



DOW UNIVERSITY OF HEALTH SCIENCES

SCHOOL OF POSTGRADUATE STUDIES

PROGRAM SPECIFICATION - SESSION-2025-26

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| <p>Introduction of Institute & Program</p> | <p>The university offers a full-time MPhil program in the field of pathology and has developed the semester format to allow a greater range of options within the program to meet the requirements of medically trained personnel who wish to enter teaching and research career in medical and allied health sciences. It provides a sound understanding of human health and disease and diagnostic approaches by applying contemporary techniques of modern biomedicine. It provides opportunities to acquire and develop the skills of synthesis, analysis and decision making, required for careers in the field of medical research. Thus, the students are trained as a subject specialist, a researcher, and a resource person, well equipped with the methodologies of modern trends of teaching and research in basic medical sciences. The program involves course work and original research thesis components.</p> <p>Pathology is a dynamic and rapidly evolving field incorporating the study of diseases with integration of all aspects of biomedical sciences to further the understanding of disease processes and develop methods for diagnosis, prevention, and treatment of disease. As an intellectual discipline, pathology bridges the basic and clinical sciences. Basic research into the causes and mechanisms of disease (experimental pathology) goes hand in glove with identifying the morphologic and biochemical manifestations of disease in human patients (anatomic and clinical pathology, respectively). All of these aspects of pathology have important diagnostic and therapeutic implications for patient care. In modern medical practice laboratory investigations play a pivotal role not only in disease diagnosis but also assessing response to treatment and follow up for prognosis.</p> |
| Course Title (As approved by PMC/HEC) | M.Phil in Pathology |
| Course Duration | 2 – 4 Years |
| Type of Study | Full time |
| Study System | Semesters system |
| Total Credit Hours | 30 |
| Credit Hours Distribution –Semester Wise | <u>Credit Hours Distribution</u> Semester I =12 Semester II = 12 Semester III & IV = 06 (THESIS) |
| Study Hours Distribution | Course title = M.Phil Study per Semester = 16 weeks |



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| | Examination = 2 weeks Semester Break = 2 weeks Working Hours = 8:30am - 3:00pm (except Friday) |
| Teaching Hours Distribution | Lecture hours/ Facilitation / Self Directed Studies/ Lab training/ Internship |
| Modules Detail with Credit Hours | See Appendix - I |
| Assessment of Student | <ul style="list-style-type: none"> • Continuous Internal Assessment (<i>During Semester</i>) • Semester Examination • Thesis Defense Examination |
| Teaching Institution | School of Post-graduate Studies (SPGS) |
| Degree Awarding Institution | Dow University of Health Sciences, Karachi |



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| Modules with Credit Hours | | | | |
|---------------------------|----------|--------------------------------------|-------------|-------------|
| Year | Semester | Title of Course | Course Code | Credit Hrs. |
| 1 st | I | Medical Genetics | HBMS 701 | 2 |
| | | Fundamentals of Molecular Biology | HBMS 703 | 2 |
| | | Research Methodology | HBMS 705 | 2 |
| | | Biostatistics in Health and Medicine | HBMS 707 | 2 |
| | | Epidemiology | HBMS 709 | 2 |
| | | Instrumentation Techniques | HBMS 711 | 2 |
| | II | General Pathology | PATH 701 | 3 |
| | | Microbiology & Hematology | PATH 703 | 3 |
| | | Systemic Pathology–I | PATH 702 | 3 |
| | | Systemic Pathology–II | PATH 704 | 3 |
| Internship | | HBMS 712 | NCH | |
| 2 nd | III | Internship | HBMS 713 | NCH |
| | | Research work | HBMS 799 | 6 |
| | IV | Research work & Submission of Thesis | | |
| | | Internship | HBMS 714 | NCH |
| TOTAL CREDIT HOURS | | | | 30 |