

# INTEGRAL UNIVERSITY, LUCKNOW INTEGRAL INSTITUTE OF ALLIED HEALTH SCIENCES & RESEARCH DEPARTMENT OF PARAMEDICAL SCIENCES

BACHELOR OF MEDICAL LABORATORY SCIENCE (BMLS)

SYLLABUS AND EVALUATION SCHEME
YEAR/ SEMESTER
II/III & II/IV
&
PEOs-POs-PSOs



#### Integral University, Lucknow Department of Paramedical Sciences Study and Evaluation Scheme

Program: BMLS Semester-III

S. N.	Course	Course Title	Type of Paper	Period Per hr/week/sem			Evaluation Scheme				Sub.	Credit	Total
14.	code	dourse Thie	or ruper	L	T	P	CT	TA	Total	ESE	Total	create	Credits
					THEOR	IES							
1	LS201	Clinical Hematology - I	Core	2	1	0	40	20	60	40	100	2:1:0	3
2	LS202	Histopathology & Histo-techniques - I	Core	2	1	0	40	20	60	40	100	2:1:0	3
3	LS203	Medical Biochemistry -II	Core	2	1	0	40	20	60	40	100	2:1:0	3
4	LS204	Fundamentals of Microbiology - I	Core	2	1	0	40	20	60	40	100	2:1:0	3
5	LS205	Immunology & Serology - I	Core	2	1	0	40	20	60	40	100	2:1:0	3
6	ES101	Environmental Studies	Core	2	1	0	40	20	60	40	100	2:1:0	3
	PRACTICAL												
1	LS206	Clinical Hematology - I Lab	Core	0	0	4	40	20	60	40	100	0:0:2	2
2	LS207	Histopathology & Histo-Techniques – II	Core	0	0	4	40	20	60	40	100	0:0:2	2
3	LS208	Medical Biochemistry -II Lab	Core	0	0	4	40	20	60	40	100	0:0:2	2
4	LS209	Fundamentals of Microbiology & Immunology-I Lab	Core	0	0	4	40	20	60	40	100	0:0:2	2
		Total		12	06	16	12	06	16	400	600	26	26

S.			Туре		United Nation						
N.	Course code	Course Title	of Paper	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	Sustainable Development Goal (SDGs)
		THEORIES									
1	LS201	Clinical Hematology - I	Core	√	√	√	$\checkmark$		√	$\checkmark$	3,4
2	LS202	Histopathology & Histo-techniques - I	Core	√	√	<b>√</b>	√		~	√	3,4
3	LS203	Medical Biochemistry -II	Core	√	√	√	√		√	√	3,4
4	LS204	Fundamentals of Microbiology - I	Core	√	√	√	√		√	√	3,4
5	LS205	Immunology & Serology - I	Core	√	√	√	√		√	√	3,4
6	ES101	Environmental Studies	Core			√		√			3,4
		PRACTICAL									
1	LS206	Clinical Hematology - I Lab	Core	√	√	√	√		√	√	3,4
2	LS207	Histopathology & Histo-Techniques – II	Core	√	√	√	√		√	√	3,4
3	LS208	Medical Biochemistry -II Lab	Core	√	√	√	√		√	√	3,4
4	LS209	Fundamentals of Microbiology & Immunology-I Lab		√	√	√	√		√	√	3,4
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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 (E

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#### Integral University, Lucknow Department of Paramedical Sciences Study and Evaluation Scheme

Program: BMLS Semester-IV

S. N.	Course	Course Title	Type	Period Per hr/week/sem			Evaluation Scheme				Sub. Total	Cnadit	Total
IN.	code	Course Tide	of Paper	L	T	P	CT	TA	Total	ESE		Credit	Credits
	THEORIES												
1	LT210	Clinical Haematology-II	Core	2	1	0	40	20	60	40	100	2:1:0	3
2	LT211	Histopathology & Histotechniques-II	Core	2	1	0	40	20	60	40	100	2:1:0	3
3	LT212	Clinical Biochemistry	Core	2	1	0	40	20	60	40	100	2:1:0	3
4	LT213	Systemic Bacteriology	Core	2	1	0	40	20	60	40	100	2:1:0	3
5	LT214	Principles of Laboratory Management	Core	2	1	0	40	20	60	40	100	2:1:0	3
					PRAC	TICAL							
1	LT215	Clinical Hematology-II Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
2	LT216	Histopathology & Histotechniques-II Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
3	LT217	Clinical Biochemistry - Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
4	LT218	Hospital Posting	Core	0	0	14	40	20	60	40	100	0:0:1	7
		Total		10	05	20	360	180	540	360	900	25	25

S.	Course		Type		United Nation Sustainable						
N.	code	Course Title	of Paper	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	Development Goal (SDGs)
THE	ORIES										
1	LT210	Clinical Haematology-II	Core	√	√	√			√	√	3,4
2	LT211	Histopathology & Histotechniques-II	Core	√	√	√			√	√	3,4
3	LT212	Clinical Biochemistry	Core	√	√	√			√	√	3,4
4	LT213	Systemic Bacteriology	Core	√	√	√			√	√	3,4
5	LT214	Principles of Laboratory Management	Core	√	√	√			√	√	3,4
PRACT	ΓICAL										
1	LT215	Clinical Hematology-II Lab	Core	√	√	√			√	√	3,4
2	LT216	Histopathology & Histotechniques-II Lab	Core	√	√	√			√	√	3,4
3	LT217	Clinical Biochemistry - Lab	Core	√	√	√			√	√	3,4
4	LT218	Hospital Posting	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 Semester Examination (ESE) **Subject Total:** Sessional Total + End

### BACHELOR OF MEDICAL LABORATORY SCIENCE (BMLS)



Program Educational Outcomes (PEOs)

#### **Program Educational Outcomes (PEOs)**

The PEOs are broad statements that describe the career and professional accomplishments that the program is preparing its graduates to achieve in few years subsequent to receiving the degree. The PEO's of the BMLS program are as follows and the graduates of the Integral University forensic science program will be expected to:

<b>PEO1</b> :	Upgrade knowledge and skills in a changing healthcare scenario. Communicate with other
	members of healthcare team, customers and patients in an effective manner.
PEO2:	Should be able to extrapolate data acquired. Perform routine clinical laboratory testing.
<b>PEO3</b> :	Make specimen-oriented decisions on predetermined criteria including working knowledge of
	critical values. Process information and ensure quality control as appropriate to routine
	laboratory procedures.
PEO4:	Train students in routine laboratory procedure. Should know the logical interpretation of clinical
	lab investigations.
PEO5:	Should be able to working on automated machine. Every individual to address problem solving
	and judgement in efficient manner.

### BACHELOR OF MEDICAL LABORATORY SCIENCE (BMLS)



PROGRAMME OUTCOMES (POs)

#### BACHELOR OF MEDICAL LABORATORY SCIENCE (BMLS) PROGRAMME OUTCOMES (POS)

#### PROGRAMME OUTCOMES (POs) POs and its Attributes: -

• Program Outcomes (POs) are attributes of the graduates of the Programme that are the medical laboratory science Programme is to prepare students to deals with all the clinical laboratory investigations on clinical samples for laboratory diagnosis of various diseases. Blood, tissue and body fluids are analyzed and examined for various types of foreign organisms and abnormalities. This information is then used by the medical team to make decisions regarding a patient's medical care. 85% of all medical decisions are based on the results of clinical laboratory investigation reports. The graduates of medical laboratory Sciences Programme of the Integral University will be expected to:

PO-1:	Collection and receiving of specimens (infectious samples i.e. blood, urine, stool, sputum, pus, semen, tissues and body
10-1.	fluids) for various biochemical, pathological, microbiological, haematological and blood bank investigations, etc.
PO-2:	To perform and validate various investigations for the purpose of differential diagnosis.
PO-3:	Calibration and standardization of glassware 's and other laboratory equipment.
PO-4:	Standardization and selection of test analytical procedures.
PO-5:	Maintenance of supplies of laboratory reagents / diagnostic kits.
PO-6:	Evaluation of reagents and diagnostic kit for diagnostic suitability.
PO-7:	Maintenance of quality control for reliability of laboratory reports.
PO-8:	Preparation of chemical and biological reagents.
PO-9:	Supervision, organization of work and personnel management.
PO-10:	Maintenance of records and preparation.
PO-11:	Then they analyze the results and relay them to physicians.

## BACHELOR OF MEDICAL LABORATORY SCIENCE (BMLS)



Program Specific Outcomes (PSOs)

## BACHELOR OF MEDICAL LABORATORY SCIENCE (BMLS) PROGRAMME SPECIFIC OUTCOME (PSOs)

Program Specific Objectives (PSOs) are specific statements that describe the professional career accomplishment that the program is designed. The PSO's of the BMLS program are as follows:

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