



**INTEGRAL UNIVERSITY, LUCKNOW**  
**INTEGRAL INSTITUTE OF ALLIED HEALTH SCIENCES & RESEARCH**  
**DEPARTMENT OF BASIC MEDICAL SCIENCES**

**BACHELOR OF SCIENCE IN MEDICAL MICROBIOLOGY**  
**(B.Sc. MM)**  
**SYLLABUS AND EVALUATION SCHEME**  
**YEAR/ SEMESTER**  
**II/III &**  
**II/IV &**  
**PEOs-POs-PSOs**



**Integral University, Lucknow**  
**Department of Basic Medical Sciences**  
**Study and Evaluation Scheme**

**Program: B.Sc. MM**

**Semester-III**

S. N.	Course code	Course Title	Type of Paper	Period Per hr/week/sem			Evaluation Scheme				Sub. Total	Credit	Total Credits
				L	T	P	CT	TA	Total	ESE			
<b>THEORIES</b>													
1	MM201	Clinical Hematology-I	Core	3	1	0	40	20	60	40	100	3:1:0	4
2	MM202	General Pathology	Core	2	1	0	40	20	60	40	100	2:1:0	3
3	MM203	Medical Biochemistry-II	Core	3	1	0	40	20	60	40	100	3:1:0	4
4	MM204	Fundamentals of Microbiology	Core	3	1	0	40	20	60	40	100	3:1:0	4
5	MM205	Immunology & Serology	Core	2	1	0	40	20	60	40	100	2:1:0	3
6	ES101	Environmental Science	Core	2	1	0	40	20	60	40	100	2:1:0	3
<b>PRACTICAL</b>													
1	MM206	Clinical Hematology-I Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
2	MM207	Fundamentals of Microbiology Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
3	MM208	Medical Biochemistry-II Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
4	MM209	Immunology & Serology Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
<b>Total</b>				<b>15</b>	<b>06</b>	<b>08</b>	<b>400</b>	<b>200</b>	<b>600</b>	<b>400</b>	<b>1000</b>	<b>25</b>	<b>25</b>

S. N.	Course code	Course Title	Type of Paper	Attributes						United Nation Sustainable Development Goal (SDGs)	
				EMBloyability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	HuMBn Value		Professional Ethics
<b>THEORIES</b>											
1	MM201	Clinical Hematology-I	Core	√	√	√			√	√	3,4
2	MM202	General Pathology	Core	√	√	√			√	√	3,4
3	MM203	Medical Biochemistry-II	Core	√	√	√			√	√	3,4
4	MM204	Fundamentals of Microbiology	Core	√	√	√			√	√	3,4
5	MM205	Immunology & Serology	Core			√					3,4,11
6	ES101	Environmental Science	Core	√	√	√			√	√	3,4
<b>PRACTICAL</b>											
1	MM206	Clinical Hematology-I Lab	Core	√	√	√			√	√	3,4
2	MM207	Fundamentals of Microbiology Lab	Core	√	√	√			√	√	3,4
3	MM208	Medical Biochemistry-II Lab	Core	√	√	√			√	√	3,4
4	MM209	Immunology & Serology Lab	Core	√	√	√			√	√	3,4

**L:** Lecture      **T:** Tutorials      **P:** Practical      **CT:** Class Test      **TA:** Teacher Assessment      **ESE:** End Semester Examination,  
**AE=** Ability Enhancement, **DSE-** Discipline Specific Elective, **Sessional Total:** Class Test + Teacher Assessment      **Subject Total:** Sessional Total + End Semester Examination (ESE)



**Integral University, Lucknow**  
**Department of Basic Medical Sciences**  
**Study and Evaluation Scheme**

**Program: B.Sc. MM**

**Semester-IV**

S. N.	Course code	Course Title	Type of Paper	Period Per hr/week/sem			Evaluation Scheme				Sub. Total	Credit	Total Credits
				L	T	P	CT	TA	Total	ESE			
<b>THEORIES</b>													
1	MM210	Clinical Hematology-II	Core	3	1	0	40	20	60	40	100	3:1:0	4
2	MM211	Systemic Pathology	Core	3	1	0	40	20	60	40	100	3:1:0	4
3	MM212	Parasitology	Core	3	1	0	40	20	60	40	100	3:1:0	4
4	MM213	Systemic Bacteriology	Core	3	1	0	40	20	60	40	100	3:1:0	4
5	MM214	Principles of Laboratory Management	Core	3	1	0	40	20	60	40	100	3:1:0	4
<b>PRACTICAL</b>													
1	MM215	Clinical Hematology-II Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
2	MM216	Systemic Bacteriology Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
3	MM217	Parasitology Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
4	MM218	Clinical Posting	Core	0	0	2	40	20	60	40	100	0:0:1	1
<b>Total</b>				<b>15</b>	<b>05</b>	<b>08</b>	<b>360</b>	<b>180</b>	<b>540</b>	<b>360</b>	<b>900</b>	<b>25</b>	<b>25</b>

S. N.	Course code	Course Title	Type of Paper	Attributes						United Nation Sustainable Development Goal (SDGs)	
				EMBloyability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	HuMBn Value		Professional Ethics
<b>THEORIES</b>											
1	MM210	Clinical Hematology-II	Core	√	√	√			√	√	3,4
2	MM211	Systemic Pathology	Core	√	√	√			√	√	3,4
3	MM212	Parasitology	Core	√	√	√			√	√	3,4
4	MM213	Systemic Bacteriology	Core	√	√	√			√	√	3,4
5	MM214	Principles of Laboratory Management	Core					√			3,4
<b>PRACTICAL</b>											
1	MM215	Clinical Hematology-II Lab	Core	√	√	√			√	√	3,4
2	MM216	Systemic Bacteriology Lab	Core	√	√	√			√	√	3,4
3	MM217	Parasitology Lab	Core	√	√	√			√	√	3,4
4	MM218	Clinical Posting	Core	√	√	√			√	√	3,4

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**AE=** Ability Enhancement, **DSE-** Discipline Specific Elective, **Sessional Total:** Class Test + Teacher Assessment      **Subject Total:** Sessional Total + End Semester Examination (ESE)

