

### LIST OF CERTIFICATE PROGRAMS

A. Y: 2022-2023

S. NO.	NAME OF THE PROGRAM	DATE	NO OF STUDENTS PARTICIPATED
1	A Two Week Add-On Program on Internet of Things (IoT)	13.03.2023 To 31.03.2023	96
2	A Two Week Add-On Program on Applied Cyber Security	15.05.2023 To 31.05.2023	126
3	A Two Week Add-On Program on Human-Centric rDNA Technology	15.05.2023 To 31.05.2023	79
4	A Two Week Add-On Program on Microbial Application in Food Industry	01.05.2023 To 17.05.2023	116
5	A Two Week Add-On Program on The Role of Transgenic Plants in Agriculture and Biopharming	03.04.2023 To 21.04.2023	63
6	A Two Week Add-On Program on Synthesis of Silver Nano Particles using <i>Bacillus sp</i>	03.04.2023 To 21.04.2023	61



**DIRECTOR**

Director  
MITS School of Biotechnology  
Bhubaneswar

Date: 03-03-2023

### 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 **INTERNET OF THINGS (IOT)** from **13-03-2023 to 31-03-2023**. Interested students shall register their names at the office of the coordinator on or before 4 PM, 10-03-2023.





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

**Coordinator** : **Prof. Chhabi Sethi**  
Asst. Professor  
Department of Computer Science  
MITS School of Biotechnology



**DIRECTOR**

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HOD-BIO	HOD-COMP	DO	Warden (BH)	Warden (GH)	LIBRARIAN
			A. Nayak	A. Panda	
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: 10-03-2023

Email: csethi.msb@gmail.com

Address for Communication

**Prof. Chhabi Sethi**  
Coordinator, Asst Professor  
Contact: +91-98612 93070

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

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

**Convenor**  
**Prof. Bibhudatta Tripathy**  
Asst Professor  
Dept. of Computer Science

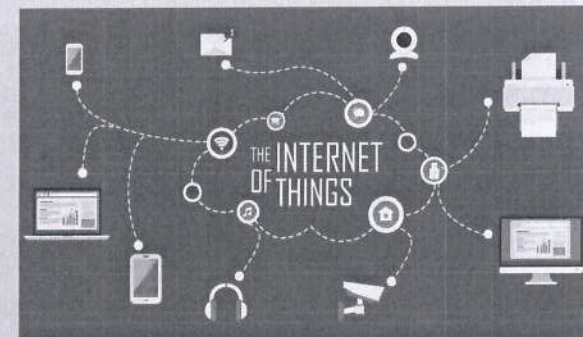
**Coordinator**  
**Prof. Chhabi Sethi**  
Asst. Professor  
Dept. of Computer Science

**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



## INTERNET OF THINGS (IOT)

Programme Schedule

13-03-2023 to 31-03-2023



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

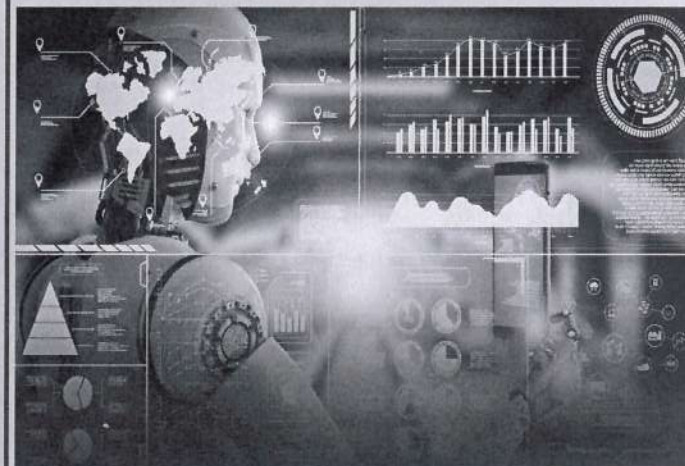
## About Programme

In this educational program, students will delve into the fundamental frameworks and methodologies underpinning the Internet of Things (IoT). They will also cultivate expertise in network protocols and the incorporation of mobile and ubiquitous end-devices within the Machine-to-Machine (M2M) paradigm. The array of devices earmarked for integration encompasses sensors, actuators, and sophisticated boards, enabling students to gain a comprehensive understanding of IoT's intricate ecosystem. This immersive learning experience equips them with the knowledge to IoT .



## Objective of the Programme

In the realm of Internet of Things (IoT) exploration, three key aspects come to the forefront. First and foremost, there's the critical task of identifying the various components that comprise the IoT architecture. This foundational step involves understanding the fundamental building blocks and infrastructure that make IoT systems work seamlessly. Moving forward, it becomes pivotal to leverage this knowledge in practical scenarios.



Resource Person

**Prof Ankita Samanatar**  
Head, Dept. of Computer Science  
MSB, Bhubaneswar



## REGISTERED STUDENT LIST

Name of the Programme: Two Week Add-On program on INTERNET OF THINGS (IOT)  
13-03-2023 to 31-03-2023

SN	Reg. No	Name of the Student	Year Branch	Signature
1	Y23CS01	KARUNA SANKAR NAIK	BCA 3 <sup>rd</sup> Year	Karuna Sankar Naik
2	Y23CS03	ANUSKA ANURITA MOHARANA	BCA 3 <sup>rd</sup> Year	Anuska Anurita Moharana
3	Y23CS04	ASHUTOSH PARIDA	BCA 3 <sup>rd</sup> Year	Ashutosh Parida
4	Y23CS05	DEEPAK KUMAR SAHU	BCA 3 <sup>rd</sup> Year	Deepak Kumar Sahu
5	Y23CS06	AKASH KUMAR CHOUDHARI	BCA 3 <sup>rd</sup> Year	Akash Kumar Choudhary
6	Y23CS07	BINAYA KUMAR BHUYAN	BCA 3 <sup>rd</sup> Year	Binaya Kumar Bhuyan
7	Y23CS08	SUMIT OJHA	BCA 3 <sup>rd</sup> Year	Sumit Ojha
8	Y23CS09	AUROSOMAN MOHAPATRA	BCA 3 <sup>rd</sup> Year	Aurosoman Mohapatra
9	Y23CS10	PRAJOJITA MOHANTY	BCA 3 <sup>rd</sup> Year	Prajojita Mohanty
10	Y23CS11	PRANAYA KUMAR SWAIN	BCA 3 <sup>rd</sup> Year	Pranaya Kumar Swain
11	Y23CS12	AMAN KUMAR BADI	BCA 3 <sup>rd</sup> Year	Aman Kumar Badi
12	Y23CS13	ANKIT RAJ SAHU	BCA 3 <sup>rd</sup> Year	Ankit Raj Sahu
13	Y23CS14	SAMPAD KUMAR MOHAPATRA	BCA 3 <sup>rd</sup> Year	Sampad Kumar Mohapatra
14	Y23CS15	AYUSH MALLICK	BCA 3 <sup>rd</sup> Year	Ayush Mallick
15	Y23CS16	SONALI ROUSTRAY	BCA 3 <sup>rd</sup> Year	Sonali Roustray
16	Y23CS17	RAJESH KUMAR BEHERA	BCA 3 <sup>rd</sup> Year	Rajesh Kumar Behera
17	Y23CS18	SUDHANSHU KUMAR SAHOO	BCA 3 <sup>rd</sup> Year	Sudhanshu Kumar Sahoo
18	Y23CS23	PRABHAKAR CHOUDHURY	BCA 3 <sup>rd</sup> Year	Prabhakar Choudhury
19	Y23CS20	RUDRA PRASAD ROUSTRAY	BCA 3 <sup>rd</sup> Year	Rudra Prasad Roustray
20	Y23CS21	ASHISH KUMAR SAHOO	BCA 3 <sup>rd</sup> Year	Ashish Kumar Sahoo
21	Y23CS22	SRIRAM SEKHAR DASH	BCA 3 <sup>rd</sup> Year	SRIRAM SEKHAR DASH
22	Y23CS23	SURAJ MANDAL	BCA 3 <sup>rd</sup> Year	Suraj Mandal
23	Y23CS24	MAHESH SAHOO	BCA 3 <sup>rd</sup> Year	Mahesh Sahoo



24	Y23CS25	SUNIL KUMAR SWAIN	BCA 3 <sup>rd</sup> Year	Sunil Kumar Swain
25	Y23CS26	ASUTOSH PRADHAN	BCA 3 <sup>rd</sup> Year	Asutosh Pradhan.
26	Y23CS27	BIBAKANANDA PANIGRAHI	BCA 3 <sup>rd</sup> Year	Bibakananda Panigrahi
27	Y23CS28	SAGAR BEHERA	BCA 3 <sup>rd</sup> Year	Sagar Behera
28	Y23CS29	TEHRIM SIDDIQA	BCA 3 <sup>rd</sup> Year	Tehrism Siddiqa
29	Y23CS30	ASUTOSH NAYAK	BCA 3 <sup>rd</sup> Year	Asutosh Nayak
30	Y23CS31	ARPAN NAYAK	BCA 3 <sup>rd</sup> Year	Arpan Nayak
31	Y23CS32	ANIL KUMAR MADALA	BCA 3 <sup>rd</sup> Year	Anil Kumar Madala
32	Y23CS33	MONALISA SAMANTARAY	BCA 3 <sup>rd</sup> Year	Monalisa Samantaray
33	Y23CS34	SAMBIT KUMAR PARIDA	BCA 3 <sup>rd</sup> Year	Sambit Kumar Parida
34	Y23CS35	PRASANTA SATAPATHY	BCA 3 <sup>rd</sup> Year	Prasanta Satapathey
35	Y23CS36	ANANYA ROUTRAY	BCA 3 <sup>rd</sup> Year	Ananya Routray
36	Y23CS37	NIRLIPTA JENA	BCA 3 <sup>rd</sup> Year	Nirlipta Jena
37	Y23CS38	PREETISMITA SWAIN	BCA 3 <sup>rd</sup> Year	preetismita swain.
38	Y23CS39	SANGRAM SWAIN	BCA 3 <sup>rd</sup> Year	Sangram Swain
39	Y23CS40	PRATISH KUMAR SAHOO	BCA 3 <sup>rd</sup> Year	Pratish Kumar Sahoo
40	Y23CS41	SOUMYA RANJAN DASH	BCA 3 <sup>rd</sup> Year	Soumya ranjan dash
41	Y23CS42	PRABHU PRASAD PRUSTY	BCA 3 <sup>rd</sup> Year	Prabhu Prasad Prusty.
42	Y23CS43	B.D CHANDRASEKHAR MOHANTA	BCA 3 <sup>rd</sup> Year	B.D. Chandrasekhar Mohanta.
43	Y23CS44	NIKHIL PRADHAN	BCA 3 <sup>rd</sup> Year	Nikhil Pradhan
44	Y23CS45	SUBRAT KUMAR SAHOO	BCA 3 <sup>rd</sup> Year	Subrat Kumar Sahoo
45	Y23CS46	PRITIRANJAN MALLICK	BCA 3 <sup>rd</sup> Year	Pritiranjana Mallick
46	Y23CS47	SOHAN DASH	BCA 3 <sup>rd</sup> Year	Sohan Dash
47	Y23CS48	ASHISH KUMAR SAHOO	BCA 3 <sup>rd</sup> Year	Ashish Kumar Sahoo
48	Y23CS49	SIBANANDA SAHOO	BCA 3 <sup>rd</sup> Year	Sibananda Sahoo
49	Y23CS50	JYOTI RANJAN JENA	BCA 3 <sup>rd</sup> Year	Jyoti Ranjan Jena



50	Y23CS51	CHINMAY DAS	BCA 3 <sup>rd</sup> Year	Chinmay Das
51	Y23CS52	DIKSHA CHOUDHARY	BCA 3 <sup>rd</sup> Year	Diksha Choudhary
52	Y23CS53	NIRUPAMA SWAIN	BCA 3 <sup>rd</sup> Year	Nirupama Swain
53	Y23CS54	SIDHARTH KUMAR DASH	BCA 3 <sup>rd</sup> Year	Sidharth Kumar Dash
54	Y23CS55	SANATANA PARIDA	BCA 3 <sup>rd</sup> Year	sanatana parida
55	Y23CS56	DEBASHIS PARIDA	BCA 3 <sup>rd</sup> Year	Debashis parida
56	Y23CS57	MADHU MALA GHOSH	BCA 3 <sup>rd</sup> Year	Madhu Mala Ghosh
57	Y23CS58	SOUBHAGYA KUMAR DAS	BCA 3 <sup>rd</sup> Year	Soubhagya Kumar Das
58	Y23CS59	MONALISHA SAHOO	BCA 3 <sup>rd</sup> Year	monalisha sahuo
59	Y23CS60	PRIYANKA PRIYADARSHINI MISHRA	BCA 3 <sup>rd</sup> Year	Priyanka Priyadarshini Mishra
60	Y23CS61	PRAGATI BHAKAT	BCA 3 <sup>rd</sup> Year	Pragati Bhakat
61	Y23CS62	RUCHISMITA SAHOO	BCA 3 <sup>rd</sup> Year	Ruchismita Sahoo
62	Y23CS63	RAHUL KUMAR DAS	BCA 3 <sup>rd</sup> Year	Rahul Kumar Das.
63	Y23CS64	MANOJ KUMAR JENA	BCA 3 <sup>rd</sup> Year	Manoj Kumar Jena
64	Y23CS65	ASHUTOSH SAMAL	BCA 3 <sup>rd</sup> Year	Ashutosh Samal
65	Y23CS66	SATYAM KUMAR DAS	BCA 3 <sup>rd</sup> Year	Satyam Kumar Das.
66	Y23CS67	BISWOJIT NAYAK	BCA 3 <sup>rd</sup> Year	Biswojit Nayak
67	Y23CS68	SUBHASHMITA DASH	BCA 3 <sup>rd</sup> Year	Subhashmita dash
68	Y23CS69	SUBHADARSHINI SAHOO	BCA 3 <sup>rd</sup> Year	Subhadarshini sahuo.
69	Y23CS70	YAJNASENI DAS	BCA 3 <sup>rd</sup> Year	Yajnaseni Das
70	Y23CS71	BADAL SINGH	BCA 3 <sup>rd</sup> Year	Badal Singh
71	Y23CS72	BISHAL SAHOO	BCA 3 <sup>rd</sup> Year	Bishal Sahoo
72	Y23CS73	SANDEEP BESHRA	BCA 3 <sup>rd</sup> Year	Sandeep beshra
73	Y23CS74	N.SOMYA RANJAN	BCA 3 <sup>rd</sup> Year	N.Somya Ranjan



74	Y23CS75	MANAS KUMAR SENAPATI	BCA 3 <sup>rd</sup> Year	Manas Kumar Senapati
75	Y23CS76	BIBHUPRASAD MOHAPATRA	BCA 3 <sup>rd</sup> Year	Bibhu Prasad Mohapatra
76	Y23CS77	ANKITA PATRA	BCA 3 <sup>rd</sup> Year	Ankita Patra
77	Y23CS78	ANNAPURNA PATRA	BCA 3 <sup>rd</sup> Year	Annapurna Patra
78	Y23CS79	SIBRAJ ROSAN PALAI	BCA 3 <sup>rd</sup> Year	Sibraj Rosan Palai
79	Y23CS80	HRUSHIKESH BEHERA	BCA 3 <sup>rd</sup> Year	Aman Kunjilwar
80	Y23CS81	AMAN KUNJILWAR	BCA 3 <sup>rd</sup> Year	Aman Kunjilwar
81	Y23CS82	SUVENDU DAS	BCA 3 <sup>rd</sup> Year	Suvendu Das
82	Y23CS83	PALLAVI P. MAHALA	BCA 3 <sup>rd</sup> Year	Pallavi P. Mahala
83	Y23CS84	SALONI PARIDA	BCA 3 <sup>rd</sup> Year	Saloni Parida
84	Y23CS85	OMM PRAKASH ROUT	BCA 3 <sup>rd</sup> Year	Omm Prakash Rout
85	Y23CS86	CHIRANJEEV MALLICK	BCA 3 <sup>rd</sup> Year	Chiranjeev Mallik
86	Y23CS87	SUBHAM KUMAR PADHI	BCA 3 <sup>rd</sup> Year	Subham Kumar Padhi
87	Y23CS88	AISHWARYA DAS	BCA 3 <sup>rd</sup> Year	Aishwarya Das
88	Y23CS89	MANMAY NAIK	BCA 3 <sup>rd</sup> Year	Manmaya Naik
89	Y23CS90	SUBHASIS BARADA	BCA 3 <sup>rd</sup> Year	Suchismita Dash
90	Y23CS91	SUCHISMITA DASH	BCA 3 <sup>rd</sup> Year	Suchismita Dash
91	Y23CS93	SNEHASHIS JENA	BCA 3 <sup>rd</sup> Year	Snehashis Jena
92	Y23CS94	SONALI DASH	BCA 3 <sup>rd</sup> Year	Sonali Das
93	Y23CS95	KRUTIRANI MISHRA	BCA 3 <sup>rd</sup> Year	Krutirani Mishra
94	Y23CS96	SIDHANTA SWAIN	BCA 3 <sup>rd</sup> Year	Sidhanta Swain
95	Y23CS97	SISIR KANTA BEHERA	BCA 3 <sup>rd</sup> Year	Sisir Kanta Behera
96	Y23CS98	LOKANATH MOHARANA	BCA 3 <sup>rd</sup> Year	Lokanath Moharana

*C. Sethi*  
COORDINATOR

*M. Nayak*  
HOD

*C. S. S.*  
DIRECTOR

MITS School of Biotechnology  
Bhubaneswar



### COURSE SCHEDULE

Name of the Program: A Two Week Add-On Programme on **INTERNET OF THINGS (IOT)**  
13-03-2023 to 31-03-2023

SN	Date	Topic	Resource Person
1	13-03-2023	Introduction to IoT systems: definitions, applications, enabling technologies	Prof. A. Samantara
2	14-03-2023	IoT components: from sensors to gateway.	Prof. A. Samantara
3	15-03-2023	Sensors and actuators, sketchy illustration of design principles of electronic circuit boards, sensing and data acquisition policies.	Prof. A. Samantara
4	16-03-2023	Microcontrollers and System on Chip (SoC) prototypes' programming	Prof. A. Samantara
5	17-03-2023	IoT components: from gateway to cloud	Prof. A. Samantara
6	18-03-2023	Session layer protocols: XMPP, CoAP, MQTT, AMQP, WebSocket, etc	Prof. A. Samantara
7	20-03-2023	The Web of Things and Semantic Web approaches for M2M and IoT	Prof. A. Samantara
8	21-03-2023	IoT storage and analytics	Prof. A. Samantara
9	23-03-2023	IoT platforms: AWS IoT, Watson IoT, ThingSpeak, etc.	Prof. A. Samantara
10	24-03-2023	IoT & Big-data	Prof. A. Samantara
11	25-03-2023	Frameworks for integrated development of IoT applications	Prof. A. Samantara
12	27-03-2023	Hands On Session	Prof. A. Samantara
13	28-03-2023	Hands On Session	Prof. A. Samantara
14	29-03-2023	Hands On Session	Prof. A. Samantara
15	31-03-2023	Hands On Session	Prof. A. Samantara

  
COORDINATOR

  
HOD

  
DIRECTOR

Director  
MITS School of Biotechnology  
Bhubaneswar

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

Website: [www.msb.ac.in](http://www.msb.ac.in)  
Email: [principal@msb.ac.in](mailto:principal@msb.ac.in)

31-03-2023

**Name of the Event:** A Two Week Add-On Programme on **INTERNET OF THINGS (IOT)**

**Date:** 13-03-2023 To 31-03-2023

**Resource Person:** **Prof Ankita Samanatar**

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

Contact Number: 8339057131

**Coordinator:** **Prof. Chabi Sethi**

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

**Number of students attended:** 96

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

MITS school of Biotechnology, Bhubaneswar, organized a two week add-on program on **INTERNET OF THINGS (IOT)** for BCA final semester students. **Prof Ankita Samanatar** was the resource person for the said event. Students will learn the architectures and methodologies at the basis of the Internet of Things (IoT), and will develop advanced competences about network protocols, integration of mobile and pervasive end-devices in a Machine-to-Machine (M2M) paradigm. Devices considered for integration will include sensors and actuators as well as more complex boards. Totally 96 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:**

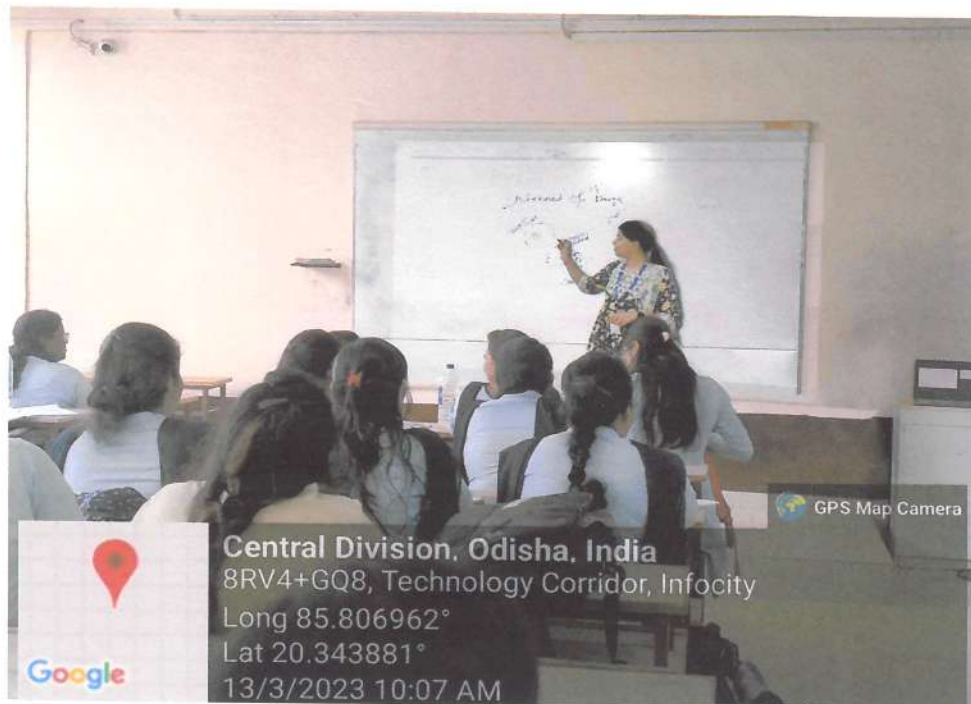
1. Design, implementation and validation of an NGIoT reference Architecture.
2. To design and implementation of distributed smart networking components.
3. To design and implementation of decentralized security and privacy exploiting DLT.

### **Learning Outcomes:**

1. Identify the Components that forms part of IoT Architecture.
2. Determine the most appropriate IoT Devices and Sensors based on Case Studies.
3. Setup the connections between the Devices and Sensors.



4. Evaluate the appropriate protocol for communication between IoT.
5. Analyse the communication protocols for IoT.



A Two Week Add-On Program on **Internet Of Things (IoT)**, 13-03-2023 To 31-03-2023,  
Prof Ankita Samantara.

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.

*Csethi*  
**COORDINATOR**

*Y. W. Panda*  
**HOD**

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

## 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: 13.05.2023

Email: csethi.msb@gmail.com

**Address for Communication**

**Prof. Chhabi Sethi**

Coordinator, Asst Professor

Contact: +91-98612 93070

**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. Chhabi Sethi**  
Asst Professor  
Dept. of Computer Science

**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**



**APPLIED CYBER SECURITY**

**Programme Schedule**

**15-05-2023 to 31-05-2023**



Organized By:

**मिहस 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

An information security analyst safeguards an organization's digital assets and sensitive information from cyber threats and data breaches. They assess IT infrastructure and develop strategies like firewalls, encryption, and authentication to ensure confidentiality and prevent potential threats. In the realm of applied cyber security, this two-week student development program is planned to gear towards enhancing and staying up-to-date with the latest instructional methods. The goal is to equip participants with the knowledge and skills needed to deliver effective education in the field of cyber security, avenues for research and industrial application with certification.



## Objective of the Programme

The main objective of the program has five verticals: enhance practical skills, stay current with emerging threats, foster critical thinking, facilitate industry certification, and encourage research and innovation in the field of cyber security.



### Resource Person

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



Date: 05-05-2023

## 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 Certificate Program on **APPLIED CYBER SECURITY** from **15-05-2023** to **31-05-2023**. Interested students shall register their names at the office of the coordinator on or before 4 PM, 10-05-2023.

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

**Coordinator** : **Prof. Chhabi Sethi**  
Asst. Professor  
Department of Computer Science  
MITS School of Biotechnology

  
**DIRECTOR**  
Director  
MITS School of Biotechnology  
Bhubaneswar

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CE: For information					



Date: 15-05-2023

## REGISTERED STUDENT LIST

Name of the Programme: A Two Week Certificate Program on APPLIED CYBER SECURITY  
15-05-2023 to 31-05-2023

SN	Reg. No	Name of the Student	Year Branch	Signature
1	Y23CS01	SUBHANKAR PAL	2 <sup>nd</sup> Year BCA	Subhankar Pal
2	Y23CS02	MONALISA MALLIK	2 <sup>nd</sup> Year BCA	Monalisa Mallik
3	Y23CS03	SUBRAT KUMAR SWAIN	2 <sup>nd</sup> Year BCA	Subrat Ku. Swain
4	Y23CS04	SUCHITRA DAS	2 <sup>nd</sup> Year BCA	Suchitra Das
5	Y23CS05	SUDHANSU S. MOHAPATRA	2 <sup>nd</sup> Year BCA	Sudhansu S. Mohapatra
6	Y23CS06	SUJIT KUMAR DAS	2 <sup>nd</sup> Year BCA	Sujit Kumar Das
7	Y23CS07	SUNITA PATRA	2 <sup>nd</sup> Year BCA	Sunita Patra
8	Y23CS08	SUPRIYA SUPRABHA SAHOO	2 <sup>nd</sup> Year BCA	Supriya Suprabha Sahoo
9	Y23CS09	SWAGATIKA PATRA	2 <sup>nd</sup> Year BCA	Swagatika Patra
10	Y23CS10	SWATIPRAGYAN NANDA	2 <sup>nd</sup> Year BCA	Swati Pragyan Nanda
11	Y23CS11	TEEGALA RAVITEJA	2 <sup>nd</sup> Year BCA	Teejala Raviteja
12	Y23CS12	TUSHAR BHANJA	2 <sup>nd</sup> Year BCA	Tushar Bhanja
13	Y23CS13	UDAY P. ATHAGHARA	2 <sup>nd</sup> Year BCA	Uday P. Athaghara
14	Y23CS14	VIBHUM MISHRA	2 <sup>nd</sup> Year BCA	Vibhum Mishra
15	Y23CS15	AAKANKSHYA MOHAPATRA	2 <sup>nd</sup> Year BCA	Aakankshya Mohapatra
16	Y23CS16	ABHINASH GUPTA	2 <sup>nd</sup> Year BCA	Abhinash Gupta
17	Y23CS17	ABHISEK BISWAL	2 <sup>nd</sup> Year BCA	Abhisek Biswal
18	Y23CS18	ABHISEK NAIK	2 <sup>nd</sup> Year BCA	Abhisek Naik
19	Y23CS19	ABHISEK PATTNAIK	2 <sup>nd</sup> Year BCA	Abhisek Pattnaik
20	Y23CS20	ADISHRE NANDINI	2 <sup>nd</sup> Year BCA	Adishre Nandini
21	Y23CS21	AISHWARYA PANDA	2 <sup>nd</sup> Year BCA	Aishwarya Panda
22	Y23CS22	AKASH KUMAR ROUSTRAY	2 <sup>nd</sup> Year BCA	Akash Kumar Roustray
23	Y23CS23	ALOKA KUMAR BHAGAT	2 <sup>nd</sup> Year BCA	Alok Kumar Bhagat



24	Y23CS24	ALOKA LENKA	2 <sup>nd</sup> Year BCA	Aloka Lenka
25	Y23CS25	AMIT PRASAD SAHU	2 <sup>nd</sup> Year BCA	Amit Prasad Sahu
26	Y23CS26	AMLANJYOTI MOHARANA	2 <sup>nd</sup> Year BCA	Amlanjyoti Moharana
27	Y23CS27	ANKITA MOHNATY	2 <sup>nd</sup> Year BCA	Ankita Mohanty
28	Y23CS28	ARDU HEMANT	2 <sup>nd</sup> Year BCA	Ardu Hemant
29	Y23CS29	ARPITA NIBEDITA	2 <sup>nd</sup> Year BCA	Arpita Nibedita
30	Y23CS30	ARPITA RATH	2 <sup>nd</sup> Year BCA	Arpita Rath
31	Y23CS31	ASHIFA BEGUM	2 <sup>nd</sup> Year BCA	Ashifa Begum
32	Y23CS32	ASHUTOSH MOHANTY	2 <sup>nd</sup> Year BCA	Ashutosh Mohanty
33	Y23CS33	ASIS BHUYAN	2 <sup>nd</sup> Year BCA	ASIS BHUYAN
34	Y23CS34	ASIT KUMAR PATRA	2 <sup>nd</sup> Year BCA	ASIT KUMAR PATRA
35	Y23CS35	ASUTOSH MALLA	2 <sup>nd</sup> Year BCA	ASUTOSH MALLA
36	Y23CS36	BIKASH NAYAK	2 <sup>nd</sup> Year BCA	Bipasa Dash
37	Y23CS37	BIPASA DASH	2 <sup>nd</sup> Year BCA	bipasa dash
38	Y23CS38	BIRANCHI NARYAN PANDA	2 <sup>nd</sup> Year BCA	Biranchi Narayan Panda
39	Y23CS39	BISWAJIT SWAIN	2 <sup>nd</sup> Year BCA	Biswajit Swain
40	Y23CS40	BISWANATHA MAHAKUDA	2 <sup>nd</sup> Year BCA	Biswanatha Mahakuda
41	Y23CS41	BISWARUPA DAS	2 <sup>nd</sup> Year BCA	Biswarupa Das
42	Y23CS42	BISWOJIT MOHANTY	2 <sup>nd</sup> Year BCA	Biswojit Mohanty
43	Y23CS43	CHINMAY BEHERA	2 <sup>nd</sup> Year BCA	chinmaya behera
44	Y23CS44	CHINMAY SAHU	2 <sup>nd</sup> Year BCA	chinmaya sahu
45	Y23CS45	DAYASAGAR PADHI	2 <sup>nd</sup> Year BCA	Dayasagar Padhi
46	Y23CS46	DEEP KARAR	2 <sup>nd</sup> Year BCA	Deep Karar
47	Y23CS47	DEVI PRASAD DHAL	2 <sup>nd</sup> Year BCA	Devi Prasad Dhal
48	Y23CS48	DIBYAJOTI PATEL	2 <sup>nd</sup> Year BCA	Dibyajoti Patel
49	Y23CS49	DURGESH NANDAN ROUT	2 <sup>nd</sup> Year BCA	Durgesh nandan Rout
50	Y23CS50	GAYATRI SAHOO	2 <sup>nd</sup> Year BCA	Gayatri sahu

*C. Sethi*  
COORDINATOR

*M. Nayak*  
HOD

Pg 2 of 2

*Opas*  
DIRECTOR  
Director  
MITS School of Biotechnology  
Bhubaneswar



Date: 15-05-2023

## REGISTERED STUDENT LIST

Name of the Programme: A Two Week Certificate Program on APPLIED CYBER SECURITY  
15-05-2023 to 31-05-2023

SN	Reg. No	Name of the Student	Year Branch	Signature
51	Y23UC51	CHIRANJIV PALAI	2 <sup>nd</sup> Year BCA	Chiranjiv Palai
52	Y23UC52	GYANA RANJAN BEHERA	2 <sup>nd</sup> Year BCA	Gyana Ranjan Behera
53	Y23UC53	GYANA RANJAN JENA	2 <sup>nd</sup> Year BCA	Gyana Ranjan Jena
54	Y23UC54	GYANA RANJAN PANDA	2 <sup>nd</sup> Year BCA	Gyana Ranjan Panda
55	Y23UC55	HARAPRIYA JENA	2 <sup>nd</sup> Year BCA	Harapriya Jena
56	Y23UC56	JANMEJAYA NANDA	2 <sup>nd</sup> Year BCA	Janmeji Nanda
57	Y23UC57	JASMINI BARICK	2 <sup>nd</sup> Year BCA	Jasmini Barick
58	Y23UC58	JYOTIPRAKASH MOHAPATRA	2 <sup>nd</sup> Year BCA	Jyotiprakash Mohapatra
59	Y23UC59	JYOTISANKAR ROUT	2 <sup>nd</sup> Year BCA	Jyotishankar Rout
60	Y23UC60	KAJAL PRADHAN	2 <sup>nd</sup> Year BCA	Kajal Pradhan
61	Y23UC61	KASHISH SHUKLA	2 <sup>nd</sup> Year BCA	Kashish Shukla
62	Y23UC62	KIRANA OJHA	2 <sup>nd</sup> Year BCA	Kirana Ojha
63	Y23UC63	LAXMIDHARA BISWAL	2 <sup>nd</sup> Year BCA	Laxmidhara Biswal
64	Y23UC64	MAMATA RANI JENA	2 <sup>nd</sup> Year BCA	Mamata Rani Jena
65	Y23UC65	MANAB MALLICK	2 <sup>nd</sup> Year BCA	Manab Mallik
66	Y23UC66	MANAS RANJAN GOUDA	2 <sup>nd</sup> Year BCA	Manas Ranjan Gouda
67	Y23UC67	MONALISA MALIK	2 <sup>nd</sup> Year BCA	Monalisa Malik
68	Y23UC68	NALLA CHANDU SAHU	2 <sup>nd</sup> Year BCA	Nalla Chandu Sahu
69	Y23UC69	NANDINI PADHY	2 <sup>nd</sup> Year BCA	Nandini Padhi
70	Y23UC70	NEWTON PRADHAN	2 <sup>nd</sup> Year BCA	Newton Pradhan
71	Y23UC71	NIBEDITA SAHOO	2 <sup>nd</sup> Year BCA	Nibedita Sahoo
72	Y23UC72	NIBEDITA SAHOO	2 <sup>nd</sup> Year BCA	Nibedita Sahoo
73	Y23UC73	NOCHIKANTA MOHAKUD	2 <sup>nd</sup> Year BCA	Nochikanta Mohankud
74	Y23UC74	OMPRAKASH TRIPATHY	2 <sup>nd</sup> Year BCA	Ompakash Tripathy



75	Y23UC75	PAYAL CHOURASIA	2 <sup>nd</sup> Year BCA	Payal chourasia
76	Y23UC76	PRATYASHA PARIJA	2 <sup>nd</sup> Year BCA	Pratyasha Parija
77	Y23UC77	PRITAM KUMAR BARIK	2 <sup>nd</sup> Year BCA	Pritam Kumar Barik
78	Y23UC78	PRIYADARSINI SAHU	2 <sup>nd</sup> Year BCA	Priyadarsini Sahu
79	Y23UC79	PRIYANKA BARIK	2 <sup>nd</sup> Year BCA	Priyanka Barik
80	Y23UC80	PRIYANKA SAHANI	2 <sup>nd</sup> Year BCA	Priyanka Sahani
81	Y23UC81	PUJA DAKUA	2 <sup>nd</sup> Year BCA	Puja Davua
82	Y23UC82	PURNIMA SUNDARAY	2 <sup>nd</sup> Year BCA	Purnima Sundaray
83	Y23UC83	PUSPITA PUSPANJALI ROUT	2 <sup>nd</sup> Year BCA	Puspita Puspanjali Rout
84	Y23UC84	RABINARYAN PRADHAN	2 <sup>nd</sup> Year BCA	Rabinarayan Pradhan
85	Y23UC85	RAJAT KUMAR SAHOO	2 <sup>nd</sup> Year BCA	Rajat K. Sahoo
86	Y23UC86	RAJESH BHUYAN	2 <sup>nd</sup> Year BCA	Rajesh Bhuyan
87	Y23UC87	RAKESH MISHRA	2 <sup>nd</sup> Year BCA	Rakesh Mishra
88	Y23UC88	RAMU NAYAK	2 <sup>nd</sup> Year BCA	Ramu Nayak
89	Y23UC89	RANI BHUKTA	2 <sup>nd</sup> Year BCA	Rani Bhukta
90	Y23UC90	RISHAV KUMAR	2 <sup>nd</sup> Year BCA	Rishav Kumar
91	Y23UC91	ROMA SINGH	2 <sup>nd</sup> Year BCA	Roma Singh
92	Y23UC92	ROSALIN HOTTA	2 <sup>nd</sup> Year BCA	Rosalin Hotta
93	Y23UC93	ROSE KERKETTA	2 <sup>nd</sup> Year BCA	Rose Kerketta
94	Y23UC94	RUDRAPRASAD LENKA	2 <sup>nd</sup> Year BCA	Rudraprasad Lenka
95	Y23UC95	RUDRAPRASAD SARANGI	2 <sup>nd</sup> Year BCA	Rudraprasad Sarangi
96	Y23UC96	RUTURAJ ROUT	2 <sup>nd</sup> Year BCA	Ruturaj Rout
97	Y23UC97	SAMARJEET SAHOO	2 <sup>nd</sup> Year BCA	Samarjeet Sahoo
98	Y23UC98	SAMIR CHHUALSINGH	2 <sup>nd</sup> Year BCA	Samir Chhualsingh
99	Y23UC99	SANDEEP BEHERA	2 <sup>nd</sup> Year BCA	S. Behera.
100	Y23UC100	SANDEEP MOHAPATRA	2 <sup>nd</sup> Year BCA	Sandeep Mohapatra
101	Y23UC101	SANTOSH KUMAR PATTANAIK	2 <sup>nd</sup> Year BCA	Santosh K. Pattanaik
102	Y23UC102	SANTOSH KUMAR SAHOO	2 <sup>nd</sup> Year BCA	Santosh Kumar Sahoo
103	Y23UC103	SATISH KUMAR DAS	2 <sup>nd</sup> Year BCA	Satish K. Das



104	Y23UC104	SHUBHRANSHU SWAIN	2 <sup>nd</sup> Year BCA	Shubhranshu Swain
105	Y23UC105	SHWETASUDHA PRUSTY	2 <sup>nd</sup> Year BCA	Shwetasedha Prusty
106	Y23UC106	SIBAPRASAD SAHOO	2 <sup>nd</sup> Year BCA	Sibaprasad Sahoo
107	Y23UC107	SIDDHARTH SINGH	2 <sup>nd</sup> Year BCA	Siddharth Singh
108	Y23UC108	SIDHANTA POLAI	2 <sup>nd</sup> Year BCA	Sidhanta Polai
109	Y23UC109	SK. WASIM	2 <sup>nd</sup> Year BCA	Sk. Wasim
110	Y23UC110	SMRITI GHOSH	2 <sup>nd</sup> Year BCA	Smriti Ghosh
111	Y23UC111	SMRUTISWARUPA PANDA	2 <sup>nd</sup> Year BCA	Smrutiswarupa Panda
112	Y23UC112	SOMESH MOHARANA	2 <sup>nd</sup> Year BCA	Somesh Moharana
113	Y23UC113	SOMI NAIK	2 <sup>nd</sup> Year BCA	Somi Naik
114	Y23UC114	SOUBHAGYA BARAL	2 <sup>nd</sup> Year BCA	Soubhagya Baral
115	Y23UC115	SOUMITRI DAS	2 <sup>nd</sup> Year BCA	Soumitri Das
116	Y23UC116	SOUMYA RANJAN DAS	2 <sup>nd</sup> Year BCA	Soumya R. Das
117	Y23UC117	SOUMYA RANJAN SWAIN	2 <sup>nd</sup> Year BCA	Soumya Ranjan Swain
118	Y23UC118	SOUMYAPADA ACHARYA	2 <sup>nd</sup> Year BCA	Soumyapada Acharya
119	Y23UC119	SOURAV SATPATHY	2 <sup>nd</sup> Year BCA	Sourav Satpathy
120	Y23UC120	SRINIBAS DEBATA	2 <sup>nd</sup> Year BCA	Srinibas Debata
121	Y23UC121	STHITA PRANGYA NAYAK	2 <sup>nd</sup> Year BCA	Sthita Prangya Nayak
122	Y23UC122	SUBHAKANTA SAHOO	2 <sup>nd</sup> Year BCA	Subhakanta Sahoo
123	Y23UC123	SUBHALAXMI SAHANI	2 <sup>nd</sup> Year BCA	Subhalaxmi Sahani
124	Y23UC124	SUBHAM BARAL	2 <sup>nd</sup> Year BCA	Subham Baral
125	Y23UC125	SUBHAM BARAL	2 <sup>nd</sup> Year BCA	Subham Baral
126	Y23UC126	SUBHAM DAS	2 <sup>nd</sup> Year BCA	Subham Das

  
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MITS School of Biotechnology  
Bhubaneswar

### COURSE SCHEDULE

Name of the Program: A Two Week Certificate Program on **APPLIED CYBER SECURITY**  
15-05-2023 To 31-05-2023

SN	Date	Topic	Resource Person
1	15-05-2023	Cyber security in Context	Dr. Tapaswini Nayak
2	16-05-2023	Cryptography for Cyber and Network Security	Dr. Tapaswini Nayak
3	17-05-2023	Software Security	Dr. Tapaswini Nayak
4	18-05-2023	Programming Fundamentals for Cyber security	Dr. Tapaswini Nayak
5	19-05-2023	Applied Machine Learning for Cyber security	Dr. Tapaswini Nayak
6	20-05-2023	Network Security	Dr. Tapaswini Nayak
7	22-05-2023	Operating System Security	Dr. Tapaswini Nayak
8	23-05-2023	Usable Privacy and Security	Dr. Tapaswini Nayak
9	24-05-2023	Managing Cyber Risk	Dr. Tapaswini Nayak
10	25-05-2023	Privacy Engineering	Dr. Tapaswini Nayak
11	26-05-2023	Public Interest Cyber security: The Citizen Clinic Practicum	Dr. Tapaswini Nayak
12	27-05-2023	Capstone	Dr. Tapaswini Nayak
13	30-05-2023	Hands On Training Session	Dr. Tapaswini Nayak
14	31-05-2023	Hands On Training Session	Dr. Tapaswini Nayak

  
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MITS School of Biotechnology  
Bhubaneswar



## PROGRAM REPORT

01-06-2023

**Name of the Event:** A Two Week Certificate Program on **APPLIED CYBER SECURITY**

**Date:** 15-05-2023 To 31-05-2023

**Resource Person:** Dr. Tapaswini Nayak  
Assoc. Professor,  
Dept. of Computer Science, MSB, Bhubaneswar.  
Contact Number: 9861599215

**Coordinator:** Prof. Chhabi Sethi  
Asst. Professor,  
Dept. of Computer Science, MSB, Bhubaneswar  
MSB, Bhubaneswar

**Number of students attended:** 126

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

MITS school of Biotechnology, Bhubaneswar, organized a two week certificate program on “**Applied Cyber Security**” for BCA students by the resource person Dr. Tapaswini Nayak. Applied Cyber Security defines the security controls sufficient to provide a required level of confidentiality, integrity, and availability in an organization's computer systems and networks. Diagnose and investigate cyber security events or crimes related to computer systems and digital evidence. Totally **126** 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. Protect and defend computer systems and networks from cyber security attacks.
2. Diagnose and investigate cyber security events or crimes related to computer systems and digital evidence
3. Effectively communicate in a professional setting to address information security issues.

### **Learning Outcomes:**

1. Protect and defend computer systems and networks from cyber security attacks. Characterize privacy, legal and ethical issues of information security. Identify vulnerabilities critical to the information assets of an organization. Define the security controls sufficient to provide a required level of confidentiality, integrity, and availability in an organization's computer systems and networks.

Pg 1 of 2

2. Diagnose and investigate cyber security events or crimes related to computer systems and digital evidence. Diagnose attacks on an organization's computer systems and networks. Propose solutions including development, modification and execution of incident response plans.
3. Effectively communicate in a professional setting to address information security issues. Communication orally and in writing, proposed information security solutions to technical and non-technical decision-makers.
4. Apply critical thinking and problem-solving skills to detect current and future attacks on an organization's computer systems and networks.
5. Apply business principles to analyze and interpret data for planning, decision-making, and problem solving in an information security environment.



A Two Week Certificate Program on APPLIED CYBER SECURITY, 15-05-2023 To 31-05-2023,  
Dr. Tapaswini Naik

This course was very useful to the students of BCA 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.

*C. Sethi*  
COORDINATOR

*M. Naik*  
HOD

*G. K. Panda*  
DIRECTOR

pg 2 of 2

Director  
MITS School of Biotechnology  
Bhubaneswar



Date: 05-05-2023

### 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 Week Add-On Program on **HUMAN-CENTRIC RDNA TECHNOLOGY** from **15-05-2023** to **31-05-2023**. Interested students shall register their names at the office of the coordinator on or before 4 PM, 10-05-2023.



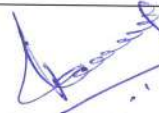
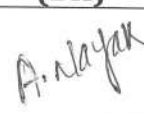
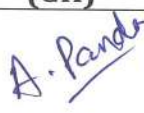
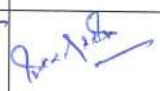
**Venue of the Programme** : Conference Hall, MITS School of Biotechnology.

**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: 13.05.2023

Email: [csethi.msb@gmail.com](mailto:csethi.msb@gmail.com)

**Address for Communication**

**Prof. Chhabi Sethi**

Coordinator, Asst Professor

Contact: +91-98612 93070

**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. Mousumi mishra**

Asst. Professor  
Dept. of Biotechnology

**Advisory Committee**

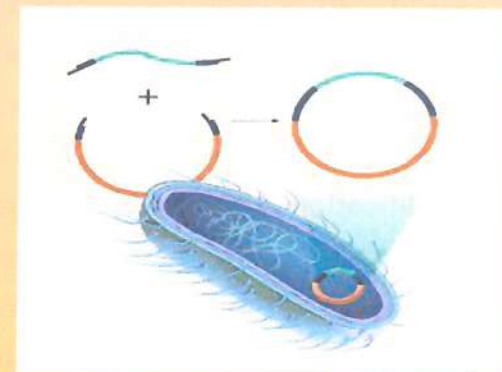
**Dr. Satyananda Patel**

Dept. of Biotechnology

**Prof. S. Satrusallya**

Dept. of Chemistry

**A TWO-WEEK ADD-ON  
PROGRAM  
ON**



**HUMAN-CENTRIC rDNA  
TECHNOLOGY**

**Proram Schedule**

**15-05-2023 To 31-05-2023**



**Organized By:**

**मिहस 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

The "Human-Centric rDNA Technology" program is designed to provide participants with a comprehensive understanding of recombinant DNA (rDNA) technology as it relates to human-centric applications. This program is suitable for individuals interested in the fields of biotechnology, genetic engineering, and medical research. It covers the theoretical and practical aspects of using rDNA technology to address human-centered challenges and opportunities. Graduates of this program will be well-prepared to contribute to research and applications in the fields of gene therapy, genome editing, and human-centric biotechnology.



## Objective of the Programme

The main objective of the program has six verticals: Gain a solid understanding of recombinant DNA technology, Explore the ethical, legal, and safety considerations associated with human-centric rDNA applications, Learn how to manipulate DNA, Understand gene therapy to treat genetic diseases, Acquire hands-on experience, Collaborate on a project that demonstrates the use of rDNA technology in a human-centric context.



### Resource Person

**Prof. Sidharth Parida**

Asst. Prof Department of Biotechnology  
MSB, Bhubaneswar



Date: 15-05-2023

### REGISTERED STUDENT LIST

Name of the Programme: A Two Week Add-On Program on **HUMAN-CENTRIC RDNA TECHNOLOGY**  
15-05-2023 to 31-05-2023

SN	Reg. No	Name of the Student	Year Branch	Signature
1	Y23UB01	AISWARYA SWAIN	3rdYear BSc-BT	Aiswarya Swain
2	Y23UB02	ALOK KUMAR BEHERA	3rdYear BSc-BT	Alok Kumar Behera
3	Y23UB03	AMISHA SAHU	3rdYear BSc-BT	Amisha Sahu
4	Y23UB04	ANINDYA MONDAL	3rdYear BSc-BT	Anindya Mondal
5	Y23UB05	ANJANEYA SAMANTARAY	3rdYear BSc-BT	Anjaneya Samantaray
6	Y23UB06	BABITA MOHANTA	3rdYear BSc-BT	Babita Mohanta
7	Y23UB07	BHAGYODEV MALLIK	3rdYear BSc-BT	Bhagyadev malik
8	Y23UB08	BIJAYALAXMI ROUT	3rdYear BSc-BT	Bijayalaxmi Rout
9	Y23UB09	BISWAJIT MANTRI	3rdYear BSc-BT	Biswajit mantri
10	Y23UB10	DEBASMITA SWAIN	3rdYear BSc-BT	Debasmita Swain
11	Y23UB11	DIBYANSU KANUNGO	3rdYear BSc-BT	Dibyansu Kanungo
12	Y23UB12	GAYATRI SWAIN	3rdYear BSc-BT	Gayatri Swain
13	Y23UB13	LIPSA RANI PRADHAN	3rdYear BSc-BT	Lipsa Rani Pradhan
14	Y23UB14	MANAS NIRMALYA SAHOO	3rdYear BSc-BT	Manas Nirmalya Sahu
15	Y23UB15	MANASWINI DAS	3rdYear BSc-BT	Manaswini Das
16	Y23UB16	MARMA SPARSHI DAS	3rdYear BSc-BT	Marma Sparshide Das
17	Y23UB17	MD. AAMIR KHAN	3rdYear BSc-BT	MD. AAMIR KHAN
18	Y23UB18	MEGHNA PATTANAİK	3rdYear BSc-BT	MEGHNA PATTANAİK
19	Y23UB19	MITALI MADHUSMITA SWAIN	3rdYear BSc-BT	Mitali madhusmita Swain
20	Y23UB20	MONALSA BEHERA	3rdYear BSc-BT	Monalisa Behera
21	Y23UB21	MUSKAN PARWEEN	3rdYear BSc-BT	Muskan Parween
22	Y23UB22	NAMRADIPA JENA	3rdYear BSc-BT	Namradipa Jena
23	Y23UB23	PRIYADARSHINEE SWAIN	3rdYear BSc-BT	Priyadarshinee Swain



24	Y23UB24	PRIYANKA MOHAPATRA	3rdYear BSc-BT	Priyanka Mohapatra
25	Y23UB25	SAIJYOTI SAHOO	3rdYear BSc-BT	Saijyoti Sahoo
26	Y23UB26	SANGITA SAHOO	3rdYear BSc-BT	Sangita Sahoo.
27	Y23UB27	SHRABANI DASH	3rdYear BSc-BT	Shrabani Dash
28	Y23UB28	SHRUTI SWEETY GURIA	3rdYear BSc-BT	Shruti Sweety Guria
29	Y23UB29	SHRUTILIPI DAS	3rdYear BSc-BT	Shrutilipi das
30	Y23UB30	SHWETA DAS	3rdYear BSc-BT	Shweta Das
31	Y23UB31	SIDHI SIDHESWAR SAHOO	3rdYear BSc-BT	Sidhi Sidheswar Sahoo
32	Y23UB32	SMRUTISHREE ROUSTRAY	3rdYear BSc-BT	SMRUTISHREE ROUSTRAY
33	Y23UB33	SONALI PARIDA	3rdYear BSc-BT	Sonali Parida.
34	Y23UB34	SONIA SOREN	3rdYear BSc-BT	Sonia Soren
35	Y23UB35	SOUMYA RANJAN SWAIN	3rdYear BSc-BT	Soumya Ranjan Swain
36	Y23UB36	SUBHADRA MOHANTY	3rdYear BSc-BT	Subhadra Mohanty
37	Y23UB37	SUBHASHREE MOHAPATRA	3rdYear BSc-BT	Subhashree Mohapatra
38	Y23UB38	SUBHASHREE PADHY	3rdYear BSc-BT	Subhashree Padhy
39	Y23UB39	SUBHASHMITA DASH	3rdYear BSc-BT	Subhashmita Dash
40	Y23UB40	SUCHISMITA MALLICK	3rdYear BSc-BT	Suchismita Mallick
41	Y23UB41	SUMIT MONDAL	3rdYear BSc-BT	SUMITA MONDAL
42	Y23UB42	SUNITA RANI MOHAPATRA	3rdYear BSc-BT	Sunita Rani Mohapatra
43	Y23UB43	SUSHREE NOOPUR SAHOO	3rdYear BSc-BT	Sushree Noopur Sahoo
44	Y23UB44	SUSIL BARAL	3rdYear BSc-BT	Susil. Baral
45	Y23UB45	SUSMITA GHOSH	3rdYear BSc-BT	Susmita Ghosh
46	Y23UB46	SUVENDU NAYAK	3rdYear BSc-BT	Suvendu Nayak
47	Y23UB47	TANAVI SINGH	3rdYear BSc-BT	Tarvi Singh
48	Y23UB48	TANMESHA PANDA	3rdYear BSc-BT	Tanmesha Panda
49	Y23UB49	TAPASWINI PRADHAN	3rdYear BSc-BT	Tapaswini Pradhan
50	Y23UB50	YOJANAJYOTI PRADHAN	3rdYear BSc-BT	Yojanajyoti Pradhan

Smaranika Sahu  
COORDINATOR

HOD

Pg 2 of 2

DIRECTOR

MITS School of Biotechnology  
Bhubaneswar



Date: 15-05-2023

## REGISTERED STUDENT LIST

Name of the Programme: A Two Week Add-On Program on HUMAN-CENTRIC RDNA  
TECHNOLOGY  
15-05-2023 to 31-05-2023

SN	Reg. No	Name of the Student	Year Branch	Signature
51	Y23UB51	ADITYA NARAYAN SAHOO	3rdYear BSc-BT	Aditya Narayan Sahoo
52	Y23UB52	AISWARYA SAHOO	3rdYear BSc-BT	Aiswarya Sahoo
53	Y23UB53	ANKITA GIRI	3rdYear BSc-BT	Ankita Giri
54	Y23UB54	ANKITA PRUSTY	3rdYear BSc-BT	Ankita Prusty
55	Y23UB55	ARCHANA KUMARI	3rdYear BSc-BT	Archana Kumari
56	Y23UB56	ASUTOSH MOHARANA	3rdYear BSc-BT	Asutosh Moharana
57	Y23UB57	JAGAT YADAV	3rdYear BSc-BT	Jagat Yadav
58	Y23UB58	JAYASMIN PATRA	3rdYear BSc-BT	Jayasmin Patra
59	Y23UB59	KESHAB TRIPATHY	3rdYear BSc-BT	Keshab Tripathy
60	Y23UB60	KRISHNA SAHOO	3rdYear BSc-BT	Krishna Sahoo
61	Y23UB61	LALITA SWAIN	3rdYear BSc-BT	Lalita Swain
62	Y23UB62	NANDINI CHAUHAN	3rdYear BSc-BT	Nandini Chauhan
63	Y23UB63	NEHA NAYAK	3rdYear BSc-BT	Neha Nayak
64	Y23UB64	NIBEDITA NANDY	3rdYear BSc-BT	Nibedita Nandy
65	Y23UB65	NITISH KUMAR SAHOO	3rdYear BSc-BT	Nitish Kumar Sahoo
66	Y23UB66	PARIDHI AGRAWAL	3rdYear BSc-BT	Paridhi Agrawal
67	Y23UB67	POOJA PRIYADARSINI BEHERA	3rdYear BSc-BT	Pooja Priyadarsini Behera
68	Y23UB68	PRACHURYA MISHRA	3rdYear BSc-BT	Prachurya Mishra
69	Y23UB69	PRADYUMNA DAS	3rdYear BSc-BT	Pradyumna Das
70	Y23UB70	PRAGNYA PRIYADARSANI KHETI	3rdYear BSc-BT	Pragnya Priyadarsani Kheti
71	Y23UB71	PRATISHRUTI PRADHAN	3rdYear BSc-BT	Pratishruti Pradhan
72	Y23UB72	PRITY SAMAL	3rdYear BSc-BT	Prity Samal
73	Y23UB73	PURBI RAY	3rdYear BSc-BT	Purbi Ray
74	Y23UB74	RAJLAXMI DILIP ROUT	3rdYear BSc-BT	Rajlaxmi Dilip Rout
75	Y23UB75	RANI GOCHHAYAT	3rdYear BSc-BT	Rani Gochhayat
76	Y23UB76	RITUPARNA KHADIA	3rdYear BSc-BT	Rituparna Khadia



77	Y23UB77	SANDIP SUBHANKAR NAYAK	3rdYear BSc-BT	Sandip Subhankar Nayak
78	Y23UB78	SRIMAN BRAJESWAR KHUNTIA	3rdYear BSc-BT	Sriman Brajeshwar Khuntia
79	Y23UB79	SUBHASHREE PRIYADARSHINE MANDHATA	3rdYear BSc-BT	Subhashree Priyadarshine Mandhata

S. Sahu  
COORDINATOR

  
HOD

  
DIRECTOR  
Director  
MITS School of Biotechnology  
Bhubaneswar

## COURSE SCHEDULE

**Name of the Program: A Two Week Certificate Program on HUMAN-CENTRIC RDNA TECHNOLOGY  
15-05-2023 To 31-05-2023**

SN	Date	Topic	Resource Person
1	15-05-2023	Introduction to Recombinant DNA Technology	Prof. Sidharath Parida
2	16-05-2023	Tools Of Recombinant DNA Technology	Prof. Sidharath Parida
3	17-05-2023	Explanation of Recombinant DNA Technology	Prof. Sidharath Parida
4	18-05-2023	Process Recombinant DNA Technology	Prof. Sidharath Parida
5	19-05-2023	Isolation and characterization of genes	Prof. Sidharath Parida
6	20-05-2023	Desired modification in isolated genes, Artificial synthesis of new genes.	Prof. Sidharath Parida
7	22-05-2023	Modification of organisms' genome	Prof. Sidharath Parida
8	23-05-2023	Interpretation of hereditary diseases and related cures.	Prof. Sidharath Parida
9	24-05-2023	Enhancement of the human genome	Prof. Sidharath Parida
10	25-05-2023	DNA Cloning	Prof. Sidharath Parida
11	26-05-2023	Applications Of Gene Cloning	Prof. Sidharath Parida
12	27-05-2023	Application of Recombinant DNA Technology	Prof. Sidharath Parida
13	29-05-2023	Hands on Session	Prof. Sidharath Parida
14	30-05-2023	Hands on Session	Prof. Sidharath Parida
15	31-05-2023	Hands on Session	Prof. Sidharath Parida

Smaranika Sahu  
COORDINATOR

*Pran*  
HOD

*Opur*  
DIRECTOR  
MITS School of Biotechnology  
Bhubaneswar



### PROGRAM REPORT

01-06-2023

**Name of the Event:** A Two Week Add-On Program on **HUMAN-CENTRIC RDNA TECHNOLOGY**

**Date:** 15-05-2023 To 31-05-2023

**Resource Person:** Prof. Sidharth Parida  
Assoc. Professor,  
Dept. of Biotechnology, MSB, Bhubaneswar.  
Contact Number: 94370 89337

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

**Number of students attended:** 79

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

MITS school of Biotechnology, Bhubaneswar, organized a two week add-on program on **HUMAN-CENTRIC RDNA TECHNOLOGY** for BSc-Biotechnology students by the resource person Prof. Sidharth Parida. Process of inserting Science and genetics provided basic inputs and now we have gathered information about the structure of master molecule, DNA, its replication and control of gene expression. Totally 50 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:**

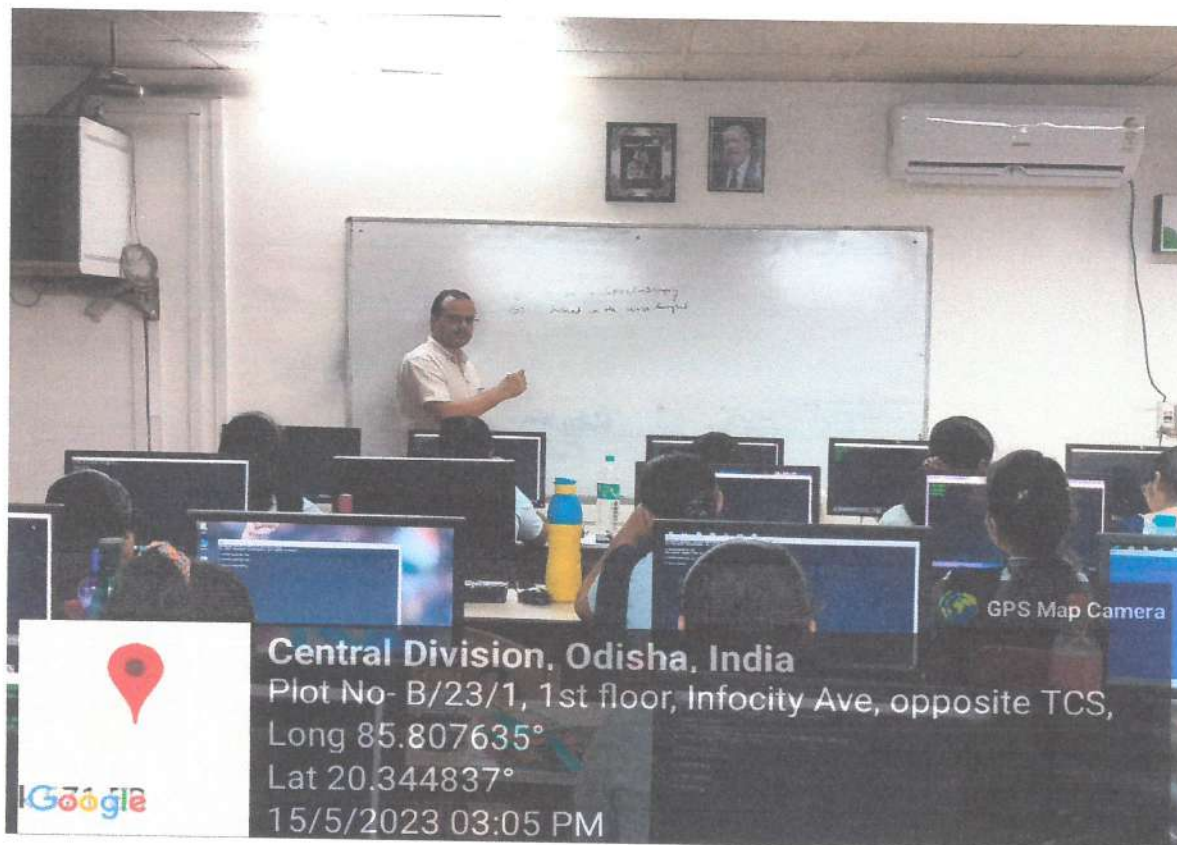
1. Use of biotechnology in merging biological information with computer technology (Bioinformatics).
2. Exploring the use of microscopic equipment that can enter the human body (nanotechnology).
3. Possibly applying techniques of stem cell research and cloning to replace dead or defective cells and tissues (regenerative medicine).

**Learning Outcomes:**

1. Companies and academic laboratories integrate these disparate technologies in an effort to analyze downward into molecules.

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2. To synthesize upward from molecular biology toward chemical pathways, tissues, and organs.
3. Scientists add to the store of verified systematized knowledge of the physical world, and engineers bring this knowledge to bear on practical problems.



A Two Week Add-On Program on HUMAN-CENTRIC RDNA TECHNOLOGY, 15-05-2023 To 31-05-2023, 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.

*Smaranika Saha*  
COORDINATOR

*Dr. P. M.*  
HOD

*G. K. Panda*  
DIRECTOR

Director  
MITS School of Biotechnology  
Bhubaneswar



Date: 21-04-2023

## 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 **MICROBIAL APPLICATIONS IN FOOD INDUSTRY** from **01-05-2023** to **17-05-2023**. Interested students shall register their names at the office of the coordinator on or before 4 PM, 26-04-2023.

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





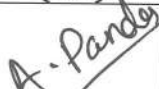
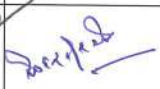
**Coordinator** : **Dr. Smaranika Sahu**  
Asst. Professor  
Department of Biotechnology  
MITS School of Biotechnology



**DIRECTOR**

Director  
MITS School of Biotechnology  
Bhubaneswar

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## 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: 26-04-2023

Email: smaranikasahu1@gmail.com

Address for Communication

**Dr. Smaranika Sahu**

Coordinator, Asst Professor

Contact: +91-8763177859

**Chief Patron**

**Er. Sriram Panda**

Chief Executive

MITG Group

**Patron**

**Dr. G.K. Panda**

Director

MITG 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



## MICROBIAL APPLICATIONS IN FOOD INDUSTRY

Proram Schedule

01-05-2023 to 17-05-2023



Organized By:

**मिट्स जैव प्रौद्योगिकी संस्थान**  
**MITG 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

This program aims to provide participants with a deep understanding of the various ways in which microbes are utilized to improve food safety, preservation, and production. Participants will engage in both theoretical learning and hands-on practical sessions, allowing them to explore the fascinating world of food microbiology and its applications. Microbial Applications in Food Industry Identify and address pathogenic microorganisms that pose risks to food safety, and understand the principles of food borne illness prevention.



## Objective of the Programme

This program focuses on unraveling the intricate role of microorganisms in the realm of food. Participants will gain a thorough comprehension of various microorganisms, including bacteria, yeasts, and molds, and how they intricately contribute to processes like food production, preservation, and safety.



Resource Person

**Prof. Sabyasachi Parida**

Asst. Prof.

Department of Biotechnology MSB,  
Bhubaneswar



## REGISTERED STUDENT LIST

Name of the Programme: Two Week Add-On program on MICROBIAL APPLICATIONS IN FOOD INDUSTRY

01-05-2023 to 17-05-2023

SN	Reg. No	Name of the Student	Year Branch	Signature
1	Y23UB01	ABHINASH PAIKRAY	2nd Year BSc-BT	ABHINASH PAIKRAY
2	Y23UB02	ABHIPSA BADAJENA	2nd Year BSc-BT	Abhipsa badajena
3	Y23UB03	ABHISHEK TRIPATHY	2nd Year BSc-BT	Abhishek Tripathy
4	Y23UB04	ADARSH PANDA	2nd Year BSc-BT	Adarsh Panda
5	Y23UB05	AKANKHYA BEHERA	2nd Year BSc-BT	Akankhya Behera
6	Y23UB06	AKANKSHA KUMARI	2nd Year BSc-BT	Akanksha Kumari
7	Y23UB07	AKANKSHA SINGH	2nd Year BSc-BT	Akanksha Singh
8	Y23UB08	AKANKSHYA PATTANAİK	2nd Year BSc-BT	Akankshya Pattanaik
9	Y23UB09	AKANKSHYA PATTANAİK	2nd Year BSc-BT	Akankshya Pattanaik
10	Y23UB10	ANANDA HEMBRAM	2nd Year BSc-BT	Ananda Hembram
11	Y23UB11	ANANYA DAS	2nd Year BSc-BT	Ananya Das.
12	Y23UB12	ANANYA KUMARI	2nd Year BSc-BT	Ananya Kumari
13	Y23UB13	ANKITA BISWAL	2nd Year BSc-BT	Ankita Biswal
14	Y23UB14	ANKITA MOHAPATRA	2nd Year BSc-BT	Ankita Mohapatra
15	Y23UB15	ANKITA SAMANTA	2nd Year BSc-BT	Ankita Samanta
16	Y23UB16	ANUJ MOHAPATRA	2nd Year BSc-BT	Anuj Mohapatra
17	Y23UB17	ARPITA PANIGRAHI	2nd Year BSc-BT	Arpita Panigrahi
18	Y23UB18	ARPITA SAHOO	2nd Year BSc-BT	Arpita Sahoo
19	Y23UB19	ASHISH PRADHAN	2nd Year BSc-BT	Ashish Pradhan
20	Y23UB20	ASMI ROY	2nd Year BSc-BT	Asmi Roy
21	Y23UB21	ATMAJA MUKHERJEE	2nd Year BSc-BT	Atinaba sahu
22	Y23UB22	AVINABA SAHU	2nd Year BSc-BT	Avinaba Sahu.
23	Y23UB23	AYANTIKA BANERJEE	2nd Year BSc-BT	Ayantika Banerjee
24	Y23UB24	BANTI NAYAK	2nd Year BSc-BT	Banti Nayak



25	Y23UB25	BANYA PRADHAN	2nd Year BSc-BT	Banya Pradhan
26	Y23UB26	BARSHA SAHOO	2nd Year BSc-BT	Barsha Sahoo
27	Y23UB27	BARSHARANI SETHI	2nd Year BSc-BT	Barsharani Sethi
28	Y23UB28	BICHITRA NAYAK	2nd Year BSc-BT	Bichitra Nayak
29	Y23UB29	BIJAY SETHI	2nd Year BSc-BT	Bijay sethi
30	Y23UB30	BIJAYALAXMI DIGAL	2nd Year BSc-BT	Bijayalaxmi Digal
31	Y23UB31	BIJAYLAXMI NAYAK	2nd Year BSc-BT	Bijaylaxmi Nayak
32	Y23UB32	BISHNUPRIYA SAHOO	2nd Year BSc-BT	Bishnupriya Sahoo
33	Y23UB33	CHINMAYA PATTANAYAK	2nd Year BSc-BT	Chinmaya Pattanayak
34	Y23UB34	CHINMAYEE PRADHAN	2nd Year BSc-BT	Chinmayee Pradhan
35	Y23UB35	DEBASHIS BRAHMA	2nd Year BSc-BT	Debashis Brahma
36	Y23UB36	DEBASMITA DAS	2nd Year BSc-BT	Debasmita Das
37	Y23UB37	DEBJYOTI DASGUPTA	2nd Year BSc-BT	Debjyoti Dasgupta
38	Y23UB38	DEEPIKA RATH	2nd Year BSc-BT	Deepika Rath
39	Y23UB39	DEEPTIMAYEE BISWAL	2nd Year BSc-BT	Deeptimayee Biswal
40	Y23UB40	DIPTI SAMAL	2nd Year BSc-BT	Dipti Samal
41	Y23UB41	DIVYA BEHERA	2nd Year BSc-BT	Divya Behera
42	Y23UB42	ELINA RATH	2nd Year BSc-BT	Elina Rath
43	Y23UB43	GAYATRI BEHERA	2nd Year BSc-BT	Gayatri Behera
44	Y23UB44	HIMANSHU MOHAPTARA	2nd Year BSc-BT	Himanshu Mohapatra
45	Y23UB45	ITISHREE JANI	2nd Year BSc-BT	Itishree jani
46	Y23UB46	JASOBANTI DAS	2nd Year BSc-BT	Jasobanti Das
47	Y23UB47	JEEVAN SATAPATHY	2nd Year BSc-BT	Jeevan Satapathy
48	Y23UB48	JYOTI MUDULI	2nd Year BSc-BT	Jyoti Muduli
49	Y23UB49	KANIZ FATEMA	2nd Year BSc-BT	Kaniz Fatema
50	Y23UB50	KIRTIMAYA PRADHAN	2nd Year BSc-BT	Kirtimaya Pradhan
51	Y23UB51	KOVVURI REDDY	2nd Year BSc-BT	Kovvuri Reddy



23-3

52	Y23UB52	LAGANJEET DASH	2nd Year BSc-BT	Laganjeet Dash
53	Y23UB53	MOUMITA BARMAN	2nd Year BSc-BT	Moumita Barman
54	Y23UB54	MRUTUNJAYEE PRADHAN	2nd Year BSc-BT	Mrutunjayee Pradhan
55	Y23UB55	MUPPANA MANSHA	2nd Year BSc-BT	Muppanda mansha
56	Y23UB56	NEERAJ KUMAR	2nd Year BSc-BT	Neeraj kumar
57	Y23UB57	NEHA GUPTA	2nd Year BSc-BT	Neha Gupta
58	Y23UB58	NIGAM ASHISH JENA	2nd Year BSc-BT	Nigam Ashish Jena
59	Y23UB59	NIKITA MOHAPATRA	2nd Year BSc-BT	Nikita Mohapatra
60	Y23UB60	NIKOLI MOHAPATRA	2nd Year BSc-BT	Nikoli Mahapatra
61	Y23UB61	NIRLIPTA SATAPATHY	2nd Year BSc-BT	Nirlipta Satpathy
62	Y23UB62	NISHANTA BARMAN	2nd Year BSc-BT	Padmini Sahoo
63	Y23UB63	PADMINI SAHOO	2nd Year BSc-BT	Padmini Sahoo
64	Y23UB64	POOJA DASH	2nd Year BSc-BT	Pooja Dash
65	Y23UB65	PRACHI BARAL	2nd Year BSc-BT	Prachi Baral
66	Y23UB66	PRATHAM BEHERA	2nd Year BSc-BT	Pratham Behera
67	Y23UB67	PRATYASHA KHATOI	2nd Year BSc-BT	Pratyasha Khatol
68	Y23UB68	PRONIT PAL	2nd Year BSc-BT	Pronit Pal
69	Y23UB69	PURNIMA SINGH	2nd Year BSc-BT	Purnima Singh
70	Y23UB70	RAHUL KUMAR ROUT	2nd Year BSc-BT	Rahul Kumar Rout
71	Y23UB71	RAJALAXMI SARANGI	2nd Year BSc-BT	Rajalaxmi Sarangi
72	Y23UB72	RAJLAXMI JENA	2nd Year BSc-BT	Rajlaxmi Jena
73	Y23UB73	RAJNANDINI PURI	2nd Year BSc-BT	Rajnandini Puri
74	Y23UB74	RAKESH SAHOO	2nd Year BSc-BT	Rakesh Sahoo
75	Y23UB75	RASHIYA KHAN	2nd Year BSc-BT	Rashiya Khan
76	Y23UB76	SAHINA KHATUN	2nd Year BSc-BT	Sahina khatun
77	Y23UB77	SAI SARITA PATNAIK	2nd Year BSc-BT	Saloni Mishra
78	Y23UB78	SALONI MISHRA	2nd Year BSc-BT	Saloni Mishra
79	Y23UB79	SAMEER MAHARANA	2nd Year BSc-BT	Sameer Maharana
80	Y23UB80	SANDEEP DAS	2nd Year BSc-BT	Sandeep Das
81	Y23UB81	SANDEEP TOPPO	2nd Year BSc-BT	Sandeep Toppo
82	Y23UB82	SASWATI TRIPATHY	2nd Year BSc-BT	Saswati tripathy
83	Y23UB83	SATABDI NAYAK	2nd Year BSc-BT	Satabdi Nayak
84	Y23UB84	SELIJA MOHANTY	2nd Year BSc-BT	Seli Ja mohanty
85	Y23UB85	SHIVANSHI MUKHERJEE	2nd Year BSc-BT	Shivanshi Mukherjee



23-4

86	Y23UB86	SHIWANGI SINHA	2nd Year BSc-BT	Shiwangi Sinha
87	Y23UB87	SHREYA MUNDA	2nd Year BSc-BT	Shreya Munda
88	Y23UB88	SHRUSTI PATRA	2nd Year BSc-BT	Shruti Patra
89	Y23UB89	SHUBHAM KUMAR	2nd Year BSc-BT	Shubham Kumar
90	Y23UB90	SHUBHRALIN DAS	2nd Year BSc-BT	Shubhralin Das
91	Y23UB91	SIBANGI PANIGRAHI	2nd Year BSc-BT	Sibangi Panigrahi
92	Y23UB92	SIMRAN MOHANTY	2nd Year BSc-BT	Simran Mohanty
93	Y23UB93	SITAM NAYAK	2nd Year BSc-BT	Sitam Nayak
94	Y23UB94	SMITARANI BARIK	2nd Year BSc-BT	Smitarani Barik
95	Y23UB95	SMRUTI SAHOO	2nd Year BSc-BT	Smruti Sahoo
96	Y23UB96	SOUBHAGNI MALLICK	2nd Year BSc-BT	Soubhagni Mallik
97	Y23UB97	SOUHARDYA PANDA	2nd Year BSc-BT	Souhardya Panda
98	Y23UB98	SOUMYA TIWARY	2nd Year BSc-BT	Soumya Panda
99	Y23UB99	SPANDANA ROUT	2nd Year BSc-BT	Spandana Rout
100	Y23UB100	SRIDIPTA RATH	2nd Year BSc-BT	Sridipta Rath
101	Y23UB101	SUBHAM ROUT	2nd Year BSc-BT	Subham Rout
102	Y23UB102	SUBHASHREE SARANGI	2nd Year BSc-BT	Subhashree Sarangi
103	Y23UB103	SUBHRALIPI MOHANTY	2nd Year BSc-BT	Subhralipi Mohanty
104	Y23UB104	SUCHARITA SUTAR	2nd Year BSc-BT	Sucharita Sutar
105	Y23UB105	SUCHISMITA BISWAL	2nd Year BSc-BT	Suchismita Biswal
106	Y23UB106	SUDIPTA SWAIN	2nd Year BSc-BT	Sudepta Swain
107	Y23UB107	SUMEET DASH	2nd Year BSc-BT	Sumeet Dash
108	Y23UB108	SUMITRA BEHERA	2nd Year BSc-BT	Sumitra Behera
109	Y23UB109	SUPRANAYA BHOI	2nd Year BSc-BT	Supranaya Bhoi
110	Y23UB110	SUPRIYA RAJGURU	2nd Year BSc-BT	Supriya Rajguru
111	Y23UB111	SURBHI KUMARI	2nd Year BSc-BT	Surbhi Kumari
112	Y23UB112	SUVAM DAS	2nd Year BSc-BT	Suvam Das
113	Y23UB113	SWAPNA MISHRA	2nd Year BSc-BT	Swapna Mishra
114	Y23UB114	SWETA BISWAL	2nd Year BSc-BT	Sweta Biswal
115	Y23UB115	SWETAPRAGYAN BEHERA	2nd Year BSc-BT	Swetapragyan Behera
116	Y23UB116	TANISHA BOSE	2nd Year BSc-BT	Tanisha Bose

S. Sahu  
COORDINATOR

HOD

Pg4 of 4

DIRECTOR

MITS School of Biotechnology  
Bhubaneswar

## COURSE SCHEDULE

Name of the Program: A Two Week Add-On Program on **MICROBIAL APPLICATIONS IN FOOD INDUSTRY**  
01-05-2023 to 17-05-2023

SN	Date	Topic	Resource Person
1	01-05-2023	Introduction to Food Microbiology	Mr. SabyasachiParida
2	02-05-2023	Types of Microorganisms in Food	Mr. SabyasachiParida
3	03-05-2023	Food Spoilage and Preservation	Mr. SabyasachiParida
4	04-05-2023	Food Safety and Pathogens	Mr. SabyasachiParida
5	05-05-2023	Microbial Fermentation	Mr. SabyasachiParida
6	06-05-2023	Probiotics and Functional Foods	Mr. SabyasachiParida
7	08-05-2023	Starter Cultures in Fermentation	Mr. SabyasachiParida
8	09-05-2023	Food Biopreservation	Mr. SabyasachiParida
9	10-05-2023	Food Safety Measures	Mr. SabyasachiParida
10	11-05-2023	Genetic Modifications in Food Microbiology	Mr. SabyasachiParida
11	12-05-2023	Emerging Trends in Food Microbiology	Mr. SabyasachiParida
12	13-05-2023	Group Projects and Presentations	Mr. SabyasachiParida
13	15-05-2023	Hands On Session	Mr. SabyasachiParida
14	16-05-2023	Hands On Session	Mr. SabyasachiParida
15	17-05-2023	Hands On Session	Mr. SabyasachiParida

*S. Sahu*  
COORDINATOR

*[Signature]*  
HOD

*[Signature]*  
DIRECTOR

Director  
MITS School of Biotechnology  
Bhubaneswar



## PROGRAM REPORT

18-05-2023

**Name of the Event:** A Two Week Add-On Program on **MICROBIAL APPLICATIONS IN FOOD INDUSTRY**

**Date:** 01-05-2023 to 17-05-2023

**Resource Person:** **Asst. Prof. Sabyasachi Parida**

Assoc. Professor,  
Dept. of Biotechnology, MSB, Bhubaneswar.  
Contact Number: 9861007824

**Coordinator:** **Dr. Smaranika Sahu**

Asst. Professor,  
Dept. of Biotechnology,  
MSB, Bhubaneswar

**Number of students attended:** 116

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

MITS school of Biotechnology, Bhubaneswar, organized a two week add-on program on **MICROBIAL APPLICATIONS IN FOOD INDUSTRY** for BSc-Biotechnology students by the resource person **Asst. Prof. Sabyasachi Parida**. This program aims to provide participants with a deep understanding of the various ways in which microbes are utilized to improve food safety, preservation, and production. Participants will engage in both theoretical learning and hands-on practical sessions, allowing them to explore the fascinating world of food microbiology and its applications. Totally 116 students participated in this training program and after the completion of the program they were able to understand the following objectives and learning outcomes.

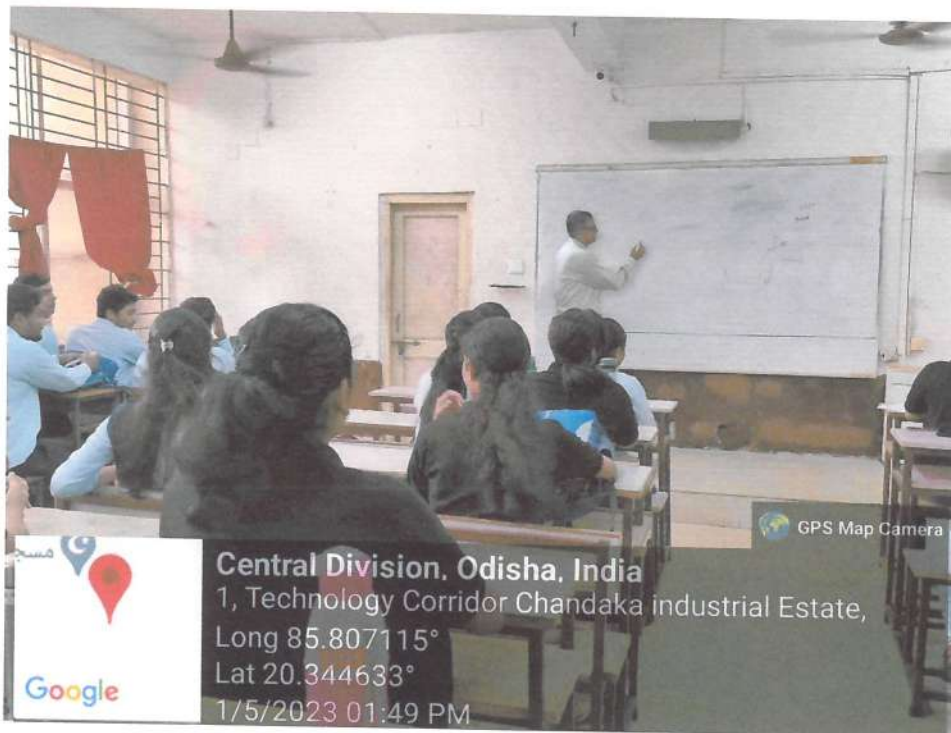
### Objectives:

1. Understand the Role of Microorganisms in Food: Provide participants with a comprehensive understanding of the different types of microorganisms (bacteria, yeasts, molds) and their roles in food production, preservation, and safety.
2. Explore Food Spoilage and Preservation: Examine how microorganisms influence food spoilage and preservation methods, and understand how to mitigate spoilage while ensuring food safety.
3. Microbial Applications in Food Industry Identify and address pathogenic microorganisms that pose risks to food safety, and understand the principles of food borne illness prevention.

Pg 1 of 2

### Learning Outcomes:

4. Participants will have a solid understanding of the role of microorganisms in the food industry, including their contributions to food safety, preservation, and production.
5. Participants will learn how different types of microorganisms impact food quality, safety, and taste.
6. Participants will gain practical experience in using microbes for food production and preservation.
7. Participants will understand the importance of food safety measures and regulations in the food industry.



A Two Week Add-On Program on **MICROBIAL APPLICATIONS IN FOOD INDUSTRY**,  
01-05-2023 to 17-05-2023, Asst. prof. Sabyasachi 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. Lalun*  
COORDINATOR

*[Signature]*  
HOD

*[Signature]*  
DIRECTOR

Director  
MITS School of Biotechnology  
Bhubaneswar



Date: 22-03-2023

### 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 Week Add-On Program on **THE ROLE OF TRANSGENIC PLANTS IN AGRICULTURE AND BIOPHARMING** from **03-04-2023** to **21-04-2023**. Interested students shall register their names at the office of the coordinator on or before 4 PM, 31-03-2023.

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




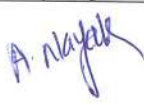


**Coordinator** : **Dr. Mousumi Mishra**  
Asst. Professor  
Department of Biotechnology  
MITS School of Biotechnology



**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: 13.05.2023

Email: csethi.msb@gmail.com

**Address for Communication**

**Prof. Chhabi Sethi**

Coordinator, Asst Professor

Contact: +91-98612 93070

**Chief Patron**

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

**Patron**

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

**Convenor**

**Prof. Sidharth parida**  
Dept. of Biotechnology

**Coordinator**

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

**Advisory Committee**

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

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

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

**A TWO-WEEK ADD-ON  
PROGRAM  
ON**



**THE ROLE OF TRANSGENIC  
PLANTS IN AGRICULTURE  
AND BIOPHARMING**

**Proram Schedule**

**03-04-2023 to 21-04-2023**



**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

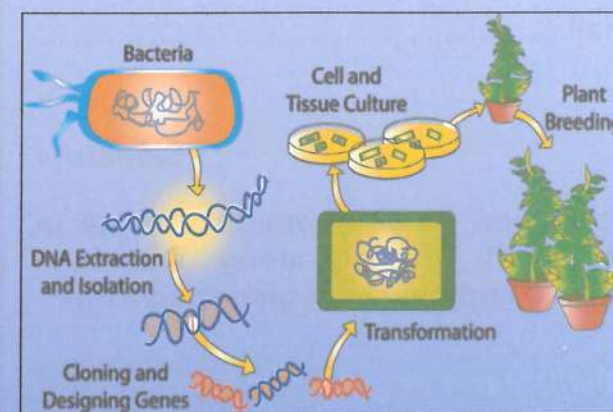
## About Programme

The "Role of Transgenic Plants in Agriculture and Biopharming" program is designed to provide participants with a comprehensive understanding of the use of transgenic plants in agricultural and biopharmaceutical applications. It covers both the theoretical and practical aspects of creating and utilizing transgenic plants. Graduates of this program will be well-prepared to contribute to advancements in agriculture, biopharmaceuticals and related fields and the production of biopharmaceuticals.



## Objective of the Programme

The main objective of the program has five verticals: Gain a solid understanding of the principles of transgenic plant technology, Explore the ethical, environmental, and regulatory considerations, Learn how to create transgenic plants, Understand the role of transgenic crops in improving agricultural productivity, Acquire hands-on experience with genetic engineering techniques in plant biology.



## Resource Person

**Dr. Rashmi Ranjan Mishra**  
Assoc. Prof. Department of  
Biotechnology MSB, Bhubaneswar



Date: 02-04-2023

### REGISTERED STUDENT LIST

Name of the Programme: A Two Week Add-On Program on **THE ROLE OF TRANSGENIC PLANTS IN AGRICULTURE AND BIOPHARMING**  
03-04-2023 to 21-04-2023

SN	Reg. No	Name of the Student	Year Branch	Signature
1	Y23PB01	ABHIJIT MOHAPATRA	2 <sup>nd</sup> Yr MSc-BT	Abhijit Mohapatra
2	Y23PB02	ABHISEK MOHAPATRA	2 <sup>nd</sup> Yr MSc-BT	Abhisek mohapatra
3	Y23PB03	AMISHA BISWAL	2 <sup>nd</sup> Yr MSc-BT	Amisha Biswal
4	Y23PB04	AMISHA NAYAK	2 <sup>nd</sup> Yr MSc-BT	Amisha Nayak
5	Y23PB05	ARPITA BARIK	2 <sup>nd</sup> Yr MSc-BT	Arpita Barik
6	Y23PB06	ARPITA JENA	2 <sup>nd</sup> Yr MSc-BT	Arpita Jena
7	Y23PB07	AZHAR SHAHID	2 <sup>nd</sup> Yr MSc-BT	Azhare Shahid
8	Y23PB08	BIJAYA LAXMI PRADHAN	2 <sup>nd</sup> Yr MSc-BT	Bijaya Laxmi Pradhan
9	Y23PB09	BISWAJIT PADHY	2 <sup>nd</sup> Yr MSc-BT	Biswajit Padhy
10	Y23PB10	BISWAJIT PRADHAN	2 <sup>nd</sup> Yr MSc-BT	Biswajit Pradhan
11	Y23PB11	HARAPRIYA SAHOO	2 <sup>nd</sup> Yr MSc-BT	Harapriya Sahoo
12	Y23PB12	JAGANNATH ACHARYA	2 <sup>nd</sup> Yr MSc-BT	Jagannath Acharya
13	Y23PB13	JHANSIRANI PATRA	2 <sup>nd</sup> Yr MSc-BT	Jhansirani patra
14	Y23PB14	KADAMBINI RATH	2 <sup>nd</sup> Yr MSc-BT	Amisha Biswal
15	Y23PB15	KAJAL KIRAN SAHOO	2 <sup>nd</sup> Yr MSc-BT	Kajal Kiran Sahoo
16	Y23PB16	LIPSHA RAY	2 <sup>nd</sup> Yr MSc-BT	Lipsha Ray
17	Y23PB17	LOPAMUDRA SAHU	2 <sup>nd</sup> Yr MSc-BT	Lopamudra Sahu
18	Y23PB18	MALABIKA PATTANAİK	2 <sup>nd</sup> Yr MSc-BT	Malabika Pattanaik
19	Y23PB19	MIXCHI NAYAK	2 <sup>nd</sup> Yr MSc-BT	Mixchi Nayak
20	Y23PB20	NEETIPREETA DASH	2 <sup>nd</sup> Yr MSc-BT	Neetipreeta Dash
21	Y23PB21	NIHAR RANJAN MAHANTA	2 <sup>nd</sup> Yr MSc-BT	Nihar Ranjan Mahanta
22	Y23PB22	PINALI MOHAPATRA	2 <sup>nd</sup> Yr MSc-BT	Pinali Mohapatra
23	Y23PB23	PADMAJA SAHOO	2 <sup>nd</sup> Yr MSc-BT	Padmaja Sahoo



24	Y23PB24	PRABIN KUMAR DASH	2 <sup>nd</sup> Yr MSc-BT	Prabin Kumar Dash
25	Y23PB25	PREETI PALLAVI MUDULI	2 <sup>nd</sup> Yr MSc-BT	Preeti Pallavimuduli
26	Y23PB26	PREETIMAYEE JENA	2 <sup>nd</sup> Yr MSc-BT	Preetimayee Jena
27	Y23PB27	PRITILIMA MISHRA	2 <sup>nd</sup> Yr MSc-BT	Pritilima Mishra
28	Y23PB28	PRIYANKA PRUSTY	2 <sup>nd</sup> Yr MSc-BT	priyanka prusty
29	Y23PB29	PURNOPAMA ROY	2 <sup>nd</sup> Yr MSc-BT	purnopama roy
30	Y23PB30	RAJALAXMI DASH	2 <sup>nd</sup> Yr MSc-BT	Rajalaxmi Dash
31	Y23PB31	SAMEEKSHA JENA	2 <sup>nd</sup> Yr MSc-BT	Sameeksha Jena
32	Y23PB32	SANKET BISWAL	2 <sup>nd</sup> Yr MSc-BT	Sanket Biswal
33	Y23PB33	SASWOT SUBHANKAR	2 <sup>nd</sup> Yr MSc-BT	saswot subhankar
34	Y23PB34	SATARUPA ROUTRAYA	2 <sup>nd</sup> Yr MSc-BT	Satarupa routraya
35	Y23PB35	SATYAJIT NATH	2 <sup>nd</sup> Yr MSc-BT	Satyajit Nath
36	Y23PB36	SHIBANI PRADHAN	2 <sup>nd</sup> Yr MSc-BT	Shibani Pradhan
37	Y23PB37	SHWETA PRAVA DHAL	2 <sup>nd</sup> Yr MSc-BT	Shweta Prava Dhal
38	Y23PB38	SMARANIKA RATH	2 <sup>nd</sup> Yr MSc-BT	Smaranika Rath
39	Y23PB39	SNIGDHA RANI DAS	2 <sup>nd</sup> Yr MSc-BT	Snigdha Rani Das
40	Y23PB40	SOMYASASWATI BETAL	2 <sup>nd</sup> Yr MSc-BT	Somyasaswati Betal
41	Y23PB41	SOURAV SUBHADARSHY	2 <sup>nd</sup> Yr MSc-BT	Sourav Subhadarshy
42	Y23PB42	SUCHISMITA CHAINY	2 <sup>nd</sup> Yr MSc-BT	Suchismita chainy
43	Y23PB43	SUSHREE SAMIKSHYA DAS	2 <sup>nd</sup> Yr MSc-BT	Sushree Samikshya Das
44	Y23PB44	SWAYAM PRAGNYA MISHRA	2 <sup>nd</sup> Yr MSc-BT	Swayam Pragnya Mishra
45	Y23PB45	SWETLINA SAHOO	2 <sup>nd</sup> Yr MSc-BT	Swetlina saho
46	Y23PB46	TANMAYEE MOHANTA	2 <sup>nd</sup> Yr MSc-BT	Tanmayee mohanta
47	Y23PB47	TANUSHREE PRADHAN	2 <sup>nd</sup> Yr MSc-BT	Tanushree Pradhan
48	Y23PB48	TASHMIM AFTAB	2 <sup>nd</sup> Yr MSc-BT	Tashmim Aftab
49	Y23PB49	TEJASWINI MOHAPATRA	2 <sup>nd</sup> Yr MSc-BT	Tejaswani Mohapatra
50	Y23PB50	YASH RAJ PATNAIK	2 <sup>nd</sup> Yr MSc-BT	Yash Raj Patnaik

Moumuni Mishra  
COORDINATOR

  
HOD

Pg 2 of 2

  
DIRECTOR  
MITS School of Biotechnology  
Bhubaneswar



Date: 03-04-2023

## REGISTERED STUDENT LIST

Name of the Programme: A Two Week Add-On Program on **THE ROLE OF TRANSGENIC PLANTS IN AGRICULTURE AND BIOPHARMING**  
03-04-2023 to 21-04-2023

SN	Reg. No	Name of the Student	Year Branch	Signature
51	Y23PB51	ALISHA SAHOO	2 <sup>nd</sup> Yr MSc-BT	<i>Alisha Sahoo</i>
52	Y23PB52	ARPITA SAMAL	2 <sup>nd</sup> Yr MSc-BT	<i>Arpita Samal</i>
53	Y23PB53	BISALAKHI AGASTY	2 <sup>nd</sup> Yr MSc-BT	<i>Bisalakhi Agasty</i>
54	Y23PB54	CHITRANKA PRIYADARSHINI PRADHAN	2 <sup>nd</sup> Yr MSc-BT	<i>Chitranka Pradhan</i>
55	Y23PB55	KISHAN KUMAR SAHOO	2 <sup>nd</sup> Yr MSc-BT	<i>Kishan Kr. Sahoo</i>
56	Y23PB56	KRITI	2 <sup>nd</sup> Yr MSc-BT	<i>Kriti</i>
57	Y23PB57	PRAGYAN PRIYADARSANI	2 <sup>nd</sup> Yr MSc-BT	<i>Pragyan Priyadarsani</i>
58	Y23PB58	PRAJNA PRIYADARSHINEE DHAL	2 <sup>nd</sup> Yr MSc-BT	<i>Prajna Priyadarshini Dhal</i>
59	Y23PB59	PRIYANKA PRIYADARSHINEE PARIDA	2 <sup>nd</sup> Yr MSc-BT	<i>Priyanka Priyadarshini Parida</i>
60	Y23PB60	PRIYANKA PRIYADARSHINI SWAIN	2 <sup>nd</sup> Yr MSc-BT	<i>Priyanka Priyadarshini Swain</i>
61	Y23PB61	SAMIKSHYA PRIYADARSHINI SAMAL	2 <sup>nd</sup> Yr MSc-BT	<i>Samikshya Priyadarshini Samal</i>
62	Y23PB62	SUBHASREE SUBHASMITA SATAPATHY	2 <sup>nd</sup> Yr MSc-BT	<i>Subhasree Subhasmita Satapathy</i>
63	Y23PB63	SUSMITA PRIYADASINEE PANDA	2 <sup>nd</sup> Yr MSc-BT	<i>Susmita Priyadarshinee Panda</i>

*Moosumi Mishra*  
COORDINATOR

*[Signature]*  
HOD

*[Signature]*  
DIRECTOR

Director  
MITS School of Biotechnology  
Bhubaneswar



## COURSE SCHEDULE

**Name of the Program:** A Two Week Certificate Program on **THE ROLE OF TRANSGENIC PLANTS IN AGRICULTURE AND BIOPHARMING**  
**03-04-2023 To 21-04-2023**

SN	Date	Topic	Resource Person
1	03-04-2023	Introduction of genetic transformation	Dr. R. R. Mishra
2	04-04-2023	Transgenic plant technology	Dr. R. R. Mishra
3	05-04-2023	Uses of transgenic plant technology	Dr. R. R. Mishra
4	06-04-2023	Importance of Transgenic plant	Dr. R. R. Mishra
5	08-04-2023	Advantages of Transgenic plant	Dr. R. R. Mishra
6	10-04-2023	Model of Transgenic plant	Dr. R. R. Mishra
7	11-04-2023	How has biotechnology changed agricultural sector?	Dr. R. R. Mishra
8	12-04-2023	source of industrial microbes	Dr. R. R. Mishra
9	13-04-2023	important characteristics of Transgenic plant	Dr. R. R. Mishra
10	15-04-2023	Role of Transgenic plant in Agriculture	Dr. R. R. Mishra
11	17-04-2023	Economic improvement in transgenic plant technology	Dr. R. R. Mishra
12	18-04-2023	Hands on Session	Dr. R. R. Mishra
13	19-04-2023	Hands On Session	Dr. R. R. Mishra
14	21-04-2023	Hands On Session	Dr. R. R. Mishra

Mousumi Mishra  
COORDINATOR

  
HOD

  
DIRECTOR  
Director  
MITS School of Biotechnology  
Bhubaneswar

## PROGRAM REPORT

22-04-2023

**Name of the Event:** A Two Week Add-On Program on **THE ROLE OF TRANSGENIC PLANTS IN AGRICULTURE AND BIOPHARMING**

**Date:** 03-04-2023 To 21-04-2023

**Resource Person:** Dr. R. R. Mishra  
Assoc. Professor,  
Dept. of Biotechnology, MSB, Bhubaneswar.  
Contact Number: 9439215277

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

**Number of students attended:** 63

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

MITS school of Biotechnology, Bhubaneswar, organized a two week add-on program on **HUMAN-CENTRIC RDNA TECHNOLOGY** for MSc-Biotechnology students by the resource person Dr. R. R. Mishra. The genetic manipulation of plant protoplast by direct gene transfer as clearly comes of age after a long time period. Totally **63** 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.

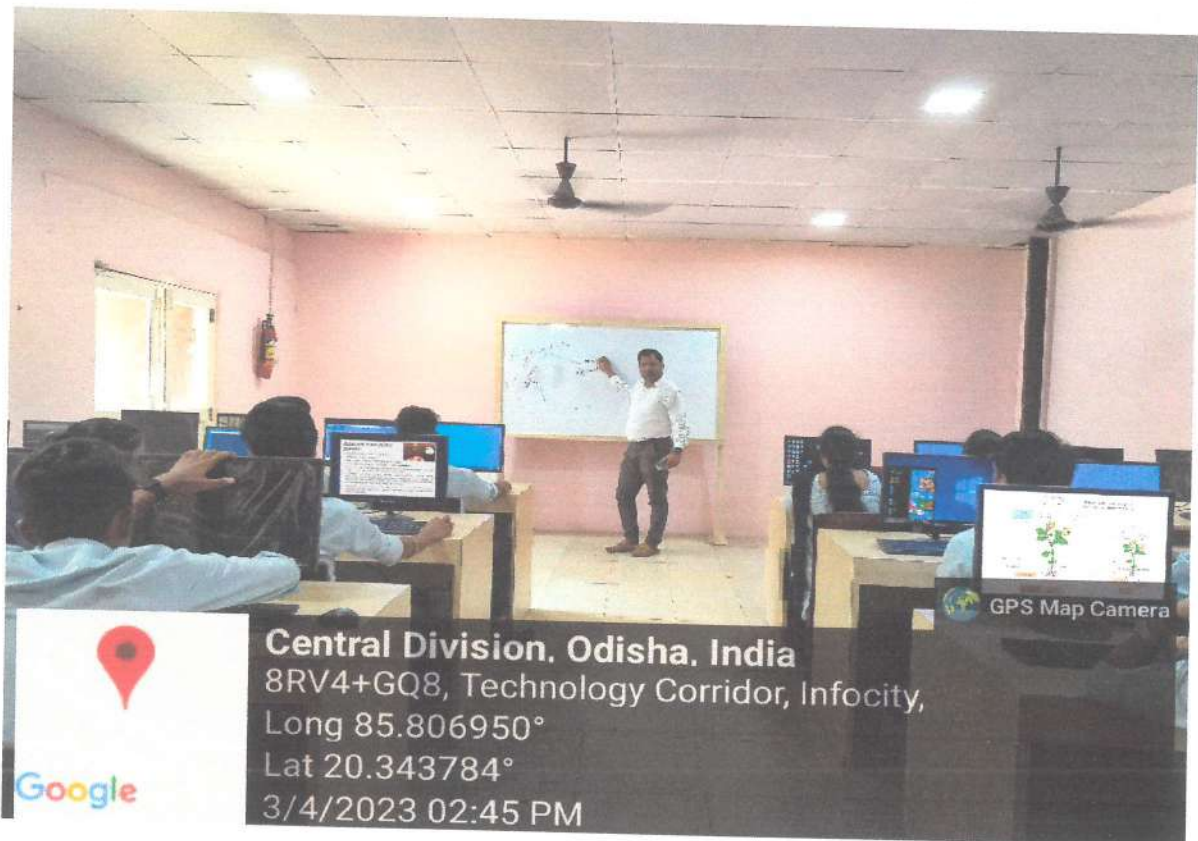
### **Learning Outcomes:**

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.

Pg 1 of 2



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 **THE ROLE OF TRANSGENIC PLANTS IN AGRICULTURE AND BIOPHARMING**, 03-04-2023 To 21-04-2023, Dr. R. R. Mishra.

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.

*Mousumi Mishra*  
**COORDINATOR**

*[Signature]*  
**HOD**

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

Date: 22-03-2023

### 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 **SYNTHESIS OF SILVER NANO PARTICLES USING *BACILLUS sp*** from **03-04-2023** to **21-04-2023**. Interested students shall register their names at the office of the coordinator on or before 4 PM, 31-03-2023.



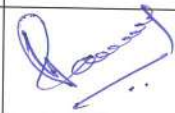
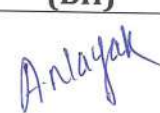
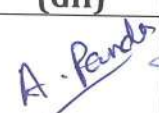

**Venue of the Programme** : Conference Hall, MITS School of Biotechnology.

**Coordinator** : **Dr. Mousumi Mishra**  
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: 13.05.2023

Email: [csethi.msb@gmail.com](mailto:csethi.msb@gmail.com)

**Address for Communication**

**Prof. Chhabi Sethi**

Coordinator, Asst Professor  
Contact: +91-98612 93070

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

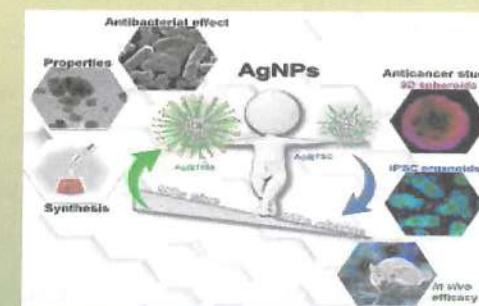
**Advisory Committee**

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

**Prof. S. Satrusallya**  
Dept. of Chemistry

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

**A TWO-WEEK ADD-ON  
PROGRAM  
ON**



**SYNTHESIS OF SILVER NANO  
PARTICLES USING BACILLUS SP**

**Proram Schedule**

**03-04-2023 to 21-04-2023**



**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

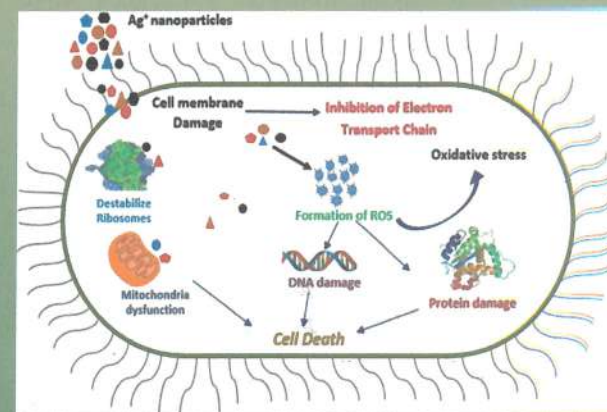
## About Programme

The "Synthesis of Silver Nanoparticles Using Bacillus sp." program is designed to provide participants with hands-on experience in the synthesis of silver nanoparticles (AgNPs) using the bacterium Bacillus sp. This program explores the eco-friendly and cost-effective method of biosynthesis and the potential applications of AgNPs in various fields, including medicine, materials science, and environmental remediation. Graduates of this program will be well-prepared to apply their skills in research, industry, and academic settings, particularly in the fields of nanotechnology, biotechnology, and environmental science.



## Objective of the Programme

The main objective of the program has five verticals: Understand the principles and mechanisms of silver nanoparticle synthesis using Bacillus sp., Learn the techniques for isolating and culturing Bacillus sp., Gain practical experience in the process of AgNP synthesis, Explore the potential applications of AgNPs in different fields, Understand the safety and ethical considerations.



## Resource Person

**Dr. Deepti Priya Sethi**  
Asst. Prof. Department of  
Biotechnology MSB, Bhubaneswar



Date: 02-04-2023

### REGISTERED STUDENT LIST

Name of the Programme: A Two Week Add-On Program on SYNTHESIS OF SILVER NANO PARTICLES USING *BACILUS sp*  
03-04-2023 to 21-04-2023


SN	Reg. No	Name of the Student	Year Branch	Signature
1	Y23PB01	ABHIJIT PADHI	2 <sup>nd</sup> Yr MSc-AMB	Abhijit Padhi
2	Y23PB02	ABHILIPSA SAHOO	2 <sup>nd</sup> Yr MSc-AMB	Abhilipsa Sahoo
3	Y23PB03	ADITYA JENA	2 <sup>nd</sup> Yr MSc-AMB	Aditya Jena.
4	Y23PB04	ADYA SRABANI PARIDA	2 <sup>nd</sup> Yr MSc-AMB	ADYA srabani PARIDA
5	Y23PB05	AKANKSHYA DASH	2 <sup>nd</sup> Yr MSc-AMB	Akankshya Das.
6	Y23PB06	AKANKSHYA SAHOO	2 <sup>nd</sup> Yr MSc-AMB	Akankshya Sahoo
7	Y23PB07	ANSHU RANI	2 <sup>nd</sup> Yr MSc-AMB	Anshu Rani
8	Y23PB08	ANWESHA MISHRA	2 <sup>nd</sup> Yr MSc-AMB	Anwesha Mishra
9	Y23PB09	ARPITA MISHRA	2 <sup>nd</sup> Yr MSc-AMB	Arpita mishra
10	Y23PB10	ASHMINI PADHI	2 <sup>nd</sup> Yr MSc-AMB	ASHMINI PADHI
11	Y23PB11	AVINAV MAHARANA	2 <sup>nd</sup> Yr MSc-AMB	Avinav Maharana
12	Y23PB12	BISMAYA KUMAR DASH	2 <sup>nd</sup> Yr MSc-AMB	Bismaya kumar Dash.
13	Y23PB13	GOURAB KUMAR NAIK	2 <sup>nd</sup> Yr MSc-AMB	Gourab Kumar Naik
14	Y23PB14	IPSITA PANI	2 <sup>nd</sup> Yr MSc-AMB	Ipsita pani
15	Y23PB15	JAGAT JYOTI ACHARYA	2 <sup>nd</sup> Yr MSc-AMB	JAGAT JYOTI ACHARYA
16	Y23PB16	JANHAVI TAJAN	2 <sup>nd</sup> Yr MSc-AMB	JANHAVI TAJAN
17	Y23PB17	LIPIKA DAS	2 <sup>nd</sup> Yr MSc-AMB	Lipika Das
18	Y23PB18	LIPSA SAMAL	2 <sup>nd</sup> Yr MSc-AMB	Lipsa samal
19	Y23PB19	NABANITA SINGH	2 <sup>nd</sup> Yr MSc-AMB	Nabanita Singh
20	Y23PB20	NEHA SINHA	2 <sup>nd</sup> Yr MSc-AMB	Neha sinha
21	Y23PB21	NIKIPRITAM SAHOO	2 <sup>nd</sup> Yr MSc-AMB	Nikipritam Sahoo
22	Y23PB22	PRADYUMNA SAHOO	2 <sup>nd</sup> Yr MSc-AMB	Pradyumna Sahoo
23	Y23PB23	PRAVASINI JENA	2 <sup>nd</sup> Yr MSc-AMB	Pravasini Jena



24	Y23PB24	PRIYANKA DAS	2 <sup>nd</sup> Yr MSc-AMB	Priyanka Dash
25	Y23PB25	PUJA PRUSTY	2 <sup>nd</sup> Yr MSc-AMB	Puja Prusty
26	Y23PB26	PUSPANJALI NAYAK	2 <sup>nd</sup> Yr MSc-AMB	Puspanjali Nayak
27	Y23PB27	RITIKA BEURA	2 <sup>nd</sup> Yr MSc-AMB	Ritika Beura
28	Y23PB28	ROSALI BISWAL	2 <sup>nd</sup> Yr MSc-AMB	Rosali Biswal
29	Y23PB29	RUTUPARNA SHARMA	2 <sup>nd</sup> Yr MSc-AMB	Rutuparna Sharma
30	Y23PB30	SAGARIKA BEHERA	2 <sup>nd</sup> Yr MSc-AMB	Sagarika Behera
31	Y23PB31	SAI SANKALP PAUL	2 <sup>nd</sup> Yr MSc-AMB	Sai Sankalp Paul
32	Y23PB32	SAMUKARANI SWAIN	2 <sup>nd</sup> Yr MSc-AMB	Samukarani Swain
33	Y23PB33	SATYAPRIYA SAHOO	2 <sup>nd</sup> Yr MSc-AMB	Satyapriya saho
34	Y23PB34	SHIBANI CHOUDHURY	2 <sup>nd</sup> Yr MSc-AMB	Shibani Choudhury
35	Y23PB35	SIPRA JENA	2 <sup>nd</sup> Yr MSc-AMB	Sipra Jena
36	Y23PB36	SK ABARAR HUSSAIN	2 <sup>nd</sup> Yr MSc-AMB	SK Abarrar Hussain
37	Y23PB37	SOMAPIKA BEHERA	2 <sup>nd</sup> Yr MSc-AMB	Somapika Behera
38	Y23PB38	SOMYA RANJAN PAIKARAY	2 <sup>nd</sup> Yr MSc-AMB	Somya Ranjan paikaray
39	Y23PB39	SONAL SINGH	2 <sup>nd</sup> Yr MSc-AMB	Sonali Singh
40	Y23PB40	SONALIKA MOHAPATRA	2 <sup>nd</sup> Yr MSc-AMB	Sonalika Mohapatra
41	Y23PB41	SONALIKA NAYAK	2 <sup>nd</sup> Yr MSc-AMB	Sonalika Nayak
42	Y23PB42	SOUMYA SONALI	2 <sup>nd</sup> Yr MSc-AMB	Soumya Sonali
43	Y23PB43	SOUMYASHREE JENA	2 <sup>nd</sup> Yr MSc-AMB	Soumyashree Jena
44	Y23PB44	SROTASWINEE BISWAL	2 <sup>nd</sup> Yr MSc-AMB	Srotaswinee Biswal
45	Y23PB45	SUCHISMITA SAHOO	2 <sup>nd</sup> Yr MSc-AMB	Suchismita Sahoo
46	Y23PB46	SUSHREE SANGEETA SWAIN	2 <sup>nd</sup> Yr MSc-AMB	Sushree Sangeeta Swain
47	Y23PB47	SWETA SWAIN	2 <sup>nd</sup> Yr MSc-AMB	Sweta Swain
48	Y23PB48	SWORUPA SWAIN	2 <sup>nd</sup> Yr MSc-AMB	Sworupa Swain
49	Y23PB49	TANMAY SATAPATHY	2 <sup>nd</sup> Yr MSc-AMB	Tanmay satapathy
50	Y23PB50	YASH RAJ PATNAIK	2 <sup>nd</sup> Yr MSc-AMB	Yash Raj Patnaik

  
COORDINATOR

  
HOD

  
DIRECTOR  
MITS School of Biotechnology  
Bhubaneswar



Date: 03-04-2023

## REGISTERED STUDENT LIST

Name of the Programme: A Two Week Add-On Program on SYNTHESIS OF SILVER NANO PARTICLES USING *BACILUS sp*  
03-04-2023 to 21-04-2023

SN	Reg. No	Name of the Student	Year Branch	Signature
51	Y23PA51	ADESH KUMAR PUJAPANDA	2 <sup>nd</sup> Yr MSc-AMB	Adesh Kumar Pujapanda
52	Y23PA52	ANKITA PRIYADARSHINI	2 <sup>nd</sup> Yr MSc-AMB	Ankita Priyadarshini
53	Y23PA53	ARGHYARUPA TRIPATHY	2 <sup>nd</sup> Yr MSc-AMB	Arghyarupa Tripathy
54	Y23PA54	BHAGYASHREE PRUSTY	2 <sup>nd</sup> Yr MSc-AMB	Bhagyashree Prusty
55	Y23PA55	KAPI SRIRAM HIMANSU SEKHAR SAHU	2 <sup>nd</sup> Yr MSc-AMB	Kapi Sriram himansu sekhara sahu
56	Y23PA56	KIKI DEBASRITA JENA	2 <sup>nd</sup> Yr MSc-AMB	Kiki Debasrita Jena
57	Y23PA57	PRITIREKHA ACHARYA	2 <sup>nd</sup> Yr MSc-AMB	Pritirekha Acharya
58	Y23PA58	PRIYANKA PRIYADARSHINI	2 <sup>nd</sup> Yr MSc-AMB	Priyanka Priyadarshini
59	Y23PA59	SHRUTI SUCHARITA PRADHAN	2 <sup>nd</sup> Yr MSc-AMB	Shruti S. Pradhan
60	Y23PA60	SUBHASHREE SUBHASHMITA SAHOO	2 <sup>nd</sup> Yr MSc-AMB	Subhashree Subhasmita Sahoo
61	Y23PA61	SWAYAM PRABHA RAUTARAY	2 <sup>nd</sup> Yr MSc-AMB	Swayam P. Rautaray

  
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Bhubaneswar

### COURSE SCHEDULE

Name of the Program: A Two Week Certificate Program on **SYNTHESIS OF SILVER NANO PARTICLES USING *BACILLUS sp***  
**03-04-2023 To 21-04-2023**

SN	Date	Topic	Resource Person
1	03-04-2023	Introduction to nano particle	Dr. Deepti Priya Sethi
2	04-04-2023	Applications of silver nanoparticles	Dr. Deepti Priya Sethi
3	05-04-2023	Uses of silver nanoparticles in biomedical sciences	Dr. Deepti Priya Sethi
4	06-04-2023	Antiviral activity	Dr. Deepti Priya Sethi
5	08-04-2023	Antifungal activity	Dr. Deepti Priya Sethi
6	10-04-2023	Antibacterial activity	Dr. Deepti Priya Sethi
7	11-04-2023	Antifouling action	Dr. Deepti Priya Sethi
8	12-04-2023	Antibiofilm activity	Dr. Deepti Priya Sethi
9	13-04-2023	Antiparasitic action	Dr. Deepti Priya Sethi
10	15-04-2023	Methods for the production of silver nanoparticles	Dr. Deepti Priya Sethi
11	17-04-2023	Pharmacological uses of silver nanoparticles	Dr. Deepti Priya Sethi
12	18-04-2023	The use of silver nanoparticles in the food industry	Dr. Deepti Priya Sethi
13	20-04-2023	Hands On Session	Dr. Deepti Priya Sethi
14	21-04-2023	Hands On Session	Dr. Deepti Priya Sethi

  
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## PROGRAM REPORT

22-04-2023

**Name of the Event:** A Two Week Add-On Program on **SYNTHESIS OF SILVER NANO PARTICLES USING *BACILLUS sp***

**Date:** 03-04-2023 To 21-04-2023

**Resource Person:** Dr. Deepti Priya Sethi  
Asst. Professor,  
Dept. of Biotechnology, MSB, Bhubaneswar.  
Contact Number: 7682096321

**Coordinator:** Dr. Mousumi Mishra  
Asst. Professor,  
Dept. of Biotechnology,  
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 **SYNTHESIS OF SILVER NANO PARTICLES USING *BACILLUS sp*** for MSc-Applied microbiology students by the resource person Dr. Deepti Priya Sethi. Microparticles and nanoparticles are a unique class of materials with enormous technological potential in energy, imaging, medical, and environmental applications. 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. Silver nanoparticles are potent antimicrobials and could be used as a promising alternative of conventional antibiotics.
2. Potential use of silver nanoparticles and surface coating or impregnation of nanomaterials as antibiofilm agents.
3. Understanding and improved technology, the application of these novel particles in medicine will establish a standard platform for the prevention and treatment of multidrug resistance and biofilm pathogens.

### Learning Outcomes:

1. The use of silver nanoparticles is rapidly increasing worldwide in many sectors, including health. However, it is essential to minimise the risk of the adverse effect of silver nanoparticles on both human patients and the environment.
2. Animal models have been conducted to evaluate the toxicity of silver nanoparticles and their effect on physiology and tissue architecture.
3. Ag<sup>+</sup> leads to a non-classical permeability increase in the mitochondrial inner membrane. Moreover, in rat liver mitochondria, there was an increased permeability that caused mitochondrial swelling, abnormal metabolism and ultimately cellular apoptosis.



A Two Week Add-On Program on **SYNTHESIS OF SILVER NANO PARTICLES USING *BACILLUS sp***, 03-04-2023 To 21-04-2023, Dr. Deepti Priya Sethi.

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.

  
COORDINATOR

  
HOD

  
DIRECTOR  
Director  
MITS School of Biotechnology  
Bhubaneswar