

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

BACHELOR OF SCIENCE IN RESPIRATORY CARE TECHNOLOGY
(B.Sc. RCT)
SYLLABUS AND EVALUATION SCHEME
YEAR/ SEMESTER
I/I & I/II
& PEOS-POS-PSOS



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

Program: B.Sc. RCT Semester-I

S. N.	Course code	Course Title	Type of Paper	Period P	Period Per hr/week/sem			Evaluatio TA	n Scheme Total	ESE	Sub. Total	Credit	Total Credits
			<u> </u>		THEOR	IES	СТ		10001				
1	RC101	Human Anatomy- I	Core	3	1	0	40	20	60	40	100	3:1:0	4
2	RC102	Human Physiology-I	Core	3	1	0	40	20	60	40	100	3:1:0	4
3	RC103	Basic of Biochemistry	Core	3	1	0	40	20	60	40	100	3:1:0	4
4	RC104	Basic Preventive Medicine & Community Health Care	Core	3	1	0	40	20	60	40	100	3:1:0	4
5	LN101	Basic Professional Communication	Core	2	1	0	40	20	60	40	100	2:1:0	3
6	CS103	Introduction to Computers	Core	2	1	0	40	20	60	40	100	2:1:0	3
					PRACTI	CAL							
1	RC105	Human Anatomy- I Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
2	RC106	Human Physiology-I Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
3	RC107	Basic of Biochemistry-I Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
	Total			16	06	06	360	180	540	360	900	25	25

S.				United Nation Sustainable							
N.	Course code	Course Title	Type of Paper	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	Development Goal (SDGs)
		THEORIES									
1	RC101	Human Anatomy- I	Core	√	√	√			√	√	3,4
2	RC102	Human Physiology-I	Core	√	√	√			√	√	3,4
3	RC103	Basic of Biochemistry	Core	√	√	√			√	√	3,4
4	RC104	Basic Preventive Medicine & Community Health Care	Core	<b>√</b>	√	<b>√</b>			√	√	3,4
5	LN101	Basic Professional Communication	Core			√					3,4,11
6	CS103	Introduction to Computers	Core	√	√	√			√	√	3,4
PRACTICAL											
1	RC105	Human Anatomy- I Lab	Core	√	√	√			√	√	3,4
2	RC106	Human Physiology-I Lab	Core	√	√	√			√	√	3,4
3	RC107	Basic of Biochemistry-I 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 Examination (ESE)

Subject Total: Sessional Total + End Semester



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

Program: B.Sc. RCT Semester-II

S.	Course		Туре	Period Per hr/week/sem			Evaluation Scheme				C I mari		m . 10 11
N.	code	Course Title	of Paper	L	T	P	СТ	TA	Total	ESE	Sub. Total	Credit	Total Credits
	THEORIES												
1	RC108	Human Anatomy-II	Core	2	1	0	40	20	60	40	100	2:1:0	3
2	RC109	Human Physiology-II	Core	2	1	0	40	20	60	40	100	2:1:0	3
3	RC110	Medical Biochemistry-I	Core	3	1	0	40	20	60	40	100	3:1:0	4
4	RC111	Introduction to Pathology, Hematology & Clinical Pathology	Core	3	1	0	40	20	60	40	100	3:1:0	4
5	RC112	Medical Law & Ethics	Core	3	1	0	40	20	60	40	100	3:1:0	4
6	LN131	Effective Communication and Media Studies in English	Core	2	1	0	40	20	60	40	100	2:1:0	3
			PRACTI	CAL									
1	RC113	Human Anatomy-II - Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
2	RC114	Human Physiology-II - Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
3	RC115	Medical Biochemistry-I – Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
4	RC116	Introduction to Pathology, Hematology & Clinical Pathology- Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
	Total			15	06	08	400	200	600	400	1000	25	25

S	. Course		Type Attributes								United Nation Sustainable
N		Course Title	of Paper		Entrepreneursh ip	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	Development Goal (SDGs)
7	THEORIE	S									
1	RC108	Human Anatomy-II	Core	√	√	√			<b>√</b>	√	3,4
2	RC109	Human Physiology-II	Core	√	√	√			√	√	3,4
3	RC110	Medical Biochemistry-I	Core	√	√	√			√	√	3,4
4	RC111	Introduction to Pathology, Hematology & Clinical Pathology	Core	√	√	√			√	√	3,4
Ę	5 RC112	Medical Law & Ethics	Core					$\sqrt{}$			3,4
6	5 LN131	Effective Communication and Media Studies in English	Core			√					3,4, 11
ΡI	RACTICA	L									
1	RC113	Human Anatomy-II - Lab	Core	√	√	√			√	√	3,4
2	RC114	Human Physiology-II - Lab	Core	√	√	√			√	√	3,4
3	RC115	Medical Biochemistry-I – Lab	Core	√	√	√			√	√	3,4
4	RC116	Introduction to Pathology, Hematology & Clinical Pathology- Lab	Core	√	√	√			<b>√</b>	√	3,4

P: Practical

T: Tutorial

L: Lecture

CT: Class Test TA: Teacher Assessment ESE: End Semester Examination,

## BACHELOR OF SCIENCE IN RESPIRATORY CARE TECHNOLOGY (B.Sc. RCT)



# 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. RCT 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.
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.

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# PROGRAMME OUTCOMES (POs)

## BACHELOR OF SCIENCE IN RESPIRATORY CARE TECHNOLOGY (B.Sc. RCT) 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. RCT 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
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.
PO-11:	Then they analyze the results and relay them to physicians.

## BACHELOR OF SCIENCE IN RESPIRATORY CARE TECHNOLOGY (B.Sc. RCT)



Program Specific Outcomes (PSOs)

# BACHELOR OF SCIENCE IN RESPIRATORY CARE TECHNOLOGY (B.Sc. RCT) 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. RCT program are as follows:

PS01:	Students will be able to know about the Clinical samples collection handling, preservation & processing.
PS02:	The student able to perform and validate various investigations for the purpose of differential diagnosis.
PS03:	Maintenance of quality control for reliability of laboratory reports
PS04:	Supervision, organization of work and personnel management.
PSO5:	With increasing automation and the use of computer technology, the work of Technologists has become less hands-on and more analytical.