

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

BACHELOR OF SCIENCE IN CARDIOVASCLAR TECHNOLOGY (B.Sc. CVT) 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. CVT

Semester-I

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S. N.	Course code	Course Title	Type of Paper	Period F	Per hr/w	veek/sem	Ev CT	n Scheme Total ESE		Sub Tota	0 11.	Total t Credits	
					THEO	-	CI	TA	Total	LJL	-		
1	CV101	Human Anatomy- I	Core	3	1	0	40	20	60	40	100) 3:1:0	4
2	CV102	Human Physiology-I	Core	3	1	0	40	20	60	40	100) 3:1:0	4
3	CV103	Basic of Biochemistry	Core	3	1	0	40	20	60	40	100) 3:1:0	4
4	CV104	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
					PRACT	ICAL							
1	CV105	Human Anatomy- I Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
2	CV106	Human Physiology-I Lab	Core	0	0	2	40	20	60	40	100	0 0:0:1	1
3	CV107	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
c	_		Truno		Attributes United Natio								
S. N.	Course code	Course Title	Type of Paper	Employ	oyability Entrepreneursh		ip Skill Developme	Gende nt Equali	ender Environmer quality Sustainabil		Human Value	Professional Ethics	Sustainable Development Goal (SDGs)
		THEORIES			•								
1	CV101	Human Anatomy- I	Core			\checkmark	\checkmark				\checkmark	\checkmark	3,4
2	CV102	Human Physiology-I	Core	\checkmark		\checkmark		\checkmark				\checkmark	3,4
3	CV103	Basic of Biochemistry	Core			\checkmark					\checkmark	\checkmark	3,4
4	CV104	Basic Preventive Medicine & Community Health Care	Core			\checkmark	\checkmark				\checkmark	\checkmark	3,4
5	LN101	Basic Professional Communication	Core										3,4,11
6	CS103	Introduction to Computers	Core								\checkmark	\checkmark	3,4
		PRACTICAL			<u> </u>								
1	CV105	Human Anatomy- I Lab	Core			V	V					V	3,4
2	CV106	Human Physiology-I Lab	Core				V					√	3,4
3	CV107	Basic of Biochemistry-I Lab	Core					1				√	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 Examination (ESE) Subject Total: Sessional Total + End Semester



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

Program: B.Sc. CVT

L: Lecture

T: Tutorial

Semester-II

	Trogram, Dist, CVT Semester I												
S. N.	Course	Course Title	Type	Period Per hr/week/sem			Evaluation Scheme				Sub. Total	Curredite	Total Credits
IN.	code	course ritte	of Paper	L	Т	Р	СТ	TA	Total	ESE		Credit	rotar er cuito
	THEORIES												
1	CV108	Human Anatomy-II	Core	2	1	0	40	20	60	40	100	2:1:0	3
2	CV109	Human Physiology-II	Core	2	1	0	40	20	60	40	100	2:1:0	3
3	CV110	Medical Biochemistry-I	Core	3	1	0	40	20	60	40	100	3:1:0	4
4	CV111	Introduction to Pathology, Hematology & Clinical Pathology	Core	3	1	0	40	20	60	40	100	3:1:0	4
5	CV112	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	CV113	Human Anatomy-II - Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
2	CV114	Human Physiology-II - Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
3	CV115	Medical Biochemistry-I – Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
4	CV116	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	. Cou	Se .	Туре			United Nation Sustainable					
	I. co		of Paper		Entrepreneursh ip	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	Development Goal (SDGs)
	THEO	IES									
	1 CV1	08 Human Anatomy-II	Core	\checkmark		\checkmark					3,4
4	2 CV1	09 Human Physiology-II	Core	\checkmark		\checkmark					3,4
	3 CV1	10 Medical Biochemistry-I	Core	\checkmark		\checkmark					3,4
2	4 CV1	1 Introduction to Pathology, Hematology & Clinical Pathology	Core	\checkmark		\checkmark					3,4
1	5 CV1	12 Medical Law & Ethics	Core								3,4
(6 LN1	Effective Communication and Media Studies in English	Core			\checkmark					3,4, 11
PI	RACTI	CAL									
-	1 CV1	13 Human Anatomy-II - Lab	Core	\checkmark		\checkmark					3,4
4	2 CV1	4 Human Physiology-II - Lab	Core	\checkmark		\checkmark					3,4
	3 CV1	15 Medical Biochemistry-I – Lab	Core	\checkmark		\checkmark					3,4
4	4 CV1	16 Introduction to Pathology, Hematology & Clinical Pathology- Lab	Core	\checkmark	V	\checkmark					3,4

P: Practical CT: Class Test TA: Teac

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

BACHELOR OF SCIENCE IN CARDIOVASCLAR TECHNOLOGY (B.Sc. CVT)



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. CVT 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 CARDIOVASCLAR TECHNOLOGY (B.Sc. CVT)



PROGRAMME OUTCOMES (POs)

BACHELOR OF SCIENCE IN CARDIOVASCLAR TECHNOLOGY (B.Sc. CVT) 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. CVT 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
F0-1:	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.
PO-12:	With increasing automation and the use of computer technology, the work of Technologists has become less hands-on and more analytical.

BACHELOR OF SCIENCE IN CARDIOVASCLAR TECHNOLOGY (B.Sc. CVT)



Program Specific Outcomes (PSOs)

BACHELOR OF SCIENCE IN CARDIOVASCLAR TECHNOLOGY (B.Sc. CVT) 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. CVT program are as follows:

PSO1:	Students will be able to know about the Clinical samples collection handling, preservation & processing.
PSO2:	The student able to perform and validate various investigations for the purpose of differential diagnosis.
PSO3 :	Maintenance of quality control for reliability of laboratory reports
PSO4:	Supervision, organization of work and personnel management.
PS05:	With increasing automation and the use of computer technology, the work of Technologists has become less
1505.	hands-on and more analytical.