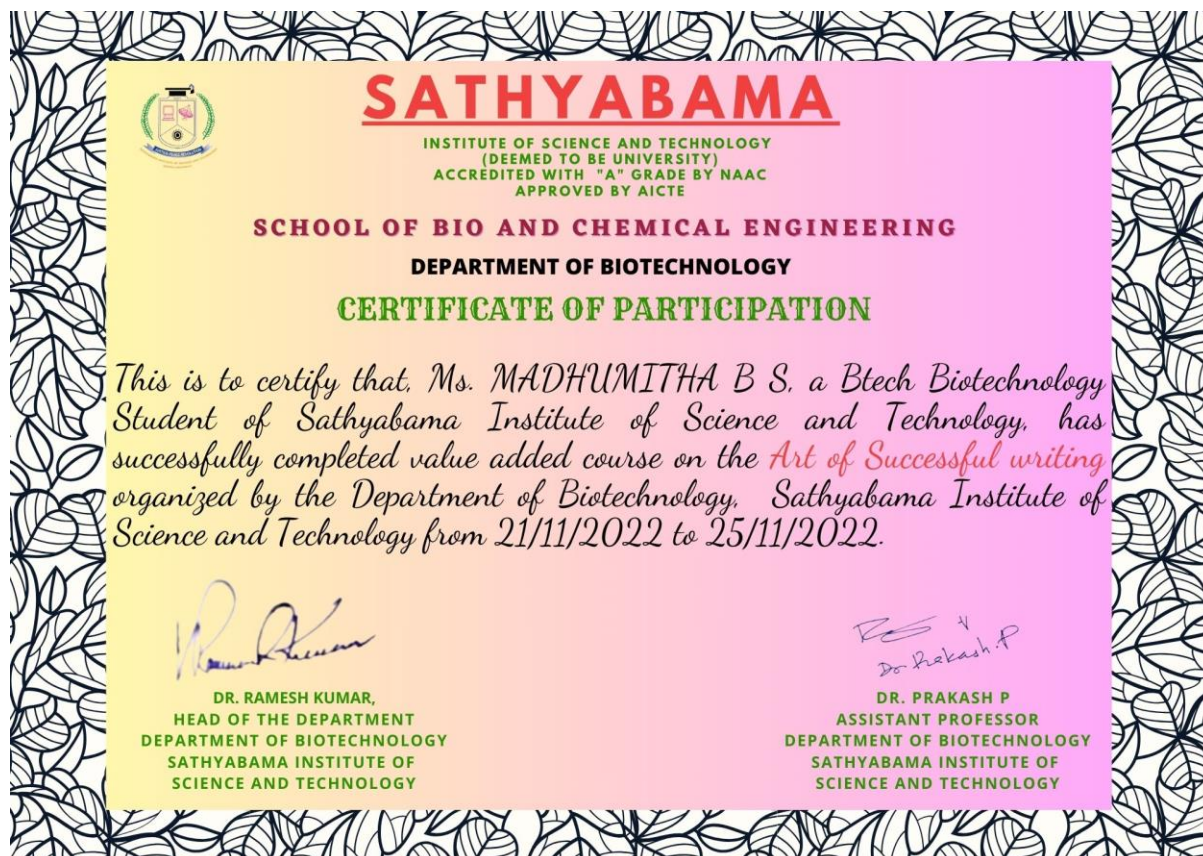


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DATE	TIME	TOPIC	HANDLED BY
21-11-2022	9.00 TO 3.00 PM	ETHICS IN RESEARCH PUBLICATION	DR.P.PREMASUDHA
22-11-2022	9.00 TO 3.00 PM	WRITING A SCIENTIFIC REVIEW ARTICLE	DR. JOSEPH DANIEL
23-11-2022	9.00 TO 3.00 PM	HOW TO WRITE A SCIENTIFIC RESEARCH ARTICLE	DR. ARUNDAKSHINAMURTHY
24-11-2022	9.00 TO 3.00 PM	HOW TO AVOID PLAGIARISM	DR. SATHYARA.JESWAREN
25-11-2022	9.00 TO 3.00 PM	USE OF DRAWING AND GRAPHICAL TOOLS	DR. KANTHESH BASALINGAPPA

COURSE COMES:

1. Students can get knowledge in scientific review article writing.
2. Students can get job opportunities in E-Publishing companies.



DEPARTMENT OF BIOTECHNOLOGY

LIST OF PARTICIPANTS B.SC MICROBIOLOGY AND BIOTECHNOLOGY (BATCH: 2021-2024)

S.NO	Reg. Number	Student Name
1.	41300001	ABIEZER JIJOE RAJA R
2.	41300002	AKULA CHARISHMA
3.	41300003	AMITHA C U
4.	41300004	ANANTHIKA R
5.	41300005	ARAVINDAN S
6.	41300006	ASWATHI K
7.	41300007	BASKAR G
8.	41300008	CHANDRIKA S
9.	41300009	EBSHIBA N
10.	41300010	GOTHAITHARSHINI M
11.	41300011	GUDURU NAGA VINUTHNA
12.	41300012	HARIHARAN K
13.	41300014	D HEMASRI
14.	41300015	IMRAN NAZIR M
15.	41300016	JENIFER J
16.	41300017	KAMALA GOWTHAM T
17.	41300018	KEERTHANA R
18.	41300019	KIRUTHIKA T
19.	41300020	LAKSHMI PRIYA S
20.	41300021	MADHUMITHA M
21.	41300022	MAXIMILLIAN S
22.	41300023	MONISHA M
23.	41300024	B NAVEEN
24.	41300025	NIVETHA E
25.	41300026	PARKAVI K
26.	41300027	PARTHIBAN K
27.	41300028	PEARLINE GRACE GLADWIN
28.	41300029	PRAVEENA E
29.	41300030	PREETHI KUMARI A
30.	41300031	PRIYANKA M
31.	41770001	AADRITA GUPTA
32.	41770002	AKSHARIN JASPRINA S

33.	41770003	ALOYSIUS VIDHUSHA M
34.	41770004	ANITHA K
35.	41770005	CYNTHIA A
36.	41770006	DEEPA LAKSHMI R
37.	41770007	DHARMARAJ K
38.	41770008	DHARUN KUMAR M
39.	41770009	FIRDOUS M
40.	41770010	HENCY MATILDA T.J
41.	41770011	KAVIYA DHARISHINI A
42.	41770012	KEERTHI MOHAN
43.	41770013	KEERTHIKA D
44.	41770014	KHUSHI T
45.	41770015	MAHALAKSHMI R
46.	41770016	NANDHINI S
47.	41770017	NITHIN SINGH K
48.	41770019	PAVITHRA J
49.	41770020	PAVITHRA M
50.	41770021	PRAMOTH E
51.	41770022	RAGHUL RAJ D
52.	41770023	RAMCHERMA JAYASOORYA R
53.	41770024	RAMYA S
54.	41770025	RESHMA SREE S
55.	41770026	ROJA G
56.	41770027	SANDHIYA B
57.	41770028	SANJAY S
58.	41770031	SHRUTHI LAYA S
59.	41770032	SNEHA SHAJAN
60.	41770033	SOWMIYA R



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SCHOOL OF BIO AND CHEMICAL ENGINEERING

DEPARTMENT OF BIOTECHNOLOGY

Organizes value added course on

Mushroom Farming

DATE: 05.12.2022 to 10.12.2022 (6working Days)

TIME: 9.00 pm to 3.00 pm

RESOURCE PERSONS

DR. PRAKASH P

**ASSISTANT PROFESSOR, DEPARTMENT OF
BIOTECHNOLOGY, SATHYABAMA INSTITUTE OF
SCIENCE AND TECHNOLOGY.**

DR. STANLEY ABRAHAM,

**SCIENTIST,
OCEAN RESEARCH CENTRE,
SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY.**

*ELIGIBLE STUDENTS-B.SC BIOCHEMISTRY,
MICROBIOLOGY, BIOTECHNOLOGY*

VENUE: DEPARTMENT OF BIOTECHNOLOGY

*Attendance is mandatory for
all classes*

ORGANIZER

Dr. Prakash P
Assistant Professor
Department of Biotechnology

FOR REGISTRATION CONTACT: Dr. PRAKASH P - 9840522688



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DEPARTMENT OF BIOTECHNOLOGY

Organizes value added course on

Mushroom Farming

OBJECTIVES:

- To explain and apply the basic skills involved in the cultivation of edible mushrooms.
- To explain the post-harvest process of edible mushroom farming harvesting, packaging, preserving and having basic knowledge of marketing their mushrooms.

MODULE 1: Production of Oyster Mushrooms (*Pleurotus Florida*) – 15 Hours

1. Introduction to edible mushrooms.
2. Substrate Preparation, Sterilization: Boiling, Steam sterilization, chemical sterilization.
3. Oyster mushroom's Spawn Production.
4. Production Process and Maintenance of humidity, temperature, pest management
5. Harvesting and value-added products: Soup preparation, Mushroom powder.

MODULE 2: Production of Milky Mushrooms (*Calocybe spp*) – 15 Hours

1. Introduction to Milky mushroom
2. Substrate Preparation, Sterilization: boiling, Steam sterilization, chemical sterilization
3. Milky mushroom's Spawn Production using various substrates
4. Production Process: Spawning and casing
5. Harvesting and value-added products: Soup preparation, Mushroom powder
6. Cost-benefit analysis

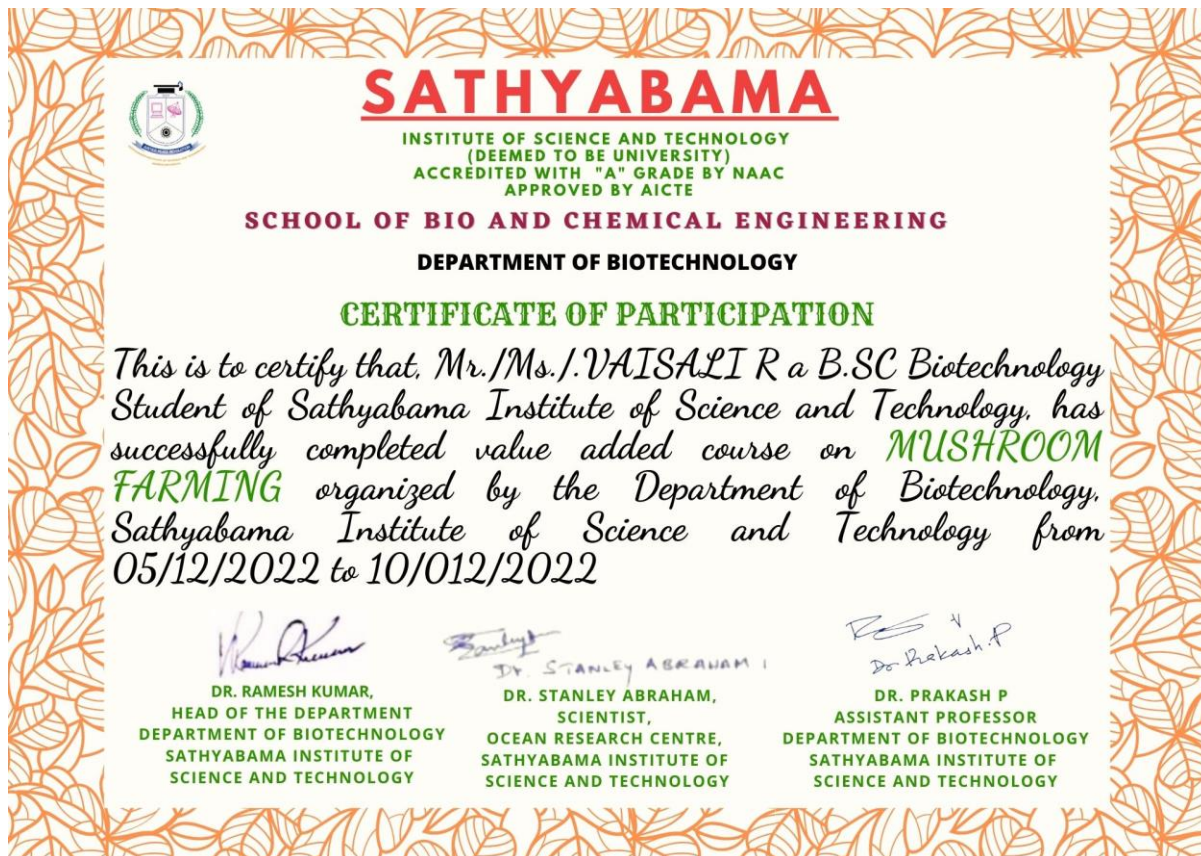
OUTCOMES:

- Students can start a small-scale industry of Mushroom cultivation.
- Students study the morphology and types of Mushrooms.
- They are aware of the identification of edible and poisonous Mushrooms. Students will be able to produce spawn on their own.

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TIME	TOPIC	HANDLED BY
05/12/2022	INTRODUCTION TO EDIBLE MUSHROOMS, SUBSTRATE SELECTION, SUBSTRATE PREPARATION, STERILIZATION	DR. PRAKASH P
06/12/2022	HANDS-ON TRAINING, INTRODUCTION TO MILKY MUSHROOM, SUBSTRATE PREPARATION,	DR. PRAKASH P
07/12/2022	STERILIZATION: BOILING, STEAM STERILIZATION, CHEMICAL STERILIZATION,	DR. PRAKASH P
08/12/2022	MILKY MUSHROOM'S SPAWN PRODUCTION USING VARIOUS SUBSTRATES,	DR. STANLEY ABRAHAM
09/12/2022	HARVESTING AND VALUE-ADDED PRODUCTS	DR. STANLEY ABRAHAM
10/12/2022	COST BENEFIT ANALYSIS, HANDS ON TRAINING	DR. STANLEY ABRAHAM

OUTCOMES:

- Students can start a small-scale industry of Mushroom cultivation.
- Students study the morphology and types of Mushrooms.
- They are aware of the identification of edible and poisonous Mushrooms. Students will be able to produce spawn on their own.



LIST OF PARTICIPANTS BSC BIOTECHNOLOGY, BATCH:2022 -2025

S. No.	Reg. Number	Student Name
1	42770001	R AADISH
2	42770002	A ABHINAV GOPAL
3	42770003	R ABINAYA
4	42770004	A ABINAYA
5	42770005	C ABIRAMI
6	42770006	ABISHA VINCY S
7	42770007	S AGALYA
8	42770008	AKHILESH KUMAR
9	42770009	SANNEPALLI DEEKSHITHA
10	42770010	DEVADHARSHINI M
11	42770011	M DHIVAKAR
12	42770012	V DIVYA THARSHINI
13	42770013	FARHAT PARVEEN
14	42770014	G GIRUPHA NISHANTH
15	42770015	P GOKUL
16	42770016	M G GOPIKA
17	42770017	HARINI G
18	42770018	S HARSHANA
19	42770020	IMRAN A
20	42770021	ISAAC NAVIN P
21	42770022	K S JAGANNAATH
22	42770023	JAYAKRISHNAN M
23	42770024	S JAYALAKSHMI
24	42770025	G KEERTHANA GOPALAKRISHNAN
25	42770026	M KEERTHANA DEVI
26	42770027	M KEERTHIKA
27	42770028	P KEERTHIKA
28	42770029	J KISHORE KUMAR
29	42770030	KOMATHI M
30	42770031	S T KRISHNA PRASATH
31	40770001	AFSHAN BANU. S

32	40770002	AGALYA. R.S
33	40770003	AKHILA. K
34	40770004	ANGEL ALISHA
35	40770005	ANUSHA. R
36	40770006	BALAJI. U
37	40770007	BALASWARUPINI NAMBURI
38	40770008	DEEPIKA. M
39	40770009	DEEPIKA SREE. K
40	40770010	DHANALAKSHMI. J
41	40770011	DONY MIRACLIN. Y. T
42	40770012	GAYATHIRI. M
43	40770013	GAYATHRI KUMARI. R
44	40770014	GUNA PRIYA VARURUPETA
45	40770015	HARIDHA. M
46	40770016	HARIGOVIND
47	40770017	HARSHAA. M
48	40770018	HEMA PRIYA. K
49	40770019	JEMIMA CARELINE. J
50	40770020	JYOTHI KUMARI. A
51	40770021	KAVIYA. R
52	40770022	KAVYA. J
53	40770023	KIRAN SUMESH
54	40770024	KUSHAL. M
55	40770025	LOKESH. B.R
56	40770026	MADHUMITHA. K
57	40770027	MAHALAKSHMI. R
58	40770028	MAHESH. S
59	40770029	MEENAKSHI. S
60	40770030	MOHAMED YAHYA



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SCHOOL OF BIO AND CHEMICAL ENGINEERING
DEPARTMENT OF BIOTECHNOLOGY

Organizes value added course on

Advance Bioprocess Technology

DATE: 06-02-2023 to 10-02-2023 (5 working Days)

TIME: 9.00 PM TO 4.30 PM

RESOURCE PERSONS

DR. VEDHANARAYANAN,
ASSISTANT PROFESSOR,
DEPARTMENT OF ELECTRONICS AND
INSTRUMENTATION.

, DR. PRAKASH P
ASSISTANT PROFESSOR,
DEPARTMENT OF BIOTECHNOLOGY

DR. L.STANLEY ABRAHAM
PROFESSOR, RESEARCH SCIENTIST
CENTRE FOR OCEAN RESEARCH

ELIGIBLE STUDENTS- B.TECH BIOTECHNOLOGY

VENUE:

Department of Biotechnology, Bioprocess
Engineering lab

***Attendance is mandatory for all classes**

ORGANIZER
Dr. Prakash P
Assistant Professor
Department of Biotechnology

FOR REGISTRATION CONTACT: Dr. PRAKASH P - 9840522688



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DEPARTMENT OF BIOTECHNOLOGY

*Organizes value added course
on*

Advance Bioprocess Technology

OBJECTIVES

- Develop a deep understanding of the fundamental principles of bioprocess technology, including microbiology, biochemistry, and engineering aspects.
- Explore advanced concepts in bioreactor design, operation, and optimization, including bioreactor types, scaling up/down, and control strategies.

TOTAL: 30 HRS

MODULE 1: INTRODUCTION TO BIOPROCESS AND DOWNSTREAM PROCESSING	5 HRS
MODULE 2: DESIGN AND OPERATION OF BATCH, FED-BATCH, AND CONTINUOUS	5 HRS
MODULE 3: OPTIMIZATION OF PHYSICAL AND CHEMICAL PARAMETERS	5 HRS
MODULE 4: STRUCTURED AND UNSTRUCTURED MODELS	5 HRS
MODULE 5: MATHEMATICAL COMPUTING WITH MATLAB	5 HRS



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DATE	TITLE	RESOURCE PERSON
20-02-2023	Introduction to bioprocess and downstream processing	Dr.Stanley Abraham
21-02-2023	Design and operation of batch, fed-batch, and continuous	Dr.Prakash P
22-02-2023	Optimization of physical and chemical parameters	Dr.Stanley Abraham
23-02-2023	Structured and unstructured models	Dr.Prakash P
24-02-2023	Mathematical Computing with MATLAB	Dr. Vedhanarayanan

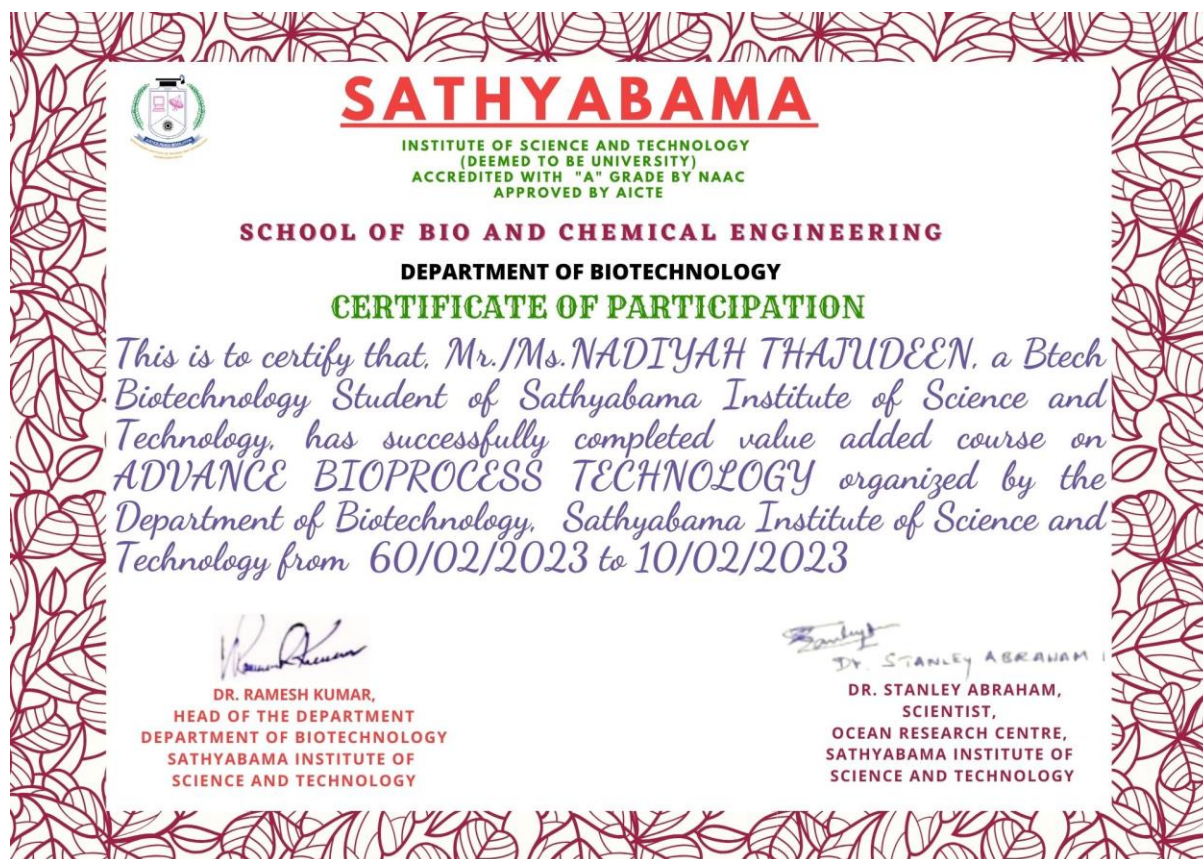


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COURSE OUTCOMES :

- **STUDENTS WILL DEMONSTRATE A COMPREHENSIVE UNDERSTANDING OF VARIOUS BIOPROCESS MODES, INCLUDING BATCH, FED-BATCH, AND CONTINUOUS OPERATIONS, BY DESIGNING AND SIMULATING BIOPROCESSES FOR SPECIFIC APPLICATIONS.**
- **THEY WILL BE ABLE TO CRITICALLY EVALUATE THE ADVANTAGES AND LIMITATIONS OF EACH MODE AND CHOOSE THE MOST SUITABLE ONE BASED ON PROCESS REQUIREMENTS.**



LIST OF PARTICIPANTS B. TECH BIOTECHNOLOGY (BATCH: 2022-26)

S. No.	Reg. Number	Student Name
1	42230001	AADHARSHINI A S
2	42230002	AAQILA S
3	42230003	ABEL JOHN BINOY
4	42230004	ABHINAYAA SOBAN BABU
5	42230005	AKSHAYA G
6	42230006	ALLBERT WILSON J
7	42230007	AMIRTHAGANESH R
8	42230008	ANISH KRISHNAN R
9	42230009	ANJANA S
10	42230010	ANUSHKA SINGH
11	42230011	ARRUN AL RASHID A
12	42230012	ARSHA A S
13	42230013	ASHRITA SRIVALLI PADMASOLALA
14	42230014	AVINASH KUMARAGURUPARAN
15	42230015	BACHINA NAGA SIRI
16	42230016	BHARANITHARAN N
17	42230017	BHARGAVI R
18	42230018	BHUVANRAJ V
19	42230019	CHENNUPATI SHALINI
20	42230020	DANYA SRI R S
21	42230021	DARSHNI SHREE A
22	42230022	DEEPIKA S
23	42230023	DEEPIKA V
24	42230025	DHARUN SURYA D
25	42230026	DHEEPtha BALAJI
26	42230027	DIVYADHARSHINI I
27	42230029	DONELLI LOHITHA KRANTHI
28	42230030	GAYATHRI K
29	42230031	GEOLIN J
30	42230032	HARINISHREE V

31	42230033	HARSHITHA A
32	42230034	HARSHITA
33	42230035	HEMLATA S
34	42230036	HEMANTH KARTHIKEYAN P
35	42230037	HEMNATH S
36	42230038	HIBAH AFSHEEN
37	42230039	ISWARYA LAKSHMI A
38	42230040	JAGAN R
39	42230041	JAIKISHAN G
40	42230042	JAVEN INFANT J
41	42230043	JAYHARINI B
42	42230045	KATHIRAVAN N
43	42230046	KAVINAYA S V
44	42230047	KEDHARNATH R
45	42230048	KEDRICK A
46	42230049	KEERTHANA REDDY S
47	42230050	KEERTHIKA S
48	42230051	KIRUTHIKA A R
49	42230052	KRISHA A
50	42230054	KRISHNA PRANAV P B
51	42230055	KRITHIKA S
52	42230056	KUMMARI BRAHMA REDDY
53	42230057	LISANTH S P
54	42230058	MADHUMITHA B S
55	42230059	MADHUVARSHINI K
56	42230060	MAGHASRI T
57	42230061	MITHILA R
58	42230062	MONISHA R
59	42230063	NADIYAH THAJUDEEN
60	42230064	NAFEESA S



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SCHOOL OF BIO AND CHEMICAL ENGINEERING
DEPARTMENT OF BIOTECHNOLOGY

Organizes value added course on

Advance Bioprocess Technology

DATE: 20-02-2023 to 24-02-2023 (5 working Days)

TIME: 9.00 PM TO 4.30 PM

RESOURCE PERSONS

DR. VEDHANARAYANAN,	, DR. PRAKASH P	DR. L.STANLEY ABRAHAM
ASSISTANT PROFESSOR,	ASSISTANT PROFESSOR,	PROFESSOR, RESEARCH SCIENTIST
DEPARTMENT OF ELECTRONICS AND	DEPARTMENT OF BIOTECHNOLOGY	CENTRE FOR OCEAN RESEARCH
INSTRUMENTATION.		

ELIGIBLE STUDENTS- B.TECH AND M.TECH BIOTECHNOLOGY

VENUE:

**Department of Biotechnology, Bioprocess
 Engineering lab**

***Attendance is mandatory for all classes**

ORGANIZER
Dr. Prakash P
Assistant Professor
Department of Biotechnology

FOR REGISTRATION CONTACT: Dr. PRAKASH P - 9840522688



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- **THEY WILL BE ABLE TO CRITICALLY EVALUATE THE ADVANTAGES AND LIMITATIONS OF EACH MODE AND CHOOSE THE MOST SUITABLE ONE BASED ON PROCESS REQUIREMENTS.**



LIST OF PARTICIPANTS B.TECH BIOTECHNOLOGY (2022-26) AND M.TECH BIOTECHNOLOGY (2022-24)

S.NO	REG NO	STUDENTS NAME
1.	42230065	NEERAJA T
2.	42230066	NIRANJANA P
3.	42230067	NISHAANTH P K
4.	42230068	OVIYA B
5.	42230069	PADARTHY NAGA DURGA RAAGA HARSHITHA
6.	42230070	PAUL SNOWIN FERNANDO C
7.	42230071	PAVULURI SATHWIKA
8.	42230072	PRASANNA VISHAL B
9.	42230073	PREETHAM SAI K
10.	42230074	PRIYA VARSHA A
11.	42230075	PRIYANKA K
12.	42230076	PULI MADHURI
13.	42230077	RAGHUL RAJAH S
14.	42230078	RAKSHAIYA YADAV G
15.	42230079	RAMANAN K
16.	42230080	RAMPRASATH J
17.	42230081	REAN VERGIS MANU
18.	42230083	RUDRARAJU JASWANTH BHAVANI VARMA
19.	42230084	SACHIN B
20.	42230086	SAMMIKSHA S
21.	42230087	SANDHYA PRADEEP
22.	42230088	SANJANA SINGH G
23.	42230089	SHALINI SHREE. P
24.	42230091	SHARVESH R
25.	42230092	SHIV SANTHOSE S
26.	42230093	SHREEJA P
27.	42230094	SHREENIDHI V
28.	42230095	SHRUTI B
29.	42230096	SIDDHARTH KANNAN
30.	42230097	SOWMIYAA SHRI R
31.	42230098	SOWMYA NARAYAN M S
32.	42230099	SUBASH M
33.	42230100	SUDHARSUN M
34.	42230101	SUDHIR J

35.	42230102	TADIPARTHI AMRITHA ROSE
36.	42230103	R TEJASHREE
37.	42230104	TEJHASHWINI L K
38.	42230105	THENDRAL R S
39.	42230106	TRIVIKRAMAN SELVAKUMAR
40.	42230107	TRUPTI JAIN
41.	42230108	VARSHA E
42.	42230109	VIJAYA KUMAR K
43.	42230110	VIJAYAVARSINE R
44.	42230111	VISHWA K
45.	42230112	WASEEM AHAMED N A
46.	42230113	YATHIESRI M
47.	42230114	MANTENA JAYANTH SIVA SAI VARMA
48.	42230115	SHIVANI M
49.	42230117	MEGHNA R
50.	42230118	SRIMATHI S
51.	42230120	SHOZHAVARAM SREYA
52.	42230121	SAI SRAVANTHI K
53.	42230122	SAMUEL V
54.	42230123	SAMYUKTHA A
55.	42230125	AKSHAYA PRIYA R
56.	42230126	VISHAL RAJ
57.	42230065	NEERAJA T

LIST OF PARTICIPANTS M.TECH BIOTECHNOLOGY (2022-24)

S.NO	REGISTER NO	STUDENTS NAME
1	42810001	AAKASH RAJAN S
2	42810002	GOKUL AKASH S
3	42810003	J HARIPRIYA
4	42810004	KOWSALYA DEVI V
5	42810005	SHANMUGAPRIYA S
6	42810006	NIROLIN NANCY S