



We are pleased to present the latest edition of the Institute of Physics (IoP) newsletter. This publication reflects the vibrant academic environment of our institute, capturing recent milestones in research, teaching, and student engagement. The accomplishments of our faculty and students are being recognized, and the ongoing efforts that contribute to the institute's vibrant academic environment are being showcased.



A Word from Director

Through continuous struggle to achieve excellence, a culture of innovation & curiosity, our vision is to turn the Institute of Physics (IoP) at The Islamia University of Bahawalpur as a premier destination for those seeking a future in physics.



The teaching faculty of IoP extended a warm welcome to the newly appointed Vice Chancellor, **Prof. Engr. Muhammad Kamran**, during which the Director, **Prof. Dr. Altaf Hussain**, introduced the faculty, and the Vice Chancellor expressed appreciation for their academic strengths and pledged support for advancing research and teaching.



A Step Toward Excellence: VC's Visit to IoP

The Honorable Vice Chancellor, Prof. Dr. Muhammad Kamran, visited the IoP, where he was welcomed by Director **Prof. Dr. Altaf Hussain**. After a briefing on institutional reforms, he toured the research and teaching facilities. Dean **Prof. Dr. Ghulam Mustafa** also joined the visit.

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<https://www.iub.edu.pk/institute-of-physics>

Striving for Standards

The IoP hosted the Quality Enhancement Cell (QEC) to discuss internal quality assurance. Led by **Prof. Dr. Asadullah Madni**, the QEC team engaged with faculty and highlighted the importance of academic contributions to quality standards. The visit concluded with a tour, where the team praised IoP's efforts toward academic excellence.



Beyond the Classroom

Together at IoP

A Night of Celebration and Farewell. IoP hosted its much-anticipated **3rd Annual Conclave 2025**, an evening filled with joy, laughter, and heartfelt farewells. Organized for the students of the Institute, the event brought together faculty members and students in a warm and festive atmosphere. The evening featured a vibrant lineup of student-led performances, including skits, musical renditions, and a spirited debate, showcasing the diverse talents within the IoP community. The event also served as a farewell celebration for the outgoing BS 7th and 8th semester and MPhil 3rd and 4th semester students, marking the end of an important chapter in their academic journey. Faculty members and students alike enjoyed the dinner and the lively interactions that followed, making the night a memorable occasion. The Annual Conclave 2025 not only celebrated academic milestones but also strengthened the bonds within the IoP family.

On February 27, 2025, IoP organized a delightful **one-day trip** to Multan, offering students a refreshing blend of history, leisure, and bonding. The group explored the historic Fort Kohna Qasim, enjoyed shopping and dining at the Mall of Multan, experienced thrilling rides at City Park, and ended the day by the serene Askari Jheel. The trip was smoothly coordinated by Dr. Hafeez Ullah and Dr. Saba Saeed, whose efforts made the experience enjoyable and enriching. It was a day filled with learning, laughter, and lasting memories for all participants.

IoP successfully organized a two-day workshop titled **"Think Digital: A Workshop on Logic Circuit Design"** on April 24–25, 2025, for Computer Science students. The workshop combined theory with hands-on practice in digital logic circuits. The event concluded with an appreciation ceremony for outstanding participants. Distinguished guests praised the initiative, emphasizing its importance in strengthening foundational circuit designing skills.



Pushing Boundaries: From Fundamentals to Frontiers



Highlights from IoP: Conferences, Seminars & Competitions

The Department of Particle Physics at the Institute of Physics, IUB, organized a **One-Day International Hybrid Conference on Emerging Trends in Particle Physics** on May 21, 2025. The conference covered topics ranging from fundamental concepts to advanced research and technologies, bringing together scholars, scientists, and students. This initiative reflects the university's commitment to advancing knowledge and innovation in the field of particle physics.



Institutional Seminar Series: Prof. Dr. Afaq Ahmad Shares Insights on Thin Films. On January 31, 2025, IoP hosted **Prof. Dr. Afaq Ahmad** from the University of the Punjab, Lahore, as part of its Institutional Seminar Series. He delivered an insightful talk on the optical properties of thin films, sharing valuable theoretical and experimental perspectives. The session was highly engaging, and the Institute extends its gratitude to Prof. Afaq for his contribution and looks forward to future collaborations.



IoP organized two quiz competitions this spring to promote academic excellence and healthy competition. The **Undergraduate Quiz Competition** on March 14 featured eight teams competing in core physics topics, with top teams receiving cash prizes and certificates. On May 12, the **M.Phil. Quiz Competition** was held under the supervision of **Prof. Dr. Altaf Hussain**, where top performers were awarded shields and certificates. Both events were praised by faculty and will be held regularly to enhance student learning and engagement.



IoP successfully hosted Undergraduate Talk – Episode 4 on April 30, 2025, with the theme “**Artificial Intelligence in Physics.**” Students delivered impactful presentations evaluated by a panel of experts, with Zoha Allauddin, Fatima Afzal, and Muhammad Awais Altaf securing the top three positions. Guest speaker Mr. Abdul Rehman, along with faculty members, highlighted the growing significance of AI in physics and commended the event for fostering academic excellence and innovation. **Prof. Dr. Altaf Hussain** (Director, IoP) and **Dr. Muhammad Usman Mustafa** (Advisor, UGT) praised the organizing team for orchestrating a well-structured academic session.

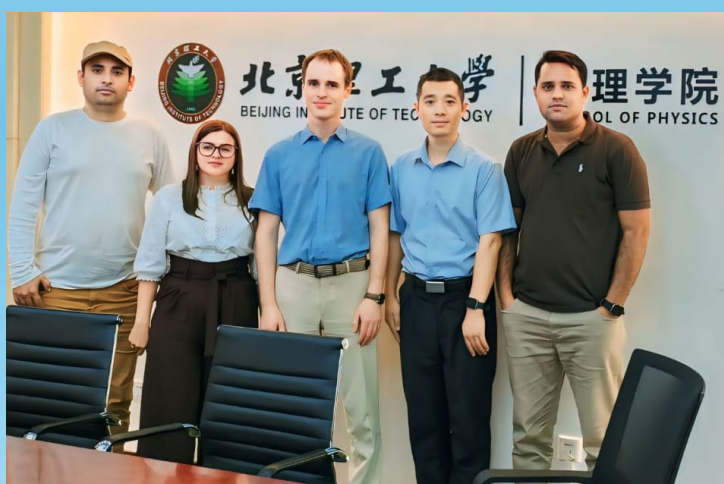


IoP and IUB Research & Science Promotion Society successfully organized a one-day workshop on “**Modern Radiotherapy Techniques for Cancer Treatment.**” Held at Jinnah Auditorium, the event featured a keynote by **Dr. Rana Atique Anwer Khan**, highlighting advanced cancer treatment methods like IMRT. Faculty, students, and guest speakers engaged in insightful discussions during an interactive Q&A session. The workshop concluded with appreciation awards and praise for promoting scientific awareness and collaboration.

IoP organized a dedicated student **counseling session** aimed at empowering undergraduate students to make informed decisions about their academic and professional futures. During the session, experienced faculty members and counselors engaged with students to help them assess their academic strengths, clarify their interests, and explore various career pathways in physics and related disciplines. Topics such as postgraduate study options, research opportunities, scholarships, and industry trends were discussed in detail. Overall, the event was well-received and will continue to be a regular part of the institute’s student support activities.



We are delighted to announce that several of our outstanding students have embarked on remarkable academic and professional paths this year. **Muhammad Javid** has begun his PhD at the esteemed Beijing Institute of Technology, China, while **Tahsin Sana** is pursuing his doctoral studies at the University of Milano-Bicocca in Milan, Italy, and **Sohail Afzal** has joined University of Tuscia, Italy for PhD. Numerous other IoP students have also secured opportunities at prestigious universities and leading global industries, making significant strides in their fields.



The Institute of Physics celebrated **Women's Day** with a special event honoring the contributions of women in **STEM** and promoting inclusivity in science. A major highlight was the inauguration of the Center for Women in STEM, led by **Dr. Aalia Nazir**, to support and mentor aspiring female scientists. The event featured an exhibition of innovative projects by female students from various departments, showcasing their creativity and talent. Distinguished guests and faculty members praised the initiative, reaffirming the Institute's commitment to empowering women in scientific fields.



On May 15, 2025, IoP, in collaboration with the Centre for Women in STEM, hosted a seminar on **"The Role of Misinformation in Fueling Violent Extremism."** Led by FIA Director **Ali Yazdani** and Mr. Kaleem, the session highlighted the dangers of digital misinformation and the need for media literacy. **Dr. Aalia Nazir** and **Prof. Dr. Altaf Hussain** emphasized the importance of awareness and responsible digital engagement.

IoP proudly participated in the **"Physics Through Arts"** exhibition, where female students showcased innovative projects blending scientific concepts with artistic expression. The event saw enthusiastic involvement from various departments, including Biology, Mathematics, Architecture Engineering, and the Institute of Physics. IoP students presented creative models and visual interpretations of complex physics phenomena, demonstrating both deep understanding and artistic flair. Their impressive work reflected the growing role of women in science and highlighted the power of interdisciplinary learning in making physics more accessible and inspiring.

