

# SCHOOL OF SCIENCE OP JINDAL UNIVERSITY, RAIGARH

## QUARTERLY REPORT

July - September 2024

*Knowledge  
forLife*



## Contents

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<b>Guest lecture/ Expert Talk Organized</b> .....	3
<b>Research Activities</b> .....	3
Paper Publication.....	3
Book Publication .....	4
<b>Awards &amp; Recognitions</b> .....	4
<b>Outreach Activity</b> .....	5
Career awareness & guidance session conducted at MSP Public School, Jamgaon.....	5
Innovation sensitization session conducted at OP Jindal School, Taraimal .....	5
Teacher’s training camp organized at Kharagpur .....	6
Career guidance session conducted at Kharagpur .....	6
<b>Co-Curricular Activities</b> .....	6
<b>Club Activity</b> .....	8
<b>Student’s Achievements</b> .....	10
Convocation 2024.....	10
Research & Innovation .....	11
Placements .....	12
Selections in HEI’s .....	13
<b>Welcome to SoS family: Mr. Shivam Pandey</b> .....	13

## Guest lecture/ Expert Talk Organized

- Department of Physics, School of Science, OPJU organized an expert talk on “Opportunities of Higher Studies in Abroad” on 13<sup>th</sup> September 2024. Dr. RS Singh, Sr. Associate Professor, Department of Physics, SoS, OPJU delivered the session and made the UG and PG pursuing students aware of the avenues for further studies and research in overseas universities.



## Research Activities

### Paper Publication

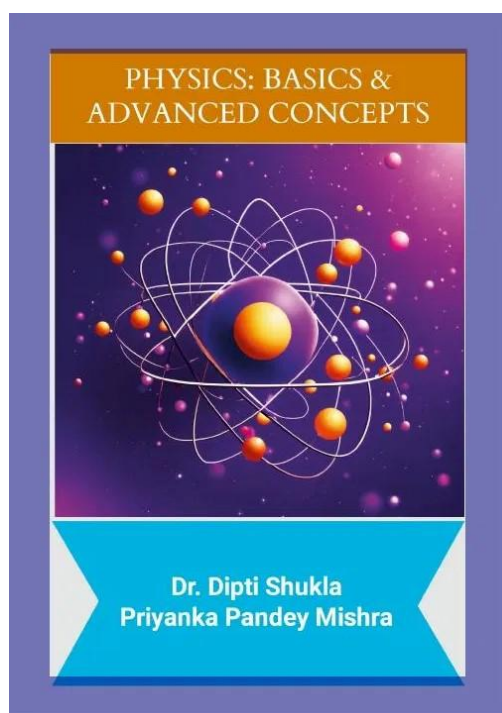
- Dr. G C Mishra, Professor, Department of Physics published a research article entitled “Synthesis and Luminescence Properties of  $\text{CaZr}(\text{PO}_4)_6:\text{RE}$  ( $\text{RE} = \text{Eu}^{3+}, \text{Dy}^{3+}$ ) orthophosphate phosphor for n-UV solid-state lighting prepared by solid state synthesis” in Journal of Optics, August 2024. <https://doi.org/10.1007/s12596-024-02149-6>
- Dr. Kavita Patel, Assistant Professor (Sr), Department of Chemistry published a research article entitled “Novel idea and approaches of sanitizer preparation from Indian Herbs and their action” in International Journal of Research Publication and Review, Volume 5, Issue 8, 2024.



- Dr Dipti Shukla, Associate Professor, Department of Physics, School of Science published a Book Chapter entitled "Wireless of Technologies and the Internet of Things" has been published in the Research Contemplation: A Multidisciplinary Approach Book, Morrisville North Carolina US international, Lulu Publication. ISBN 978-1-304-23241-0
- Dr. Taniya Sengupta Rathore, Associate Professor Department of Biotechnology, School of Science published an edited book entitled “Biological Resources for Sustainable Research” Thanuj International Publishers, Tamilnadu, India
- Dr R S Singh, Sr Associate Professor, Department of Physics, School of Science published a book chapter entitled “Carbon Nanostructure Functionalization for Electromagnetic Shielding Applications”, in Springer book “Handbook of Functionalized Carbon Nanostructures” (ISBN: 978-3-031-14955-9) [https://doi.org/10.1007/978-3-031-14955-9\\_56-1](https://doi.org/10.1007/978-3-031-14955-9_56-1)

### Book Publication

- Dr Dipti Shukla, Associate Professor, Department of Physics, School of Science, OPJU published a book entitled “**Physics: Basics & Advanced Concepts**” CRIS Publication (ISBN-13: 978-81-979445-4-3)



### Awards & Recognitions

- Mr. Hemanth Kumar, Lab Assistant, Department of Biotechnology, School of Science won the National level online quiz competition on “Vector Vibes: Mosquitoes and their diseases” organized by Department of Microbiology, PES’s Ravi S. Naik College of Arts and Science, Ponda, Goa in association with Microbiologist Society, India held on 23<sup>rd</sup> August 2024.

- Ms Suchismita Panda, Assistant Professor, Department of Humanities, School of Science, OPJU successfully defended viva-voce of her Ph.D. thesis entitled “**Burden of Urban Calcutta in Select Works of Mani Sankar Mukherji**” on 30<sup>th</sup> August 2024.



## Outreach Activity

Career awareness & guidance session conducted at MSP Public School, Jamgaon  
 Dr. S. K. Singh, Professor, Department of Humanities, School of Science, OPJU conducted a career counselling session on "**Personality Development and Success Through Active Listening and Positive Attitude**" for the students and a Teachers' Training Programme for the teachers of MSP Public School, Jamgaon, Raigarh on 31<sup>st</sup> August 2024.



Innovation sensitization session conducted at OP Jindal School, Taraimal  
 Session on Innovation as Innovation Ambassador MIC AICTE for 11<sup>th</sup> and 12<sup>th</sup> students of OP Jindal School, Taraimal was conducted by Dr Taniya Sengupta Rathore on 21<sup>st</sup> July 2024.



## Teacher's training camp organized at Kharagpur

Prof. Suchismita Panda, Assistant Professor, Department of Humanities, School of Science organized Teacher's Training Camp on 17<sup>th</sup> July 2024 held at Shri Ramakrishna Mission Ashram Vidyapeeth (Higher Secondary School), Egra, Kharagpur, W.B. in which around 150 Principals and Teachers participated



## Career guidance session conducted at Kharagpur

Dr Arindam Patra, Assistant Professor, Department of Humanities, School of Science, OPJU conducted a career Guidance and Counselling session at BNR Academy of Excellence (South Eastern Railway) School, Kharagpur, W.B for the students of 12<sup>th</sup> standard Science, Arts and Commerce streams on 15<sup>th</sup> July 2024



## Co-Curricular Activities

- Department of Biotechnology, School of Science, OPJU in association with Microbiologist Society of India (MSBI) Student Chapter organized National Rangoli Competition 2024-25 on the theme "Morphology of Microorganism" on 6th September 2024





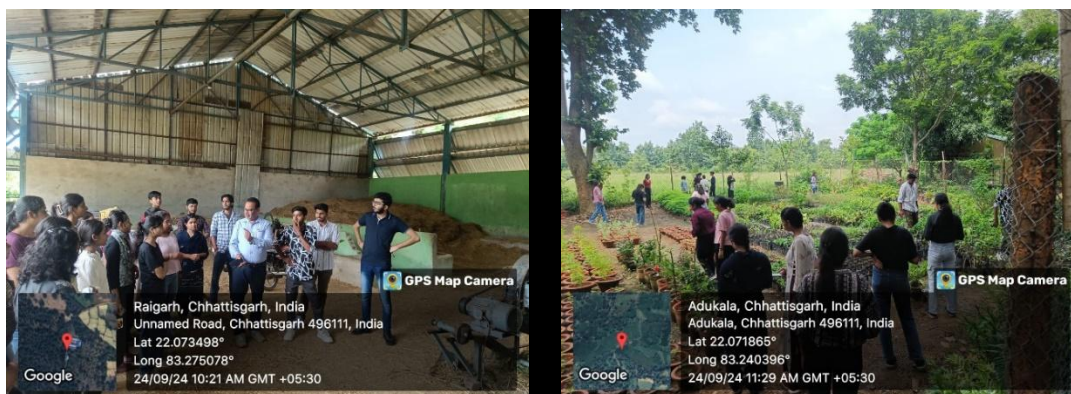
- National Service Scheme (NSS) OPJU in association with Centre of Social Empowerment, OPJU organized an essay writing competition on the theme “**Drug Addiction Among the Youth: Prevention & Control**” on 11<sup>th</sup> September 2024 and Poster making Competition on the theme “**Say No to Drugs**” on 13<sup>th</sup> September 2024.



- BSc (H) Biotechnology 3<sup>rd</sup> semester students visited Shivangi Pariyojna JSP which is a Sanitary napkin making organization on 12<sup>th</sup> September 2024. They explored the process manufacturing sanitary napkins.



- BSc (H) Biotechnology 1<sup>st</sup> semester students visited Rabo dairy processing and Horticulture department on 24<sup>th</sup> September 2024.



- An Essay writing competition on ‘Advancements in Industrial Biotechnology’ was organized under the Microbiology Society of India (MBSI) student chapter by Department of Biotechnology, School of science on 30<sup>th</sup> August 2024.



- NSS in association with Centre for Social Empowerment, OPJU organized a poster and video making competition on the theme “Say No to Ragging” on 12<sup>th</sup> & 13<sup>th</sup> August 2024, respectively.

## Club Activity

- Department of Mathematics in association with Technical Club (Tech X) organized a 5 lecture series on Vedic Mathematics from 9-12 September 2024. Ms Udita Singh Thakur, MSc 1<sup>st</sup> Year Mathematics student conducted the sessions.





- Literary Club (Upashana), School of Science organized a story telling competition to promote and inculcate the ability of creative thinking, communication and presentation skills, and self-confidence among the students on 13<sup>th</sup> September 2024.



- Social Empowerment Club, School of Science of OP Jindal University, Raigarh in association with ICC organized an Invited talk on ‘**Right of Private Defence under Bhartiya Nyaya Sanhita 2023**’ on 2<sup>nd</sup> August, 2024. The resource person of the session was Mr. Santosh Kumar Naik, Assistant Professor (Law), Government Paluram Dhanania Commerce and Arts College, Raigarh.



- Adventure Club (Parakram) organized an activity “**Nature Quest**” on 25<sup>th</sup> July 2024 with the newly joined students of the School of Science, OP Jindal University as a part of the Freshmen Batch Induction Programme 2024





## Student's Achievements

### Convocation 2024

Heartiest congratulations to the medallists and Graduates of the School of Science on the successful award of Bachelors of Science (Honours) in Physics, Chemistry & Mathematics and Masters of Science in Physics & Chemistry degrees in the 4th convocation of OP Jindal University held on 5<sup>th</sup> August 2024.

**OPJU** CONVOCAION Ceremony 4 August 2024

# Congratulations!

**Distinct Achievers**  
School of Science

**M.Sc. Chemistry**

- Vikramani Kulkarni Gold
- Bharna seni Silver
- Shobkarani Yadav Bronze

**M.Sc. Physics**

- Priya Saha Gold
- Dushali Patel Silver
- Anjali Parthar Bronze

**OPJU** CONVOCAION Ceremony 4 August 2024

# Congratulations!

**Distinct Achievers**  
School of Science

**B.Sc. (Hons) Chemistry**

- Amit Ghazirjee Gold
- Kiran Rathore Silver
- Isha Verma Bronze

**B.Sc. (Hons) Mathematics**

- Dipti Chandra Gold
- Ishan Hargunani Silver
- Anjali Patel Bronze

**B.Sc. (Hons) Physics**

- Rishav Raj Gold
- Sneha Ponda Silver
- Ansh Doshi Bronze



## Research & Innovation

BSc (H) Biotechnology & Chemistry student innovators from School of Science participated in the prestigious AICTE IDE Bootcamp held at IIM Sambalpur and MGM University, Aurangabad from September 23-27, 2024



- Ms. Mahak Acharya and Ms. Shruti Kumari, B.Sc. (Hons) Biotechnology 5th semester students of participated in a 3-days boot-camp organized by AIC, IIT Delhi Sonipat Innovation Foundation, Haryana on 24<sup>th</sup> August 2024. They were selected for Sonipat Startup Summit 3.0.



- Ms Vijaylaxmi Kaiwariya, MSc Chemistry 4<sup>th</sup> semester student secured 1<sup>st</sup> position in poster presentation on “Solid State Synthesis of Nickel Ferrite and their Characterization” at International e-Conference on Multifaceted Application of Biotechnology and Applied Sciences (e-COMBAS 1.) held during 26- 28 July 2024 organized by EduLeviat Pvt. Ltd. – A MSME Udyam and Startup India registered company.



- Antara Mukherjee, student of BSc(H) Biotechnology 3<sup>rd</sup> semester, secured 1<sup>st</sup> position in National level poster competition on Stewardship for clean healthy rivers organized by Microbiologists Society, India on 15 June, 2024.



## Placements

- Ms Chetna Patel (BSc Hons Mathematics) and Ms Kiran Rathore (BSc Hons Chemistry) selected in Vedanta at Jharsuguda and Lanjigarh locations, respectively.



## Selections in HEI's



## Welcome to SoS family: Mr. Shivam Pandey

Mr. Shivam Pandey joined School of Science, OPJU on 23<sup>rd</sup> July 2024 as an Assistant Professor in the Department of Biotechnology. He pursued his PhD (thesis submitted) from Amity University, Chhattisgarh on "Design and development of biodegradable electrospun nanofiber mats for potential biomedical applications". He did his MSc in Biotechnology from Guru Ghasidas central University, Bilaspur, and BSc in Biotechnology from St. Aloysius College, Jabalpur. He has published 4 research article (2 submitted), 2 review articles, 7 book chapters in various journals of repute (SCI, SCIE & Scopus), and published 2 patents. He has 2.5 years of teaching experience.

