DEPARTMENT AT A GLANCE

Mission

Mission of the chemistry department is to provide excellent education integrated with ethics, values, equality and social responsibilities. To make the students aware of their future prospects. To encourage students to read critically, reason analytically, communicate persuasively and apply professionally.

Vision

The Chemistry Department is dedicated to educate the students with excellence on the field of chemistry so that they can compete in and contribute to the ever-changing technology centered world. The department is committed to achieve this by providing comprehensive, relevant curriculum at the UG level to produce knowledgeable graduates. To nurture the UG students through quality education in terms of classroom teaching, experimental laboratory training and research. The courses are designed in such a way that the students will be able to utilize their chemistry knowledge to develop innovative environmental benign technologies for the welfare of society and nation.

Brief Overview

The department of chemistry was established in the year 1992 at UG level with an objective of providing quality education in Chemical Science creating exceptional learning environment. The department offers undergraduate courses with Chemistry as Honors and elective. With 1 regular and 2 guest faculties, the department presently has 8 UG students. The department has one laboratory possessing necessary chemicals and basic instruments for performing experiments in physical, inorganic, analytical and organic chemistry. The department strives to achieve its prime objective to produce and train technical and scientific personnel.

Courses offered

Course name	Strength	Duration	Syllabus
B Sc.	16	3 Years	Link

STAFF PROFILE

Name	Designation	Qualification/ Teaching experience	Email id & Mobile no	Passport Photo
Dr Bhagyashree Pani	Lecturer	PhD 5 Years	panibhagyashree@yahoo.in +919938245140	
Mrs Mansi Sahoo	Lecturer	MSc BEd, MBA (finance) 3 Years	mansisahoo0602@gmail.com 7978350366	
Mrs Susmita Mohapatra	Lecturer	MSc Bed 6 Years	sus8543@gmail.com 7008230880	
MrPitabas Pradhan	Demonstrator	BSc	6371442063	
Mrs Manjubala Jena	Lab Attendant	Intermediate	8917647576	

STAFF ACHIEVEMENTS

Dr. Bhagyashree Pani

A) Academic

Doctor in Philosophy (PhD), Chemistry,

Thesis Title: Synthesis & Characterization of Kesterite thin film solar cell absorber layers

B) Award/Fellowship

INSA Visiting Scientist Fellow in my lab (IBNL) at School of Physical Sciences, National Institute of Science Education & Research (NISER), Bhubaneswar from 15/07/2022 to 17/10/2022.

Project Title- Photocatalytic Dye degradation by green synthesized metal sulphide based semiconductor nanoparticles

C) Seminar

Paper titled "Enhanced photocatalytic activity of Mn doped CdS for the degradation of methylene blue" presented in National Conference at Berhampur University 2023

D) FDP

21 days DBT Skill Vigyan sponsored Faculty Development program from 23-8-21 to 13-9-21at Indian Institute of Life Sciences Bhubaneswar

E) Research experience

Research fellow in DAE (Delhi) sponsored project (March-2011 to October-2011), Hydrometallurgy department, Institute of Minerals & Materials Technology, Bhubaneswar, Orissa,

F) List of publications (International Journals)

- 1. J. Renewable Sustainable Energy 5, 2013, 053131-1-9, AIP Publishing,
- 2. Journal of Alloys & Compounds, 648, 2015, 332-337,
- 3. Material Science in Semiconductor Processing, 50, 2016, 55-60,
- 4. Materials Today: Proceedings, 4, 14, 2017, 12536-12544,
- 5. Journal of Materials Science: Materials in Electronics, 27, 12, 2016, 12412-12417,
- 6. Journal of Alloys and Compounds, 708, 2017, 181-186,
- 7. Advanced Materials Manufacturing & Characterization Vol 3 Issue 1 (2013), 177-182

- G) Book chapter
- Structural and Optoelectronic Properties of Nano Carbons Synthesized by Simple Pyrolysis of Bamboo, Biofuels and Bioenergy (BICE) 2016, 299-303, Springer International Publishing, Springer Proceedings in Energy
- H) Training
- Participated in a 5 das workshop on Liquid Chromatography MASS spectrometry for analysis of drugs and explosives from 10-14 dec 2018 at LNJN NATIONAL INSTITUTE OF CRIMINOLOGY AND FORENSIC SCIENCE, NEW DELHI
- 2. Visited NATIONAL DOPING TEST LABORATORY, NEW DELHI for practical training on Liquid Chromatography MASS spectrometry

<u>Mrs Manasi Sahoo</u>

3 Years teaching experience at Project- Competitor and Consumer analysis Seminar

<u> Mrs Susmita Mohapatra</u>

6 Years of Teaching experience at Jaydev College, BBSR

Seminar- 36th Annual Conference, Odisha Chemical Society, 2022

CONTRIBUTION TO THE DEPARTMENT OTHER THAN TEACHING

Mentoring students for higher studies and career

Imparting Lab training/ Hands on experience with basic equipment

Extra-curricular activities

Providing notes and question bank to students

Instrumental in collaborating with CIPET (Central Institute of Plastic Engineering Technology), Bhubaneswar for an MOU to train students in Polymer Science

Guiding students on a study tour -cum-industrial visit to CIPET (Bhubaneswar)

TEACHING METHOD

- Chalk Board
- Projector
- Computer/Laptop
- Online Zoom classes
- Laboratory experiments

ACADEMICIAN/SCIENTIST VISITED THE DEPARTMENT

1. Mr Debidatta Das

Assistant Professor

- J K B K College, Cuttack, Odisha
- 2. Prof. Dr Jawed Alam

PUBLICATION LIST								
S. No.	Year of publication	Title of paper	Name of journal	Volume and Page numbers	ISSN/e-ISSN, if any			
1	2017	Enhancement of physical properties of vacuum processed Cu₂ZnSnS₄ thin film by Thiourea treatment	Journal of Alloys and Compounds,	708, 2017, 181- 186	ISSN: 0925-8388			
2	2017	Comparative study of kesterite thin films prepared from ball milled precursors varying in chalcogens	Materials Today: Proceedings,	4, 14, 2017, 12536-12544	ISSN: 2214-7853			
3	2016	Impact of capping during the formation of Cu2ZnSn(S,Se)4 thin films,	Material Science in Semiconductor Processing,	50, 2016, 55-60,	ISSN: 1369-8001			
4	2016	Kesterite based thin film absorber layers from ball milled precursors	Journal of Materials Science: Materials in Electronics,	27, 12, 2016, 12412-12417	0957-4522			
5	2015	Impact of pre-annealing temperature on the formation of Cu₂ZnSnS₄ absorber layer via two-step annealing	Journal of Alloys and Compounds,	648, 332-337	ISSN: 0925-8388			
6	2013	Preparation of Cu₂ZnSnS₄ thin film by a simple and cost effective route using metallic precursors and effect of selenization on these films	Renewable Sustainable Energy	5, 2013, 053131-1-9	ISSN 1941-7012			
7	2013	Metallic Silver from Leach Liquor: A New Approach for Silver Nano Metal Synthesis	Journal of Advanced Materials	3(1), 177-182	ISSN: 2347-1891			