



# **DOW UNIVERSITY OF HEALTH SCIENCES**

**SCHOOL OF POSTGRADUATE STUDIES**

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

<p><b>Introduction of Institute &amp; Program</b></p>	<p>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 Ph.D. students have graduated from DUHS and are holding key positions at esteemed national and international institutions.</p> <p>Among the Postgraduate programs of DUHS, M. Phil program in Microbiology is 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 knowledge and tools to explore the microbial world, addressing challenges in health, industry, and the environment.</p> <p>The M. Phil program in Microbiology is 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>
<p><b>Course Title (As approved by PM&amp;DC/HEC)</b></p>	<p>M. Phil – Microbiology</p>
<p><b>Course Duration</b></p>	<p>2-4 years</p>
<p><b>Type of Study</b></p>	<p>Full time</p>



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<b>Study System</b>	Semester
<b>Total Credit Hours</b>	Total C.H. 30
<b>Credit Hours Distribution –Semester Wise</b>	12 Credit hours each for 2 semesters of coursework 06 credit hours for thesis Total Credit Hours: 30
<b>Study Hours Distribution</b>	Study per Semester = 16 weeks Examination = 2 weeks Semester Break = 2 weeks Working Days = 8:30am - 3:00pm (except Sunday)
<b>Teaching Hours Distribution</b>	Lecture hours/ Facilitation / Self Directed  Studies/ Lab training
<b>Modules Detail with Credit Hours</b>	<b>See Appendix 1</b>



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### **Assessment of Student**

Final Examination = 70%

Internal Assessment = 30 %

Total = 100%

#### **Internal Assessment:**

This shall consist of assignments, quizzes, and monthly tests, as decided by the Board of Studies of the program.

The schedule of internal assessment will be forwarded by the School of Postgraduate Studies & Examination Department at the commencement of the semester.

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.

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.

#### **Semester Examination:**

The final exam will be conducted by the Examination Department, DUHS, as per the pattern decided by the University.

Students will have to obtain a minimum of 63% marks in total to pass the course.

#### **Retake Examination:**

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) she/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



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	the new grade, (for CGPA calculation).
<b>Teaching Institution</b>	School of Postgraduate Studies
<b>Degree Awarding Institution</b>	Dow University of Health Sciences, Karachi



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### APPENDIX 1

Year	Semester	Title of Course	Course Code	Credit Hrs.
1 <sup>st</sup>	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
		Biosafety and Biosecurity	HBMS 711	2
	II	General Pathology	PATH 701	3
		Microbiology & Hematology	PATH 703	3
		Systemic Microbiology –I	PATH-706	3
		Systemic Microbiology –II	PATH-708	3
2 <sup>nd</sup>	III	Synopsis submission and approval	-	-
	IV	Thesis submission and defense	HBMS 799	6
<b>TOTAL CREDIT HOURS</b>				<b>30</b>