

for SUMMER ELECTIVES

University's Summer Program for Medical, Educational, Professional, Research, Leadership, and Community-Oriented Electives





Molecular BiologyTechniques

COURSE STRUCTURE

- Objectives of Training Course: Theoretical Knowledge and Hands-on Training
- Participants: 20-25 MBBS/BDS Students from Affiliated Colleges
- Duration: 2 weeks
- Registration Fee: PKR 15000
- Tentative Date: 24 June 2024 to 5 July 2024
- Venue: Department of Human Genetics & Molecular Biology, Jinnah Campus UHS

COURSE CONTENT

- Introduction to Molecular Biology and Laboratory SOPs
- Extraction of nucleic acids (DNA & RNA)
- Quantification of nucleic acids
- Primer designing
- Conventional PCR and troubleshooting
- Gel electrophoresis
- Restriction fragment length polymorphism
- Cell culturing & cell counting

CONTACT INFO

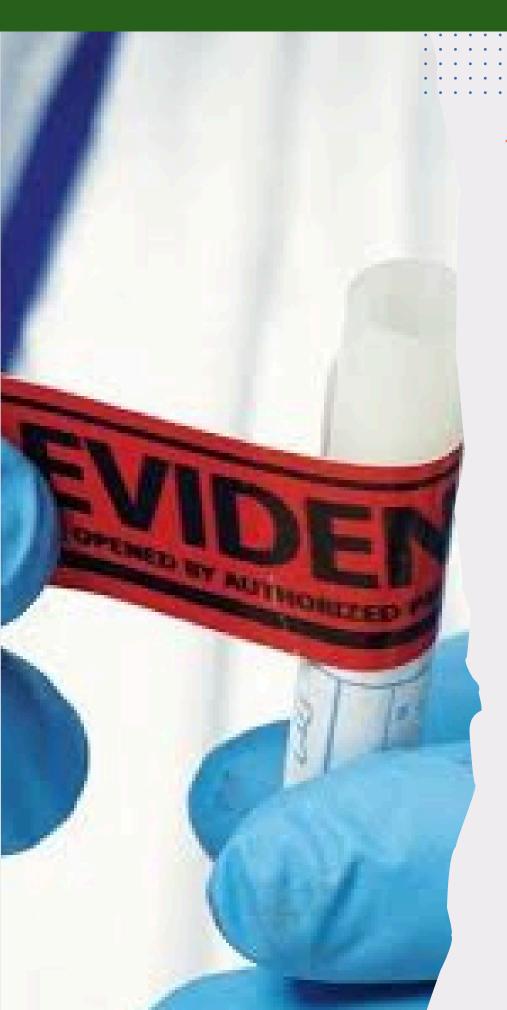
Department of Human Genetics & Molecular Biology,
University of Health Sciences,
Jinnah Campus, Kala Shah Kaku
www.uhs.edu.pk



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Autopsy Room to Court Room

COURSE STRUCTURE

- Objectives of Training Course: Theoretical Knowledge and Hands-on Training
- Participants: 20-25 MBBS/BDS Students from Affiliated Colleges
- Duration: 2 weeks
- Registration Fee: PKR 20,000/-
- Tentative Date: 24 June 2024 to 5 July 2024
- Venue: Department of Forensic Medicine,
 Jinnah Campus UHS

COURSE CONTENT

- Fundamental of Forensic Medicine, Science and Related Legal System
- Grasping the Skill of Forensic Investigation
- Understanding the basics of Impression Prints
- Forensic DNA Typing as Gold Standard of Identification
- Five Field Visits
- Forensic Summer School Finale

CONTACT INFO

Department of Forensic Medicine/Medical Jurisprudence,
University of Health Sciences,
Jinnah Campus, Kala Shah Kaku



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Histology & Gross Anatomy:
Let the Dead Teach the Living

COURSE STRUCTURE

- Objectives of Training Course: Theoretical Knowledge and Hands-on Training
- Participants: 20-25, First and Second YearMBBS and First Year BDS Students
- Duration: 4 weeks
- Registration Fee: PKR 15,000/-
- Tentative Date: 24 June 2024 to 5 July 2024
- Venue: Department of Anatomy, City Campus UHS

COURSE CONTENT

- Microscope handling practical training.
- Guided lab sessions for histological slide analysis.
- Gross Anatomy learning through specimens, models and imaging modalities.
- Virtual Anatomy and it's integration in learning.

CONTACT INFO

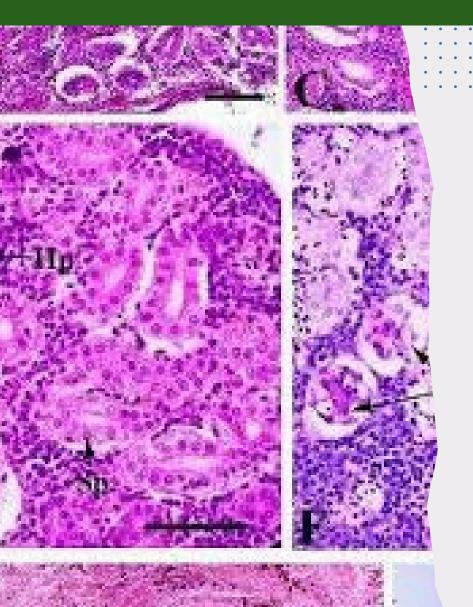
Department of Anatomy,
University of Health Sciences,
City Campus, Lahore



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Histopathological Techniques

COURSE STRUCTURE

- Objectives of Training Course: Theoretical Knowledge and Hands-on Training
- Participants: 20-25 MBBS/BDS Students from Affiliated Colleges
- Duration: 2 weeks
- Registration Fee: PKR 15,000/-
- Tentative Date: 24 June 2024 to 5 July 2024
- Venue: Department of Histopathology, City Campus UHS

COURSE CONTENT

- Orientation of Histopathology Laboratory
- Microscopic examination
- Basic Laboratory Session
- Advanced laboratory Techniques of Immunohistochemistry and Immunofluorescence
- Identification of Histology Slides
- Assessment and Feedback



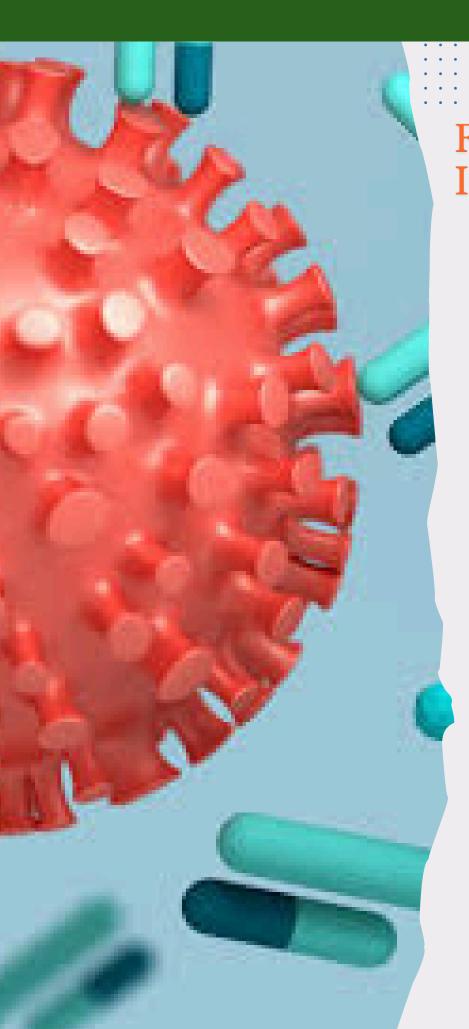
Department of Histopathology, University of Health Sciences, City Campus, Lahore



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Fundamental and Clinical Concepts of Immunology

COURSE STRUCTURE

- Objectives of Training Course: Theoretical Knowledge and Hands-on Training
- Participants: 20-25, MBBS (3rd, 4th, and final year) and BDS (2nd year)
- Duration: 2 weeks
- Registration Fee: PKR 15,000/-
- Tentative Date: 24 June 2024 to 5 July 2024
- Venue: Department of Immunology, Jinnah Campus UHS

COURSE CONTENT

- Basic immunological concepts and their relation to clinical diseases.
- Laboratory methods in the Immunology lab and skills to interpret lab test results to diagnose immunopathologies.
- Infection diagnosis by ELISA.
- Flow cytometry and immunophenotyping in Tumour immunology and Immunodeficiency.
- HLA Typing by PCR.

CONTACT INFO

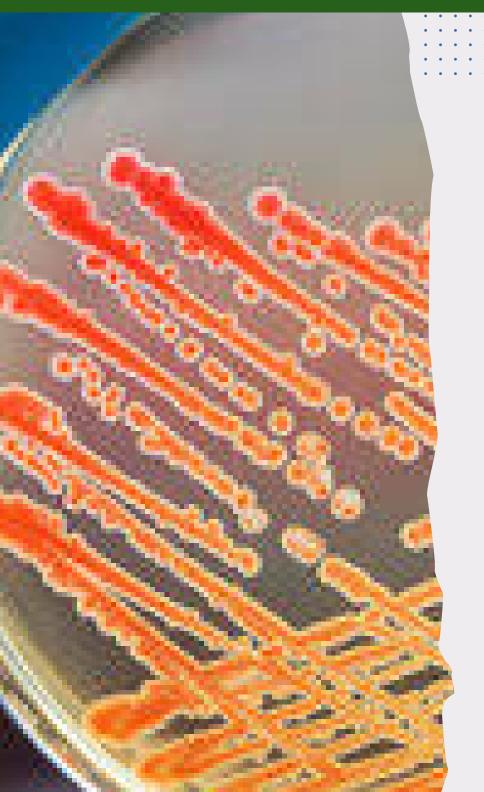
Department of Immunology, University of Health Sciences, Jinnah Campus, KSK



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Medical Microbiology

COURSE STRUCTURE

- Objectives of Training Course: Theoretical Knowledge and Hands-on Training
- Participants: 15-20 MBBS and BDS Students
- Duration: 2 weeks
- Registration Fee: PKR 15,000/-
- Tentative Date: 24 June 2024 to 5 July 2024
- Venue: Department of Microbiology, City Campus UHS

COURSE CONTENT

- Usage of Microscope for stained/unstained slides.
- Training on the Gram Staining and Ziehl Neelsen Staining.
- Culture Bacteria on different Media.
- Biochemical tests (Catalase, Coagulase, Oxidase test).
- Antimicrobial Susceptibility Testing by Disc Diffusion Method.
- Microbiology Reports reading/understanding

CONTACT INFO

Department of Microbiology, University of Health Sciences, City Campus, Lahore



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Pharmacological Research Methodologies

COURSE STRUCTURE

- Objectives of Training Course: Theoretical Knowledge and Hands-on Training
- Participants: 10-15, Third Year Undergraduate Medical Students
- Duration: 2 weeks
- Registration Fee: PKR 15,000/-
- Tentative Date: 24 June 2024 to 5 July 2024
- Venue: Department of Pharmacology, Jinnah Campus UHS

COURSE CONTENT

- Orientation and introduction to the laboratory and research facilities.
- Observing ongoing research projects.
- Attending lectures and seminars by faculty members.
- Hands-on training in basic research techniques and methodologies (MTT assay highlighting effects of drugs on cells, dose response curve using kymograph and organ bath).

CONTACT INFO

Department of Pharmacology, University of Health Sciences, Jinnah Campus, KSK



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Physiology Practicals

COURSE STRUCTURE

- Objectives: Hands-on expertise on the practicals included in the curriculum 2k23
- Participants: 20-25, First Year Undergraduate Medical Students
- Duration: 2 weeks
- Registration Fee: PKR 10,000/-
- Tentative Date: 24 June 2024 to 5 July 2024
- Venue: Department of Physiology, City Campus UHS

COURSE CONTENT

- Basics of practical Physiology (Blood Physiology).
- Basics of practical Physiology (cardiovascular physiology).
- Basics of practical Physiology(respiratory physiology).
- Designing and attempting MCQs.
- Designing and attempting SEQs.
- Focused preparation of OSVE.
- Mock Examination.

CONTACT INFO

Department of Physiology, University of Health Sciences, City Campus, Lahore



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Common Haematological Diseases: Diagnosis & Prognosis

COURSE STRUCTURE

- Objectives: Enhance Theoretical Knowledge and Develop Practical Skills.
- Participants: 20-25, 3rd, 4th, and final year MBBS students.
- Duration: 2 weeks
- Registration Fee: PKR 10,000/-
- Tentative Date: 24 June 2024 to 5 July 2024
- Venue: Department of Haematology, City Campus UHS

COURSE CONTENT

- Perform (Hands on) CBC Test, Phlebotomy.
- Interpretation of PT, APTT, Fibrinogen, Ddimers.
- Quality Assurance in Haematology Lab Interpretation of CBC reports, Preparation, Indications, Administration and Adverse reaction of blood components.
- Interpretation of Iron Studies, Interpretation of Vit B12 and Folic Acid tests
- Latest research in Haematology.

CONTACT INFO

Department of Haematology,
University of Health Sciences,
City Campus, Lahore



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- Objectives: Practical exposure to community medicine concepts and practices through immersive field visits.
- Participants: 20-25, MBBS students.
- Duration: 2 weeks
- Registration Fee: PKR 20,000/-
- Tentative Date: 24 June 2024 to 5 July 2024
- Venue: Department of Public Health, Jinnah Campus UHS

COURSE CONTENT

- Structured group discussions on community health issues and interventions.
- Social determinants of health and their impact on population health outcomes.
- Exposing students to diverse community healthcare settings and patient populations.
- Comprehensive training in research questionnaire design and data collection procedures.
- Peer review sessions, mentorship meetings:

CONTACT INFO

Department of Public Health,
University of Health Sciences,
Jinnah Campus, KSK



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COURSE STRUCTURE

- Objectives:To provide undergraduate Dental students with a deep understanding of dental materials.
- Participants: 20-25, BDS students.
- Duration: 2 weeks
- Registration Fee: PKR 15,000/-
- Tentative Date: 1 July 2024 to 15 July 2024
- Venue: Department of Science of Dental Materials, City Campus UHS

COURSE CONTENT

- Identification and handling of materials used in Recording impressions.
- Digital impression equipment.
- Materials used in cast fabrication.
- Understanding Dental Cements as liners and bases.
- Understanding Direct Restorative Materials.
- Materials for indirect restoration.
- Introduction on designing research project.

CONTACT INFO

Department of Science of Dental Materials,
University of Health Sciences,
City Campus, Lahore





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COURSE STRUCTURE

- Objectives: To remove hesitancy and boost confidence while Speaking in English.
- Participants: 20-25, First year MBBS and BDS students.
- Duration: 5 days
- Registration Fee: PKR 15,000/-
- Tentative Date: 1 July 2024 to 5 July 2024
- Venue: Management Block, Jinnah Campus UHS

COURSE CONTENT

- Importance of Body Language in communication.
- Understand the power/impact of words.
- Informal and Formal English communication.
- Enhance active listening skills.
- Improve literal and comprehensive listening.
- Daily lessons, assignments, and tests to track progress.
- Immersive, interactive, and practical activities.

CONTACT INFO

English Section (PSDC), University of Health Sciences, Jinnah Campus, KSK



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- Objectives: Integrate holistic approaches, nonpharmacological treatments, and ethical principles in patient care.
- Participants: 20-25, final-year medical graduates and house officers.
- Duration: Two weeks
- Registration Fee: PKR 15,000/-
- Tentative Date: 1 July 2024 to 15 July 2024
- Venue: Room no. 77, Academic Block, Jinnah Campus, KSK

COURSE CONTENT

- Career Path selection and how to built Agility.
- Developing leadership skills in clinical practice.
- Cognitive Biases.
- Emotional Intelligence and Creative thinking.
- Dealing with Burnout, Distress and Disasters.
- Dealing with Diverse Clinical Situations including psych-trauma and Post-traumatic growth.
- Hospitalization and Illness from Patient's Perspective.

CONTACT INFO

Department of Behavioural Sciences, University of Health Sciences, Jinnah Campus, KSK



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COURSE STRUCTURE

- Objectives: Demonstrate proficiency in BLS skills.
- Participants: 20-25, 4th and final year MBBS students.
- Duration: Two weeks
- Registration Fee: PKR 20,000/-
- Tentative Date: 24 June 2024 to 5 July 2024
- Venue: Department of Family Medicine, Jinnah Campus, KSK

COURSE CONTENT

- Recognize the signs & symptoms of cardiac arrest.
- Techniques to perform high quality CPR (Adult, Child & Infant).
- Understand how to operate an AED & follow device instructions.
- Relieve Choking maneuvers.
- Hands on training on manikins.
- Presentations, Demonstrations.

CONTACT INFO

Department of Family Medicine, University of Health Sciences, Jinnah Campus, KSK



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COURSE STRUCTURE

- Objectives: Provide an insight into the importance of diagnostic tools in Biochemistry.
- Participants: 20-25, first and second year MBBS students.
- Duration: Two weeks
- Registration Fee: PKR 15,000/-
- Tentative Date: 24 June 2024 to 5 July 2024
- Venue: Department of Biochemistry, Jinnah Campus, KSK

COURSE CONTENT

- Techniques of Centrifugation,
 Spectrophotometery, ELISA, pH Meter,
 Chromatography, Electrophoresis, PCR.
- Biochemical Analysis.
- Biomarkers for different diseases.
- Lectures, Hands-on Training, Post-Session Discussions, Post-Training Assessment.

CONTACT INFO

Department of Biochemistry, University of Health Sciences, Jinnah Campus, KSK

