

### LIST OF CERTIFICATE PROGRAMS

A. Y: 2018-2019

S. NO.	NAME OF THE PROGRAM	DATE	NO OF STUDENTS PARTICIPATED
1	A Two Week Add-On Program on Cloud Computing with Amazon Web Services	01.08.2018 To 18.08.2018	59
2	A Two Week Add-On Program on Microprocessor Architecture and Programming	11.03.2019 To 27.03.2019	71
3	A Two Week Add-On Program on Microbes in Industrial Applications	03.08.2018 To 21.08.2018	113
4	A Two Week Add-On Program on Uses of Biodegradable Plastics	03.12.2018 To 19.12.2018	113
5	A Two Week Add-On Program on Mastering Transgenic Plant Technology	03.09.2018 To 20.09.2018	62
6	A Two Week Add-On Program on Diagnostic Clinical Microbiology	06.09.2018 To 22.09.2018	31

  
DIRECTOR

Date: \_\_\_\_\_  
MITS School of Biotechnology  
Bhubaneswar

Date: 20-07-2018

## CIRCULAR

It is hereby informed to all final/pre-final year students of BCA that the Department of Computer Science of this institute is conducting a Two Week Add-On program on **CLOUD COMPUTING WITH AMAZON WEB SERVICES** from **01-08-2018** to **18-08-2018**. Interested students shall register their names at the office of the coordinator on or before 4 PM, 28-07-2018.

**Venue of the Programme** : Conference Hall, MITS School of Biotechnology.




**Coordinator** : **Prof. Kabita Sahoo**  
Asst. Professor  
Department of Computer Science  
MITS School of Biotechnology



**DIRECTOR**

Director  
MITS School of Biotechnology  
Bhubaneswar

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			A Nayek	S Singh	A Das
CE: For information					

## REGISTRATION FORM

Name.....

Course.....Yr(1/2/3)

Roll No.....

Institution.....

Address for Communication:

Mobile.....

Email.....

Signature

Application to be submitted online in the above format along with the scanned copy of the registration form.

Last Date of Registration: 28.07.2018

**Address for Communication**

Email: [kabitasahoo789@gmail.com](mailto:kabitasahoo789@gmail.com)

**Prof. Kabita Sahoo**  
Coordinator, Asst Professor  
Contact: +91-8908232258

**Chief Patron**

**Er. Sriram Panda**  
Chief Executive  
MITS Group

**Patron**

**Dr. G.K. Panda**  
Director  
MITS School of Biotechnology

**Convenor**

**Prof. Benu Madhab Rath**  
Asst Professor  
Dept. of Computer Science

**Coordinator**

**Prof. Kabita Sahoo**  
Asst Professor  
Dept. of Computer Science

**Advisory Committee**

**Prof. Sidharth Parida**  
Dept. of Biotechnology

**Dr. Smaranika Sahu**  
Dept. of Biotechnology

**Dr. Mousumi Mishra**  
Dept. of Biotechnology

**A TWO-WEEK ADD-ON  
PROGRAMME  
ON**



**CLOUD COMPUTING WITH  
AMAZON WEB SERVICES**

Programme Schedule

01-08-2018 to 18-08-2018



Organized By:

**मिट्स जैव प्रौद्योगिकी संस्थान**  
**MITS SCHOOL OF BIOTECHNOLOGY**

Venue:

2(P), Infocity, Patia  
Bhubaneswar-751024 (Odisha)  
Website: [msb.ac.in](http://msb.ac.in)  
Email: [principal@msb.ac.in](mailto:principal@msb.ac.in)

## About College

Consistently ranking as the best institute in the eastern part of India, MITS School of Biotechnology (MSB) is a self financing professional organisation that was founded in 2003. The faculty consists of having qualification of PhD, M.Tech as well as experience in both Academics and industrial research, so as the student graduates, who are equally impressive mostly working in leading industries of Biotechnology, Pharma and IT. MSB is considered to be most selective, accepting, growing and proven institute under Utkal University. The institute is located at the prime location of Infocity, Bhubaneswar. This prestigious institute includes popular programs of Biotechnology, Applied Micro Biology and Computer Science.

## Courses Offered at MSB

BCA	- 3 Years
B.Sc Biotechnology	- 3 Years
M.Sc Biotechnology	- 2 Years
M.Sc App. Microbiology	- 2 Years

## About Programme

Amazon Web Services (AWS) is a cloud computing platform that offers flexible, reliable, scalable, easy-to-use and cost-effective cloud computing solutions.

AWS is the world's most comprehensive and broadly adopted cloud platform, offering over 175 fully featured services from data centers globally. Millions of customers including the fastest-growing startups, largest enterprises, and leading government agencies—are using AWS to lower costs, become more agile, and innovate faster



## Objective of the Programme

The main objective of studying cloud computing with Amazon Web Services is to learn how to use the AWS suite of services to build and deploy scalable, reliable, and cost-effective applications in the cloud. By learning AWS, you can gain a competitive edge in the job market and enhance your career prospects



### Resource Person

**Dr. Tapaswini Nayak**  
Head, Dept. of Computer Science  
MSB, Bhubaneswar

Date: 15-05-2028

### REGISTERED STUDENT LIST

Name of the Programme: Two Week Add-On program on **CLOUD COMPUTING WITH AMAZON WEB SERVICES**  
01-08-2018 to 18-08-2018

SN	Reg. No	Name of the Student	Year Branch	Signature
1	Y18CS01	ABHAY VISHWAKARMA	3rd Year BCA	Abhay Vishwakarma
2	Y18CS02	AJAY KUMAR SARKAR	3rd Year BCA	Ajay Kumar Sarkar
3	Y18CS03	AMIT KUMAR MAHAPATRA	3rd Year BCA	Amit Kumar Mahapatra
4	Y18CS04	ANINDYA BISWAS	3rd Year BCA	Anindya Biswas
5	Y18CS05	ANKIT KUMAR GUPTA	3rd Year BCA	Ankit Kumar Gupta
6	Y18CS06	ANKIT PADHY	3rd Year BCA	Ankit Padhy
7	Y18CS07	ANSHUMAN JENA	3rd Year BCA	Anshuman Jena
8	Y18CS08	ARABINDA PANDA	3rd Year BCA	Arundhati Das
9	Y18CS09	ARUNDHATI DAS	3rd Year BCA	Arundhati Das
10	Y18CS10	AVILASH MAHAPATRA	3rd Year BCA	Avilash Mahapatra
11	Y18CS11	BEGUM TALAT PARWEEN	3rd Year BCA	Begum Talat Parween
12	Y18CS12	BHABANI SANKAR MALLIA	3rd Year BCA	Bhabani Sankar Mallia
13	Y18CS13	BISHAL KUMAR NAYAK	3rd Year BCA	Bishal Kumar Nayak
14	Y18CS14	BISHAL MITRA	3rd Year BCA	Bishal Mitra
15	Y18CS15	BISWAJIT SAHOO	3rd Year BCA	BISWAJIT SAHOO
16	Y18CS16	CH.V.R LAKSHMI	3rd Year BCA	CH.V.R LAKSHMI
17	Y18CS17	DEBABRATA MISHRA	3rd Year BCA	Debabrata Mishra
18	Y18CS18	DEBASIS CHAMPATIRAY	3rd Year BCA	Debasis Champatiray
19	Y18CS19	DEBIDATTA MOHANTY	3rd Year BCA	Debidatta Mohanty
20	Y18CS20	DEEPAK KUMAR SAHOO	3rd Year BCA	Deepak Kumar Sahoo
21	Y18CS21	DIBYAKANTA MISHRA	3rd Year BCA	Debyakanta Mishra
22	Y18CS22	ELINA SHREE ELOVA	3rd Year BCA	ELINA SHREE ELOVA
23	Y18CS23	GANESWAR BEHERA	3rd Year BCA	GANESWAR BEHERA
24	Y18CS24	GLEKHA NAYAK	3rd Year BCA	Glekha Nayak
25	Y18CS25	GOURAV MANDAL	3rd Year BCA	Gourav Mandal
26	Y18CS26	JAGATANANDA PATTANAYAK	3rd Year BCA	Jagatananda pattanayak

27	Y18CS27	JITENDRA KUMAR NAYAK	3rd YearBCA	Jitendra kumar Nayak
28	Y18CS28	KUMAR HARSH	3rd YearBCA	Kumar Harsh
29	Y18CS29	KUMAR SUBHAM SINGH	3rd YearBCA	Kumar subham Singh
30	Y18CS30	KUNJABIHARI ROUT	3rd YearBCA	Kunjabihari Rout
31	Y18CS31	LIPSITA MISHRA	3rd YearBCA	Lipsita Mishra
32	Y18CS32	MANESH PRASAD SETHI	3rd YearBCA	Manesh Prasad Sethi
33	Y18CS33	NEHA PARICHHA	3rd YearBCA	Neha Parichha
34	Y18CS34	NITISH RANJAN MANGRAJ	3rd YearBCA	Nitish ranjan Mangraj
35	Y18CS35	PARAS RANJAN SAHOO	3rd YearBCA	Paras Ranjan saho
36	Y18CS36	PRANABESH SUBUDHI	3rd YearBCA	Pranabesh Subudhi
37	Y18CS37	PRASANT KUMAR SAHOO	3rd YearBCA	Prasant Kumar Sahoo
38	Y18CS38	PRAVAT KUMAR BEHERA	3rd YearBCA	Pravit Kumar Behera
39	Y18CS39	PRITIMAYEE SENAPATI	3rd YearBCA	Pritimayee senapati
40	Y18CS40	PRITSH NANDI	3rd YearBCA	Pritish Nandi
41	Y18CS41	PRIYA PRASAD MAHARANA	3rd YearBCA	Priya prasad Maharana
42	Y18CS42	PRIYAJIT RATH	3rd YearBCA	Priyaji + Rath
43	Y18CS43	RAJ PRASAD	3rd YearBCA	Raj Prasad
44	Y18CS44	RAJESH KUMAR PATRA	3rd YearBCA	Rajesh Kumar Patra
45	Y18CS45	RANJIT KUMAR ROUT	3rd YearBCA	Ranjit Kumar Rout
46	Y18CS46	RASHMI RANJAN BISWAL	3rd YearBCA	Rashmi Ranjan Biswal
47	Y18CS47	RASHMI REKHA DAS	3rd YearBCA	Rashmirakha Das
48	Y18CS48	SNEHA KUMARI	3rd YearBCA	Sneha Kumari
49	Y18CS49	SOUMYA RANJAN DEY	3rd YearBCA	Soumya Ranjan Dey
50	Y18CS50	SOURAV KUMAR ROUT	3rd YearBCA	Sourav Kumar Rout
51	Y18CS51	SUBHRASU KUMAR BEHERA	3rd YearBCA	Subhrasu Kumar Behera
52	Y18CS52	SUDEEPA BASURI	3rd YearBCA	Sudeepa Basuri
53	Y18CS53	SUPRAVA RANA	3rd YearBCA	Suprava Rana
54	Y18CS54	SURAJ ROSHAN MISHRA	3rd YearBCA	Suraj Roshan Mishra
55	Y18CS55	SWADHIN KUMAR BEHERA	3rd YearBCA	Swadhin Kumar Behera
56	Y18CS56	SWASTIK MOHANTY	3rd YearBCA	Swastik mohanty
57	Y18CS57	TANU PRIYA	3rd YearBCA	Tanu Priya
58	Y18CS58	TAPAS KUMAR PATTNAIK	3rd YearBCA	Tapas Kumar Pattnaik
59	Y18CS59	VISHAL NARAYANA DEBATA	3rd YearBCA	Vishal Narayana Debata

K. Saha  
COORDINATOR

J. N.  
HOD

  
DIRECTOR  
MITS School of Biotechnology  
Bhubaneswar

### COURSE SCHEDULE

Name of the Program: A Two Week Add-On Programme on **CLOUD COMPUTING WITH AMAZON WEB SERVICES**  
01-08-2018 to 18-08-2018

SN	Date	Topic	Resource Person
1	01-08-2018	Computer Networks	Dr. T. Nayak
2	02-08-2018	Computer Networks	Dr. T. Nayak
3	03-08-2018	Distributed System	Dr. T. Nayak
4	04-08-2018	Distributed System	Dr. T. Nayak
5	06-08-2018	High Performance Computing	Dr. T. Nayak
6	07-08-2018	High Performance Computing	Dr. T. Nayak
7	08-08-2018	Information Storage Management	Dr. T. Nayak
8	09-08-2018	Information Storage Management	Dr. T. Nayak
9	10-08-2018	Interfacing with Virtualization	Dr. T. Nayak
10	11-08-2018	Interfacing with Virtualization	Dr. T. Nayak
11	13-08-2018	Cloud Computing Tools and Techniques	Dr. T. Nayak
12	14-08-2018	Cloud Computing Tools and Techniques	Dr. T. Nayak
13	16-08-2018	Hands On Session	Dr. T. Nayak
14	17-08-2018	Hands On Session	Dr. T. Nayak
15	18-08-2018	Hands On Session	Dr. T. Nayak

  
COORDINATOR

  
HOD

  
DIRECTOR  
MITS School of Biotechnology  
Bhubaneswar

## PROGRAM REPORT

20-08-2018

**Name of the Event:** A Two Week Add-On Programme on **CLOUD COMPUTING WITH AMAZON WEB SERVICES**

**Date:** 01-08-2018 To 18-08-2018

**Resource Person:** **Dr. T. Nayak**

Assoc. Professor, Department of Computer Science,  
MSB, Bhubaneswar.

Contact Number: 9861599215

**Coordinator:** **Prof. Kabita Sahoo**

Asst. Professor, Department of Computer Science,  
MSB, Bhubaneswar.

**Number of students attended:** 59

**Venue:** Conference Hall, MITS School of Biotechnology.

MITS school of Biotechnology, Bhubaneswar, organized a two week add-on program on **CLOUD COMPUTING WITH AMAZON WEB SERVICES** for BCA final semester students. **Dr. T. Nayak** was the resource person for the said event. Cloud computing is the on-demand delivery of IT resources through the internet with pay-to-use charges. Instead of buying and maintaining computer products and services, you can pay to use a cloud computing service. It saves you the time, effort, and cost of doing it all by yourself. Totally 59 students were participated in this training program and after the completion of the program they were able to understand the following objectives and learning outcomes.

### Objectives:

1. Describe cloud computing.
2. Know about advantages and applications of cloud computing.
3. Elaborate about history of cloud computing.
4. Know about challenges of cloud computing.

### Learning Outcomes:

1. Analyze and document problems with existing software development strategies as applied to web design.
2. Investigate and Employ alternative Agile Development Strategies.

Pg 1 of 2



3. Evaluate cloud services, Infrastructure as a service, Platform as a service, and Software as a service and determine when they are appropriate to use.
4. Compare and contrast Web based client-server models and cloud models and their associated models of computation.
5. Design and implement cloud applications.
6. Demonstrate a critical understanding of how applications are deployed and hosted in the cloud and take advantage of elastic resources.
7. Discuss the role of virtualization in the cloud.



A Two Week Add-On Program on **CLOUD COMPUTING WITH AMAZON WEB SERVICES**,  
01-08-2018 To 18-08-2018, Dr. T. Nayak.

This course was very useful to the students and their feedback is positive. The management and Professor (Dr.) G. K. Panda director of MSB thanked the resource person and participants for making the programme successful.

*K. Sahoo*  
COORDINATOR

*M. Nayak*  
HOD

*G. K. Panda*  
DIRECTOR

Director  
MITS School of Biotechnology  
Bhubaneswar



मिड्स जैव प्रौद्योगिकी संस्थान  
**MITS SCHOOL OF BIOTECHNOLOGY**

2(P), INFOCITY, PATIA, BHUBANESWAR-751024



## *Certificate*

The MITS School of Biotechnology hereby certifies that

**AJAY KUMAR SARKAR**  
BCA-3rd Year

has successfully completed  
A Two Week Add-On Programme On  
**CLOUD COMPUTING WITH AMAZON WEB SERVICES**  
01-08-2018 To 18-08-2018

*K. Sahoo*

COORDINATOR

*[Signature]*

DIRECTOR



मिट्स जैव प्रौद्योगिकी संस्थान  
**MITS SCHOOL OF BIOTECHNOLOGY**

2(P), INFOCITY, PATIA, BHUBANESWAR-751024



# Certificate

The MITS School of Biotechnology hereby certifies that

**ANKIT PADHY**  
BCA-3rd Year

has successfully completed  
A Two Week Add-On Programme On  
**CLOUD COMPUTING WITH AMAZON WEB SERVICES**  
01-08-2018 To 18-08-2018

*K. Sahoo*

COORDINATOR

*C. S. Sahoo*

DIRECTOR



मिट्स जैव प्रौद्योगिकी संस्थान  
**MITS SCHOOL OF BIOTECHNOLOGY**  
2(P), INFOCITY, PATIA, BHUBANESWAR-751024



# Certificate

The MITS School of Biotechnology hereby certifies that

**BISHAL MITRA**  
BCA-3rd Year

has successfully completed  
A Two Week Add-On Programme On  
**CLOUD COMPUTING WITH AMAZON WEB SERVICES**  
01-08-2018 To 18-08-2018

*K. Lahoo*

COORDINATOR

*C. S. S.*

DIRECTOR



मिट्स जैव प्रौद्योगिकी संस्थान  
**MITS SCHOOL OF BIOTECHNOLOGY**

2(P), INFOCITY, PATIA, BHUBANESWAR-751024



## *Certificate*

The MITS School of Biotechnology hereby certifies that

**BISWAJIT SAHOO**

BCA-3rd Year

has successfully completed  
A Two Week Add-On Programme On  
**CLOUD COMPUTING WITH AMAZON WEB SERVICES**  
01-08-2018 To 18-08-2018

*K. Sahoo*

COORDINATOR

*C. Sahoo*

DIRECTOR



मिट्स जैव प्रौद्योगिकी संस्थान  
**MITS SCHOOL OF BIOTECHNOLOGY**  
2(P), INFOCITY, PATIA, BHUBANESWAR-751024



## *Certificate*

The MITS School of Biotechnology hereby certifies that

**DEEPAK KUMAR SAHOO**  
BCA-3rd Year

has successfully completed  
A Two Week Add-On Programme On  
**CLOUD COMPUTING WITH AMAZON WEB SERVICES**  
01-08-2018 To 18-08-2018

*K. Sahoo*

COORDINATOR

*Opal*

DIRECTOR



मिड्स जैव प्रौद्योगिकी संस्थान  
**MITS SCHOOL OF BIOTECHNOLOGY**

2(P), INFOCITY, PATIA, BHUBANESWAR-751024



## *Certificate*

The MITS School of Biotechnology hereby certifies that

**GOURAV MANDAL**  
BCA-3rd Year

has successfully completed  
A Two Week Add-On Programme On  
**CLOUD COMPUTING WITH AMAZON WEB SERVICES**  
01-08-2018 To 18-08-2018

*K. Saha*

COORDINATOR

*C. Saha*

DIRECTOR



मिट्स जैव प्रौद्योगिकी संस्थान  
**MITS SCHOOL OF BIOTECHNOLOGY**  
2(P), INFOCITY, PATIA, BHUBANESWAR-751024



# *Certificate*

The MITS School of Biotechnology hereby certifies that

**LIPSITA MISHRA**  
BCA-3rd Year

has successfully completed  
A Two Week Add-On Programme On  
**CLOUD COMPUTING WITH AMAZON WEB SERVICES**  
01-08-2018 To 18-08-2018

*K. Sahoo*

COORDINATOR

*[Signature]*

DIRECTOR





मिट्स जैव प्रौद्योगिकी संस्थान  
**MITS SCHOOL OF BIOTECHNOLOGY**

2(P), INFOCITY, PATIA, BHUBANESWAR-751024



## *Certificate*

The MITS School of Biotechnology hereby certifies that

**RAJ PRASAD**  
BCA-3rd Year

has successfully completed  
A Two Week Add-On Programme On  
**CLOUD COMPUTING WITH AMAZON WEB SERVICES**  
01-08-2018 To 18-08-2018

*K. Sahoo*

COORDINATOR

*[Signature]*

DIRECTOR



मिड्स जैव प्रौद्योगिकी संस्थान  
**MITS SCHOOL OF BIOTECHNOLOGY**

2(P), INFOCITY, PATIA, BHUBANESWAR-751024



# *Certificate*

The MITS School of Biotechnology hereby certifies that

**SNEHA KUMARI**  
BCA-3rd Year

has successfully completed  
A Two Week Add-On Programme On  
**CLOUD COMPUTING WITH AMAZON WEB SERVICES**  
01-08-2018 To 18-08-2018

*K. Sahoo*

COORDINATOR

*C. S. S.*

DIRECTOR



मिट्स जैव प्रौद्योगिकी संस्थान  
**MITS SCHOOL OF BIOTECHNOLOGY**  
2(P), INFOCITY, PATIA, BHUBANESWAR-751024



## *Certificate*

The MITS School of Biotechnology hereby certifies that

**SUPRAVA RANA**  
BCA-3rd Year

has successfully completed  
A Two Week Add-On Programme On  
**CLOUD COMPUTING WITH AMAZON WEB SERVICES**  
01-08-2018 To 18-08-2018

*K. Sahoo*

COORDINATOR

*Cepre*

DIRECTOR

Date: 01-03-2019

## CIRCULAR

It is hereby informed to all final/pre-final year students of BCA that the Department of Computer Science of this institute is conducting a Two Week Add-On program on **MICROPROCESSOR ARCHITECTURE AND PROGRAMMING** from 11-03-2019 to 27-03-2019. Interested students shall register their names at the office of the coordinator on or before 4 PM, 08-03-2019.




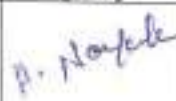
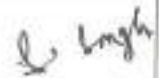
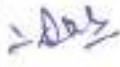
**Venue of the Programme** : Conference Hall, MITS School of Biotechnology.

**Coordinator** : **Prof. Kabita Sahoo**  
Asst. Professor  
Department of Computer Science  
MITS School of Biotechnology



**DIRECTOR**  
Director  
MITS School of Biotechnology  
Bhubaneswar

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## REGISTRATION FORM

Name.....

Course.....Yr(1/2/3)

Roll No.....

Institution.....

Address for Communication:

Mobile.....

Email.....

Signature

Application to be submitted online in the above format along with the scanned copy of the registration form.

Last Date of Registration: 08-03-2019

Email: kabitasahoo789@gmail.com

Address for Communication

**Prof. Kabita Sahoo**  
Coordinator, Asst Professor  
Contact: +91-8908232258

**Chief Patron**  
**Er. Sriram Panda**  
Chief Executive  
MITS Group

**Patron**  
**Dr. G.K. Panda**  
Director  
MITS School of Biotechnology

**Convenor**  
**Dr. Tapaswini Nayak**  
Head  
Dept. of Computer Science

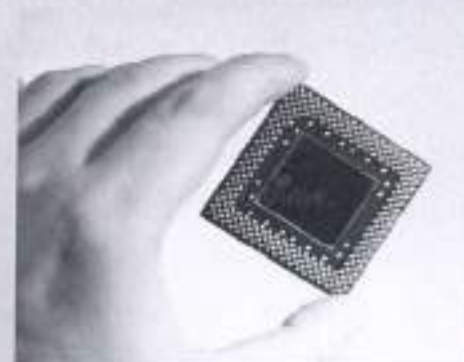
**Coordinator**  
**Prof. Kabita Sahoo**  
Asst Professor  
Dept. of Computer Science

**Advisory Committee**  
**Prof. Benu Madhab Rath**  
Dept. of Computer Science

**Dr. Manisha Patnaik**  
Dept. of Biotechnology

**Dr. Mousumi Mishra**  
Dept. of Biotechnology

**A TWO-WEEK ADD-ON  
PROGRAMME  
ON**



**MICROPROCESSOR ARCHITECTURE  
AND PROGRAMMING**

Programme Schedule

11-03-2019 To 27-03-2019



Organized By:

**मिट्स जैव प्रौद्योगिकी संस्थान**  
**MITS SCHOOL OF BIOTECHNOLOGY**

Venue:

2(P), Infocity, Patia  
Bhubaneswar-751024 (Odisha)  
Website: msb.ac.in  
Email: principal@msb.ac.in

## About College

Consistently ranking as the best institute in the eastern part of India, MITS School of Biotechnology (MSB) is a self financing professional organisation that was founded in 2003. The faculty consists of having qualification of PhD, M.Tech as well as experience in both Academics and industrial research, so as the student graduates, who are equally impressive mostly working in leading industries of Biotechnology, Pharma and IT. MSB is considered to be most selective, accepting, growing and proven institute under Utkal University. The institute is located at the prime location of Infocity, Bhubaneswar. This prestigious institute includes popular programs of Biotechnology, Applied Micro Biology and Computer Science.

## Courses Offered at MSB

BCA	- 3 Years
B.Sc Biotechnology	- 3 Years
M.Sc Biotechnology	- 2 Years
M.Sc App. Microbiology	- 2 Years

## About Programme

To establish a solid understanding of the fundamental principles of microprocessors and their practical applications, the focus is on interfacing external devices with the processor in accordance with specific user requirements. This approach not only imparts the knowledge needed to create novel solutions but also equips individuals to address real-time problems effectively. In essence, it's about building a comprehensive foundation that empowers individuals to innovate and develop cutting-edge products and solutions in response to real-world challenges.



[www.msb.ac.in](http://www.msb.ac.in)

## Objective of the Programme

This course acquaints students with the fundamentals of microprocessors and microcontrollers, covering their architecture, programming, and interfacing. It aims to provide a solid foundation for students to design real-world applications utilizing these technologies.



Resource Person

**Dr. T. Nayak**  
Head, Dept. of Computer Science  
MSB, Bhubaneswar

Date: 11-03-2019

### REGISTERED STUDENT LIST

Name of the Programme: Two Week Add-On program on MICROPROCESSOR  
ARCHITECTURE AND PROGRAMMING

11-03-2019 to 27-03-2019

SN	Reg. No	Name of the Student	Year Branch	Signature
1	Y19CS01	DIPEN SANKAR NAYAK	BCA 2 <sup>nd</sup> Year	Dipen Sankar Nayak
2	Y19CS02	ANIL KU. SRICHANDAN	BCA 2 <sup>nd</sup> Year	Anil Kumar Srichandan
3	Y19CS03	ABHISEK KU. DUTTA	BCA 2 <sup>nd</sup> Year	Abhisek Ku. Dutta
4	Y19CS04	AYUSHMITA DAS	BCA 2 <sup>nd</sup> Year	Ayushmita Das
5	Y19CS05	ASHISH PATRA	BCA 2 <sup>nd</sup> Year	Ashish Patra
6	Y19CS06	AMIT KU. PANDA	BCA 2 <sup>nd</sup> Year	Amit Ku. Panda
7	Y19CS07	ASHISH KU. DALAI	BCA 2 <sup>nd</sup> Year	Ashish Dalai
8	Y19CS08	ASIFA AFRIN	BCA 2 <sup>nd</sup> Year	Asifa Afrin
9	Y19CS09	AMIT PRADHAN	BCA 2 <sup>nd</sup> Year	Amit Pradhan
10	Y19CS10	ALOK KU. NAYAK	BCA 2 <sup>nd</sup> Year	Alok Ku. Nayak
11	Y19CS11	BHABANI JENA	BCA 2 <sup>nd</sup> Year	Bhabani Jena
12	Y19CS12	BADAL KUMAR MANTRY	BCA 2 <sup>nd</sup> Year	Badal Kumar Mantry
13	Y19CS13	BISWAJIT PANDA	BCA 2 <sup>nd</sup> Year	Biswaji Panda
14	Y19CS14	D.SUMAN	BCA 2 <sup>nd</sup> Year	D-Suman
15	Y19CS15	DEBASISH SENAPATI	BCA 2 <sup>nd</sup> Year	Debasish Senapati
16	Y19CS16	DIBYAJYOTI PATTANAYAK	BCA 2 <sup>nd</sup> Year	Dibyajyoti Pattanayak
17	Y19CS17	ETISHA BASANTRA	BCA 2 <sup>nd</sup> Year	Etisha Basantra
18	Y19CS18	G.PUSPANJALI REDDY	BCA 2 <sup>nd</sup> Year	G. Puspajali Reddy
19	Y19CS19	HELEN PATRA	BCA 2 <sup>nd</sup> Year	Helen Patra
20	Y19CS20	HARE KRISHNA PAUL	BCA 2 <sup>nd</sup> Year	Hare Krishna Paul
21	Y19CS21	JAGESHWAR KUMAR	BCA 2 <sup>nd</sup> Year	Jageshwar Kumar
22	Y19CS22	JITEN KUMAR BANUA	BCA 2 <sup>nd</sup> Year	Jiten Kumar Banua
23	Y19CS23	KHUSHI SHARMA	BCA 2 <sup>nd</sup> Year	Khushi Sharma

Pg 1 of 3

24	Y19CS24	KHUSHBU KUMARI	BCA 2 <sup>nd</sup> Year	Khushbu Kumari
25	Y19CS25	KRUSHNA CH. NANDA	BCA 2 <sup>nd</sup> Year	Krushna Ch. Nanda
26	Y19CS26	LUSY SHARMA	BCA 2 <sup>nd</sup> Year	Lusy Sharma
27	Y19CS27	MALL MOHANISH	BCA 2 <sup>nd</sup> Year	Mall Mohanish.
28	Y19CS28	MONALISHA SWAIN	BCA 2 <sup>nd</sup> Year	Manalisha Swain
29	Y19CS29	NILANCHAL SAHU	BCA 2 <sup>nd</sup> Year	Nilanchal Saha
30	Y19CS30	PRABHAT PRITY RANJAN BHOI	BCA 2 <sup>nd</sup> Year	Prabhat Prity Ranjan Bhoi
31	Y19CS31	PABITRA DAS	BCA 2 <sup>nd</sup> Year	Pabitra Das
32	Y19CS32	PINKY KUMARY SAHANI	BCA 2 <sup>nd</sup> Year	Pinky Kumary Sahani
33	Y19CS33	PRIYAMBADA SAR	BCA 2 <sup>nd</sup> Year	
34	Y19CS34	RAJESH KUMAR BARAL	BCA 2 <sup>nd</sup> Year	Rajesh Ku. Baral
35	Y19CS35	RASHMIDATTA MISHRA	BCA 2 <sup>nd</sup> Year	Rashmidatta Mishra
36	Y19CS36	ROJANIL MAHAPTRA	BCA 2 <sup>nd</sup> Year	Rojanil Mahaptra
37	Y19CS37	RAJAT KUMAR MAHARANA	BCA 2 <sup>nd</sup> Year	Rajat Kumar Maharana
38	Y19CS38	RAKESH PRAJAPATI	BCA 2 <sup>nd</sup> Year	Rakesh Prajapati
39	Y19CS39	SUNIL KUMAR SAHOO	BCA 2 <sup>nd</sup> Year	Sunil Kumar Sahoo
40	Y19CS40	SIBHADATTA SAHOO	BCA 2 <sup>nd</sup> Year	Sibhadatta Sahoo
41	Y19CS41	SUVENDU SEKHAR SAMAL	BCA 2 <sup>nd</sup> Year	Suwendu Sekhar Samal
42	Y19CS42	SWARNALATA SAHOO	BCA 2 <sup>nd</sup> Year	Swarnalata Sahoo
43	Y19CS43	SUBHENDU PATTNAYAK	BCA 2 <sup>nd</sup> Year	Subhendu Pattnayak
44	Y19CS44	SATYASARBAJIT BEHARA	BCA 2 <sup>nd</sup> Year	Satyasarbajit Behara
45	Y19CS45	SUBBHALAXMI ROUT	BCA 2 <sup>nd</sup> Year	Subbhalaxmi Rout
46	Y19CS46	SHILPA JANA	BCA 2 <sup>nd</sup> Year	Shilpa Jana
47	Y19CS47	SUBBRAT KUMAR BEHARA	BCA 2 <sup>nd</sup> Year	Subbrat Kumar Behara
48	Y19CS48	SRUTI RANJAN PRADHAN	BCA 2 <sup>nd</sup> Year	Sruti Ranjan Pradhan
49	Y19CS49	SHIMAY KUMARA SAHOO	BCA 2 <sup>nd</sup> Year	Shimay Ku. Sahoo



50	Y19CS50	SUDIPTA NAIK	BCA 2 <sup>nd</sup> Year	Subipta Naik
51	Y19CS51	SOUMITRI SAHOO	BCA 2 <sup>nd</sup> Year	Soumitri Sahoo
52	Y19CS52	SASMITA SWAIN	BCA 2 <sup>nd</sup> Year	Sasmita Swain
53	Y19CS53	SAMBIT KUMAR SAHOO	BCA 2 <sup>nd</sup> Year	Sambit Kumar Sahoo
54	Y19CS54	SRISHTI RAJ	BCA 2 <sup>nd</sup> Year	Srishti Raj
55	Y19CS55	SRIPATI HEMA	BCA 2 <sup>nd</sup> Year	Sripati Hema
56	Y19CS56	SATYAKI RANJAN PATRA	BCA 2 <sup>nd</sup> Year	Satyaki Ranjan Patra
57	Y19CS57	SRIDHAR SHUBUDHI	BCA 2 <sup>nd</sup> Year	Sridhar Subudhi
58	Y19CS58	SUBHASHISH NAYAK	BCA 2 <sup>nd</sup> Year	Subhashish Nayak
59	Y19CS59	SOUVAGYA DAS	BCA 2 <sup>nd</sup> Year	Souvagya Das
60	Y19CS60	SWAYAMPURABHA SWAIN	BCA 2 <sup>nd</sup> Year	Swayamprabha Swain
61	Y19CS61	SHRADHASHREE NAYAK	BCA 2 <sup>nd</sup> Year	Shradhashree Nayak
62	Y19CS62	SWETA PANDA	BCA 2 <sup>nd</sup> Year	Sweta Panda
63	Y19CS63	TANMAYA KUMAR MOHARANA	BCA 2 <sup>nd</sup> Year	Tanmaya Kumar Moharana
64	Y19CS64	JAYANTA MOHANTY	BCA 2 <sup>nd</sup> Year	Jayanta Mohanty
65	Y19CS65	CHANDAN THATOI	BCA 2 <sup>nd</sup> Year	Chandan Thatoi
66	Y19CS66	DIBYA RANJAN JENA	BCA 2 <sup>nd</sup> Year	Dibyaranjan Jena
67	Y19CS67	SUBHRANHA BISWAL	BCA 2 <sup>nd</sup> Year	Subhanha Biswal
68	Y19CS68	LALAJI MAHARANA	BCA 2 <sup>nd</sup> Year	Lalaji Maharana
69	Y19CS69	AMIT KUMAR SIA	BCA 2 <sup>nd</sup> Year	Amit Kumar Sia
70	Y19CS70	BISWANATH BASTIA	BCA 2 <sup>nd</sup> Year	Biswanath Bastia
71	Y19CS71	SANDIP KUMAR DAS	BCA 2 <sup>nd</sup> Year	Sandip Kumar Das

K. Sahoo  
COORDINATOR

  
HOD

Pg 3 of 3

  
DIRECTOR  
Director  
MITS School of E-Technology  
Bhubaneswar

### COURSE SCHEDULE

Name of the Program: A Two Week Add-On Programme on **MICROPROCESSOR ARCHITECTURE AND PROGRAMMING**  
11-03-2019 to 27-03-2019

SN	Date	Topic	Resource Person
1	11-03-2019	Architecture of a typical Microprocessor	Dr. T. Nayak
2	12-03-2019	Bus configuration, The CPU module	Dr. T. Nayak
3	13-03-2019	Introduction to assembly language & machine language programming	Dr. T. Nayak
4	14-03-2019	Instruction set of typical microprocessor	Dr. T. Nayak
5	15-03-2019	Subroutine & stack, Timing diagram	Dr. T. Nayak
6	16-03-2019	Memory Interfacing	Dr. T. Nayak
7	18-03-2019	Interfacing input output- port	Dr. T. Nayak
8	19-03-2019	Interrupt & interrupt handling	Dr. T. Nayak
9	20-03-2019	Serial & parallel data transfer scheme	Dr. T. Nayak
10	21-03-2019	Programmed & interrupt driven data transfer	Dr. T. Nayak
11	22-03-2019	Programmable peripheral devices	Dr. T. Nayak
12	23-03-2019	Use of compilers, assembler, linker & debugger.	Dr. T. Nayak
13	25-03-2019	Architecture, Min-max mode	Dr. T. Nayak
14	26-03-2019	Hands On Session	Dr. T. Nayak
15	27-03-2019	Hands On Session	Dr. T. Nayak

*K. Sahoo*  
COORDINATOR

*T. Nayak*  
HOD

*T. Nayak*  
DIRECTOR  
MITS School of Biotechnology  
Bhubaneswar  
Website: [www.msb.ac.in](http://www.msb.ac.in)  
Email: [principal@msb.ac.in](mailto:principal@msb.ac.in)

2(P), Infocity, Patia, Bhubaneswar  
Pin-751024 (Odisha), INDIA

## PROGRAM REPORT

28-03-2019

**Name of the Event:** A Two Week Add-On Programme on **MICROPROCESSOR ARCHITECTURE AND PROGRAMMING**

**Date:** 11-03-2019 To 27-03-2019

**Resource Person:** **Dr. T. Nayak**

Assoc. Professor, Department of Computer Science,  
MSB, Bhubaneswar.

Contact Number: 9861599215

**Coordinator:** **Prof. Kabita Sahoo**

Asst. Professor, Department of Computer Science,  
MSB, Bhubaneswar.

**Number of students attended:** 71

**Venue:** Conference Hall, MITS School of Biotechnology.

MITS school of Biotechnology, Bhubaneswar, organized a two week add-on program on **MICROPROCESSOR ARCHITECTURE AND PROGRAMMING** for BCA second year students. **Dr. T. Nayak** was the resource person for the said event. To provide solid foundation on the fundamentals of microprocessors and applications, interfacing the external devices to the processor according to the user requirements thus, enabling to create novel products and solutions for real time problems. Totally 71 students were participated in this training program and after the completion of the program they were able to understand the following objectives and learning outcomes.

### Objectives:

1. To introduce students with the architecture and operation of typical microprocessors and microcontrollers.
2. To familiarize the students with the programming and interfacing of microprocessors and microcontrollers.
3. To provide strong foundation for designing real world applications using microprocessors and microcontrollers.

### Learning Outcomes:

1. Assess and solve basic binary math operations using the microprocessor and explain the microprocessor's and Microcontroller's internal architecture and its operation within the area of manufacturing and performance.

2. Apply knowledge and demonstrate programming proficiency using the various addressing modes and data transfer instructions of the target microprocessor and microcontroller.
3. Compare accepted standards and guidelines to select appropriate Microprocessor (8085 & 8086) and Microcontroller to meet specified performance requirements.
4. Analyze assembly language programs; select appropriate assemble into machine a cross assembler utility of a microprocessor and microcontroller.



A Two Week Add-On Program on **MICROPROCESSOR ARCHITECTURE AND PROGRAMMING**, 11-03-2019 To 27-03-2019, Dr. T. Nayak.

This course was very useful to the students and their feedback is positive. The management and Professor (Dr.) G. K. Panda director of MSB thanked the resource person and participants for making the programme successful.

K. Sahoo  
COORDINATOR

H. Nayak  
HOD

  
DIRECTOR  
Director  
MITS School of Biotechnology  
Bhubaneswar



मिट्स जैव प्रौद्योगिकी संस्थान  
**MITS SCHOOL OF BIOTECHNOLOGY**  
2(P), INFOCITY, PATIA, BHUBANESWAR-751024



## *Certificate*

The MITS School of Biotechnology hereby certifies that

**ASHISH PATRA**  
BCA-2nd Year

has successfully completed  
A Two Week Add-On Programme On  
**MICROPROCESSOR ARCHITECTURE AND PROGRAMMING**  
11-03-2019 To 27-03-2019

*K. Sekhar*

COORDINATOR

*[Signature]*

DIRECTOR



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## *Certificate*

The MITS School of Biotechnology hereby certifies that

**AMIT PRADHAN**  
BCA-2nd Year

has successfully completed  
A Two Week Add-On Programme On  
**MICROPROCESSOR ARCHITECTURE AND PROGRAMMING**  
11-03-2019 To 27-03-2019

*K. Sahoo*

COORDINATOR

*Ajit*

DIRECTOR



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# Certificate

The MITS School of Biotechnology hereby certifies that

**BHABANI JENA**  
BCA-2nd Year

has successfully completed  
A Two Week Add-On Programme On  
**MICROPROCESSOR ARCHITECTURE AND PROGRAMMING**  
11-03-2019 To 27-03-2019

*K. Sahoo*

COORDINATOR

*Cepu*

DIRECTOR



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## *Certificate*

The MITS School of Biotechnology hereby certifies that

**BISWAJIT PANDA**  
BCA-2nd Year

has successfully completed  
A Two Week Add-On Programme On  
**MICROPROCESSOR ARCHITECTURE AND PROGRAMMING**  
11-03-2019 To 27-03-2019

*K. Sahoo*

COORDINATOR

*C. S. S.*

DIRECTOR





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# *Certificate*

The MITS School of Biotechnology hereby certifies that

**HELEN PATRA**  
BCA-2nd Year

has successfully completed  
A Two Week Add-On Programme On  
**MICROPROCESSOR ARCHITECTURE AND PROGRAMMING**  
11-03-2019 To 27-03-2019

*K. Lahori*

COORDINATOR

*C. K. S.*

DIRECTOR



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## *Certificate*

The MITS School of Biotechnology hereby certifies that

**LUSY SHARMA**  
BCA-2nd Year

has successfully completed  
A Two Week Add-On Programme On  
**MICROPROCESSOR ARCHITECTURE AND PROGRAMMING**  
11-03-2019 To 27-03-2019

*K. Sahoo*

COORDINATOR

*[Signature]*

DIRECTOR



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**MITS SCHOOL OF BIOTECHNOLOGY**

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## *Certificate*

The MITS School of Biotechnology hereby certifies that

**PABITRA DAS**  
BCA-2nd Year

has successfully completed  
A Two Week Add-On Programme On  
**MICROPROCESSOR ARCHITECTURE AND PROGRAMMING**  
11-03-2019 To 27-03-2019

*K. Lahoo*

COORDINATOR

*[Signature]*

DIRECTOR



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**MITS SCHOOL OF BIOTECHNOLOGY**  
2(P), INFOCITY, PATIA, BHUBANESWAR-751024



## *Certificate*

The MITS School of Biotechnology hereby certifies that

**SUNIL KUMAR SAHOO**  
BCA-2nd Year

has successfully completed  
A Two Week Add-On Programme On  
**MICROPROCESSOR ARCHITECTURE AND PROGRAMMING**  
11-03-2019 To 27-03-2019

*K. Sahoo*

COORDINATOR

*C. S. Sahoo*

DIRECTOR



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# *Certificate*

The MITS School of Biotechnology hereby certifies that

**RAKESH PRAJAPATI**

BCA-2nd Year

has successfully completed  
A Two Week Add-On Programme On  
**MICROPROCESSOR ARCHITECTURE AND PROGRAMMING**  
11-03-2019 To 27-03-2019

*K. Sakho*

COORDINATOR

*[Signature]*

DIRECTOR



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**MITS SCHOOL OF BIOTECHNOLOGY**

2(P), INFOCITY, PATIA, BHUBANESWAR-751024



## *Certificate*

The MITS School of Biotechnology hereby certifies that

**SWARNALATA SAHOO**

BCA-2nd Year

has successfully completed  
A Two Week Add-On Programme On  
**MICROPROCESSOR ARCHITECTURE AND PROGRAMMING**  
11-03-2019 To 27-03-2019

*K. Sahoo*

COORDINATOR

*C. K.*

DIRECTOR

Date: 23-07-2018

## CIRCULAR

It is hereby informed to all final/pre-final year students of BSc-Biotechnology that the Department of Biotechnology of this institute is conducting a Two Weeks Add-On Program on **MICROBES IN INDUSTRIAL APPLICATIONS** from **03-08-2018** to **21-08-2018**. Interested students shall register their names at the office of the coordinator on or before 4 PM, 28-07-2018.

**Venue of the Programme** : Conference Hall, MITS School of Biotechnology.

**Coordinator** : **Dr. Smaranika Sahu**  
Asst. Professor  
Department of Biotechnology  
MITS School of Biotechnology



DIRECTOR

MITS School of Biotechnology  
Bhubaneswar

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## REGISTRATION FORM

Name.....

Course.....Yr(1/2/3)

Roll No.....

Institution.....

Address for Communication:

Mobile.....

Email.....

Signature

Application to be submitted online in the above format along with the scanned copy of the registration form.

Last Date of Registration: 01.08.2018

Email: rashmيرانjan93@gmail.com

Address for Communication

Prof. Siddhartha Parida  
Coordinator, Asst Professor  
Contact: +91-9437089337

Chief Patron

Er. Sriram Panda  
Chief Executive  
MITS Group

Patron

Dr. G.K. Panda  
Director  
MITS School of Biotechnology

Convenor

Dr. Manisha Patnaik  
Dept. of Biotechnology

Coordinator

Prof. Siddhartha Parida  
Asst. Professor  
Dept. of Biotechnology

Advisory Committee

Dr. Haimanti Bhattacharya  
Dept. of Biotechnology

Mr. S. Satrusallya  
Dept. of Chemistry

Dr. Smaranika Sahoo  
Dept. of Biotechnology

## A TWO-WEEK ADD-ON PROGRAM ON



## MICROBES IN INDUSTRIAL APPLICATIONS

Programme Schedule

03.08.2018 to 21.08.2018



Organized By:

मिट्स जैव प्रौद्योगिकी संस्थान  
MITS SCHOOL OF BIOTECHNOLOGY

Venue:

2(P), Infocity, Patia  
Bhubaneswar-751024 (Odisha)  
Website: msb.ac.in  
Email: principal@msb.ac.in



## About College

Consistently ranking as the best institute in the eastern part of India, MITS School of Biotechnology (MSB) is a self financing professional organisation that was founded in 2003. The faculty consists of having qualification of PhD, M.Tech as well as experience in both Academics and industrial research, so as the student graduates, who are equally impressive mostly working in leading industries of Biotechnology, Pharma and IT. MSB is considered to be most selective, accepting, growing and proven institute under Utkal University. The institute is located at the prime location of Infocity, Bhubaneswar. This prestigious institute includes popular programs of Biotechnology, Applied Micro Biology and Computer Science.

## Courses Offered at MSB

BCA	- 3 Years
B.Sc Biotechnology	- 3 Years
M.Sc Biotechnology	- 2 Years
M.Sc App. Microbiology	- 2 Years

## About Programme

The Two-Week Add-On Program on Microbes in Industrial Applications is designed to provide participants with a comprehensive understanding of the pivotal role that microbes play in various industrial sectors. Microbes, including bacteria, fungi, and other microorganisms, have a wide range of applications in industries. This program will explore the potential of microbes as bioengineers, catalysts, and biofactories in industrial processes.



## Objective of the Programme

To know about Microbial Diversity and Classification, Microbes in Biotechnology, Industrial Microbiology, Bioremediation and Environmental Applications, Food and Beverage Industry, Pharmaceuticals and Drug Production, Hands-on Laboratory Work, Case Studies and Industrial Site Visits, Regulatory and Ethical Considerations, Future Trends.



Resource Person

Asst. Prof Department of Biotechnology  
MSB, Bhubaneswar

Date: 03-08-2018

### REGISTERED STUDENT LIST

Name of the Programme: Two Week Add-On program on MICROBES IN INDUSTRIAL APPLICATIONS

03-08-2018 to 21-08-2018

SN	Reg. No	Name of the Student	Year Branch	Signature
1	Y18UB01	ABHISHEK THAKUR	3rd Year BSc-BT	Abhishek Thakur
2	Y18UB02	AFREEN KHAN	3rd Year BSc-BT	Afreen Khan
3	Y18UB03	AKASH KUMAR PANDEY	3rd Year BSc-BT	Akash Kumar Pandey
4	Y18UB04	ALOK SAHU	3rd Year BSc-BT	Alok Sahu
5	Y18UB05	ALORA SAHOO	3rd Year BSc-BT	Alora Sahoo
6	Y18UB06	ALPITA BISWAL	3rd Year BSc-BT	Alpita Biswal
7	Y18UB07	AMAN REZINOLD BAJRAY	3rd Year BSc-BT	Aman Rezinold Bajray
8	Y18UB08	ANKITA MISHRA	3rd Year BSc-BT	Ankita Mishra
9	Y18UB09	ANNADA ROUT	3rd Year BSc-BT	Annada Rout
10	Y18UB10	ARADHANA MOKARA	3rd Year BSc-BT	Aradhana Mokara
11	Y18UB11	ARPITA MOHAPATRA	3rd Year BSc-BT	Arpita Mohapatra
12	Y18UB12	ARPITA MOHAPATRA	3rd Year BSc-BT	Arpita Mohapatra
13	Y18UB13	ARPITA PANI	3rd Year BSc-BT	Arpita Pani
14	Y18UB14	ARUN KUMAR MOHARANA	3rd Year BSc-BT	Arun Kumar Moharana
15	Y18UB15	ASISH KUMAR MISHRA	3rd Year BSc-BT	Asish Kumar Mishra
16	Y18UB16	ASWINI KUMAR DAS	3rd Year BSc-BT	Aswini Kumar Das
17	Y18UB17	AUROSHIS MAHAKUD	3rd Year BSc-BT	Auroshis Mahakud
18	Y18UB18	BACHANA SAHOO	3rd Year BSc-BT	Bachana Sahoo
19	Y18UB19	BIJAYALAXMI SAHOO	3rd Year BSc-BT	Bijayalaxmi Sahoo
20	Y18UB20	BIRAJEET MAJUMDER	3rd Year BSc-BT	Birajeet Majumder
21	Y18UB21	BISWARANJAN PATRA	3rd Year BSc-BT	Biswaranjan Patra
22	Y18UB22	CHANDAN KUMAR OJHA	3rd Year BSc-BT	Chandan Kumar Ojha
23	Y18UB23	CHANDRABHANU MOHAPATRA	3rd Year BSc-BT	Chandrabhanu Mohapatra
24	Y18UB24	CHINMAYEE CHHOTARAY	3rd Year BSc-BT	Chinmayee Chhotaray
25	Y18UB25	CHINMAYEE PRIYADARSINI	3rd Year BSc-BT	Chinmayee Priyadarsini
26	Y18UB26	CHIRANTANA KALITA	3rd Year BSc-BT	Chirantana Kalita

Pg 1 of 2

27	Y18UB27	DEBASHISH PATRA	3rd Year BSc-BT	Debashish patra
28	Y18UB28	DHANOJ KUMAR SAHOO	3rd Year BSc-BT	Dhananj Ku. Sahoo
29	Y18UB29	DIBYA MOHAN PRUSTY	3rd Year BSc-BT	Dibya mohan prusty
30	Y18UB30	DIPTILATA DAS	3rd Year BSc-BT	Diptilata das
31	Y18UB31	DURGAMADHAM SWAIN	3rd Year BSc-BT	Durgamadham Swain
32	Y18UB32	FAIZAN JAMAL	3rd Year BSc-BT	Faizan Jamal
33	Y18UB33	HARAPRIYA SAHOO	3rd Year BSc-BT	Harapriya Sahoo
34	Y18UB34	HOMADEEPALI MOHANTY	3rd Year BSc-BT	Homadeepali Mohanty
35	Y18UB35	IPSITA NEHA PATNAIK	3rd Year BSc-BT	Ipsita Neha Patnaik
36	Y18UB36	JAYASHREE SAHA	3rd Year BSc-BT	Jayashree Saha
37	Y18UB37	JYOTI SINGH	3rd Year BSc-BT	Jyoti Singh
38	Y18UB38	KABINDRA SAHU	3rd Year BSc-BT	Kabindra Sahu
39	Y18UB39	KRUPASINDHU MAHANTA	3rd Year BSc-BT	Krupasindhu Mahanta
40	Y18UB40	KUMAR JANMEJAY	3rd Year BSc-BT	Kumar Janmejay
41	Y18UB41	LAXMIPRIYA DALEI	3rd Year BSc-BT	Laxmipriya Dalei
42	Y18UB42	LOPAMUDRA PATEL	3rd Year BSc-BT	Lopamudra Patel
43	Y18UB43	MADALASA KHETI	3rd Year BSc-BT	MADALASA KHETI
44	Y18UB44	MADHUSMITA MAHANTA	3rd Year BSc-BT	madhusmita mahanta
45	Y18UB45	MALAY KUMAR MURMU	3rd Year BSc-BT	Malay kumar Murmu
46	Y18UB46	MAMALISA SAHOO	3rd Year BSc-BT	Mamalisa Sahoo
47	Y18UB47	MANASWINI GIRI	3rd Year BSc-BT	Manaswini Giri
48	Y18UB48	MANISHA MISHRA	3rd Year BSc-BT	MANISHA MISHRA
49	Y18UB49	MANISKHA PATRA	3rd Year BSc-BT	MANISHA PATRA
50	Y18UB50	MONALISHA KISHAN	3rd Year BSc-BT	MONALISHA KISHAN

*L. Saha*  
COORDINATOR

*[Signature]*  
HOD

*[Signature]*  
DIRECTOR  
Director  
MITS School of Technology  
Bhubaneswar

SN	Reg. No	Name of the Student	Year Branch	Signature
51	Y18UB51	MONDEEP BANERJEE	3rd Year BSc-BT	Mondeep Banerjee
52	Y18UB52	NAHID PARWIN	3rd Year BSc-BT	Nahid Parwin
53	Y18UB53	NEHA PUROHIT	3rd Year BSc-BT	Neha Purohit
54	Y18UB54	NILAM SRUTI MISHRA	3rd Year BSc-BT	Nilam Sauti Mishra
55	Y18UB55	NILAYA KUMAR PANDA	3rd Year BSc-BT	Nilaya Kumar Panda
56	Y18UB56	P. AGNEE KUMARI	3rd Year BSc-BT	P. agnee Kumares
57	Y18UB57	PIYUSH KUMAR KAR	3rd Year BSc-BT	Piyush KUMAR KAR
58	Y18UB58	PRADIPTA PRAN NATH	3rd Year BSc-BT	Pradipta pran Nath
59	Y18UB59	PRAGYAN PARAMITA PANDA	3rd Year BSc-BT	Prangya paramita panda
60	Y18UB60	PRALEKHA MOHANTY	3rd Year BSc-BT	Pratekha Mohanty
61	Y18UB61	PRIYAMBADA MOHARANA	3rd Year BSc-BT	Priyambada Moharana
62	Y18UB62	PRIYANKA PANDA	3rd Year BSc-BT	Priyanka Panda
63	Y18UB63	PRIYANKA PRADHAN	3rd Year BSc-BT	Priyanka Pradhan
64	Y18UB64	PURABI MANGARAJ	3rd Year BSc-BT	Purabi Mangaraj
65	Y18UB65	RAKESH RANJAN SAHOO	3rd Year BSc-BT	Rakesh ranjan saho
66	Y18UB66	RAMAKANTA SAHOO	3rd Year BSc-BT	Ramakanta saho
67	Y18UB67	RUPALI RACHANA MOHANTY	3rd Year BSc-BT	Rupali Rachana Mohanty
68	Y18UB68	S. MAHESH PATRA	3rd Year BSc-BT	S. Mahesh Patra
69	Y18UB69	SAMPREET SUVANKAR RAY	3rd Year BSc-BT	Sampreet Suvankar Ray
70	Y18UB70	SANDEEP KUNAR SINGH DEO	3rd Year BSc-BT	Sandip Kunar Singh Deo
71	Y18UB71	SANDIP KUMAR ROUSTRAY	3rd Year BSc-BT	Sandip Kumar Roustray
72	Y18UB72	SARALA NAYAK	3rd Year BSc-BT	Sarala Nayak
73	Y18UB73	SASMITA MOHANTY	3rd Year BSc-BT	Sasmita Mohanty
74	Y18UB74	SHIBA CHARAN KARARI	3rd Year BSc-BT	Shiba charan karari
75	Y18UB75	SHIBANI PANIGRAHI	3rd Year BSc-BT	Shibani Raut
76	Y18UB76	SHIBANI ROUT	3rd Year BSc-BT	Shibani Rout
77	Y18UB77	SHIVANI SENAPATI	3rd Year BSc-BT	Shivani Senapati
78	Y18UB78	SHRABANI DAS	3rd Year BSc-BT	Shrabani Das
79	Y18UB79	SHREYA PADHI	3rd Year BSc-BT	Shreya Padhi
80	Y18UB80	SHUBHASRI ANINDITA ROUSTRAY	3rd Year BSc-BT	Shubhasri Anindita Roustray
81	Y18UB81	SIDDHARTH SATAPATHY	3rd Year BSc-BT	Siddharth Satapathy
82	Y18UB82	SIDDHARTH DAS MOHAPATRA	3rd Year BSc-BT	Siddharth Das Mohapatra

83	Y18UB83	SIDHARTHA SUBHADARSHAN PARIDA	3rd Year BSc-BT	Sidhartha Subhadarshan Parida
84	Y18UB84	SILITIKA MISHRA	3rd Year BSc-BT	Silitika Mishra
85	Y18UB85	SIMA KARMARKAR	3rd Year BSc-BT	Sima Karmarkar
86	Y18UB86	SK SUNSUYA	3rd Year BSc-BT	Sk Sunsuya
87	Y18UB87	SOMDUTTA GHOSH	3rd Year BSc-BT	Somdutta Ghosh
88	Y18UB88	SOUMYA RANJAN ROUT	3rd Year BSc-BT	Soumya Ranjan Rout
89	Y18UB89	SOUMYA SASWATI	3rd Year BSc-BT	Soumya Saswati
90	Y18UB90	SOUMYARANJAN ROUT	3rd Year BSc-BT	Soumyaranjan Rout
91	Y18UB91	SOURAV PRIYADARSHI	3rd Year BSc-BT	Sourav Priyadarshi
92	Y18UB92	SRADHANJALI BISWAL	3rd Year BSc-BT	Bradhanjali Biswal
93	Y18UB93	SRAOSEE BANERJEE	3rd Year BSc-BT	Sraosee Banerjee
94	Y18UB94	SRIKANTA BARIK	3rd Year BSc-BT	Srikantha Barik
95	Y18UB95	SRUSTI DAS	3rd Year BSc-BT	Srusti Das
96	Y18UB96	STHITAPRAGYAN SHA	3rd Year BSc-BT	Sthitapragyan Das
97	Y18UB97	SUBHASHMITA BEHERA	3rd Year BSc-BT	Subhamita Behera
98	Y18UB98	SUCHISMITA SAHOO	3rd Year BSc-BT	Suchismita Sahoo
99	Y18UB99	SUDIPTA BAL	3rd Year BSc-BT	Sudipta Bal
100	Y18UB100	SUNITA DAS	3rd Year BSc-BT	Sunita Das
101	Y18UB101	SUPRAVA PRADHAN	3rd Year BSc-BT	Suprava Pradhan
102	Y18UB102	SURAJ PRASAD PANDA	3rd Year BSc-BT	Suraj Prasad Panda
103	Y18UB103	SUSHREE TAMANNA SAHOO	3rd Year BSc-BT	Sushree Tamanna Sahoo
104	Y18UB104	SWAGAT KUMAR TRIPATHY	3rd Year BSc-BT	Swagat Kumar Tripathy
105	Y18UB105	SWAGATIKA DASH	3rd Year BSc-BT	Swagatika Dash
106	Y18UB106	SWATI MISHRA	3rd Year BSc-BT	Swati Mishra
107	Y18UB107	SWETA DASH	3rd Year BSc-BT	Sweta Das
108	Y18UB108	SWETA MIHANTY	3rd Year BSc-BT	Sweta Mihanty
109	Y18UB109	SWETA PRIYADARSHINI DASH	3rd Year BSc-BT	Sweta Priyadarshini Dash
110	Y18UB110	SWETASINI PANY	3rd Year BSc-BT	Swetasini Pany
111	Y18UB111	UMAPRASAD BARIK	3rd Year BSc-BT	Umaprasad Barik
112	Y18UB112	URMI MADHUSMITA SAMAL	3rd Year BSc-BT	Urmi Madhusmita Samal
113	Y18UB113	UTKALIKA MOHANTY	3rd Year BSc-BT	Utkalika Mohanty

L. Sahu  
COORDINATOR

  
HOD  
Pg 4 of 4

  
DIRECTOR  
MITS School of Technology  
Bhubaneswar



## COURSE SCHEDULE

Name of the Program: A Two Week Add-On Program on **MICROBES IN INDUSTRIAL APPLICATIONS**  
03-08-2018 to 21-08-2018

SN	Date	Topic	Resource Person
1	03-08-2018	What are microbes	Dr. M Mishra
2	04-08-2018	Types of microbes	Dr. M Mishra
3	06-08-2018	Isolation & Screening of Microorganisms	Dr. M Mishra
4	07-08-2018	Importance of microbial synthesis in industrial fields	Dr. M Mishra
5	08-08-2018	list the industrially useful microorganisms	Dr. M Mishra
6	09-08-2018	Industrial uses of microbes	Dr. M Mishra
7	10-08-2018	How has biotechnology changed industrial microbiology?	Dr. M Mishra
8	11-08-2018	Source of industrial microbes	Dr. M Mishra
9	13-08-2018	Important characteristics of industrial microbes	Dr. M Mishra
10	14-08-2018	Role of Microbes in Industrial Products	Dr. M Mishra
11	16-08-2018	Advantages of Microbes use in Industrial Products	Dr. M Mishra
12	17-08-2018	Hands on Session	Dr. M Mishra
13	18-08-2018	Hands On Session	Dr. M Mishra
14	20-08-2018	Hands On Session	Dr. M Mishra
15	21-08-2018	Hands On Session	Dr. M Mishra

  
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HOD

  
DIRECTOR

Director  
MITS School of Biotechnology  
Bhubaneswar

## PROGRAM REPORT

22-08-2018

**Name of the Event:** A Two Week Add-On Program on **MICROBES IN INDUSTRIAL APPLICATIONS**

**Date:** 03-08-2018 To 21-08-2018

**Resource Person:** **Dr. Mousumi Mishra**  
Asst. Professor,  
Dept. of Biotechnology, MSB, Bhubaneswar.  
Contact Number: 9937026755

**Coordinator:** **Dr. Smaranika Sahoo**  
Asst. Professor,  
Dept. of Biotechnology,  
MSB, Bhubaneswar

**Number of students attended:** 113

**Venue:** Conference Hall, MITS School of Biotechnology.

MITS school of Biotechnology, Bhubaneswar, organized a two week add-on program on **MICROBES IN INDUSTRIAL APPLICATIONS** for BSc-Biotechnology students by the resource person **Dr. M Mishra**. Microorganisms play a big role in the industry, with multiple ways to be used. Medicinally, microbes can be used for creating antibiotics in order to treat infection. Microbes can also be used for the food industry as well. Totally 113 students participated in this training program and after the completion of the program they were able to understand the following objectives and learning outcomes.

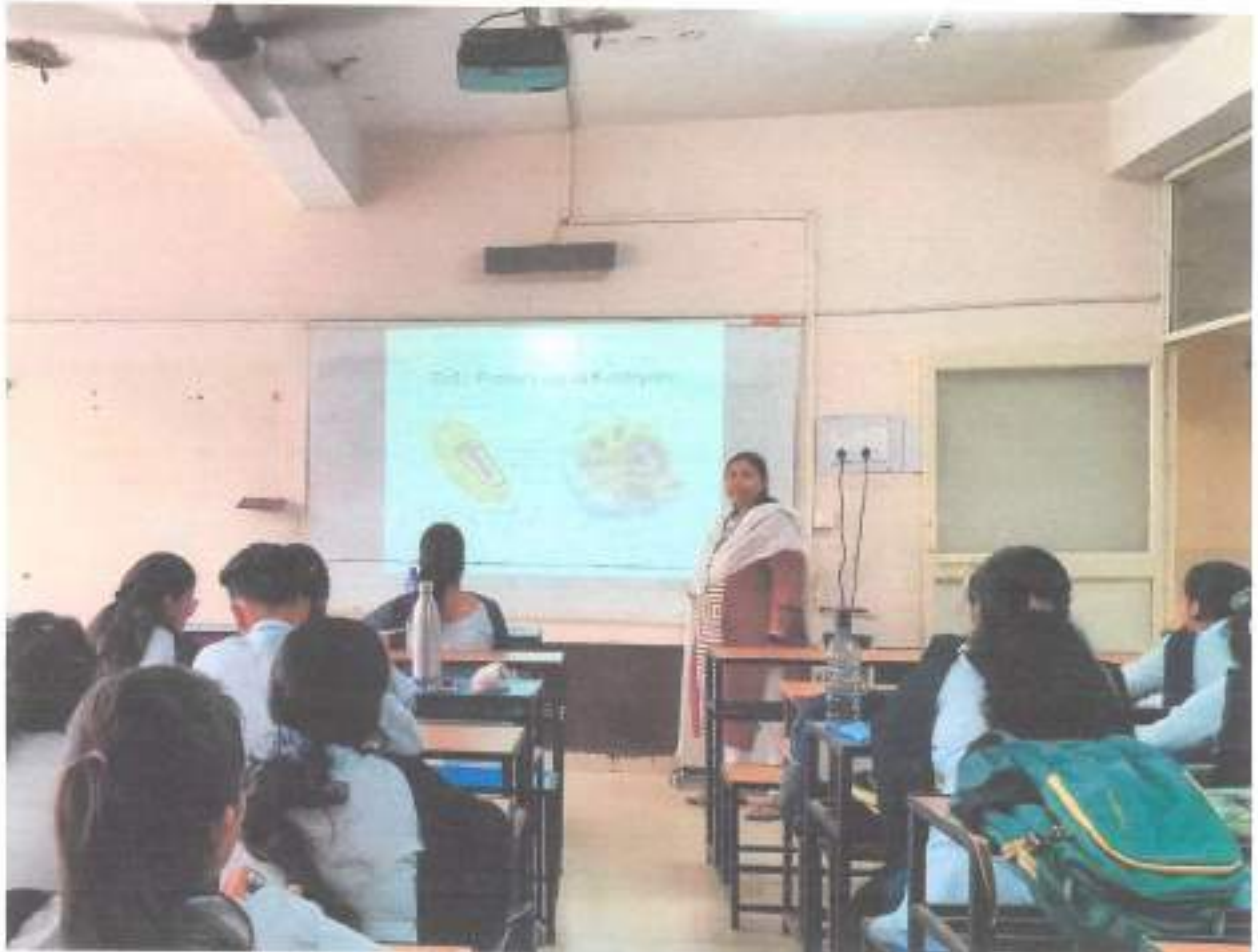
### Objectives:

1. There are multiple ways to manipulate a microorganism in order to increase maximum product yields.
2. Way to increase production is by gene amplification, this is done by the use of plasmids, and vectors.
3. Learn and know about Microbes in Industrial Products

### Learning Outcomes:

1. The chemical industry also uses microorganisms in order to synthesize amino acids and organic solvents. Microbes can also be used in an agricultural application for use as a bio pesticide instead of using dangerous chemicals and or inoculants to help plant proliferation.

2. In industries, microbes are very much used to synthesize different types of products which are valuable for us. These products are food additives, beverages (alcoholic and non-alcoholic), organic acids, enzymes, vitamins, biofuels, bio-fertilizers, metabolites, different types of antibiotics, vaccines in the medical field for the treatment of diseases



A Two Week Add-On Program on **MICROBES IN INDUSTRIAL APPLICATIONS**,  
03-08-2018 To 21-08-2018, Dr. Mousumi Mishra.

This course was very useful to the students of BSc-Biotechnology and their feedback is positive. The management and Professor (Dr.) G. K. Panda, Director of MSB thanked to the resource person and participants for making the programme successful.

*J. Sahu*  
COORDINATOR

*Dr. M. Mishra*  
HOD

Pg 2 of 2

*G. K. Panda*  
DIRECTOR  
MITS School of Biotechnology  
Bhubaneswar





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**MITS SCHOOL OF BIOTECHNOLOGY**

2(P), INFOCITY, PATIA, BHUBANESWAR-751024



# Certificate

The MITS School of Biotechnology hereby certifies that

**ALOK SAHU**  
B.Sc-BT-3rd Year

has successfully completed  
A Two Week Add-On Programme On  
**MICROBES IN INDUSTRIAL APPLICATIONS**  
03-08-2018 To 21-08-2018

*A. Sahu*

COORDINATOR

*[Signature]*

DIRECTOR



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**MITS SCHOOL OF BIOTECHNOLOGY**  
2(P), INFOCITY, PATIA, BHUBANESWAR-751024



# Certificate

The MITS School of Biotechnology hereby certifies that

**ALORA SAHOO**  
B.Sc-BT-3rd Year

has successfully completed  
A Two Week Add-On Programme On  
**MICROBES IN INDUSTRIAL APPLICATIONS**  
03-08-2018 To 21-08-2018

*S. Sahu*  
\_\_\_\_\_  
**COORDINATOR**

*[Signature]*  
\_\_\_\_\_  
**DIRECTOR**



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**MITS SCHOOL OF BIOTECHNOLOGY**  
2(P), INFOCITY, PATIA, BHUBANESWAR-751024



# Certificate

The MITS School of Biotechnology hereby certifies that

**ANKITA MISHRA**  
B.Sc-BT-3rd Year

has successfully completed  
A Two Week Add-On Programme On  
**MICROBES IN INDUSTRIAL APPLICATIONS**  
03-08-2018 To 21-08-2018

*L. Sahu*  
\_\_\_\_\_  
COORDINATOR

*C. P. S.*  
\_\_\_\_\_  
DIRECTOR



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## *Certificate*

The MITS School of Biotechnology hereby certifies that

**ARPITA PANI**  
B.Sc-BT-3rd Year

has successfully completed  
A Two Week Add-On Programme On  
**MICROBES IN INDUSTRIAL APPLICATIONS**  
03-08-2018 To 21-08-2018

*S. Sahu*  
\_\_\_\_\_  
**COORDINATOR**

*[Signature]*  
\_\_\_\_\_  
**DIRECTOR**



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## *Certificate*

The MITS School of Biotechnology hereby certifies that

**BACHANA SAHOO**  
B.Sc-BT-3rd Year

has successfully completed  
A Two Week Add-On Programme On  
**MICROBES IN INDUSTRIAL APPLICATIONS**  
03-08-2018 To 21-08-2018

*S. Sahu*

COORDINATOR

*[Signature]*

DIRECTOR



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# Certificate

The MITS School of Biotechnology hereby certifies that

**BIJAYALAXMI SAHOO**  
B.Sc-BT-3rd Year

has successfully completed  
A Two Week Add-On Programme On  
**MICROBES IN INDUSTRIAL APPLICATIONS**  
03-08-2018 To 21-08-2018

*B. Sahoo*  
\_\_\_\_\_  
COORDINATOR

*Cere*  
\_\_\_\_\_  
DIRECTOR



मिट्स जैव प्रौद्योगिकी संस्थान  
**MITS SCHOOL OF BIOTECHNOLOGY**  
2(P), INFOCITY, PATIA, BHUBANESWAR-751024



## *Certificate*

The MITS School of Biotechnology hereby certifies that

**CHANDAN KUMAR OJHA**  
B.Sc-BT-3rd Year

has successfully completed  
A Two Week Add-On Programme On  
**MICROBES IN INDUSTRIAL APPLICATIONS**  
03-08-2018 To 21-08-2018

*R. Saha*  
\_\_\_\_\_  
**COORDINATOR**

*C. K.*  
\_\_\_\_\_  
**DIRECTOR**



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# *Certificate*

The MITS School of Biotechnology hereby certifies that

**DEBASHISH PATRA**  
B.Sc-BT-3rd Year

has successfully completed  
A Two Week Add-On Programme On  
**MICROBES IN INDUSTRIAL APPLICATIONS**  
03-08-2018 To 21-08-2018

*L. Sahu*

COORDINATOR

*Geje*

DIRECTOR





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# *Certificate*

The MITS School of Biotechnology hereby certifies that

**JYOTI SINGH**  
B.Sc-BT-3rd Year

has successfully completed  
A Two Week Add-On Programme On  
**MICROBES IN INDUSTRIAL APPLICATIONS**  
03-08-2018 To 21-08-2018

*L. Sahu*  
\_\_\_\_\_  
**COORDINATOR**

*[Signature]*  
\_\_\_\_\_  
**DIRECTOR**



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2(P), INFOCITY, PATIA, BHUBANESWAR-751024



## *Certificate*

The MITS School of Biotechnology hereby certifies that

**LAXMIPRIYA DALEI**  
B.Sc-BT-3rd Year

has successfully completed  
A Two Week Add-On Programme On  
**MICROBES IN INDUSTRIAL APPLICATIONS**  
03-08-2018 To 21-08-2018

  
\_\_\_\_\_  
**COORDINATOR**

  
\_\_\_\_\_  
**DIRECTOR**



# मिटस जैव प्रौद्योगिकी संस्थान MITS SCHOOL OF BIOTECHNOLOGY

Date: 23-11-2018

## CIRCULAR

It is hereby informed to all final/pre-final year students of BSc-Biotechnology that the Department of Biotechnology of this institute is conducting a Two Weeks Add-On Program on **USES OF BIODEGRADABLE PLASTICS** from **03-12-2018** to **19-12-2018**. Interested students shall register their names at the office of the coordinator on or before 4 PM, 29-11-2018.




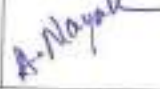
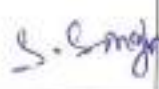

**Venue of the Programme** : Conference Hall, MITS School of Biotechnology.

**Coordinator** : **Dr. Smaranika Sahu**  
Asst. Professor  
Department of Biotechnology  
MITS School of Biotechnology

  
DIRECTOR

Director  
MITS School of Biotechnology  
Bhubaneswar

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CE: For information					

## REGISTRATION FORM

Name.....

Course.....Yr(1/2/3)

Roll No.....

Institution.....

Address for Communication:

Mobile.....

Email.....

Signature

Application to be submitted online in the above format along with the scanned copy of the registration form.

Last Date of Registration: 29-11-2018

Email: smaranikasahu1@gmail.com

Address for Communication

**Dr. Smaranika Sahu**

Coordinator, Asst Professor

Contact: +91-8763177859

**Chief Patron**  
**Er. Sriram Panda**  
Chief Executive  
MITS Group

**Patron**  
**Dr. G.K. Panda**  
Director  
MITS School of Biotechnology

**Convenor**  
**Dr. Rashmi Ranjan Mishra**  
Head  
Dept. of Biotechnology

**Coordinator**  
**Dr. Smaranika Sahu**  
Asst Professor  
Dept. of Biotechnology

**Advisory Committee**  
**Dr. Manisha Patnaik**  
Dept. of Biotechnology  
**Mr. S. Satrusallya**  
Dept. of Chemistry

**Dr. Swati Mishra**  
Dept. of Biotechnology

## A TWO-WEEK ADD-ON PROGRAM ON



## USES OF BIODEGRADABLE PLASTICS

Proram Schedule

03-12-2018 to 18-12-2018



Organized By:

**मिट्स जैव प्रौद्योगिकी संस्थान**  
**MITS SCHOOL OF BIOTECHNOLOGY**

Venue:

2(P), Infocity, Patia  
Bhubaneswar-751024 (Odisha)  
Website: msb.ac.in  
Email: principal@msb.ac.in

## About College

Consistently ranking as the best institute in the eastern part of India, MITS School of Biotechnology (MSB) is a self financing professional organisation that was founded in 2003. The faculty consists of having qualification of PhD, M.Tech as well as experience in both Academics and industrial research, so as the student graduates, who are equally impressive mostly working in leading industries of Biotechnology, Pharma and IT. MSB is considered to be most selective, accepting, growing and proven institute under Utkal University. The institute is located at the prime location of Infocity, Bhubaneswar. This prestigious institute includes popular programs of Biotechnology, Applied Micro Biology and Computer Science.

## Courses Offered at MSB

BCA	- 3 Years
B.Sc Biotechnology	- 3 Years
M.Sc Biotechnology	- 2 Years
M.Sc App. Microbiology	- 2 Years

## About Programme

Participants in this educational initiative will gain an in-depth knowledge of biodegradable plastics, including a nuanced exploration of their applications and the environmental consequences associated with their use. The program strives to equip individuals with a comprehensive understanding of the intricate dynamics surrounding these environmentally friendly materials. Through engaging content and insightful discussions, participants will develop a well-rounded perspective on the role of biodegradable plastics in today's world.



## Objective of the Programme

In this educational initiative, our primary goal is to empower participants with a robust comprehension of biodegradable plastics. The program delves into the very essence of these materials, elucidating their definition, various types, and the intricate mechanisms governing their biodegradability.



Resource Person

**Prof. Sidharth Parida**

Asst. Prof.

Department of Biotechnology MSB,  
Bhubaneswar

Date: 03-12-2018

### REGISTERED STUDENT LIST

Name of the Programme: Two Week Add-On program on USES OF BIODEGRADABLE PLASTICS

03-12-2018 to 19-12-2018

SN	Reg. No	Name of the Student	Year Branch	Signature
1	Y18UB01	PRAVA KUMARI	2nd Year BSc-BT	Prava Kumari
2	Y18UB02	SANJANA PATI	2nd Year BSc-BT	Sanjana Pati
3	Y18UB03	ISHA SHARMA	2nd Year BSc-BT	Isha Sharma
4	Y18UB04	KUMUDINEE KUMARI MAHTO	2nd Year BSc-BT	Kumudinee Kumari Mahto
5	Y18UB05	PRIYANKA SWAIN	2nd Year BSc-BT	Priyanka Swain
6	Y18UB06	TANUSHREE BEHERA	2nd Year BSc-BT	Tanushree Behera
7	Y18UB07	SHILWY KUHARI	2nd Year BSc-BT	Shilwy Kuhari
8	Y18UB08	BIKRAM BARIK	2nd Year BSc-BT	Bikram Barik
9	Y18UB09	RATIKA DASH	2nd Year BSc-BT	Ratika Dash
10	Y18UB10	ASUAMIT MAHARANA	2nd Year BSc-BT	Asuamit Maharana
11	Y18UB11	K.K.SHILPA	2nd Year BSc-BT	K.K. SHILPA
12	Y18UB12	MOUSUMI PARIDA	2nd Year BSc-BT	Mousumi Parida
13	Y18UB13	RUDRANK MAHARANA	2nd Year BSc-BT	Rudrank Maharana
14	Y18UB14	SAIKH MD AWESH AZAM	2nd Year BSc-BT	Saikh MD Awesh Azam
15	Y18UB15	PALLAVI MOHANTY	2nd Year BSc-BT	PALLAVI MOHANTY
16	Y18UB16	RAJNANDINI SWAIN	2nd Year BSc-BT	Rajnandini Swain
17	Y18UB17	SUBHALAXMI CHOUDHURI	2nd Year BSc-BT	Subhalaxmi Choudhuri
18	Y18UB18	SANKALP DAS	2nd Year BSc-BT	Sankalp Das
19	Y18UB19	SHIVANWESHA TRIPATHY	2nd Year BSc-BT	Shivanwisha Tripathy
20	Y18UB20	RUPARNA SATAPATHY	2nd Year BSc-BT	Ruparna Satapathy
21	Y18UB21	A.DIVYA	2nd Year BSc-BT	A-divya
22	Y18UB22	ABHISEK GANGDEB	2nd Year BSc-BT	Abhisek Gangdeb

Pg1 of 5

23	Y18UB23	ANTIM AKASH MISHRA	2nd Year BSc-BT	ANTIM AKASH MISHRA
24	Y18UB24	SOUMYA NIBEDIT SAHOO	2nd Year BSc-BT	Soumya Nibedit Sahoo
25	Y18UB25	SWETA SUCHARITA DAS	2nd Year BSc-BT	Sweta Sucharita Das
26	Y18UB26	PRATYUSH RANJAN NAHAK	2nd Year BSc-BT	
27	Y18UB27	SUBHASHMITA P PATNAIK	2nd Year BSc-BT	Subhashmita P. Pattnaik
28	Y18UB28	YOGAMAYA BIHARI	2nd Year BSc-BT	YOGAMAYA BIHARI
29	Y18UB29	PRASTITI MOHANTY	2nd Year BSc-BT	PRASTITI MOHANTY
30	Y18UB30	ARPITA PATTNAIK	2nd Year BSc-BT	Arpita pattnaik
31	Y18UB31	SOUMYA RANJAN MISHRA	2nd Year BSc-BT	Soumya Ranjan Mishra
32	Y18UB32	PRIYA JAISWAL	2nd Year BSc-BT	PRIYA JAISWAL
33	Y18UB33	LAGNA CHOUDHURY	2nd Year BSc-BT	LAGNA CHOUDHURY
34	Y18UB34	SOUMYA SRUTI PRUSTY	2nd Year BSc-BT	Soumya Shubhi Prusty
35	Y18UB35	SAMBIT NAYAK	2nd Year BSc-BT	Sambit Nayak
36	Y18UB36	SANJANA MOHANTY	2nd Year BSc-BT	Sanjana Mohanty
37	Y18UB37	UTKALIKA ROUTRAY	2nd Year BSc-BT	Utkalika Routray
38	Y18UB38	AHALYA BIRUA	2nd Year BSc-BT	Ahalya Birua
39	Y18UB39	SONALI PRIYADARSHINI SWAIN	2nd Year BSc-BT	Sonali P. Swain
40	Y18UB40	SHWETA KUMARI ROWLO	2nd Year BSc-BT	Shweta Kumari Rowlo
41	Y18UB41	AVINISH SINGH	2nd Year BSc-BT	AVINISH SINGH
42	Y18UB42	GARIMA BISWAKARMA	2nd Year BSc-BT	Garima Biswakarma
43	Y18UB43	ARADHANA SATAPATHY	2nd Year BSc-BT	Aradhana Satapaty
44	Y18UB44	P.RUTUPARNA	2nd Year BSc-BT	P. Rutuparna
45	Y18UB45	PRAGYAN KUMARI PANIGRAHI	2nd Year BSc-BT	Pragyan Kumari Panigrahi
46	Y18UB46	MOHAMMED JUNDAL MAJID	2nd Year BSc-BT	mohammed jundal majid
47	Y18UB47	PRAGYAN PARAMITA BEHERA	2nd Year BSc-BT	Pragyan Paramita Behera
48	Y18UB48	SHAKSHI SINGH	2nd Year BSc-BT	Shakshi Singh
49	Y18UB49	SAMBIT KUMAR SUNDARAY	2nd Year BSc-BT	Sambit Kumar Sundaray

50	Y18UB50	LUINA PRIYADARSHINI PRADHAN	2nd Year BSc-BT	Luina Priyadarshini Pradhan
51	Y18UB51	TAPAS RANJAN PATRA	2nd Year BSc-BT	Tapas Ranjan Patra
52	Y18UB52	HARISH CHANDRA SHAW	2nd Year BSc-BT	Harish chandra shaw
53	Y18UB53	BISWAJIT PANIGRAHI	2nd Year BSc-BT	Biswajit Panigrahi
54	Y18UB54	AJAYKUMAR JENA	2nd Year BSc-BT	AJAYKUMAR JENA
55	Y18UB55	PRAGYAN PARAMITA	2nd Year BSc-BT	Pragyan paramita
56	Y18UB56	A.V.S NIKITA	2nd Year BSc-BT	A.V.S Nikita
57	Y18UB57	SOOSRI SUNANDA SWAIN	2nd Year BSc-BT	Soosri Sunanda Swain
58	Y18UB58	SASWAT DAS	2nd Year BSc-BT	Saswat Das
59	Y18UB59	PREETIMAI GAHAN	2nd Year BSc-BT	Preetimai Gahan
60	Y18UB60	SHEEN SHEKINATH AIND	2nd Year BSc-BT	Sheen shekinath aind
61	Y18UB61	PRAJJWAL MISHRA	2nd Year BSc-BT	Prajwal Mishra
62	Y18UB62	ALISHA MOHANTY	2nd Year BSc-BT	Alisha Mohanty
63	Y18UB63	SWAPNA RANI PRADHAN	2nd Year BSc-BT	Swapna Rani Pradhan
64	Y18UB64	DEBASMITA BEHERA	2nd Year BSc-BT	Debasmita Behera
65	Y18UB65	SANTOSH KUMAR PARIDA	2nd Year BSc-BT	Santosh ku Parida
66	Y18UB66	SUKANYA KHAMARI	2nd Year BSc-BT	Sukanya khamari
67	Y18UB67	S.JYOTSNA	2nd Year BSc-BT	S. Jyotsna
68	Y18UB68	SHUBHRAJEET JENA	2nd Year BSc-BT	Subhrajit jena
69	Y18UB69	SOURAV PATTNAIK	2nd Year BSc-BT	Sourav Pattnaik
70	Y18UB70	NIKITA TIWARY	2nd Year BSc-BT	Nikita Tiwary
71	Y18UB71	SNIGDHA SUBHADARSHINI SAHOO	2nd Year BSc-BT	Snigdha saho
72	Y18UB72	BARSHA SAHOO	2nd Year BSc-BT	Barsha Sahoo
73	Y18UB73	CHANDRAMANI PATEL	2nd Year BSc-BT	Chinmay Ray
74	Y18UB74	CHINMAY RAY	2nd Year BSc-BT	Chinmay ray
75	Y18UB75	PRIYANKA TRIPATHY	2nd Year BSc-BT	Priyanka Tripathy
76	Y18UB76	SUBHASHMITA JENA	2nd Year BSc-BT	Subhashmita Jena



77	Y18UB77	RITUPARNA SATAPATHY	2nd Year BSc-BT	Rituparna Satapathy
78	Y18UB78	B.SRUTHI SRI SPANDANA	2nd Year BSc-BT	B.Sruthi Sri Spandana
79	Y18UB79	PRITIPADMA DAS	2nd Year BSc-BT	Pritipadma Das
80	Y18UB80	MEHUL	2nd Year BSc-BT	Mehul
81	Y18UB81	ARUPARNA HOTA	2nd Year BSc-BT	Aruparna Hota
82	Y18UB82	AMRIT ROUT	2nd Year BSc-BT	Amrit Rout
83	Y18UB83	RAJAT KUMAR MEHER	2nd Year BSc-BT	Rajat Kumar Meher
84	Y18UB84	SANKALP KUMAR PADHI	2nd Year BSc-BT	Smaranika Mahanta
85	Y18UB85	SMARANIKA MAHANTA	2nd Year BSc-BT	Smaranika Mahanta
86	Y18UB86	RAJ JAISWAL	2nd Year BSc-BT	Raj Jaiswal
87	Y18UB87	IPSITA ROSALIN PANDA	2nd Year BSc-BT	Ipsita Rosalin Panda
88	Y18UB88	SUVECHHA MISHRA	2nd Year BSc-BT	Suvechha Mishra
89	Y18UB89	SNIGDHA MADHABA MAHARANA	2nd Year BSc-BT	Snigdha Madhaba Maharana
90	Y18UB90	MUMPI GIRI	2nd Year BSc-BT	mumpi giri
91	Y18UB91	SASWATI ROUT	2nd Year BSc-BT	Saswati Rout
92	Y18UB92	JAGRUTI MISHRA	2nd Year BSc-BT	Jagruti Mishra
93	Y18UB93	ASHUTOSH PANIGRAHI	2nd Year BSc-BT	Ashutosh Panigrahi
94	Y18UB94	IPSITA SINGH	2nd Year BSc-BT	Ipsita Singh
95	Y18UB95	AMLAN PATI	2nd Year BSc-BT	Amlan Pati
96	Y18UB96	RIYA RAJ	2nd Year BSc-BT	Riya Raj
97	Y18UB97	PRATIVA PRIYADARSHINI	2nd Year BSc-BT	Prativa Priyadarshini
98	Y18UB98	SOURAV PRADHAN	2nd Year BSc-BT	Sourav Pradhan
99	Y18UB99	TAMANNA MOHAPATRA	2nd Year BSc-BT	Tamanna Mohapatra
100	Y18UB100	MANASMITA MAHANTA	2nd Year BSc-BT	Manasmita Mahanta
101	Y18UB101	RITUPARNA SATAPATHY	2nd Year BSc-BT	Rituparna Satapathy
102	Y18UB102	B.SRUTHI SRI SPANDANA	2nd Year BSc-BT	B.Sruthi Sri Spandana
103	Y18UB103	PRITIPADMA DAS	2nd Year BSc-BT	Pritipadma Das
104	Y18UB104	MEHUL	2nd Year BSc-BT	Mehul

105	Y18UB105	ARUPARNA HOTA	2nd Year BSc-BT	Aruparna Hota
106	Y18UB106	AMRIT ROUT	2nd Year BSc-BT	Amrit Rout
107	Y18UB107	RAJAT KUMAR MEHER	2nd Year BSc-BT	Rajat Kumar Meher
108	Y18UB108	SANKALP KUMAR PADHI	2nd Year BSc-BT	Sankalp K. Padhi
109	Y18UB109	SUMAN PATEL	2nd Year BSc-BT	Suman Patel
110	Y18UB110	SHANU DEY	2nd Year BSc-BT	Shanu Dey
111	Y18UB111	PRERANA PANDA	2nd Year BSc-BT	Prerana Panda
112	Y18UB112	GIRISH PRASAD DASH	2nd Year BSc-BT	Girish Prasad Dash
113	Y18UB113	PALLABI DANDAPAT	2nd Year BSc-BT	Pallabi Dandapat

  
COORDINATOR

  
HOD

  
DIRECTOR  
Director  
MITS School of Biotechnology  
Bhubaneswar



# मिटस जैव प्रौद्योगिकी संस्थान MITS SCHOOL OF BIOTECHNOLOGY

## COURSE SCHEDULE

Name of the Program: A Two Week Add-On Program on **USES OF BIODEGRADABLE PLASTICS**

03-12-2018 to 19-12-2018

SN	Date	Topic	Resource Person
1	03-12-2018	Introduction to Plastics	Prof. SidharthParida
2	04-12-2018	What Are Biodegradable Plastics?	Prof. SidharthParida
3	05-12-2018	Biodegradability Mechanisms	Prof. SidharthParida
4	06-12-2018	Types of Biodegradable Polymers	Prof. SidharthParida
5	07-12-2018	Advantages and Challenges of Biodegradable Plastics	Prof. SidharthParida
6	08-12-2018	Biodegradable Plastic Applications	Prof. SidharthParida
7	10-12-2018	Biodegradable Plastic Production	Prof. SidharthParida
8	11-12-2018	Biodegradable Plastics and Policy	Prof. SidharthParida
9	12-12-2018	Biodegradable Plastics Research and Innovation	Prof. SidharthParida
10	13-12-2018	Program Conclusion and Discussion	Prof. SidharthParida
11	14-12-2018	Biodegradable Plastics in Practice	Prof. SidharthParida
12	15-12-2018	Environmental Impact of Biodegradable Plastics	Prof. SidharthParida
13	17-12-2018	Hands On Session	Prof. SidharthParida
14	18-12-2018	Hands On Session	Prof. SidharthParida
15	19-12-2018	Hands On Session	Prof. SidharthParida

  
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Director  
MITS School of Biotechnology  
Bhubaneswar

## PROGRAM REPORT

20-12-2018

**Name of the Event:** A Two Week Add-On Program on **USES OF BIODEGRADABLE PLASTICS**

**Date:** 03-12-2018 to 18-12-2018

**Resource Person:** **Prof. Sidharth Parida**  
Assoc. Professor,  
Dept. of Biotechnology, MSB, Bhubaneswar.  
Contact Number: 9437089337

**Coordinator:** **Dr. Smaranika Sahu**  
Asst. Professor,  
Dept. of Biotechnology,  
MSB, Bhubaneswar

**Number of students attended:** 113

**Venue:** Conference Hall, MITS School of Biotechnology.

MITS school of Biotechnology, Bhubaneswar, organized a two week add-on program on **USES OF BIODEGRADABLE PLASTICS** for BSc-Biotechnology students by the resource person **Prof. Sidharth Parida**. This is an educational initiative designed to provide participants with a comprehensive understanding of biodegradable plastics, their applications, and their environmental impact. Totally 113 students participated in this training program and after the completion of the program they were able to understand the following objectives and learning outcomes.

### Objectives:

1. **Understanding Biodegradable Plastics:** Provide participants with a strong understanding of the definition, types, and mechanisms of biodegradable plastics.
2. **Awareness of Biodegradable Polymer Materials:** Familiarize participants with different biodegradable polymers and their applications.
3. **Environmental Impact and Benefits:** Foster an understanding of the environmental impact of biodegradable plastics, emphasizing their potential to reduce pollution and waste.

### Learning Outcomes:

1. **Knowledge of Biodegradable Plastics:** Participants will have a comprehensive understanding of what biodegradable plastics are and how they work.

2. **Application Awareness:** Participants will be aware of the diverse applications of biodegradable plastics across various industries.
3. **Environmental Consciousness:** Participants will understand the environmental impact of biodegradable plastics and their potential to mitigate plastic pollution.
4. **Regulatory Familiarity:** Participants will be knowledgeable about the policies and regulations surrounding biodegradable plastics.
5. **Research and Innovation Insights:** Participants will be informed about the latest research and innovations in the field, which may inspire future initiatives.



A Two Week Add-On Program on **USES OF BIODEGRADABLE PLASTICS**,  
03-12-2018 to 19-12-2018, Prof. Sidharth Parida.

'This course was very useful to the students of BSc-Biotechnology and their feedback is positive. The management and Professor (Dr.) G. K. Panda, Director of MSB thanked to the resource person and participants for making the programme successful.

*S. Sahu*  
**COORDINATOR**

*[Signature]*  
**HOD**

*[Signature]*  
**DIRECTOR**  
Director  
MITS School of Biotechnology  
Bhubaneswar



मिट्स जैव प्रौद्योगिकी संस्थान  
**MITS SCHOOL OF BIOTECHNOLOGY**

2(P), INFOCITY, PATIA, BHUBANESWAR-751024



## *Certificate*

The MITS School of Biotechnology hereby certifies that

**PRAVA KUMARI**  
B.Sc-BT-2nd Year

has successfully completed  
A Two Week Add-On Programme On  
**USES OF BIODEGRADABLE PLASTICS**  
03-12-2018 To 19-12-2018

*e. Sahu*

COORDINATOR

DIRECTOR



मिट्स जैव प्रौद्योगिकी संस्थान  
**MITS SCHOOL OF BIOTECHNOLOGY**  
2(P), INFOCITY, PATIA, BHUBANESWAR-751024



# Certificate

The MITS School of Biotechnology hereby certifies that

**ISHA SHARMA**  
B.Sc-BT-2nd Year

has successfully completed  
A Two Week Add-On Programme On  
**USES OF BIODEGRADABLE PLASTICS**  
03-12-2018 To 19-12-2018

*S. Sahu*  
\_\_\_\_\_  
**COORDINATOR**

*C. S. Sahu*  
\_\_\_\_\_  
**DIRECTOR**



मिट्स जैव प्रौद्योगिकी संस्थान  
**MITS SCHOOL OF BIOTECHNOLOGY**  
2(P), INFOCITY, PATIA, BHUBANESWAR-751024



# Certificate

The MITS School of Biotechnology hereby certifies that

**PRIYANKA SWAIN**  
B.Sc-BT-2nd Year

has successfully completed  
A Two Week Add-On Programme On  
**USES OF BIODEGRADABLE PLASTICS**  
03-12-2018 To 19-12-2018

*L. Sahu*  
COORDINATOR

*[Signature]*  
DIRECTOR





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**MITS SCHOOL OF BIOTECHNOLOGY**  
2(P), INFOCITY, PATIA, BHUBANESWAR-751024



# Certificate

The MITS School of Biotechnology hereby certifies that

**RATIKA DASH**  
B.Sc-BT-2nd Year

has successfully completed  
A Two Week Add-On Programme On  
**USES OF BIODEGRADABLE PLASTICS**  
03-12-2018 To 19-12-2018

*L. Sahu*

COORDINATOR

DIRECTOR



मिड्स जैव प्रौद्योगिकी संस्थान  
**MITS SCHOOL OF BIOTECHNOLOGY**  
2(P), INFOCITY, PATIA, BHUBANESWAR-751024



# Certificate

The MITS School of Biotechnology hereby certifies that

**MOUSUMI PARIDA**  
B.Sc-BT-2nd Year

has successfully completed  
A Two Week Add-On Programme On  
**USES OF BIODEGRADABLE PLASTICS**  
03-12-2018 To 19-12-2018

*S. Sahu*

COORDINATOR

DIRECTOR



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**MITS SCHOOL OF BIOTECHNOLOGY**

2(P), INFOCITY, PATIA, BHUBANESWAR-751024



## *Certificate*

The MITS School of Biotechnology hereby certifies that

**PALLAVI MOHANTY**

B.Sc-BT-2nd Year

has successfully completed  
A Two Week Add-On Programme On  
**USES OF BIODEGRADABLE PLASTICS**  
03-12-2018 To 19-12-2018

*L. Sahu*

COORDINATOR

DIRECTOR



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**MITS SCHOOL OF BIOTECHNOLOGY**

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## *Certificate*

The MITS School of Biotechnology hereby certifies that

**SANKALP DAS**  
B.Sc-BT-2nd Year

has successfully completed  
A Two Week Add-On Programme On  
**USES OF BIODEGRADABLE PLASTICS**  
03-12-2018 To 19-12-2018

*L. Sahu*  
\_\_\_\_\_  
**COORDINATOR**

*Cey*  
\_\_\_\_\_  
**DIRECTOR**



मिट्स जैव प्रौद्योगिकी संस्थान  
**MITS SCHOOL OF BIOTECHNOLOGY**  
2(P), INFOCITY, PATIA, BHUBANESWAR-751024



## *Certificate*

The MITS School of Biotechnology hereby certifies that

**PRIYA JAISWAL**  
B.Sc-BT-2nd Year

has successfully completed  
A Two Week Add-On Programme On  
**USES OF BIODEGRADABLE PLASTICS**  
03-12-2018 To 19-12-2018

*K. Sahu*  
\_\_\_\_\_  
**COORDINATOR**

*Geeta*  
\_\_\_\_\_  
**DIRECTOR**



मिड्स जैव प्रौद्योगिकी संस्थान  
**MITS SCHOOL OF BIOTECHNOLOGY**  
2(P), INFOCITY, PATIA, BHUBANESWAR-751024



## *Certificate*

The MITS School of Biotechnology hereby certifies that

**YOGAMAYA BIHARI**  
B.Sc-BT-2nd Year

has successfully completed  
**A Two Week Add-On Programme On  
USES OF BIODEGRADABLE PLASTICS**  
03-12-2018 To 19-12-2018

*S. Sahin*  
\_\_\_\_\_  
**COORDINATOR**

*[Signature]*  
\_\_\_\_\_  
**DIRECTOR**



मिट्स जैव प्रौद्योगिकी संस्थान  
**MITS SCHOOL OF BIOTECHNOLOGY**

2(P), INFOCITY, PATIA, BHUBANESWAR-751024



## *Certificate*

The MITS School of Biotechnology hereby certifies that

**SAMBIT NAYAK**  
B.Sc-BT-2nd Year

has successfully completed  
A Two Week Add-On Programme On  
**USES OF BIODEGRADABLE PLASTICS**  
03-12-2018 To 19-12-2018

  
COORDINATOR

  
DIRECTOR

Date: 23-08-2018

### CIRCULAR

It is hereby informed to all final/pre-final year students of MSc-Biotechnology that the Department of Biotechnology of this institute is conducting a Two Weeks Add-On Program on **MASTERING TRANSGENIC PLANT TECHNOLOGY** from **03-09-2018** to **20-09-2018**. Interested students shall register their names at the office of the coordinator on or before 4 PM, 29-08-2018.




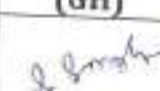

**Venue of the Programme** : Conference Hall, MITS School of Biotechnology.

**Coordinator** : **Dr. Mousumi Mishra**  
Asst. Professor  
Department of Biotechnology  
MITS School of Biotechnology



DIRECTOR

Copy to:

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			A. Nayak		
CE: For information					



## REGISTRATION FORM

Name.....

Course.....Yr(1/2/3)

Roll No.....

Institution.....

Address for Communication:

Mobile.....

Email.....

Signature

Application to be submitted online in the above format along with the scanned copy of the registration form.

Last Date of Registration: 31-08-2018

Email: rashmikiranjan93@gmail.com  
Address for Communication

**Dr. Smaranika Sahoo**  
Coordinator, Asst Professor  
Contact: +91-8963177859

Chief Patron

**Er. Sriram Panda**  
Chief Executive  
MITS Group

Patron

**Dr. G.K. Panda**  
Director  
MITS School of Biotechnology

Convenor

**Dr. Rashmi Ranjan Mishra**  
Head  
Dept. of Biotechnology

Coordinator

**Dr. Smaranika Sahoo**  
Asst Professor  
Dept. of Biotechnology

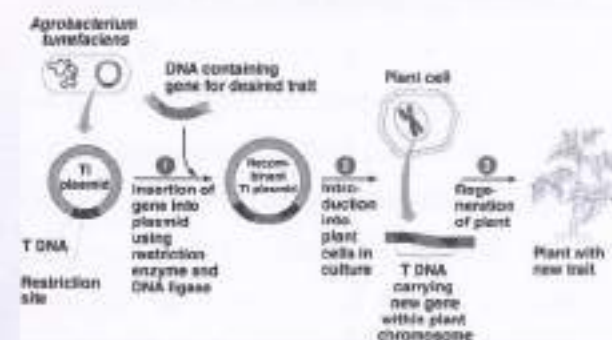
Advisory Committee

**Prof. Bibhudatta Tripathy**  
Dept. of Computer Science

**Mr. S. Satrusallya**  
Dept. of Chemistry

**Dr. Satyananda Patel**  
Dept. of Biotechnology

## A TWO-WEEK ADD-ON PROGRAM ON



## MASTERING TRANSGENIC PLANT TECHNOLOGY

Program Schedule



Organized By:

मिड्स जैव प्रौद्योगिकी संस्थान  
MITS SCHOOL OF BIOTECHNOLOGY

Venue:

2(P), Infocity, Patia  
Bhubaneswar-751024 (Odisha)  
Website: msb.ac.in  
Email: principal@msb.ac.in

## About College

Consistently ranking as the best institute in the eastern part of India, MITS School of Biotechnology (MSB) is a self financing professional organisation that was founded in 2003. The faculty consists of having qualification of PhD, M.Tech as well as experience in both Academics and industrial research, so as the student graduates, who are equally impressive mostly working in leading industries of Biotechnology, Pharma and IT. MSB is considered to be most selective, accepting, growing and proven institute under Utkal University. The institute is located at the prime location of Infocity, Bhubaneswar. This prestigious institute includes popular programs of Biotechnology, Applied Micro Biology and Computer Science.

## Courses Offered at MSB

BCA	- 3 Years
B.Sc Biotechnology	- 3 Years
M.Sc Biotechnology	- 2 Years
M.Sc App. Microbiology	- 2 Years

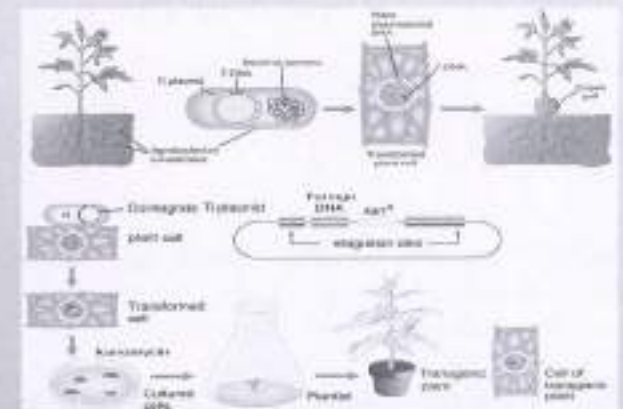
## About Programme

The Two-Week Add-On Program on Mastering Transgenic Plant Technology is a comprehensive educational opportunity for individuals interested in advancing their knowledge and skills in the field of transgenic plant technology. Transgenic plants have revolutionized agriculture, biotechnology, and environmental management. This program provides participants with a deep understanding of the principles, techniques, and applications of transgenic plant technology.



## Objective of the Programme

Explore the fundamentals of plant molecular biology, Learn the techniques involved in genetic engineering, Explore how transgenes are expressed in plants, Study the development and regulation of transgenic crops, Discuss the ethical, legal, and regulatory aspects of transgenic plants, Analyse real-world case studies of successful transgenic plant applications



## Resource Person

Asst. Prof Department of Biotechnology  
MSB, Bhubaneswar

### REGISTERED STUDENT LIST

Name of the Programme: Two Week Add-On program on **MASTERING TRANSGENIC PLANT TECHNOLOGY**  
03-09-2018 to 20-09-2018

SN	Reg. No	Name of the Student	Year Branch	Signature
1	Y18MB01	DIPEN SANKAR NAYAK	MSC BT 2 <sup>nd</sup> Year	Dipen Sankar Nayak
2	Y18MB02	ADITYA GOUDA	MSC BT 2 <sup>nd</sup> Year	Aditya Gouda
3	Y18MB03	ALOK CHANDRA SUBUDHI	MSC BT 2 <sup>nd</sup> Year	Alok C. Subudhi
4	Y18MB04	AMRITA SUBHALAXMI MOHANTY	MSC BT 2 <sup>nd</sup> Year	A. S. Mohanty
5	Y18MB05	ANIL KUMAR PANDA	MSC BT 2 <sup>nd</sup> Year	Anil Kumar Panda
6	Y18MB06	ANKITA PATTNAIK	MSC BT 2 <sup>nd</sup> Year	Ankita Pattnaik
7	Y18MB07	ANKITA SATPATHY	MSC BT 2 <sup>nd</sup> Year	Ankita Satpathy
8	Y18MB08	ARPITA PATRO	MSC BT 2 <sup>nd</sup> Year	Arpita Patro
9	Y18MB09	AYESHA AFRIN	MSC BT 2 <sup>nd</sup> Year	Ayesha Afrin
10	Y18MB10	BAISHALI MAHAPATRA	MSC BT 2 <sup>nd</sup> Year	Baishali Mahapatra
11	Y18MB11	BHOLANATHA DAS	MSC BT 2 <sup>nd</sup> Year	Bholanatha Das
12	Y18MB12	BIKASH KUMAR SAHOO	MSC BT 2 <sup>nd</sup> Year	Bikash Kumar Sahoo
13	Y18MB13	BINAPANI GIRI	MSC BT 2 <sup>nd</sup> Year	Binapani Giri
14	Y18MB14	DEBASMITA DAS	MSC BT 2 <sup>nd</sup> Year	Debasmita Das
15	Y18MB15	DEEPSHIKHA KAR	MSC BT 2 <sup>nd</sup> Year	Deepshikha Kar
16	Y18MB16	DIPTIMAYEE MALLIK	MSC BT 2 <sup>nd</sup> Year	Diptimayee Mallik
17	Y18MB17	GAURAB NANDI	MSC BT 2 <sup>nd</sup> Year	Gaurab Nandi
18	Y18MB18	PRATICHI SHRIYADARSHINI	MSC BT 2 <sup>nd</sup> Year	Pratichi Shriyadarshini
19	Y18MB19	INDIRA PRIYADARSHINI DASH	MSC BT 2 <sup>nd</sup> Year	Indira P. Dash
20	Y18MB20	IPSITA SUBUDHI	MSC BT 2 <sup>nd</sup> Year	Ipsita Subudhi
21	Y18MB21	JAGAN KUMAR BEURIA	MSC BT 2 <sup>nd</sup> Year	Jagan Kumar Beuria
22	Y18MB22	KUNTULU ANKITA	MSC BT 2 <sup>nd</sup> Year	Kuntulu Ankita
23	Y18MB23	LICKY PRIYADARSHINI	MSC BT 2 <sup>nd</sup> Year	Licky Priyadarshini

24	Y18MB24	LIPSA RANI PATTNAYAK	MSC BT 2 <sup>nd</sup> Year	Lipsa Rani pattnayak
25	Y18MB25	MADHUCHHANDA PRADHAN	MSC BT 2 <sup>nd</sup> Year	Madhuchhandapradhan
26	Y18MB26	MANISHA JENA	MSC BT 2 <sup>nd</sup> Year	Manisha Jena.
27	Y18MB27	MANISHA NANDAN	MSC BT 2 <sup>nd</sup> Year	Manisha Nandan
28	Y18MB28	NIKITA ROUSTRAY	MSC BT 2 <sup>nd</sup> Year	Nikita Roustray
29	Y18MB29	NIRLIPTA DHAL	MSC BT 2 <sup>nd</sup> Year	Nirlipta Dhal
30	Y18MB30	PALLAVI GHOSE	MSC BT 2 <sup>nd</sup> Year	Pallavi Ghosh.
31	Y18MB31	PRAGNYASINI ROUT	MSC BT 2 <sup>nd</sup> Year	Pragnyasini Rout
32	Y18MB32	PRAKASH KUMAR PRUSTI	MSC BT 2 <sup>nd</sup> Year	Prakash Kumar Prusti
33	Y18MB33	PRANGYA PARAMITA SAHU	MSC BT 2 <sup>nd</sup> Year	Prangya Paramita Sahu
34	Y18MB34	PRITEEMAYEE SWAIN	MSC BT 2 <sup>nd</sup> Year	Priteemayee Swain
35	Y18MB35	PRITI KUMARI CHOUDRI	MSC BT 2 <sup>nd</sup> Year	Priti Kumari choudhary
36	Y18MB36	PRITISHREE RAY	MSC BT 2 <sup>nd</sup> Year	pritishree Ray
37	Y18MB37	PRIYA MAHATO	MSC BT 2 <sup>nd</sup> Year	Priya Mahato
38	Y18MB38	PRIYANKA BARIK	MSC BT 2 <sup>nd</sup> Year	Priyanka Barik
39	Y18MB39	PRIYANKA ROUT	MSC BT 2 <sup>nd</sup> Year	Priyanka Rout
40	Y18MB40	RAZIA PARVEEN	MSC BT 2 <sup>nd</sup> Year	Razia Parveen.
41	Y18MB41	RITU BARAL	MSC BT 2 <sup>nd</sup> Year	Ritubaral
42	Y18MB42	RITUPURBA DASH	MSC BT 2 <sup>nd</sup> Year	Ritupurba Dash.
43	Y18MB43	SAMUKA SAHU	MSC BT 2 <sup>nd</sup> Year	Samuka Sahu
44	Y18MB44	PRATIKSHYA MOHAPATRA	MSC BT 2 <sup>nd</sup> Year	pratikshya-mohapatra
45	Y18MB45	SAYANTAN SARKAR	MSC BT 2 <sup>nd</sup> Year	Sayantana Sarkar
46	Y18MB46	SAYANTANI GUHA	MSC BT 2 <sup>nd</sup> Year	Sayantani Guha
47	Y18MB47	SHAILJA KUMARI SRIVASTAVA	MSC BT 2 <sup>nd</sup> Year	Shailja Kumari Srivastava
48	Y18MB48	SHEETAL PRADHAN	MSC BT 2 <sup>nd</sup> Year	Sheetal Pradhan
49	Y18MB49	SHILA PATEL	MSC BT 2 <sup>nd</sup> Year	Shila Patel
50	Y18MB50	SIBANI P. SATAPATHY	MSC BT 2 <sup>nd</sup> Year	Sibani P. Satapathy

51	Y18MB51	SILPA MOHANTY	MSC BT 2 <sup>nd</sup> Year	Silpa Mohanty
52	Y18MB52	SUSHREE SUBHAJYOTI PRUSTY	MSC BT 2 <sup>nd</sup> Year	Sushree Sub Prusty
53	Y18MB53	SUBHALAXMI BISOI	MSC BT 2 <sup>nd</sup> Year	Subhalaxmi Bisoi
54	Y18MB54	SUBHASHREE PARIDA	MSC BT 2 <sup>nd</sup> Year	Subhashree Parida
55	Y18MB55	SUSHREE SMITAPRANGYA SAMAL	MSC BT 2 <sup>nd</sup> Year	Sushree Smita Samal
56	Y18MB56	SUSHREE SMRUTISNIGDHA SAHOO	MSC BT 2 <sup>nd</sup> Year	Sushree S. Sahoo
57	Y18MB57	SWAGATIKA TRIPATHY	MSC BT 2 <sup>nd</sup> Year	Swagatika Tripathy.
58	Y18MB58	SWAPNARANI SETHI	MSC BT 2 <sup>nd</sup> Year	Swapnarani Sethi
59	Y18MB59	STHITIPRAGYAN BAGHSINGH	MSC BT 2 <sup>nd</sup> Year	Sthitipragyan Baghsingh
60	Y18MB60	SWETALEENA MISHRA	MSC BT 2 <sup>nd</sup> Year	Swetaleena Mishra.
61	Y18MB61	TANIMA SINGH	MSC BT 2 <sup>nd</sup> Year	Tanima Singh
62	Y18MB62	TANUSHREE BEHERA	MSC BT 2 <sup>nd</sup> Year	Tanushree Behera

  
COORDINATOR

  
HOD

  
DIRECTOR  
MITS School of Biotechnology  
Bhubaneswar

## COURSE SCHEDULE

Name of the Program: A Two Week Add-On Program on **MASTERING TRANSGENIC PLANT TECHNOLOGY**  
03-09-2018 to 20-09-2018

SN	Date	Topic	Resource Person
1	03-09-2018	Introduction of genetic transformation	Prof. Sidharth Parida
2	04-09-2018	Transgenic plant technology	Prof. Sidharth Parida
3	06-09-2018	Uses of transgenic plant technology	Prof. Sidharth Parida
4	07-09-2018	Importance of Transgenic plant	Prof. Sidharth Parida
5	08-09-2018	Advantages of Transgenic plant	Prof. Sidharth Parida
6	10-09-2018	Model of Transgenic plant	Prof. Sidharth Parida
7	11-09-2018	How has biotechnology changed agricultural sector?	Prof. Sidharth Parida
8	12-09-2018	source of industrial microbes	Prof. Sidharth Parida
9	13-09-2018	important characteristics of Transgenic plant	Prof. Sidharth Parida
10	14-09-2018	Role of Transgenic plant in Agriculture	Prof. Sidharth Parida
11	15-09-2018	Economic improvement in transgenic plant technology	Prof. Sidharth Parida
12	17-09-2018	Hands on Session	Prof. Sidharth Parida
13	18-09-2018	Hands On Session	Prof. Sidharth Parida
14	19-09-2018	Hands On Session	Prof. Sidharth Parida
15	20-09-2018	Hands On Session	Prof. Sidharth Parida

  
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MITS School of Biotechnology  
Bhubaneswar

## PROGRAM REPORT

21-09-2018

**Name of the Event:** A Two Week Add-On Program on **MASTERING TRANSGENIC PLANT TECHNOLOGY**

**Date:** 03-09-2018 to 20-09-2018

**Resource Person:** **Prof. Sidharth Parida**  
Assoc. Professor,  
Dept. of Biotechnology, MSB, Bhubaneswar.  
Contact Number: 9437089337

**Coordinator:** **Dr. Mousumi Mishra**  
Asst. Professor,  
Dept. of Biotechnology, MSB, Bhubaneswar  
MSB, Bhubaneswar

**Number of students attended:** 61

**Venue:** Conference Hall, MITS School of Biotechnology.

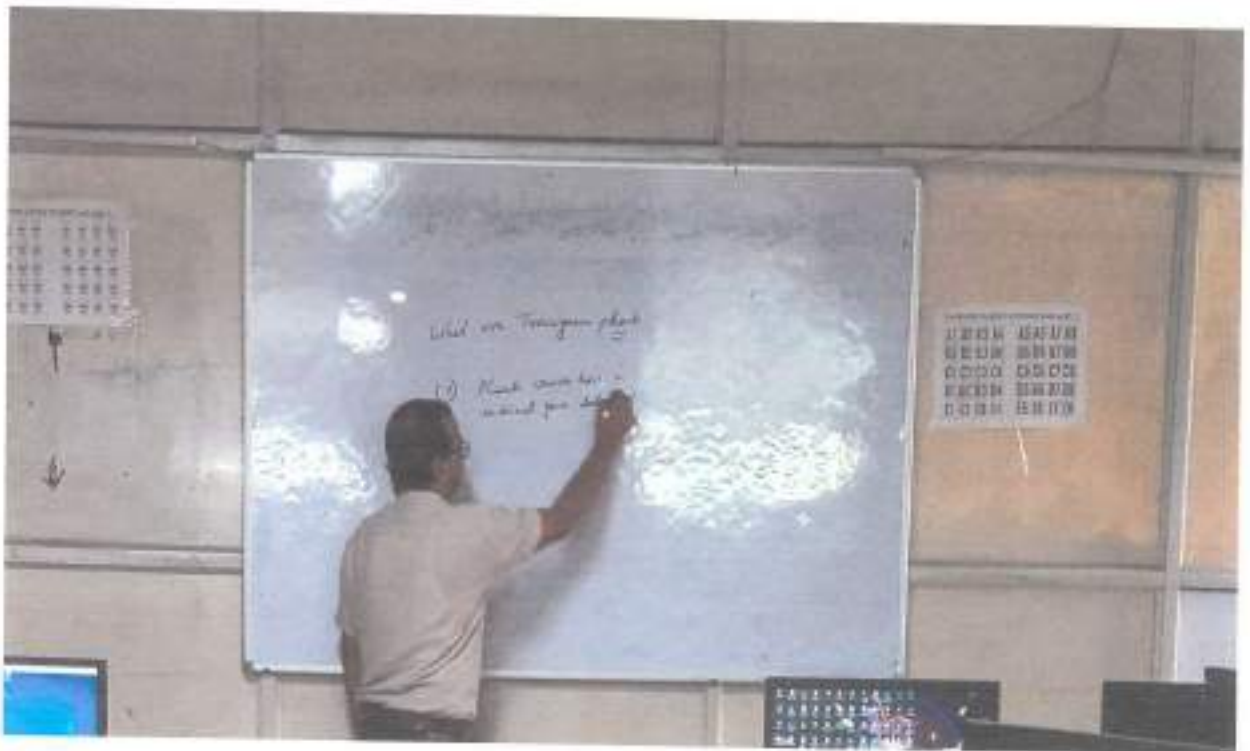
MITS school of Biotechnology, Bhubaneswar, organized a two week add-on program on **MASTERING TRANSGENIC PLANT TECHNOLOGY** for MSc-Biotechnology students by the resource person **Prof. Sidharth Parida**. This program is an in-depth training course that aims to genetically engineered plants are generated in a laboratory by altering the genetic-make-up by adding one or more genes in a plant's genome. The nucleus of the plant-cell is the target for the new transgenic DNA. Totally 61 students participated in this training program and after the completion of the program they were able to understand the following objectives and learning outcomes.

### Objectives:

1. It is important to establish a rapid and reliable transformation system for forest trees, considering their long growth cycle and low transformation efficiency.
2. Multi-omics techniques and modern biotechnology will facilitate the molecular breeding of forest trees.
3. Transgenic research on trees will improve transformation efficiency and enable the safety evaluation of transgenic plants for commercial application.

**Learning Outcomes:**

1. Transgenic technology is increasingly used in forest-tree breeding to overcome the disadvantages of traditional breeding methods, such as a long breeding cycle, complex cultivation environment, and complicated procedures.
2. Genetic transformation also enables the exploration of gene function in forest trees. However, there are many difficulties and problems to overcome in forest trees. One of them is the genetic transformation of vectors with multiple foreign genes.



A Two Week Add-On Program on **MASTERING TRANSGENIC PLANT TECHNOLOGY, 03-09-2018 to 20-09-2018**, Prof. Sidharth Parida.

This course was very useful to the students of MSc-Biotechnology and their feedback is positive. The management and Professor (Dr.) G. K. Panda, Director of MSB thanked to the resource person and participants for making the programme successful.

  
COORDINATOR

  
HOD

  
DIRECTOR  
- District  
MITS School of Technology  
Bhubaneswar





मिट्स जैव प्रौद्योगिकी संस्थान  
**MITS SCHOOL OF BIOTECHNOLOGY**

2(P), INFOCITY, PATIA, BHUBANESWAR-751024



## *Certificate*

The MITS School of Biotechnology hereby certifies that

**ADITYA GOUDA**  
MSC-BT-2nd Year

has successfully completed  
A Two Week Add-On Programme On  
**MASTERING TRANSGENIC PLANT TECHNOLOGY**  
03-09-2018 To 20-09-2018

*Meishra*

COORDINATOR

*Chandra*

DIRECTOR



मिट्स जैव प्रौद्योगिकी संस्थान  
**MITS SCHOOL OF BIOTECHNOLOGY**  
2(P), INFOCITY, PATIA, BHUBANESWAR-751024



## *Certificate*

The MITS School of Biotechnology hereby certifies that

**ANIL KUMAR PANDA**  
MSC-BT-2nd Year

has successfully completed  
A Two Week Add-On Programme On  
**MASTERING TRANSGENIC PLANT TECHNOLOGY**  
03-09-2018 To 20-09-2018

*Neeraj*

COORDINATOR

*Cepa*

DIRECTOR



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**MITS SCHOOL OF BIOTECHNOLOGY**  
2(P), INFOCITY, PATIA, BHUBANESWAR-751024



## *Certificate*

The MITS School of Biotechnology hereby certifies that

**ANKITA PATTNAIK**  
MSC-BT-2nd Year

has successfully completed  
A Two Week Add-On Programme On  
**MASTERING TRANSGENIC PLANT TECHNOLOGY**  
03-09-2018 To 20-09-2018

COORDINATOR

DIRECTOR



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**MITS SCHOOL OF BIOTECHNOLOGY**

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## *Certificate*

The MITS School of Biotechnology hereby certifies that

**ANKITA SATPATHY**  
MSC-BT-2nd Year

has successfully completed  
A Two Week Add-On Programme On  
**MASTERING TRANSGENIC PLANT TECHNOLOGY**  
03-09-2018 To 20-09-2018

COORDINATOR

DIRECTOR



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## *Certificate*

The MITS School of Biotechnology hereby certifies that

**ARPITA PATRO**  
MSC-BT-2nd Year

has successfully completed  
A Two Week Add-On Programme On  
**MASTERING TRANSGENIC PLANT TECHNOLOGY**  
03-09-2018 To 20-09-2018

COORDINATOR

DIRECTOR



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**MITS SCHOOL OF BIOTECHNOLOGY**

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## *Certificate*

The MITS School of Biotechnology hereby certifies that

**BINAPANI GIRI**  
MSC-BT-2nd Year

has successfully completed  
A Two Week Add-On Programme On  
**MASTERING TRANSGENIC PLANT TECHNOLOGY**  
03-09-2018 To 20-09-2018

COORDINATOR

DIRECTOR



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**MITS SCHOOL OF BIOTECHNOLOGY**  
2(P), INFOCITY, PATIA, BHUBANESWAR-751024



## *Certificate*

The MITS School of Biotechnology hereby certifies that

**DEBASMITA DAS**  
MSC-BT-2nd Year

has successfully completed  
A Two Week Add-On Programme On  
**MASTERING TRANSGENIC PLANT TECHNOLOGY**  
03-09-2018 To 20-09-2018

COORDINATOR

DIRECTOR



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## *Certificate*

The MITS School of Biotechnology hereby certifies that

**DIPTIMAYEE MALLIK**

MSC-BT-2nd Year

has successfully completed  
A Two Week Add-On Programme On  
**MASTERING TRANSGENIC PLANT TECHNOLOGY**  
03-09-2018 To 20-09-2018

COORDINATOR

DIRECTOR





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## *Certificate*

The MITS School of Biotechnology hereby certifies that

**GAURAB NANDI**  
MSC-BT-2nd Year

has successfully completed  
A Two Week Add-On Programme On  
**MASTERING TRANSGENIC PLANT TECHNOLOGY**  
03-09-2018 To 20-09-2018

COORDINATOR

DIRECTOR



मिट्स जैव प्रौद्योगिकी संस्थान  
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## *Certificate*

The MITS School of Biotechnology hereby certifies that

**IPSITA SUBUDHI**  
MSC-BT-2nd Year

has successfully completed  
A Two Week Add-On Programme On  
**MASTERING TRANSGENIC PLANT TECHNOLOGY**  
03-09-2018 To 20-09-2018

COORDINATOR

DIRECTOR

Date: 27-08-2018

## CIRCULAR

It is hereby informed to all final/pre-final year students of MSc-Applied Microbiology that the Department of Biotechnology of this institute is conducting a Two Week Add-On Program on **DIAGNOSTIC CLINICAL MICROBIOLOGY** from **06-09-2018 to 22-09-2018**. Interested students shall register their names at the office of the coordinator on or before 4 PM, 31-08-2018.

**Venue of the Programme** : Conference Hall, MITS School of Biotechnology.

**Coordinator** : **Dr. Smaranika Sahoo**  
Asst. Professor  
Department of Biotechnology  
MITS School of Biotechnology




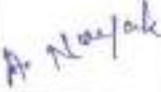




**DIRECTOR**

Director

MITS School of Biotechnology  
Bhubaneswar

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## REGISTRATION FORM

Name.....

Course.....Yr(1/2/3)

Roll No.....

Institution.....

Address for Communication:

Mobile.....

Email.....

Signature

Application to be submitted online in the above format along with the scanned copy of the registration form.

Last Date of Registration:04.09.2018

Email: rashmيرانjan93@gmail.com

Address for Communication

**Dr. Mousumi Mishra**

Coordinator, Asst Professor

Contact: +91-9937026755

**Chief Patron**

**Er. Sriram Panda**  
Chief Executive  
MITS Group

**Patron**

**Dr. G.K. Panda**  
Director  
MITS School of Biotechnology

**Convenor**

**Dr. Smaranika Sahoo**  
Head  
Dept. of Biotechnology

**Coordinator**

**Dr. Mousumi Mishra**  
Asst Professor  
Dept. of Biotechnology

**Advisory Committee**

**Dr. Rashmi Ranjan Mishra**  
Dept. of Biotechnology

**Dr. Manisha Patnaik**  
Dept. of Biotechnology

**Mr. Prakash Biswal**  
Dept. of Biotechnology

## A TWO-WEEK ADD-ON PROGRAM ON



## DIAGNOSTIC CLINICAL MICROBIOLOGY

Program Schedule



Organized By:

मिड्स जैव प्रौद्योगिकी संस्थान  
MITS SCHOOL OF BIOTECHNOLOGY

Venue:

2(P), Infocity, Patia  
Bhubaneswar-751024 (Odisha)  
Website: msb.ac.in  
Email: principal@msb.ac.in

## About College

Consistently ranking as the best institute in the eastern part of India, MITS School of Biotechnology (MSB) is a self financing professional organisation that was founded in 2003. The faculty consists of having qualification of PhD, M.Tech as well as experience in both Academics and industrial research, so as the student graduates, who are equally impressive mostly working in leading industries of Biotechnology, Pharma and IT. MSB is considered to be most selective, accepting, growing and proven institute under Utkal University. The institute is located at the prime location of Infocity, Bhubaneswar. This prestigious institute includes popular programs of Biotechnology, Applied Micro Biology and Computer Science.

## Courses Offered at MSB

BCA	- 3 Years
B.Sc Biotechnology	- 3 Years
M.Sc Biotechnology	- 2 Years
M.Sc App. Microbiology	- 2 Years

## About Programme

The Two-Week Add-On Program on technicians, and aspiring clinical microbiologists with an in-depth understanding of the principles, techniques, and best practices in the field of clinical microbiology. This program focuses on the crucial role of microbiology in diagnosing and managing infectious diseases in clinical settings. Participants will have the opportunity to explore both theoretical knowledge and hands-on laboratory skills essential for accurate diagnosis.



## Objective of the Programme

Gain a comprehensive understanding of clinical microbiology, Learn a variety of diagnostic techniques used in clinical microbiology, Develop an awareness of laboratory safety protocols and biosafety measures, Explore methods for diagnosing and managing emerging infectious diseases, Explore the challenges for diagnosing and managing emerging infectious diseases



Resource Person

**Dr**

Asst. Prof Department of Biotechnology  
MSB, Bhubaneswar

## REGISTERED STUDENT LIST

Name of the Programme: Two Week Add-On program on **DIAGNOSTIC CLINICAL MICROBIOLOGY**

06-09-2018 to 22-09-2018

SN	Reg. No	Name of the Student	Year Branch	Signature
1	Y18MM01	ABHISEK MAITY	MSC AMB 2 <sup>nd</sup> Year	Abhisek Maity
2	Y18MM02	ABHILIPSA PARHI	MSC AMB 2 <sup>nd</sup> Year	Abhilipsa Parhi
3	Y18MM03	ABHIPSA SAMAL	MSC AMB 2 <sup>nd</sup> Year	Abhilipsa Samal
4	Y18MM04	ADARSHAMAYEE MOHANTY	MSC AMB 2 <sup>nd</sup> Year	Adarshamayee Mohanty
5	Y18MM05	ANUCHHAYA PATRA	MSC AMB 2 <sup>nd</sup> Year	Anuchhaya Patra
6	Y18MM06	DIPTIMAYEE JALLY	MSC AMB 2 <sup>nd</sup> Year	Diptimayee Jally
7	Y18MM07	DEBASHISH SAHOO	MSC AMB 2 <sup>nd</sup> Year	Debashish Sahoo
8	Y18MM08	EVANJALI PRADHAN	MSC AMB 2 <sup>nd</sup> Year	Evansaji Pradhan
9	Y18MM09	JYOTI PRAKASH DAS	MSC AMB 2 <sup>nd</sup> Year	Jyoti Prakash Das
10	Y18MM10	JAGANNATH ROUT	MSC AMB 2 <sup>nd</sup> Year	Jagannath Rout
11	Y18MM11	MANASI JENA	MSC AMB 2 <sup>nd</sup> Year	Manasi Jena
12	Y18MM12	MANISHA SAHOO	MSC AMB 2 <sup>nd</sup> Year	Manisha Sahoo
13	Y18MM13	MOUSUMI SATAPATHY	MSC AMB 2 <sup>nd</sup> Year	Mousumi Satapathy
14	Y18MM14	POOJA BEHERA	MSC AMB 2 <sup>nd</sup> Year	Pooja Behera
15	Y18MM15	PRIYANKA PATRA	MSC AMB 2 <sup>nd</sup> Year	Priyanka Patra
16	Y18MM16	RAJESH KUMAR RATH	MSC AMB 2 <sup>nd</sup> Year	Rajesh Kumar Rath
17	Y18MM17	RASMITA PADHI	MSC AMB 2 <sup>nd</sup> Year	Rasmita Padhi
18	Y18MM18	SRADHANJALI MAHARATHI	MSC AMB 2 <sup>nd</sup> Year	Sradhanjali Maharathi
19	Y18MM19	SAMEER SOURAV MISHRA	MSC AMB 2 <sup>nd</sup> Year	Sameer Sourav Mishra
20	Y18MM20	SAMIKSHYA MEHER	MSC AMB 2 <sup>nd</sup> Year	Samikshya Meher
21	Y18MM21	SASMITA MEHER	MSC AMB 2 <sup>nd</sup> Year	Sasmita Meher
22	Y18MM22	SANCHARI GUHA	MSC AMB 2 <sup>nd</sup> Year	Sanchari Guha
23	Y18MM23	SOUMEN MAJI	MSC AMB 2 <sup>nd</sup> Year	Soumen Maji

24	Y18MM24	SOMYASHREE PATTANAİK	MSC AMB 2 <sup>nd</sup> Year	Somyashree pattanaik
25	Y18MM25	SWAPNA ROUT	MSC AMB 2 <sup>nd</sup> Year	Swapna Rout
26	Y18MM26	SUSMITA BISWAL	MSC AMB 2 <sup>nd</sup> Year	Susmita biswal
27	Y18MM27	SUBRATA PARAI	MSC AMB 2 <sup>nd</sup> Year	Subrata Parai
28	Y18MM28	SUNITA JETHY	MSC AMB 2 <sup>nd</sup> Year	Sunita jethy
29	Y18MM29	SUNITA SAHOO	MSC AMB 2 <sup>nd</sup> Year	Sunita saho
30	Y18MM30	SUBHASHREE DAS	MSC AMB 2 <sup>nd</sup> Year	Subhashree Das
31	Y18MM31	SWAYAM SARVANI SAHOO	MSC AMB 2 <sup>nd</sup> Year	Swayam s.sahoo

S. Sahu  
COORDINATOR

  
HOD

  
DIRECTOR  
MITS School of Biotechnology  
Bhubaneswar

### COURSE SCHEDULE

Name of the Program: A Two Week Add-On Program on **DIAGNOSTIC CLINICAL MICROBIOLOGY**  
06-09-2018 to 22-09-2018

SN	Date	Topic	Resource Person
1	06-09-2018	Introduction of clinical microbiology	Dr. H. Bhattacharya
2	07-09-2018	Different techniques uses in clinical microbiology	Dr. H. Bhattacharya
3	08-09-2018	Microbial Identification	Dr. H. Bhattacharya
4	10-09-2018	Importance of diagnostic clinical microbiology	Dr. H. Bhattacharya
5	11-09-2018	Advantages of clinical microbiology	Dr. H. Bhattacharya
6	12-09-2018	Model of diagnosis	Dr. H. Bhattacharya
7	13-09-2018	Antimicrobial Susceptibility	Dr. H. Bhattacharya
8	14-09-2018	source of industrial microbes	Dr. H. Bhattacharya
9	15-09-2018	Specimen Selection, Collection, and Processing	Dr. H. Bhattacharya
10	17-09-2018	Direct Examination and Techniques	Dr. H. Bhattacharya
11	18-09-2018	Culture of organisms	Dr. H. Bhattacharya
12	19-09-2018	Hands on Session	Dr. H. Bhattacharya
13	20-09-2018	Hands On Session	Dr. H. Bhattacharya
14	21-09-2018	Hands On Session	Dr. H. Bhattacharya
15	22-09-2018	Hands On Session	Dr. H. Bhattacharya

P. Saha  
COORDINATOR

  
HOD

  
DIRECTOR  
MITS School of Biotechnology  
Bhubaneswar





## PROGRAM REPORT

24-09-2018

**Name of the Event:** A Two Week Add-On Programme on **DIAGNOSTIC CLINICAL MICROBIOLOGY**

**Date:** 06-09-2018 to 22-09-2018

**Resource Person:** **Dr. H. Bhattacharya**  
Asst. Professor,  
Dept. of Biotechnology, MSB, Bhubaneswar.  
Contact Number: 9886146077

**Coordinator:** **Dr. Smaranika Sahu**  
Asst. Professor,  
Dept. of Biotechnology,  
MSB, Bhubaneswar

**Number of students attended:** 28

**Venue:** Conference Hall, MITS School of Biotechnology.

MITS school of Biotechnology, Bhubaneswar, organized a two week add-on program on **DIAGNOSTIC CLINICAL MICROBIOLOGY** for MSc-Applied Microbiology students by the resource person **Dr. H Bhattacharya**. The clinical presentation of an infectious disease reflects the interaction between the host and the microorganism. So diagnosis requires a composite of information, including history, physical examination, radiographic findings, and laboratory data. Totally 28 students participated in this training program and after the completion of the program they were able to understand the following objectives and learning outcomes.

### **Objectives:**

1. The clinical presentation of an infectious disease reflects the interaction between the host and the microorganism.
2. This interaction is affected by the host immune status and microbial virulence factors. Signs and symptoms vary according to the site and severity of infection.
3. Diagnosis requires a composite of information, including history, physical examination, radiographic findings, and laboratory data.

**Learning Outcomes:**

1. Gaining knowledge on the term and the susceptible means that the microorganism is inhibited by a concentration of antimicrobial agent that can be attained in blood with the normally recommended dose of the antimicrobial agent and implies that an infection caused by this microorganism may be appropriately treated with the antimicrobial agent.
2. The term resistant indicates that the microorganism is resistant to concentrations of the antimicrobial agent that can be attained with normal doses and implies that an infection caused by this microorganism could not be successfully treated with this antimicrobial agent.



A Two Week Add-On Program on **DIAGNOSTIC CLINICAL MICROBIOLOGY**, 06-09-2018 to 22-09-2018, Dr. H Bhattacharya.

This course was very useful to the students of MSc-Applied microbiology and their feedback is positive. The management and Professor (Dr.) G. K. Panda, Director of MSB thanked to the resource person and participants for making the programme successful.

*S. Sahu*  
COORDINATOR

*[Signature]*  
HOD

*[Signature]*  
DIRECTOR



मिट्स जैव प्रौद्योगिकी संस्थान  
**MITS SCHOOL OF BIOTECHNOLOGY**  
2(P), INFOCITY, PATIA, BHUBANESWAR-751024



# Certificate

The MITS School of Biotechnology hereby certifies that

**ABHISEK MAITY**  
MSC-AMB-2nd Year

has successfully completed  
A Two Week Add-On Programme On  
**DIAGNOSTIC CLINICAL MICROBIOLOGY**  
06-09-2018 To 22-09-2018

*Mishra*

COORDINATOR

*Chopra*

DIRECTOR



मिट्स जैव प्रौद्योगिकी संस्थान  
**MITS SCHOOL OF BIOTECHNOLOGY**  
2(P), INFOCITY, PATIA, BHUBANESWAR-751024



## *Certificate*

The MITS School of Biotechnology hereby certifies that

**ABHIPSA SAMAL**  
MSC-AMB-2nd Year

has successfully completed  
A Two Week Add-On Programme On  
**DIAGNOSTIC CLINICAL MICROBIOLOGY**  
06-09-2018 To 22-09-2018

COORDINATOR

DIRECTOR



मिट्स जैव प्रौद्योगिकी संस्थान  
**MITS SCHOOL OF BIOTECHNOLOGY**

2(P), INFOCITY, PATIA, BHUBANESWAR-751024



## *Certificate*

The MITS School of Biotechnology hereby certifies that

**DIPTIMAYEE JALLY**  
MSC-AMB-2nd Year

has successfully completed  
A Two Week Add-On Programme On  
**DIAGNOSTIC CLINICAL MICROBIOLOGY**  
06-09-2018 To 22-09-2018

COORDINATOR

DIRECTOR



मिट्स जैव प्रौद्योगिकी संस्थान  
**MITS SCHOOL OF BIOTECHNOLOGY**

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## *Certificate*

The MITS School of Biotechnology hereby certifies that

**DEBASHISH SAHOO**

MSC-AMB-2nd Year

has successfully completed  
A Two Week Add-On Programme On  
**DIAGNOSTIC CLINICAL MICROBIOLOGY**  
06-09-2018 To 22-09-2018

COORDINATOR

DIRECTOR



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The MITS School of Biotechnology hereby certifies that

**MANISHA SAHOO**  
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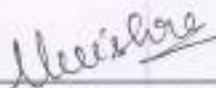


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