



DOW UNIVERSITY OF HEALTH SCIENCES

SCHOOL OF POSTGRADUATE STUDIES

SCHOOL OF PUBLIC HEALTH

MASTERS OF SCIENCE IN BIostatISTICS AND EPIDEMIOLOGY SESSION-2022

Introduction of Institute & Programs	School of Public Health
Course Title	Master of Science in Biostatistics and Epidemiology (MSBE)
Course Duration	Two years
Type of Study	Semesters System
Study System	1st Year courses: 1st semester – 5 modules 2nd semester – 5 modules Mini Semester = <i>6-8 weeks internship</i> 2nd Year Courses: 3rd semester – 3 modules 4th semester – 1 module & Dissertations/Research
Total Credit Hours	Total credit hours of the program: 46 (Thesis) Total credit hours of the program: 43 (Research Project) 40 Credit hours (Course Work) 6 Credit hours (Thesis) / 3 Credit hours (Research Project)
Credit Hours Distribution – Semester Wise	Credit Hours Distribution Course work & Research Work (48 Credit hours) Semester 1 = 14 Credit hours Semester 2 = 15 Credit hours Semester 3 = 08 Credit hours Semester 4 = 09/06 Credit hours TOTAL CREDIT HOURS OF THE PROGRAM = 46/43
Course Title with Study Hours Distribution	Study Weeks per Semester = 16 weeks Examination = 2 weeks Semester Break = 2 weeks Working Days = Saturday 03:00PM to 09:00PM Sunday 03:00PM to 06:00PM
Teaching Hours Distribution	Lecture hours Practical / Lab. Hours/ Self Directed Studies



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MODULES DETAIL WITH CREDIT HOURS		MSBE	
Semester-1	Modules	Credit Hours	Semester Credit Hours
MSBE 701	Fundamentals of Epidemiology	3	3
MSBE 702	Introduction to Biostatistics	3	3
MSBE 703	Fundamentals of Public Health	3	3
MSBE 704	Research Methodology	3	3
MSBE 705	Fundamentals of Mathematics	2	2
			14 Credit Hours

Semester-2	Modules	Credit Hours	Semester Credit Hours
MSBE 706	Communicable Diseases	3	3
MSBE 707	Biostatistics II	3	3
MSBE 708	Advanced Epidemiology	3	3
MSBE 709	Non-communicable and newly emerging diseases	3	3
MSBE 710	Demography	3	3
			15 credit hours

Semester-3	Modules	Credit Hours	Semester Credit Hours
MSBE 711	Statistical Methods in Epidemiology	3	3
MSBE 712	Biostatistics III	3	3
MSBE 713	Survey Sampling	2	2
			08 credit hours

Semester-4	Modules	Credit Hours	Semester Credit Hours
MSBE714	Multivariate Modeling and Advanced Biostatistics	3	3
MSBE715	Thesis/Research Project	6/3	6/3
			TOTAL 46/43 CREDIT HOURS COURSE



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Teaching Institute	School of Public Health
Degree Awarding Institution	Dow University of Health Sciences
Eligibility / Admission Criteria	Application for admission in this program must have a 4-year bachelor's degree in a discipline related to health sciences or statistics from an accredited institution, approved by Higher Education Commission of Pakistan. Such fields include, but not limited to, medicine, biology, dentistry, nursing, health science, veterinary sciences, psychology, biostatistics, statistics and mathematics. Applicants will require sending the application form along with academic records; two letters of reference and a brief outline of his/her career goals.