

PROFILE

OF

BIOTECHNOLOGY DEPARTMENT



GOVT. WOMEN'S COLLEGE, PURI

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BRIEF HISTORY OF DEPARTMENT

Department of Biotechnology

Establishment

The Department of Biotechnology established in the year 2018 , offers a threeyear Under Graduate level Program with an intake of 20 students under Ramadevi Women's university, Bhubaneswar in Govt. Women's college, Puri.

Vision

To provide Quality Education and to develop competent Biotechnologists for the welfare of society. Students can employ premium processes and applications which will profoundly influence existing paradigm of agriculture, industry, healthcare and restoration of environment providing sustainable competitive edge to societal benefits.

Mission

- To regularly update the students, catering to the needs of academia and industry.
- To emphasize the recent trends in Biotechnology through workshops and seminars.
- To inculcate students with in-depth knowledge of research aspects.
- To realize full potential of Biotechnology.
- Enhance efficiency skills of students and to make them build socio- economic consciousness and uplift their ideas towards improvement of the area of their interests.

Aim

The Department of Biotechnology came into existence as one of the independent Department of Biological Sciences in Govt. Women's Degree College with a vision to be a leading biotechnology department that imparts quality education with strong research oriented technical skills and components on various branches of Biotechnology.

About Biotechnology

Biotechnology is regarded as one of the most important disciplines, a thrust area for its effective implementation at undergraduate level as a first degree self financing course. It is also considered as task force in generating self-employment and employment avenues. Biotechnology has emerged as a driving force not just for the exploration of Biological Sciences but also the Physical Sciences, Chemical Sciences and Informational Technology.

Biotechnology is the use of living organisms for human benefits. By this definition, Biotechnology would date back to the very beginnings of civilization, when humankind first learned to cultivate crops and domesticate animals in a system of agriculture. When one thinks of Modern Biotechnology was revolutionized when scientists first learned how to isolate and clone genes, allowing for genetic engineering.

Today, the biotechnology industry has grown and expanded to affect us on a day- to-day basis. As such the knowledge at the under- graduate level of such an important and an applied subject has greater justification of orienting of our young generation towards a meaningful future, is a valuable legacy that a society can leave behind.

With this background the Department of Biotechnology at Under-graduate level has been imparting knowledge of Biotechnology for serving the cause of education of the people of this region in particular and the nation at large.

INCUMBENCY LIST OF CO-ORDINATORS & FACULTY DETAILS

1. CO-ORDINATOR OF DEPARTMENT

❖ Name : Padma charan Pradhan

Contact no : 8895815807

E-mail ID : padmacpradhan@gmail.com

Designation : Co-ordinator , Department of Biotechnology

Asst. Prof. of English St-III



2. FACULTY PROFILE

❖ Name : DR Jyoshna mayee Patra

Contact no : 8763069400,9853389048

E-mail ID : jyoshnamayeepatra30@gmail.com

Designation : Guest faculty of Biotechnology

Educational Qualification : PhD In biotechnology

No of Research papers published: 12 Nos.

No of Conferences & Seminars attended: 15 Nos.

Area of Specialization :

- Microbial isolation and characterization
- Bio-ethanol production from different wastes.

Award: "NASI-SWARNA JAYANTI PURSKAR" for the year 2015 by National academy science India, Allahabad



❖ Name : Sonali Parida
Contact no : 9861820606,8249606908
E-mail ID : sonaliparida2012@gmail.com
Designation : Guest faculty of Biotechnology
Educational Qualification : M.Sc. In biotechnology
No of Research papers published: 2 Nos.
No of Seminars attended: 5 Nos.
No of Workshops attended : 4 Nos.
Area of Specialization :

- Plant tissue culture and Plant biotechnology
- Bioinformatics
- Microbial culture
- Molecular biology



COURSES & SYLLABUS

UNDER-GRADUATE CURRICULUM

The course consists of six semesters introduced from 2019-2023

- I Semester** : C1: Microbiology
C2 : Plant Diversity & Physiology
- II Semester** : C3: Cell Biology and Genetics
C4: Animal Diversity & Physiology
- III Semester** : C5: Molecular Biology
C6: Biochemistry and Metabolism
C7: Biostatistics and Computer Applications
- IV Semester** : C8: Immunology
C9: Plant Biotechnology
C10: Animal Biotechnology

V Semester : C 11: Genetic Engineering
C 12: Genomics and Proteomics

DSE 1: Biotechniques

DSE 2: Bioinformatics

VI Semester : C 13: Bioethics and Biosafety
C 14: Bioprocess Engineering and Technology

DSE 3: Bioenterpreurship

DSE 4: Medical Microbiology (to be opted by students securing below 60%) /

Project Report & Seminar** - for students securing $\geq 60\%$

SANCTIONED STRENGTH

ADMISSION BATCH (YEAR)	SANCTIONED STRENGTH	NO.OF STUDENTS ADMITTED
2018	32	12
2019	32	05
2020	32	05
2021	32	11
2022	32	14

RESULTS OF +3 FINAL YEAR DEGREE

ADMISSION BATCH (YEAR)	YEAR OF APPEARING EXAM	PROGRAM	NUMBER OF STUDENTS APPEARED IN THE FINAL YEAR EXAM.	NUMBEROF STUDENT PASS IN FINAL YEAR	PASS PERCENTAGE
2018	2021	Regular	11	11	99.9
2019	2022	Regular	05	04	80.5

**SEMINARS, INVITED TALK /LECTURES ,WEBINARS &
WORKSHOPS ORGANIZED BY DEPARTMENT**

YEAR	NAME OF EVENT & TOPIC	PROGRAM/ ORGANIZATION	DATE OF EVENT	NATURE OF PARTICIPATION (PRESENTED PAPER/ ATTENDED ONLY)
2019	Impact of Biotechnology in Society	Govt. Women's college,puri	Jan 2019	Dr. Guru Charan Nayak,Asst.Prof,SCS (A)college,Puri
2020		Govt. Women's college,puri	Dec 2020	Dr. Guru Charan Nayak,Asst.Prof,SCS (A)college,Puri
2021	Workshop on molecular biology		May 2021	Regional centre of Biotechnology, BBSR
2022	Advanced Innovation and opportunities in Agri-Tech Entrepreneurship	National Institute of Technology ,Rourkela	5 th -7 th May 2022	Webinar by Foundation for Technology & Business Incubation(FTBI)
2022	A new era of biotechnology and biotechniques principles	Govt. Women's college,puri	28 th Oct 2022	Dr. Balaram Mohapatra Asst.proff. At Gujurat University of Biotechnology
2022	RT-PCR			Workshop at MITS,BBSR

ALUMNI(2018-2023)

SL NO.	ACADEMIC YEAR	NAME OF STUDENT	ROLL NO.	CONTACT DETAILS	CONTRIBUTIONS
1	2018-21	Anisha Mohanty	BS18-001	8144237783	Dissertation work at NISER
2	2018-21	Arpita patra	BS18-004	9776930775	Dissertation work at CSIR-IMMT
3	2018-21	Pratiti Mishra	BS18-029	9078225495	Dissertation work at ICMR-RMRCBB
4	2018-21	Rushali Dash	BS18-009	7377176076	Dissertation work at ILS,BBSR

DETAILS OF RESEARCH LABORATORY & INFRASTRUCTURE

Infrastructural Facilities available

Major Equipments

- Electron Microscope
- Centrifuge
- Microscopes
- Gel electrophoresis system
- UV-Visible Spectrophotometers
- Incubator
- Distillation Unit
- Laminar Air flow
- Digital pH meter
- Laboratory Scales

Other infrastructural facilities

- Well equipped Microbiology Laboratory
- Computational and networking facilities
- Departmental Library



Light microscope



Spectrometer



INCUBATOR



Centrifuge



LAMINAR AIR FLOW

EXTRA- CURRICULAR AND EXTENSION ACTIVITIES

- Celebration of Biotechnology Day
- Seminars and Debates
- Sports day
- Alumini Meet
- Industrial Visits
- Academic visits to different research organizations and industries

FUTURE ROADMAP OF THE DEPARTMENT

- Attracting talent to life Science and Biotechnology
- Creating science & technology leaders for the industry
- To enhance the teaching and workforce training capabilities in order to meet the challenges of Biotechnology

PHOTO GALLERY

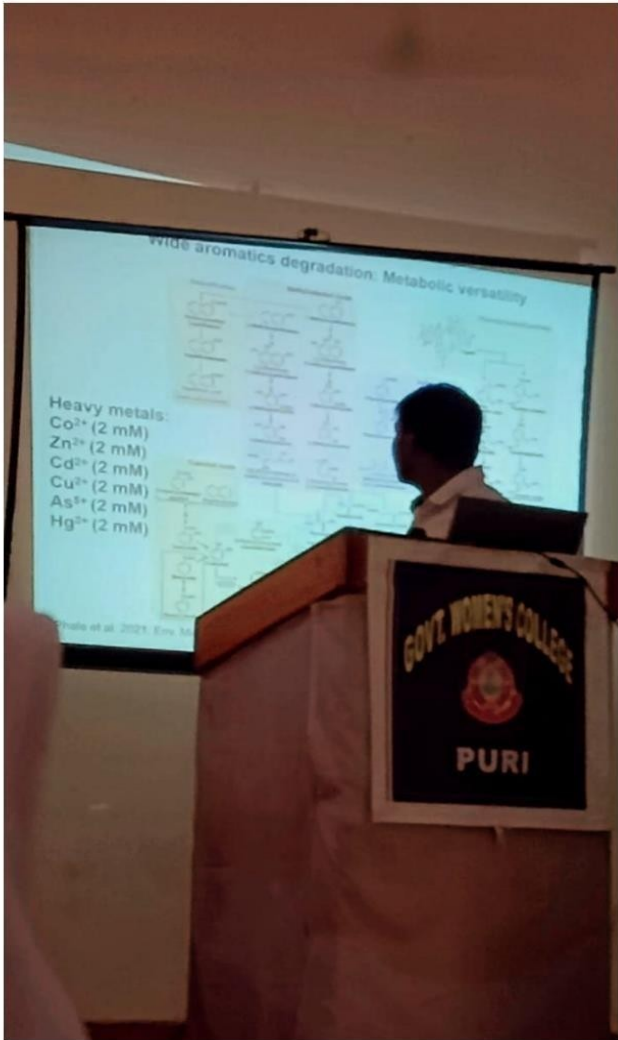
- ❖ A SEMINAR PRESENTED BY **DR. GURU CHARAN NAYAK**, ASST. PROFF. AT SCS (A)

COLLEGE,PURI



- ❖ A SEMINAR PRESENTED BY **DR. BALARAM MOHAPATRA**, ASST.PROFF. AT GUJRAT UNIVERSITY OF BIOTECHNOLOGY

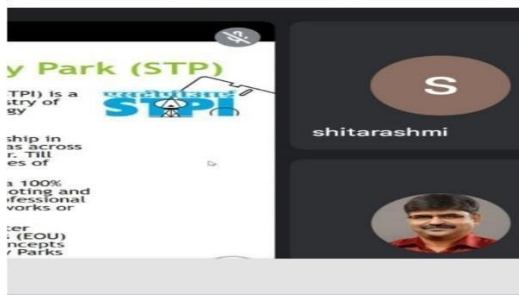




❖ WELCOME AND FAREWELL CEREMONY BY STUDENTS



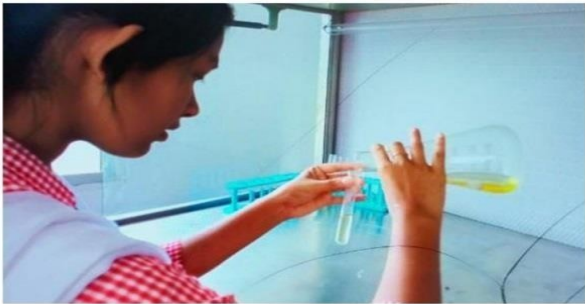
❖ WORK SHOP AT MITS, BBSR



❖ MICROBIOLOGY LABORATORY OF BIOTECH DEPT.



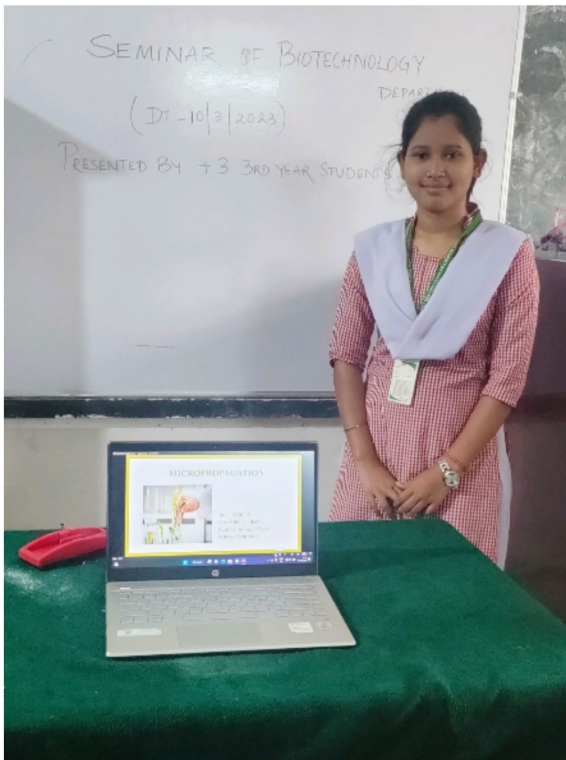
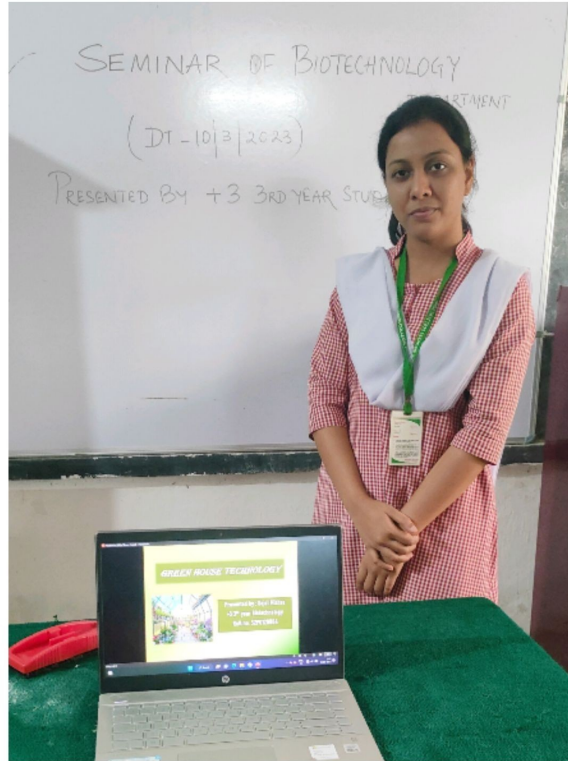
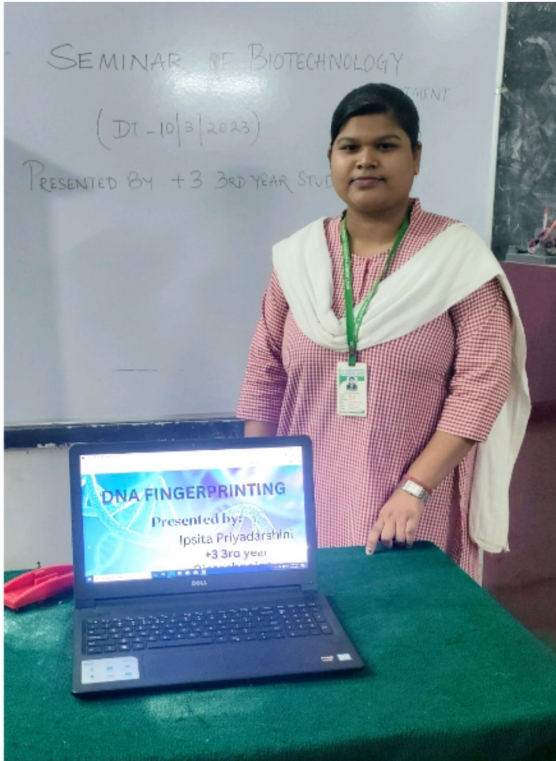
RIRI



❖ EXTRA CURRICULAR ACTIVITIES BY STUDENT



❖ SEMINAR (PRESENTATION) BY +3 3RD YEAR STUDENTS 2023





BIOTECHNOLOGY