

Best Practices of the Department of Biochemistry

I) **Imparting comprehensive on-the-bench practical courses:** The department has robust practical courses in the Masters program that facilitate the students to get a taste of the fundamentals of biochemistry. We don't always emphasize on positive results in an experiment, but help students analyse why experiments failed, since such knowledge prepares them better for challenges in research, where one learns from failures.

II) **Facilitating internships for students at national institutes.** The students are facilitated to work in a research laboratory under the supervision of a principal investigator for six months. This practice allows students to pursue independent research questions under the supervision of a PI). Further, through the process of thesis writing, students develop their writing skills, putting forth an informed argument and develop research questions. In addition, the departmental insists that M.Sc. students should attend workshops and conferences at the Local and National levels.

https://biochemistry.uok.edu.in/Files/6bb0a5f3-b7c4-4c26-be19-09a60845a66d/Menu/Internships_2023_83694937-d16b-4f37-abd7-03cd32cde29d.pdf

III) **Special Lectures:** We conduct special lectures to guide students for the CSIR-UGC-NET JRF examination.

IV) **Disseminate the subject knowledge at the grassroots level:** We invite undergraduate college students from colleges for the departmental tour and expose them to research laboratories.

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https://biochemistry.uok.edu.in/Files/6bb0a5f3-b7c4-4c26-be19-09a60845a66d/Menu/College_tour_2023_compressed_54ad2544-04bf-4c72-b38f-cf3ba20cf28a.pdf

V) **Motivation for Research:** The Department has made it a routine to invite scientists of international repute for research talks. This helps our students and research scholars remain up-to-date with current trends in the molecular biology and biochemistry areas and helps them to carefully choose their career options.

<https://biochemistry.uok.edu.in/Main/ViewPage.aspx?Page=bfb8d9af-9339-491a-b679-e4e0c59df8a5>

- VI) **Interdisciplinary Collaboration:** The Department invests in opportunities to work alongside experts from other fields, such as clinical medicine, pharmaceuticals and animal sciences to foster innovative research.

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- VII) **Conferences and workshops:** The Department organises national and international seminars, and conferences to share the latest developments in biomedical sciences.

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https://biochemistry.uok.edu.in/Files/6bb0a5f3-b7c4-4c26-be19-09a60845a66d/Menu/bio_poster_ec9ed372-3a54-4602-a519-96c2549d71e7.pdf

- VIII) The Department is working on several societal health projects and researching various health issues like Polycystic Ovarian Syndrome (PCOS), Diabetes, Cancer, etc. addressing local public health concerns. It is a practice of the Department to connect the impact of research findings with society via print and electronic means.

<https://www.youtube.com/watch?v=EotTLjeSN54>

<https://www.greaterkashmir.com/opinion/cancer-in-kashmir-it-needs-a-serious-study/>

<https://biochemistry.uok.edu.in/Main/Gallery.aspx?Gallery=15cd5db6-2546-498d-a361-c38b126b8ce3>

<https://www.youtube.com/watch?v=CqeMO7IyYTk&t=30s>

- IX) The Department follows proper protocols for bio-waste management. The biowastes are collected in appropriate containers marked for their contents and safely disposed off through the approved agency.