

**DEPARTMENT OF BIOCHEMISTRY
JINNAH UNIVERSITY FOR WOMEN**

MS PROGRAM IN BIOCHEMISTRY

SEMESTER-I

Sr.#	Course #	Course Title	Credit Hours
Compulsory Courses			
1	GRC-5011/7011	Research Methodology	3+0
2	BIO- 5011 /7011	Advanced Biochemical Techniques	3+0
3	BIO- 5021 /7021	Advances in Molecular Biology	3+0
4	BIO- 5031 /7031	Advances in Biochemistry	3+0

SEMESTER II

Sr.#	Course #	Course Title	Credit Hours
Students have to select 2 courses of their specialized field and 2 other courses.			
1	BIO- 5042/7042	Advanced Enzymology	3+0
2	BIO- 5052 /7052	Advanced Hematology	3+0
3	BIO- 5062 /7062	Advances in Clinical Biochemistry	3+0
4	BIO- 5072 /7072	Molecular Neurosciences	3+0
5	BIO- 5082 /7082	Advanced Neurochemistry	3+0
6	BIO- 5092 /7092	Advanced Fermentation Biotechnology	3+0

Other Optional:			
1	BIO-510X/710X	Biostatistics in research	3+0
2	BIO- 511X/711X	Cellular Signaling	3+0
3	BIO-512X/712X	Advances in Endocrinology	3+0
4	BIO-513X/713X	Molecular Mechanism of Diseases	3+0
5	BIO-514X/714X	Renewable Bioenergy Resources	3+0
6	BIO-515X/715X	Forensic Serology and DNA Analysis	3+0