

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

## BACHELOR OF SCIENCE IN BLOOD BANKING TECHNOLOGY (B.Sc. BBT) SYLLABUS AND EVALUATION SCHEME YEAR/ SEMESTER I/I & I/II & PEOs-POs-PSOs



#### Integral University, Lucknow Department of Paramedical Sciences <u>Study and Evaluation Scheme</u>

### Program: B.Sc. BBT

Semester-I

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S. N.	Course code	Course Title	Type of Paper	Period Per hr/week/sem			Evaluation Scheme				Sub. Total		Total
	coue		-	L	T THEOR	P	СТ	TA	Total	ESE	Tou		Cicun
1	BB101	Human Anatomy- I	Core	3	1		40	20	60	40	100	) 3:1:0	4
2	BB101	Human Physiology-I	Core	3	1	0	40	20	60	40	100		4
3	BB103	Basic of Biochemistry	Core	3	1	0	40	20	60	40	100		4
4	BB104	Basic Preventive Medicine & Community Health Care	Core	3	1	0	40	20	60	40	100		
5	LN101	Basic Professional Communication	Core	2	1	0	40	20	60	40	100	) 2:1:0	3
5	CS103	Introduction to Computers	Core	2	1	0	40	20	60	40	100	) 2:1:0	3
					PRACTI	1 1				l		F	
1	BB105	Human Anatomy- I Lab	Core	0	0	2	40	20	60	40	100		1
2	BB106	Human Physiology-I Lab	Core	0	0	2	40	20	60	40	100		1
3	BB107	Basic of Biochemistry-I Lab	Core	0	0	2	40	20	60	40	100		1
		Total		16	06	06	360	180	540	360	900	) 25	25
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S. N.	Cours e code	Course Title	Type of Paper	Employa	ability Entr	repreneurshi	p Skill Developmer	Attribute Gender t Equality	Enviro	nment & nability	Human Value	Professional Ethics	Sustainable
	e code	THEORIES		Employa	ability Entr	repreneurshi	1		Enviro				Sustainable Development (
N.	е			Employa	ability Entr	r <b>epreneursh</b> i √	1		Enviro				Sustainable Development (
<b>N.</b> 1	e code	THEORIES	of Paper		ability Entr		p Skill Developmer		Enviro		Value	Ethics	Sustainable Development ( (SDGs)
<b>N.</b> 1 2	e code BB101	THEORIES Human Anatomy- I	of Paper Core	√	ability Entr	√	p Skill Developmen √		Enviro		Value √	Ethics √	Sustainable Development ( (SDGs) 3,4
N. 1 2 3	e code BB101 BB102	THEORIES Human Anatomy- I Human Physiology-I	of Paper       Core       Core	√ √	ability Entr	√ √	p Skill Developmen √ √		Enviro		Value √ √	Ethics √ √	Sustainable Development ( (SDGs) 3,4 3,4 3,4
N. 1 2 3 4	e code BB101 BB102 BB103	THEORIES         Human Anatomy- I         Human Physiology-I         Basic of Biochemistry         Basic Preventive Medicine & Community	of Paper       Core       Core       Core       Core	√ √ √	ability Entr	√ √ √	P Skill Developmen √ √ √		Enviro		Value           √           √           √	Ethics           √           √           √	3,4 3,4 3,4 3,4
N. 1 2 3 4 5	e code BB101 BB102 BB103 BB104	THEORIES         Human Anatomy- I         Human Physiology-I         Basic of Biochemistry         Basic Preventive Medicine & Community         Health Care	Core Core Core Core Core	√ √ √	ability Entr	√ √ √	P Skill Developmen √ √ √ √ √		Enviro		Value           √           √           √	Ethics           √           √           √	Sustainable Development ( (SDGs) 3,4 3,4 3,4 3,4 3,4 3,4
N. 1 2 3 4 5	e code BB101 BB102 BB103 BB104 LN101	THEORIESHuman Anatomy- IHuman Physiology-IBasic of BiochemistryBasic Preventive Medicine & Community Health CareBasic Professional Communication	Core Core Core Core Core Core		ability Entr	√ √ √	P Skill Developmen √ √ √ √ √ √ √		Enviro		Value           √           √           √           √	Ethics           √           √           √           √	Sustainable Development ( (SDGs) 3,4 3,4 3,4 3,4 3,4 3,4 3,4
N. 1 2 3 4 5 6	e code BB101 BB102 BB103 BB104 LN101	THEORIESHuman Anatomy- IHuman Physiology-IBasic of BiochemistryBasic Preventive Medicine & Community Health CareBasic Professional CommunicationIntroduction to Computers	Core Core Core Core Core Core		ability Entr	√ √ √	P Skill Developmen √ √ √ √ √ √ √		Enviro		Value           √           √           √           √	Ethics           √           √           √           √	Sustainable Development ( (SDGs) 3,4 3,4 3,4 3,4 3,4 3,4 3,4
	e code BB101 BB102 BB103 BB104 LN101 CS103	THEORIES         Human Anatomy- I         Human Physiology-I         Basic of Biochemistry         Basic Preventive Medicine & Community         Health Care         Basic Professional Communication         Introduction to Computers         PRACTICAL	Of Paper       Core       Core       Core       Core       Core       Core       Core       Core		ability Entr	√ √ √ √	P Skill Development V V V V V V V V V V V		Enviro		Value           √           √           √           √           √	Ethics  √  √  √  √  √  √  √  √  √	Sustainable Development ( (SDGs) 3,4 3,4 3,4 3,4 3,4 3,4,11 3,4

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



#### Integral University, Lucknow Department of Paramedical Sciences <u>Study and Evaluation Scheme</u>

	Pre	ogram: B.Sc. BBT											Seme	ester-II
	S. Course			Туре	Period Per hr/week/sem		Eva		luation Scheme		Sub. Total	al c	Total Credits	
N	code	Course Title		of Paper	L	Т	Р	СТ	TA	Total	ESE	545.100	al Credit	
	•	1		THEOI		-	1	-		T		r		
1	BB108			Core	2	1	0	40	20	60	40	100	2:1:0	3
2	BB109			Core	2	1	0	40	20	60	40	100	2:1:0	3
3	BB110			Core	3	1	0	40	20	60	40	100	3:1:0	4
4	BB111			Core	3	1	0	40	20	60	40	100	3:1:0	4
5	BB112			Core	3	1	0	40	20	60	40	100	3:1:0	4
6	6 LN131 Effective Communication and Media Studies in English			Core PRACTI	2	1	0	40	20	60	40	100	2:1:0	3
1	BB113	Human Anatomy-II - Lab		Core		0	2	40	20	60	40	100	0:0:1	1
2	BB114			Core	0	0	2	40	20	60	40	100	0:0:1	1
3	BB11			Core	0	0	2	40	20	60	40	100	0:0:1	1
4			b	Core	0	0	2	40	20	60	40	100	0:0:1	1
		Total	L		15	06	08	400	200	600	400	1000	25	25
	Туре					Attailantaa							United Nation	
S.	Course		of		Attributes ntrepreneursh Skill Gender Environment & Human					Professional	Sustainable			
N.	code	Course Title	Pape		ip	eursn	Develo		Equali		tainability	Value	Ethics	Development Goal (SDGs)
Т	IEORIES													
1	BB108	Human Anatomy-II	Core	$\checkmark$	$\checkmark$		v	/				$\checkmark$	$\checkmark$	3,4
2	BB109	Human Physiology-II	Core	√	$\checkmark$		V	/				$\checkmark$	$\checkmark$	3,4
3	3 BB110 Medical Biochemistry-I Core		Core	√	$\checkmark$		v	/				$\checkmark$	$\checkmark$	3,4
4	BB111	Introduction to Pathology, Hematology & Clinical Pathology	Core	√	$\checkmark$		v	/				$\checkmark$	$\checkmark$	3,4
5	5 BB112 Medical Law & Ethics Core		Core											3,4
6	LN131	Effective Communication and Media Studies in English	Core				v	/						3,4, 11
PR	PRACTICAL													
1	BB113	Human Anatomy-II - Lab	Core	√	$\checkmark$		V	/				√	V	3,4
2	BB114	Human Physiology-II - Lab	Core	√	$\checkmark$		v	/				$\checkmark$	$\checkmark$	3,4
3	BB115	Medical Biochemistry-I – Lab	Core	√	$\checkmark$		v	/				$\checkmark$	$\checkmark$	3,4
4	BB116	Introduction to Pathology, Hematology & Clinical Pathology- Lab	Core	$\checkmark$	$\checkmark$		V	/				$\checkmark$	$\checkmark$	3,4
										·				
		L: Lecture T: Tutorial P: Practical	(	CT: Class Te	est	TA:	Teache	er Asse	essment	ESE: End	d Semeste	r Examinati	ion	

AE= Admity Enhancement, DSE- Discipline Specific Elective, Sessional Total: Class Test + Teacher Assessment Subject Total: Sessional Total + End Semester

# BACHELOR OF SCIENCE IN BLOOD BANKING TECHNOLOGY (B.Sc. BBT)



# 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 B.Sc. BBT program are as follows and the graduates of the Integral University forensic science program will be expected to:

PEO1:	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.
PEO3:	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 SCIENCE IN BLOOD BANKING TECHNOLOGY (B.Sc. BBT)



# PROGRAMME OUTCOMES (POs)

### BACHELOR OF SCIENCE IN BLOOD BANKING TECHNOLOGY (B.Sc. BBT) PROGRAMME OUTCOMES (POS)

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

Program Outcomes (POs) are attributes of the graduates of the Programme that are the B.Sc. BBT 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:

P0-1:	Collection and receiving of specimens (infectious samples i.e. blood, urine, stool, sputum, pus, semen, tissues and body
PU-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.
P0-11:	Then they analyze the results and relay them to physicians.
LI	

<b>PO-12:</b> With increasing automation and the use of computer technology, the work of Technologists has become less hands-on
BACHELOR OF SCIENCE IN BLOOD BANKING TECHNOLOGY (B.Sc. BBT)
Program Specific Outcomes (PSOs)

## BACHELOR OF SCIENCE IN BLOOD BANKING TECHNOLOGY (B.Sc. BBT) 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 B.Sc. BBT program are as follows:

<b>PSO1</b> :	Students will be able to know about the Clinical samples collection handling, preservation & processing.
<b>PSO2:</b>	The student able to perform and validate various investigations for the purpose of differential diagnosis.
<b>PSO3</b> :	Maintenance of quality control for reliability of laboratory reports
<b>PSO4</b> :	Supervision, organization of work and personnel management.
	With increasing automation and the use of computer technology, the work of Technologists has become less
PSO5:	hands-on and more analytical.