



# **DOW UNIVERSITY OF HEALTH SCIENCES**

**SCHOOL OF POSTGRADUATE STUDIES**

## **PROGRAM SPECIFICATION - SESSION 2026-27**

### **Introduction of Institute & Program**

Dow University of Health Sciences (DUHS) offers postgraduate education through the School of Postgraduate Studies (SPGS). Oversight of research and the academic program is carried out by university bodies including the Board of Advanced Studies and Research (BASR), Institutional (ethical) Review Board (IRB), Doctoral Admission Committee, and other similar entities. Currently, over 180 M. Phil and PhD students have graduated from DUHS and are holding key positions at esteemed national and international institutions.

Among the PhD programs of DUHS, MPhil and PhD programs in Microbiology are also being offered, which is an expanding, interdisciplinary field with applications in academia and industry. The program's primary goal is to accelerate the development of novel diagnostic methods and therapies through a collaborative bench-to-bedside approach. The program covers a wide range of research areas in Microbiology, including Microbial Genetics, Bacterial and Viral Pathogenesis, Applied Microbiology and Biotechnology, Antimicrobial Strategies and Resistance Mechanisms. This comprehensive approach is designed to equip researchers with the knowledge and tools to explore the



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	<p>microbial world, addressing challenges in health, industry, and the environment.</p> <p>The Postgraduate programs in Microbiology are designed to equip researchers with a profound understanding of the subject, enabling them to explore the molecular underpinnings of diseases and create innovative diagnostics and therapeutics tailored to individual needs.</p>
<b>Course Title (As approved by PM&amp;DC/HEC)</b>	<b>Ph.D. – Microbiology</b>
<b>Course Duration</b>	<b>3-8 years</b>
<b>Type of Study</b>	<b>Full time</b>
<b>Study System</b>	<b>Semester system</b>
<b>Total Credit Hours</b>	<b>Total C.H. 48</b>
<b>Credit Hours Distribution –Semester Wise</b>	<b>12 Credit hours each for 2 semesters of course work, 30 credit hours for thesis</b>
<b>Study Hours Distribution</b>	<p><b>Study per Semester = 16 weeks</b></p> <p><b>Examination = 2 weeks</b></p> <p><b>Semester Break = 2 weeks</b></p> <p><b>Working Days = 8:30am - 3:00pm (except Friday)</b></p>
<b>Teaching Hours Distribution</b>	<p><b>Lecture hours/ Facilitation / Self Directed</b></p> <p><b>Studies/ Lab training</b></p>



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<p><b>Modules Detail with Credit Hours</b></p>	<p style="text-align: center;"><b>APPENDIX 1</b></p>
<p><b>Assessment of Student</b></p>	<p><b>Continuous Internal Assessment = 30 %</b></p> <p><b>Final Examination = 70%</b></p> <p><b>Total = 100%</b></p> <p style="text-align: center;"><b><u>Internal Assessment:</u></b></p> <ul style="list-style-type: none"> <li>• This shall consist of assignments, quizzes, and monthly tests, as decided by the Board of Studies of the program.</li> <li>• The schedule of internal assessment will be forwarded by the School of Postgraduate Studies &amp; Examination Department at the commencement of the semester.</li> <li>• There will be no retake of the internal assessment exam during the semester in which the student failed. The student may, however, retake the exam when offered to other batches.</li> <li>• The marks obtained by the students for internal assessment shall be submitted to the examination department before the commencement of the semester's final exam.</li> </ul> <p style="text-align: center;"><b><u>Semester Examination:</u></b></p> <ul style="list-style-type: none"> <li>• The final exam will be conducted by the Examination Department, DUHS, as per the pattern decided by the University.</li> </ul> <p><b>Students will have to obtain a minimum of 63% marks in total to pass the course.</b></p> <p style="text-align: center;"><b><u>Comprehensive Exam for Ph.D.:</u></b></p> <ul style="list-style-type: none"> <li>• After completing the required number of credit hours for a particular degree, and fulfilling the requirement in terms</li> </ul>



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	<p>of CGPA, a student shall be given a comprehensive examination covering all the courses studied for the degree.</p> <p><b><u>Retake Examination:</u></b></p> <ul style="list-style-type: none"><li>• Retake Examination will be conducted after every year as per the University policy. Student fails to clear the course; s/he has to retake the examination of the failed course. However, if s/he fails to clear the course in the retake examination (maximum 2 attempts) s/he has to repeat the course, whenever offered. In case a student repeats the course, which has already been taken, the old grade will be substituted with the new grade, (for CGPA calculation).</li></ul>
<b>Teaching Institution</b>	<b>School of Postgraduate Studies</b>
<b>Degree Awarding Institution</b>	<b>Dow University of Health Sciences, Karachi</b>



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## APPENDIX 1

<b>Year</b>	<b>Semester</b>	<b>Title of Course</b>	<b>Course Code</b>	<b>Credit Hrs.</b>
<b>1<sup>st</sup></b>	<b>I</b>	Research Methodology	HBMS 802	3
		Biostatistics in Health & Medicine	HBMS 805	3
		Epidemiology	HBMS 807	3
		Biosafety & Biosecurity	HBMS 810	3
	<b>II</b>	Medical Genetics & Molecular Medicine	HBMS 801	3
		Fundamentals of Molecular Biology,	HBMS 803	3
		Research Instrumentation & Techniques	HBMS 804	3
		<b>Teaching and Research Skills</b>	HBMS 806	3
<b>COMPREHENSIVE EXAMINATION</b>				
<b>2<sup>nd</sup> -4<sup>th</sup></b>	<b>III</b>	Synopsis development, submission and approval	HBMS 899	30
	<b>IV-VIII</b>	Research work		
		Submission of Thesis		
<b>TOTAL CREDIT HOURS</b>				<b>54</b>