

SCHOOL OF SCIENCE OP JINDAL UNIVERSITY, RAIGARH

QUARTERLY REPORT

July - September 2023

*Knowledge
forLife*



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Release of School of Science Newsletter “UNMESH” on 23rd August 2023

Unmesh has been released on the remarkable occasion of the Induction programme-2023 on 23rd August by Hon'ble Vice Chancellor, Dr. R D Patidar, Shri Kaushal Sharma, Unit Head, SSD-JSP Punjipathara, Prof. Anurag Vijaywargiya, Registrar OPJU and Dr. Girish C Mishra, Associate Dean - School of Science. This newsletter showcases the dedication and hard work of all the faculty and staff members along with the students of the School of Science, OP Jindal University. The newsletter can be accessed through the following link: <https://lnkd.in/dTkrZpg8>



Training, Workshops & Expert Talks Organized

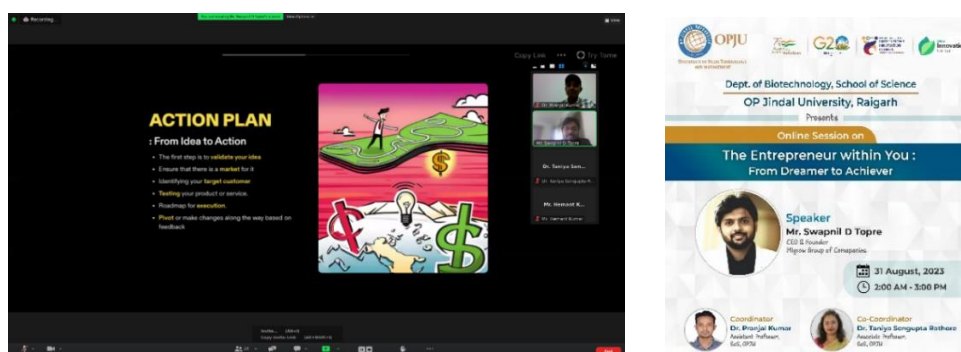
- **One-Day Workshop on “Mental Wellbeing & Stress Management” on 29th of August, 2023**

The School of Science in association with Academic Staff College and the Institution's Innovation Council, OPJU organized a one-day workshop on “Mental Wellbeing & Stress Management” on 29th of August, 2023. The resource person of the session was Dr. Ashish Kumar Panda, Deputy Secretary, NITI Aayog, New Delhi, Govt. of India. He delivered a well-informative session on the challenges and present scenario of individuals in the society triggered by this issue and the pathways to get rid of these threats taking personal measures as well as various initiatives taken by the government. He ended the session with a strong message to the audience that everyone must have ‘Patience’ in difficulties and loneliness; and ‘Attitude’ can change one's life amid plenty of successful accomplishments and achievements.



- **Expert talk on The Entrepreneur within You: From Dreamer to Achiever on 31st August 2023**

Department of Biotechnology, School of Science organized a talk by Mr. Swapnil D Topre, CEO & Founder, Migrow Group of Companies, Pune, Maharashtra on “*The Entrepreneur within You: From Dreamer to Achiever*” in online mode on 31st August 2023.



- **Online expert session on "Innovation and Startup Ecosystem Enabler" on 26th of August, 2023**

Institution's Innovation Council (IIC) in association with OPJU Eco Club and the School of Science organized an online session on "Innovation and Startup Ecosystem Enabler" on 26th of August, 2023. The resource person of the session was Mr. Ravi Sharma, Director, Global Healthcare Survey; Founder and CEO-Visok Advisors. A good number of participants including students and faculty members of SoS participated in the event.



Paper & Book Publication

- **Kavita Patel, Kusumlata Khunte, Poonam Thawait, *An Overview on Chemical Aspects and Potential Health Benefits of Andrographolide*, European Chemical Bulletin, 12 (Special Issue 7), 8429–8438, 2023.**
- **R.S. Singh, A.K. Singh, A. Gautam, V. Rai, M.K. Jha, *Modeling and Simulation of Thin Film InP/GaAs Dual Junction Solar Cells*, Iranian Journal of Chemistry and Chemical Engineering (2023). DOI: 10.30492/IJCCE.2023.563052.5625**
- **R.S. Singh, R.D. Patidar, A.K. Singh, K. Deshmukh, K. Thakur, A. Gautam, *Simple Thermal Annealing Assisted Direct Synthesis and Optical Property Study of CuO Nanoparticles Incorporated PVA Films*, Physica Status Solidi (a), Vol 220, Issue 17, 2023. DOI: <https://doi.org/10.1002/pssa.202300328>**
- **B. Kumar, R. S. Singh, Grover, K.R. Isabels, A. Garg, B.C. Dattatraya, *Analysis of Mathematical Modelling Deterministic and Stochastic Problems in Federated Learning*, 3rd International Conference on Advance Computing and Innovative Technologies in Engineering (ICACITE), IEEE, 2023, pp. 1700-1704. DOI: 10.1109/ICACITE57410.2023.10183114**
- **D. Samal, M. R. Mishra, A. Kalam, *An EOQ model for Time dependent deterioration with exponential demand and shortages*, European Chemical Bulletin, July 2023, DOI: 10.48047/ecb/2023.12.10.1012023.22/07/2023**
- **Dr. S. K. Singh, Professor, Department of Humanities, School of Science, OPJU published a Text Book entitled *Business Communication & Correspondence*, Alpha International Publication (ISBN No.: 978-93-5762-134-2).**
- **M. R. Mishra, Dr Debasmita Samal and Dr Saumya Singh, *Laplace Transform Approach for an Impulsively Moving Plate on a Copper-Water Based Magneto-***

Nanofluid with Isothermal and Ramped Temperature, China Petroleum Processing and Petrochemical Technology (SCIE, Scopus), Volume 23, Issue 2, September 2023.

- **Dr Debasmitta Samal** and **M. R. Mishra** published a research article entitled “*A Ramp-Type DeteriorationEOQ Model with On-Hand Inventory*” in *Kepes* (International Multidisciplinary Journal) (Scopus), Volume 21, Issue 3, September 2023, 763-771
- **Suchismita Panda**, Assistant Professor, Department of Humanities, School of Science published a book chapter entitled “*Navigating Neoliberal Ethnicity in Sankar’s The Middleman*” in an edited book, *English Literature: Texts, Contexts and Concepts*, edited by Anurag Ambasta and Surendra Kumar Sao, Malik and Sons, 2023, pp. 249-259. (ISBN:978-93-92459-13-9)

Talk Delivered

- **Dr. R S Singh**, Sr. Associate Professor, Department of Physics, School of Science delivered an invited talk entitled “Graphene Derived from Shellac for Applications in Energy Conversion and Storage Devices” held on September 18, 2023 in Austin, Texas, USA.
- **Dr. Sanjay Kumar Singh**, Professor, Department of Humanities, School of Science delivered 3 sessions as resource person in ten days training programme on “Communication Skills & Personality Development” during 10-21 July 2023 at KNK, College of Horticulture, Mandsaur (MP).

Doctor of Philosophy (Ph.D.) Degree Awarded

Final defense / Viva-Voce of Ph.D. scholar **Mr. Sushant Rajendra Bargat**, Department of Physics, School of Science for his thesis entitled “*Spectroscopic investigation of sulphate based luminescent phosphors*” on 6th September 2023.



School of Science Faculty Felicitation

On the occasion of the Faculty Retreat and Felicitation Ceremony-2023, most of the faculty members of OPJU were awarded for their outstanding contribution to research and innovation on Sept. 9, 2023. On the second day of this grand event, Hon'ble Vice Chancellor Dr R.D. Patidar, and Registrar OPJU along with the Deans, Directors, and Heads of the Departments felicitated the faculty members with Appreciation certificates and monetary benefits.

A galaxy of faculty members including the Dean, Faculty of Science, Dr Girish C Mishra, and Dr Sanjay Singh, Dr R S Singh, Dr Dipti Shukla, Prof. Manas Mishra, Dr Saumya Singh, Dr Swati Verma, Dr Debasmita Samal, Dr Ankur Rastogi, Dr Deepak Patel were recognized for their excellent achievements.

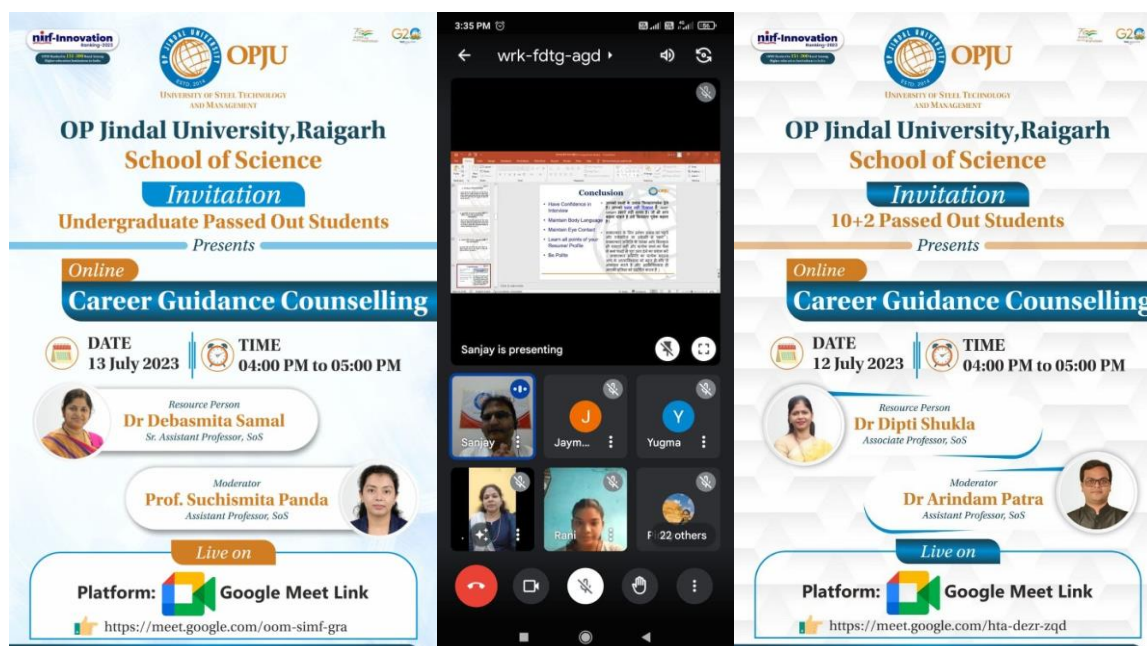


Open House and Counselling Sessions Organized

- The School of Science, OP Jindal University organized two Open House and Career Guidance Seminars recently at Chandrapur (7th July 2023) and Sarangarh (8th July 2023) for prospective students. Both the open house seminars were hugely successful with the overwhelming responses of the students and their parents/ guardians.



- School of Science organized an online "Career Guidance Counselling" session on 3rd, 12th & 13th July 2023 for the prospective UG & PG students who will begin their journey in higher education.



Faculty Achievements

- Dr. G. C. Mishra, Associate Dean SoS & Professor Department of Physics and Dr. S. K. Singh, Professor, Department of Humanities, School of Science, OPJU were appointed as the member of the selection Committee as subject experts for the recruitment of Assistant Professor at Gondwana University, Gadchiroli, Maharashtra.

FDP attended/ participated

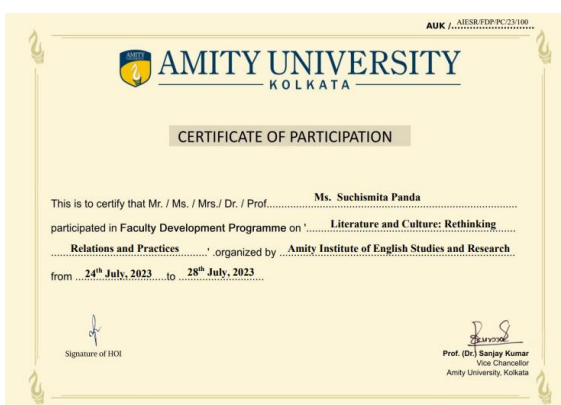
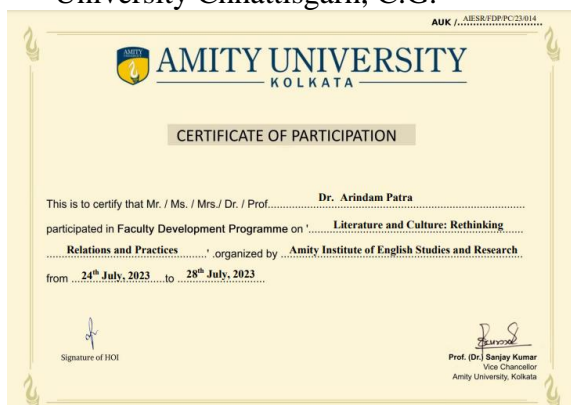
- Dr. Taniya Sen Gupta participated in the 5 days' International Faculty Development Program on Recent Advancement in Nutraceuticals held during 18th – 22nd September 23 organized by Galgotias University.



- Dr Arindam Patra and Prof. Suchismita Panda attended a Five-Day Faculty Development Programme on “**Literature and Culture: Rethinking Relations and Practices**” held on 24-28 July 2023 organized by Amity Institute of English Studies and Research, Amity University Kolkata, W.B.

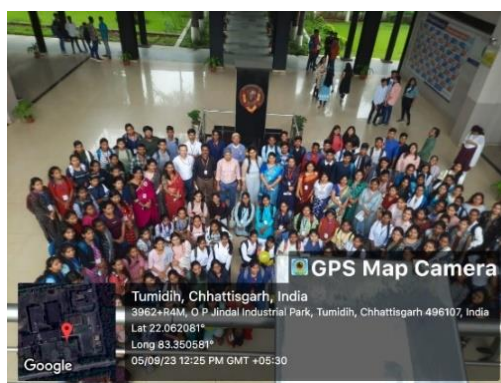


- Dr Arindam Patra and Prof. Suchismita Panda attended a Five-Day Faculty Development Programme on “**Global Perspectives in Literature and World Cinema**” held on 10-14 July 2023 organized by Amity School of Languages, Amity University Chhattisgarh, C.G.



Teacher’s Day Celebration

The students of School of Science celebrated Teachers’ Day with great enthusiasm and fervour. Students showcased spectacular cultural performance during the celebrations.



Students' Activities @ SoS

- School of Science organized a fun filled activity on 16th September 2023 to provide a well-rounded education by fostering skills and attributes beyond academic knowledge. The activity was planned and executed by students of SoS.

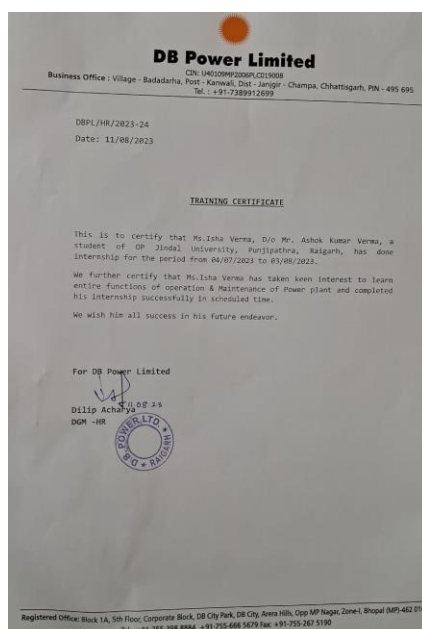


- School of Science organized an Intra-School Carrom Tournament aligning with the objectives of the Sports Club, OPJU on 27th September 2023. The objective of the activity is to promote physical health and fitness for the overall development and well-being of students.



Student's Achievements

- Three students of SoS did their internships for the duration of 1/3 months:
 - Isha Verma, B.Sc. (H) 4th Chemistry at DB Power Ltd., Jajgir Champa, 1 Month
 - Chetna Patel, B.Sc (H) 4th Mathematics at Guru Drona Higher Sec. School, Raigarh, 1 Month
 - Shomya Sinha, B.Sc (H) 2nd Biotechnology at SPZ Solution Pvt. Ltd., 3 Months



- Ms Sheenat Chawla & Ms Muska Singh, the students of BSc (H) Biotechnology, SoS secured first position in the poster and PPT presentation competitions, respectively organized by School of Engineering on the occasion of the celebration of Engineer's Day on 15th September 2023.



- Ms Isha Verma (B.Sc. Hons Chem.) and Ms Vijaylaxmi Kaiwartya (M.Sc. Chem) won 1st and 2nd Prize, respectively in the Poster Making Competition organized by NSS, OPJU on the theme - India after Independence: A Glorious Journey.



Student's Testimonials

 <p>Dipti Chandra B.Sc. (Hons.) Mathematics</p> <p>The School of Science, OPJU offers a wide range of well-structured and comprehensive academic programs, ensuring a strong foundation in various fields of study with highly qualified and experienced faculty members who are passionate about teaching and supporting their students. They possess deep knowledge in their respective fields and are always willing to assist students inside and outside the classroom. The university provides excellent laboratory facilities equipped with modern equipment and technologies. These well-maintained labs offer hands-on experience and practical learning opportunities, enhancing our understanding of theoretical concepts and helping us to develop essential skills. With the support and guidance of the faculty members of the School of Science, I attended twenty days Summer Outreach Program in Mathematics organized by the National Institute of Science and Research, Bhubaneswar, and I got selected for Mathematics Training and Talent Search Program 2023 organized by IIT Madras. The School of Science, OPJU is the best place to build a bright future.</p>	 <p>Mahak Acharya B.Sc. (Hons.) Biotechnology</p> <p>OP Jindal University is a milestone in the field of higher education. It is one of the best universities in central India catering holistic education and knowledge. It is well established with excellent infrastructure (classrooms, laboratories, library, gymnasium), security, and recreational facilities. We have opportunities to learn from experienced faculty members, engage in intellectual discussions with peers, and gain insights from outside experts in various fields. I achieved incubation from OIC, secured third rank in a poster presentation competition on the occasion of National Conservation Day, and got selected in an innovation boot camp by the Ministry of India in ISSER Bhopal under the guidance of Dr. Tanya Sengupta Rathore, Associate Professor, School of Science. As university life is a transformative period for all of us, accordingly OPJU shapes our intellect, broadens our perspective, and equips us with the necessary skills to navigate the complexities of the world.</p>
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Rashmi Katzu
B.Sc. (Hons) Biotechnology

The School of Science, OPJU always believes in helping and guiding its students from all aspects. Regular academic and extra-curricular activities are held properly to enhance our skills and give us a great opportunity to broaden our theoretical and practical knowledge beyond the field of studies within a global multi-cultural environment. The friendly attitude of our mentors and their willingness to always offer a helping hand made me feel like an integral part of the SoS family. The course helps in building up a strong base for my career. It provides me with a platform and gives me a great opportunity to participate in a national innovation fest. The academic experience with excellent faculty members, laboratory infrastructure and environment always encourages me for a lifelong interest and career in this field.

On-boarding of New Faculty

Dr. Manik Das



Dr. Manik Das joined School of Science, OPJU on 21st September 2023 as an Assistant Professor in the Department of Mathematics. He obtained B.Sc. (honors) in Mathematics from University of Calcutta, WB, M.Sc. in Mathematics from Visva-Bharati Central University, West Bengal and PhD in Mathematics from NIT Meghalaya. He has 4.5 years of research experience and his area of research is Non-Newtonian fluid flow, MHD, Porous media. He has published seven research articles/papers in various journals of repute (SCI, SCIE & Scopus) and one book chapter with Springer. He has attended around thirteen national and international workshops, conferences, and webinars. He has qualified GATE & CSIR-NET in 2018 and received various awards and recognitions.