

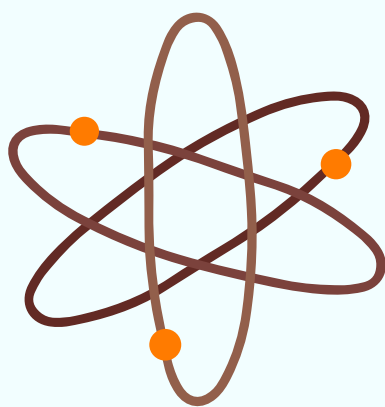


OPJU

UNIVERSITY OF STEEL TECHNOLOGY
AND MANAGEMENT

Vol.1, Issue 2

UNNMESH



Newsletter 2024

SCHOOL OF SCIENCE



OP Jindal University, Raigarh (C.G.)

Message of the Vice Chancellor

Dear Members of the School of Science at OP Jindal University, As we stand on the precipice of transformative growth, the School of Science is a beacon of dedication and passion. In the coming year, we anticipate new opportunities, challenges, and milestones. I take immense pride in witnessing our students embark on their educational journey, our faculty delve into research endeavors, and our staff tirelessly support the fabric of our institution. Our commitment to academic excellence, diversity, and inclusivity remains unwavering. We are resolute in our pursuit of knowledge that transcends boundaries, creating a lasting impact on society. This ethos propels us forward, igniting a passion for learning and discovery within our vibrant community. The School of Science, though the youngest, stands out as a unique institution with 100% of its faculty holding Ph.D. degrees. We offer cutting-edge programs that focus on the latest technologies and advancements. The top-notch laboratory facilities and advanced scientific instruments provide an enriching environment for hands-on learning. Our emphasis on cultivating soft skills, employability skills, and offering value-added courses reflects a holistic approach in preparing students for the dynamic global professional landscape. The dedication of our faculties and staff to foster students, empowering them with knowledge, and blending both academic and practical skills is commendable. We are not merely focused on education; we are shaping individuals who can excel in their careers and contribute meaningfully to society. As we embark on this exciting journey together, I extend my gratitude to each one of you for your dedication and unwavering support. Your contributions are integral to the success and vibrancy of our university. I have faith in the potential impact of the education imparted by the School of Science, likening it to seeds that will grow into mighty trees in society—a powerful and optimistic vision.



Dr. R. D. Patidar
Vice-Chancellor

Message of the Dean, SoS

I am immensely happy to present the Second Issue of the First Volume of the Newsletter UNMESH in the New Year 2024. The Year 2023 has been one of the exceptionally fruitful years for the School of Science witnessing outstanding numbers of new admissions from various corners of the state and the neighboring states, students' outstanding achievements in various spheres, excellent showcase of talents through club activities in different domains, industrial visits and many more that proves the motion of the School in the right and prospective direction. The School of Science has been growing at a rapid pace since its inception based on its strong four pillars: outstanding faculty embers, students, relevant curriculum fulfilling the needs of the day, and world-class infrastructural facilities in the university. The school is determined and dedicated to molding the students into self-reliant, empowered, skilled, sincere, and responsible future citizens. Our dedicated faculty members are not only focused on developing the core knowledge of the students but consistently taking care of nurturing required skills like problem-solving, creative thinking, logical reasoning, and various soft skills among the students. Graduating students of the school have proven themselves by qualifying for National Level Eligibility Examinations, like IIT-JAM, securing placements in renowned organizations and companies like JSP, JPL, JSW, Vedanta, and others. I extend my heartfelt congratulations to all the stakeholders for their tireless and sincere efforts to bring SoS to this existing height and I am absolutely sure that more feathers of success are yet to be added.



Dr. Girish Chandra Mishra
Professor-Physics & Dean, SoS

Unveiling the School of Science

The School of Sciences started functioning in 2018, with the challenge of imparting good quality theoretical and practical education in disciplines of science; and plays a significant role in the development of the University. The School of Science offers undergraduate, postgraduate and Ph.D. programme in various disciplines of basic and applied science as well as in the field of humanities. The School is comprised of the Departments of Physics, Chemistry, Mathematics, Biotechnology and Humanities. Each department is engaged in ground-breaking research and the education of students from Undergraduates to Postgraduates and Research Activities. The present curriculum of the School of Science is structured to provide a common, broad-based foundation, imparting fundamental concepts and principles in science to develop students' intellect, research aptitude and ability to work collaboratively. The School of Science promises to nurture young minds by developing intellectual and providing professional faculties with service to the cause of society and prides itself as one of the leaders in providing quality Science education in Central India. Education can excel only if it is carried on with research. As per the vision and mission of the University, it is focusing on research and development initiatives. The School of Science is committed to be one of the leading centers of science education, facilitating its students to recognize their zeal and potential enabling them to achieve their academic and professional goals.

VISION

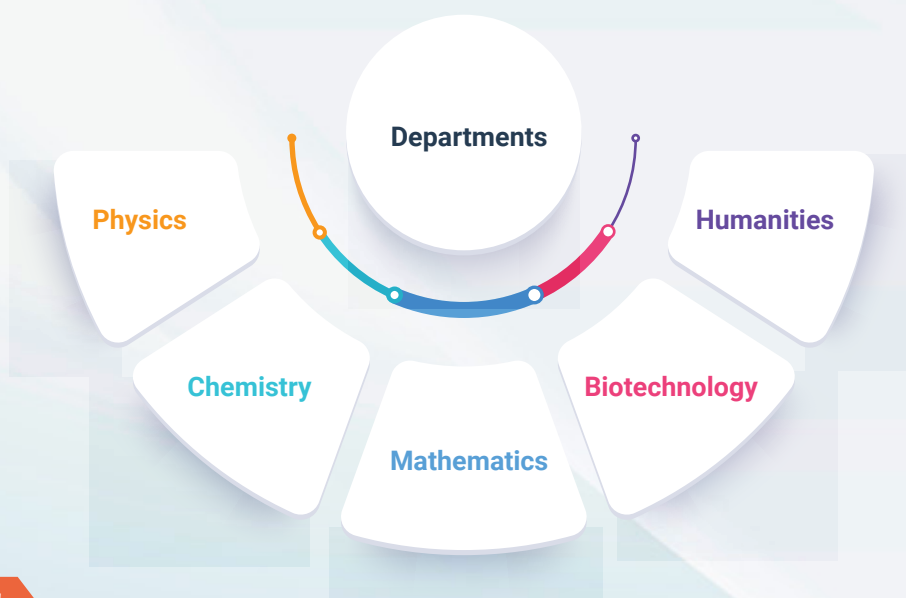
Become the epicenter of science education, research and innovation by creating and disseminating knowledge across the globe, and nurturing world-class scholars and ethical citizens to build a better future for all.

MISSION

To empower learning, unleash talent and lead a culture of creativity to solve global problems.

To advance science and promote excellence in teaching and research by nurturing a culture of experiential learning.

To groom students to be morally and socially responsible professionals who are sensitive to the larger societal good.



Programmes

Bachelor of Science B.Sc. (Hons)

B.Sc. (Hons.) Physics
B.Sc. (Hons.) Chemistry
B.Sc. (Hons.) Mathematics
B.Sc. (Hons.) Biotechnology
B.Sc. (Hons.) Data Science & Analytics

Master of Science

M.Sc. in Physics
M.Sc. in Chemistry
M.Sc. in Mathematics & Computing

Ph.D.

Physics
Chemistry
Mathematics
English

Insight, Advanced Labs & Research Clusters

Insights of SoS

- Highly qualified, potential and dedicated faculty members
- Faculty members having Ph.D. from national and international institutions of repute
- Research-Oriented and Industry-linked curriculum
- Interdisciplinary and collaborative learning environment
- Focus on developing problem solving, creative thinking and necessary skills in demand of the time
- Special focus on soft skills and computational skill development
- Strong career support and guidance for IIT-JAM, Bank-PO, CSIR-NET, PSC & UPSC

Advanced Lab Facilities

- High Sensitivity Fluorescence Spectrometer
- Electrochemical Analyzer
- Luminescence Research Lab
- Gunn Diode Set up
- Reflex Klystron Set up
- Automatic Polarimeter
- Fume Hood
- Digital Spectrophotometer
- Microbiology Laboratory
- Plant Tissue Culture Laboratory
- Genetic Engineering Laboratory
- Bio-Instrumentation Lab
- Data Mining Lab
- Data Scientist Toolbox
- Data Visualization Techniques

Core Research Areas

- Radiation Dosimetry
- Nanomaterials for Energy Storage
- Synthesis of Solar Cell & Solid-State Lighting Materials
- Laser Speckle Imaging
- Biomedical Optics
- Macrocyclic Chemistry
- Asymmetric Synthesis
- Medicinal Chemistry
- Microbial Enzymology
- Enzyme Kinetics
- LncRNA Biology
- Cancer Molecular Biology
- Environmental Biotechnology
- Graphene Synthesis

Research and Publications

- **G.C. Mishra**, *Lyoluminescence study of γ -ray irradiated Cu doped $YCa_4O(BO_3)_3$ microcrystalline phosphors for Radiation Dosimetry applications*, European Chemical Bulletin, 2023. doi: 10.48047/ecb/2023.12.si6.677
- **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.
- Rajani Patel, Renu Nair, **Kavita Patel** and Sandeep Kumar Tandon *Comparative Study of Physico-chemical Parameters of Ground water of Residential and Industrial area of Sirgitti in Bilaspur District* International Journal of Membrane Science and Technology, Vol (10) No. (4) pp 1128-1134. September 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>
- A. Gautam, **R. S. Singh**, P. Gautam, S. M. Hussain, V. S. Reddy, *X-Ray Photoelectron Spectroscopy and Tunable Photoluminescence Study of Gold Nanoparticles Embedded in PVA Films Luminescence 2023*. <https://doi.org/10.1002/bio.4607>
- B. Kumar, **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
- **Debasmita 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

- **M. R. Mishra, Debasmita Samal** and 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.
- **Debasmita Samal** and **M. R. Mishra** published a research article entitled *A Ramp-Type Deterioration EOQ Model with On-Hand Inventory* in Kepes (International Multidisciplinary Journal) (Scopus), Volume 21, Issue 3, September 2023, 763-771
- **S. Dewangan**, P. Mundeja, B. Deshpande, B. K. Dewangan, T. Choudhury and K. Kotecha, *Electronic Equipment Waste Generated by Computers and its Effect on Public Health in India*, 2023 7th International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Ankara, Turkiye, 2023, pp. 1-6, doi: 10.1109/ISMSIT58785.2023.10304954.
- P. Shrivastava **S. Dewangan**, et al., *Autonomic Computing Based Respiratory Disorders Assessment Using Speech Parameters: A Systematic Review*, 2023 7th International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT), Ankara, Turkiye, 2023, pp. 1-6, doi: 10.1109/ISMSIT58785.2023.10304972.
- **Dipti Shukla**, *Luminescence Properties of Ce doped Di- Calcium Magnesium Disilicate Ca₂MgSi₂O₇* Research Journal of Chemistry and Environment, Nov. 2023.
- **Dipti Shukla**, *Mechanoluminescence and Its Recent Applications*, Current Materials Science 2024; 17, DOI: 10.2174/0126661454252093231127102414

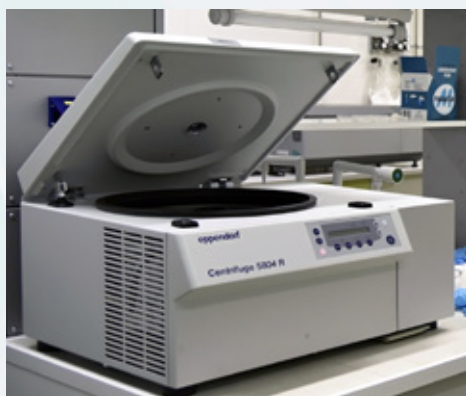
Book Chapter

- **Taniya Sengupta Rathore, Sahana Singh, Sheenat Chawla, Humaira Jasmin.** (2023). *CRISPR: An Advance Technique of Gene Editing*. Dr. R. B. Tripathi, Dr. R. Deepa, Dr. A. Kiruthiga. (Eds), Current Advances in Biosciences. India: Thanuj International Publishers. ISBN: 978-93-94638-64-8.
- **Suchismita Panda** (2023). *Navigating Neoliberal Ethnicity in Sankar's The Middleman*. Ambasta, Anurag and Surendra Kumar Sao (Ed.), *English Literature: Texts, Contexts and Concepts* (pp. 249-259). Malik and Sons Publishers, New Delhi. (ISBN:978-93-92459-13-9)
- **Taniya Sengupta Rathore** (2023). *Emerging Microbial Enzymes for Future Industrialization*. Angana Sarkar, Idris Andewale Ahmed (Eds), Microbial Products for Future Industrialization; Springer Nature.pg. 129- 142 ISBN: 978-981-99-1737-2. DOI: <https://doi.org/10.1007/978-981-99-1737-2>.
- **Dipti Shukla** (2023). *Antenna Design For Iot And Biomedical Application in Array and wearable Antenna Design*, Optimization and Application, ISBN-9781003422440 CRC Press (Taylor Franics), Nov. 2023.
- **Arindam Patra** (2023). *Establishing Sustainable Human-Nature Interaction Today, Tomorrow, and Beyond: An Ecotopian Reading of Amitav Ghosh's The Living Mountain: A Fable of Our Times*. Reflections in Ink: An Anthology of English Literature, edited by Sahukar, P.M. and Indrani S. Rai, Malik and Sons, 2023, pp. 51-59. (ISBN: 978-93-92459-16-0)

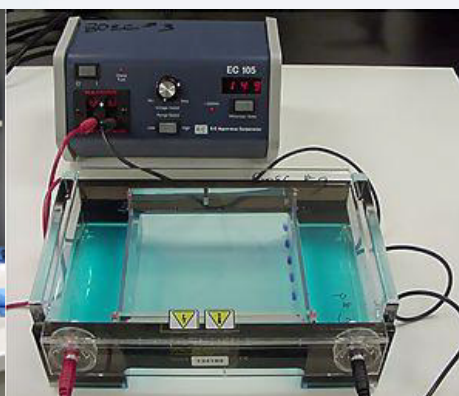
Book

- **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).

Glimpses of Top-Notch Laboratory and Research Facilities



Cooling Centrifuge



Gel Electrophoresis



Laboratory Fermenter



UV Visible Spectrophotometer.



Laminar Air Flow



UV Transilluminator



UV Visible Spectrophotometer




Polarimeter



Digital Colorimeter

Gathering and Engagements: A Calendar of Experience

- One-Day Workshop on "Mental Wellbeing & Stress Management"**: 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**: 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"**: 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.
 
- Open House and Career Guidance Seminars**: The School of Science, OPJU 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.
 
- Career Guidance Counselling: School of Science organized an online "Career Guidance Counselling"** session on 3rd, 12th & 13th July 2023 for the prospective UG & PG students. The resource persons were Dr. Dipti Shukla and Dr. Debasmita Samal. Sessions were moderated by Dr. Arindam Patra and Prof. Suchismita Panda.
 
- 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.
 



- **Five-Day Online Faculty Development Programme on Recent Trends in Mathematics & Technology** organized by department of Mathematics, School of Science, OPJU from 9th-13th October, 2023.



- **Webinar: Internal Complaints Committee (ICC) in association with Social Empowerment Club, Sahrudaya organized a webinar on Sexual and Mental Harassment of Women at workplace: Legal Outlook** on 27th October 2023. The resource person was Dr. Gagandeep Kaur, Associate Professor in Law, School of Law, UPES, Dehradun.



- **Guest Lecture on Artificial Intelligence and the Future of Science** was organized on 4th October 2023. The resource person was Mr Shirish Panda, Scientist D (DRDO), Office of the Principal Scientific Advisor, Govt. of India.
- **An Online Expert Talk on Electronic Properties of Solids** organized by department of Physics, School of Science on 19th October 2023. The resource person was Dr. Anar Singh, Assistant Professor- Physics, University of Lucknow, UP.
- **An Expert Talk was organized on Solar Energy Technologies Opportunity and Challenges** by Mr. Mayank Mishra, Solaris Technologies, Raigarh on 27th October 2023.



- **School of Science and School of Engineering, OPJU organized an Online Expert Talk on How to Write an Email?** on 2nd November 2023 from 4.00-5:30 pm for all the students preferably final and pre-final year. Dr Arindam Patra, Assistant Professor, Humanities, School of Science was the resource person.
- **Department of Mathematics, School of Science, OPJU organized a Value-Added Course on Mathematics for Competitive Examinations-I** from 24th Sept.-31st Oct. 2023.

- **Guest Lecture on Green Approach for Sustainable Future** organized on 14th December 2023. Dr. Anupama Gautam, Associate Professor, Shri Venkateshwara University, Gajraula, UP was the resource person.
- Department of Mathematics, School of Science OPJU celebrated **National Mathematics Day** on 22nd December 2023 by organizing Competition on Power Point Presentation and Quiz for all students of OP Jindal University.



- **An OPJU Exposure & Interaction Visit** of the 11th & 12th standard students of Sanskar Public School, Raigarh was organized by School of Science in association with Admissions & Outreach Department on 15th December 2023.



Glorious Moments

- **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.



- 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.

Celebrating Faculty Achievements and Recognitions



Dr. G. C. Mishra, Dean SoS & Professor Department of Physics 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.



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.



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.



Dr. Arindam Patra and **Prof. Suchismita Panda** successfully completed the NPTEL-AICTE Faculty Development Program course "Developing Soft Skills and Personality" with a consolidated score of 75% and 62%, respectively.

Dr. Arindam Patra and **Prof. Suchismita Panda**, Assistant Professor, Dept. of Humanities, SoS have successfully completed the Five-Day Online FDP on the theme "Inculcating Universal Human Values in Technical Education" organized by All India Council for Technical Education (AICTE) from 6-10 November 2023.



Dr. Debasmita Samal, participated in Five-Day Faculty Development Programme on **Data Analysis using Advanced Computational Techniques** held on 24-28 July 2023 organized by Department of Statistics and Mathematics, Amity University Kolkata, W.B.

Dr. Debasmita Samal, attended the Lecture Series on Number Theory, Organized by Department of Mathematics, Sant Longowal Institute of Engineering & Technology, Longowal, Punjab during August 10-13, 2023.

Dr. Debasmita Samal, attended 5-day Online FDP on the theme "Mathematics in Real, Applied and Computational Domains" organized by Sathyabama Institute of Science and Technology from 3-8 July 2023.

Dr. Swati Verma, attended 5-day Online FDP on the theme "Mathematics in Real, Applied and Computational Domains" organized by Sathyabama Institute of Science and Technology from 3-8 July 2023.

Dr. Swati Verma, attended a Five-Day Faculty Development Programme on "**Data Analysis using Advanced Computational Techniques**" held on 24-28 July 2023 organized by Department of Statistics and Mathematics, Amity University Kolkata, W.B.

Dr. Swati Verma, Associate Professor- Mathematics, was awarded certificate of Excellence in Reviewing by Journal of Engineering Research and Reports.



Dr. Dipti Shukla, attended 2-days Online International Virtual Conference "Recent Trends in Organometallics and Material Science" from 6-7 July 2023.

Dr. Dipti Shukla attended one-week National Level Faculty development program on Cloud infrastructure (AWS) organized by department of CSE, JNTUK University College of Engineering Narasaraopet, AP.

Dr. Dipti Shukla, Associate Professor- Physics, was awarded with certificate of Excellence in Peer-Reviewing by BP International.



Dr. Saumya Singh, attended 5-day Online FDP on the theme “Mathematics in Real, Applied and Computational Domains” organized by Sathyabama Institute of Science and Technology from 3-8 July 2023.



Dr. Taniya Sengupta Rathore 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. Ankur Rastogi delivered an invited talk for UG & PG students in the Department of Chemistry, Govt. KG Arts & Science College (affiliated to Shaheed Nand Kumar Patel University) Raigarh on 14th October 2023.



Dr. Kavita Patel delivered an invited talk for UG & PG students in the Department of Chemistry, Govt. KG Arts & Science College (affiliated to Shaheed Nand Kumar Patel University) Raigarh on 14th October 2023.



Dr. R. S. Singh, Sr. Associate Professor of Physics, received Best Oral Presentation Award in The 10th Global Conference on Polymer and Composite Materials held from October 27-30, 2023 in Shenzhen, China for the speech titled “Hydrogen Storage in Sulphur-doped SiC Nanotubes”.

Students Bring Laurels: Quality Speaks

- The School of Science congratulates all the Gold, Silver and Bronze medal winners, two Ph.D. awardees along with graduands awarded degree in the 3rd Convocation.





Three students of School of Science did their internships for the duration of 1-3 months

Isha Verma

*B.Sc. (H) 4th Chemistry
at DB Power Ltd., 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. Muskan Singh, the students of BSc (Hons.) 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.



NPTEL Certification

- 14 students of B.Sc. (Hons.) Biotechnology Qualified the NPTEL Course **Biomedical Nanotechnology** out of which 9 qualified under Elite category.
- 6 students of BSc (Hons.) Physics qualified the NPTEL course **Solid State Physics** out of which 1 qualified under Elite category.
- 1 student of BSc (Hons.) Chemistry 3rd Sem qualified NPTEL course **Developing Soft Skills and Personality**.
- 5 students of BSc (Hons.) Chemistry 5th semester qualified NPTEL course **Quantum Chemistry of Atoms and Molecules** out of which 2 students secured Elite grade.
- 11 students of BSc (Hons.) Mathematics 5th semester qualified NPTEL course **Rings and Modules**
- 3 students of MSc Chemistry 3rd semester qualified NPTEL course **Quantum Mechanics and Molecular Spectroscopy** out of which 1 student secured Elite grade.





Industry Visits

- BSc (Hons) Biotechnology 3rd semester students visited JSP Subhangi Sanitary Pad Manufacturing Unit, Raigarh on 1st December 2023.



- BSc (Hons) Biotechnology 3rd semester students visited OP Jindal Fortis Hospital, Tamnar on 8th December 2023.



- BSc (Hons) Biotechnology 1st semester students visited Rabo Dam Horticulture and Dairy Department, Jindal Power Ltd., Tamnar on 27th December 2023.



Club Activities

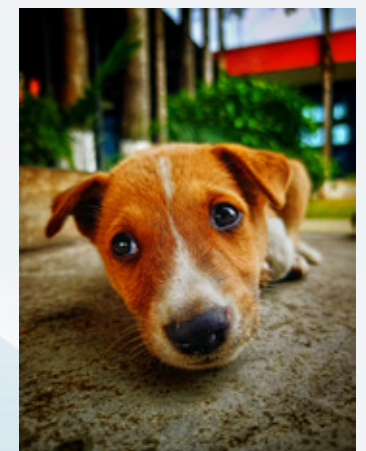
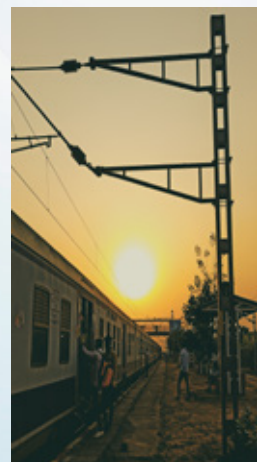
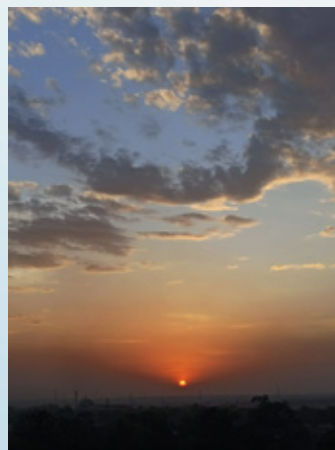
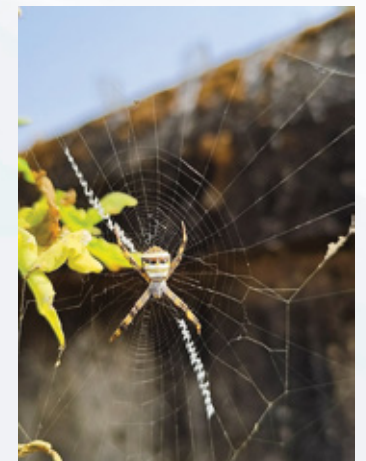
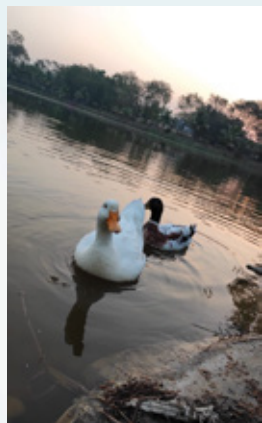
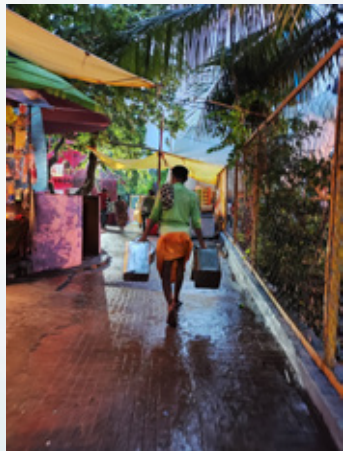
- The sports club (SOS) organized the **Carrom Tournament** for the students of School of Science, which starts from 27th September 2023 and ends on 3rd October 2023. The tournament was completed in three stages: League, semifinal and final. Out of 34 participants there were 18 girls and 14 boys. In the boys category, Ishaan Singh Rajput, BSc (Hons.) 1st sem. and in girls category Udit Singh BSc (Hons.) 5th sem. were the winners.



- A cultural event, **Roots & Rhythms** was organized on 9th October 2023 complying with the objectives of the Cultural Club of OP Jindal University. All the students along with the faculty members of SoS attended the programme at MP Hall from 4 PM to 5 PM. The one-hour event showcased the innate talent of students in various art forms, like folk-solo dance, folk-group dance, dance on mythological themes, and folksong. All were amazed and enthralled to witness such wonderful talents on our campus.



- A Club Activity, **Frame & Fame** was organized to discover the students having photography as interest and provide a platform to them. A total 12 participants registered themselves out of which 10 participants shared their best 3 photographs. Subsequently on 6th November 2023 an exhibition was organized to showcase their talent.



- A webinar “Sexual & Mental Harassment of Women at Workplace: Legal Outlook” was organized on 27th October 2023 complying with the objectives of the Social Empowerment Club of OP Jindal University. All the students along with the faculty members of SoS attended the programme at Zoom Platform from 11 Am to 12 PM. The resource person is Dr Gagandeep Kaur, Associate Professor in Law, School of Law, UPES. Dr Gagandeep Kaur spoke about legal outlook on Sexual & Mental Harassment of Women at Workplace.
- The School organized a Friday Activity on 16 September 2023 for the students of all the departments of SoS.



Faculty



Dr Girish Chandra Mishra
Ph.D. (Central University, Bilaspur)
M.Sc. (Gold Medalist), M.Phil.,
Professor-Physics & Dean, SoS



Dr Ram Sevak Singh
Ph.D. (National University of Singapore)
M. Sc. (BHU), M. Tech. (IIT Kharagpur)
Associate Professor (Sr. Grade)-
Physics



Dr Dipti Shukla
Ph.D. (Pt. RSU), M.Phil, M.Sc.
Associate Professor -Physics



Dr Shubhashri Kumari
Ph.D. & M.Sc. (IIT ISM, Dhanbad)
Assistant Professor -Physics



Dr Ankur Rastogi
Ph.D. & M. Sc. (MJP RU, Bareilly)
Associate Professor (Sr. Grade)-
Chemistry



Dr Kavita Patel
Ph.D (CVRU, Bilaspur),
M.Phil, M.Sc,
Asst. Professor (Sr. Grade)-Chemistry



Dr Deepak Patel
Ph.D. & M. Sc. (GGU, Bilaspur)
Asst. Professor-Chemistry



Prof. Sanjana Dewangan
Ph.D. (Pursuing)
M.Sc., B.Sc. (Pt. RSU)
Asst. Professor- Chemistry



Dr Taniya Sengupta Rathore
Ph.D (Devi Ahilya University, Indore)
M.Sc. (PTU)
Associate Professor- Biotechnology



Dr Pranjal Kumar
Ph.D. (IIT-Dharwad)
M.Tech. (IIT-Hyderabad)
Asst. Professor- Biotechnology



Dr Saumya Singh
Ph.D. & M. Sc. [IIT (BHU), Varanasi]
Associate Professor (Sr. Grade)-
Mathematics



Prof. Manas Ranjan Mishra
Ph.D. (Pursuing) M. Sc., M.Phil.,
Asst. Professor (Sr. Grade)-
Mathematics



Dr Swati Verma
Ph.D & M.Sc. (Pt. RSU),
Associate Professor - Mathematics



Dr Debasmitta Samal
Ph.D. (Berhampur University)
M.Sc. & M.Phil. (Sambalpur University)
Asst. Professor (Sr. Grade) -Mathematics



Dr Manik Das
Ph.D. (NIT Meghalaya),
M.Sc. & B.Sc. (Hons.),
Visva Bharati Calcutta
Assistant Professor - Mathematics



Mr. Shrikant Chaini
M.Sc. in Mathematics
Atal Bihari Vajpayee University
Bilaspur (C.G.).
Asst. Professor- Mathematics



Dr Sanjay Kumar Singh
Ph.D. & M.A. (English)
(APSU, Rewa)
Professor-Humanities



Dr Arindam Patra
Ph.D. & M.Phil. (Pt. RSU)
M.A. (English), B.Ed.
Asst. Professor-Humanities



Prof. Suchismita Panda
Ph.D. (Pursuing), M.A. (English),
B.Ed. (Pt. RSU)
Asst. Professor-Humanities

Placement/Internships



MANSI MESHRA
B.Sc.
JGU



DIKSHA APET
B.Sc.
JGU



SIDDHI RAWAL
B.Sc.
JGU



ABHISPA BEHERA
B.Sc.
JGU



DIPALI PRADHAN
B.Sc.
JGU



VIVEK GUPTA
B.Sc. (Hons.)
JGU



VISHAKA SINGH
B.Sc. (Hons.)
JGU



KALYANI SINGH
B.Sc. (Hons.)
VEDANTA



DEBARCHAN KAR
M.Sc.
JGU



SUMITRA DAS
M.Sc.
JGU



DEBASHREE
M.Sc.
ALUMINUM LABORATORIES LIMITED



ADITYA MOHANTY
M.Sc.
PT. TIRUMAL



ARUSHI SAHU
B.Sc. (Hons.)
JGU



BHAWANA SONI
M.Sc.
JGU



POOJA YADAV
B.Sc. (Hons.)
VEDANTA



JYOTI SINGH
B.Sc. (Hons.)
CPJ GLOBAL UNIVERSITY



SHAHINA YASHMIN
M.Sc.
ALUMINUM LABORATORIES LTD



MANOSWINI MAHAPATRA
B.Sc.
SQUARE TILES

Awards

**1st in Chhattisgarh 23rd in
India 496th in the world**

UI Greenmetric World
University Ranking 2023

**Promising Private University
for Research & Innovation**

By IIRF & FWA
in Education Impact Awards 2023

**Most Promising Corporate-
Governed University**

By New Normal Education
Summit & Awards 2023

**Best Industry Linked Emerging
Engineering Institute**

By 10th AICTE-CII Awards

**University of Experiential
Learning**

at The Progress Global Awards
2021

**India's Leading University
In Innovation**

By Innovation Economy and
social Development

**Most Proming University
in Research & Development**

By Ardor Comm Media 2021

**Best Private University
in Chhattisgarh**

at The Progress Global Awards
2020

**Indin's Most Trusted
Technical University**

at India'n Most Trusted Brands,
Companies & Eduaction Awards

**Cleanest Higher Education
Institute**

Under Residential Campus Category
by MHRD, 2019

**Emerging University
in India**

at 14th world Education Summit
2019, New Delhi

**Best Industry Linked Mechanical
& Allied Engineerig Institute**

By 10th AICTE-CII Awards 2021

**Emerging University of
Steel Technology & Management**

at The Progress Global Awards
2019

**Best Industrial Interface
University**

at ISIE India, 2021

50 Acres
5,00,000
Sq.ft. Built up area



100+
Faculty

80%
Faculty with
Ph.D Degree

70%
Faculty
Qualification From
IITs, NITs, IIITs, & IIMs

20%
Faculty with
Global Exposure



2000+ Students
40% Girls
60% Boys



100+ Placement Drive
93% Students Placed
6.7 Lacs Annual Package



45,000+ Books
40% Titles
60% E-Journals



70 Patents Published/Granted
60+ Books Published/ Edited
31 National Collaborations
7 International Collaboration

