



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

**BACHELOR OF SCIENCE IN ANESTHESIOLOGY AND INTENSIVE  
CARE TECHNOLOGY  
(B.Sc.AICT)**

**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. AICT**

**Semester-I**

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	LT101	Human Anatomy- I	Core	3	1	0	40	20	60	40	100	3:1:0	4
2	LT102	Human Physiology-I	Core	3	1	0	40	20	60	40	100	3:1:0	4
3	LT103	Basic of Biochemistry	Core	3	1	0	40	20	60	40	100	3:1:0	4
4	LT104	Community Health Care Issues	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
<b>PRACTICAL</b>													
1	LT105	Human Anatomy- I Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
2	LT106	Human Physiology-I Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
3	LT107	Basic of Biochemistry-I Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
<b>Total</b>				<b>16</b>	<b>06</b>	<b>06</b>	<b>360</b>	<b>180</b>	<b>540</b>	<b>360</b>	<b>900</b>	<b>25</b>	<b>25</b>

**Semester-I**

S. N.	Course code	Course Title	Type of Paper	Attributes							United Nation Sustainable Development Goal (SDGs)
				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	
<b>THEORIES</b>											
1	AT101	Human Anatomy- I	Core	√	√	√			√	√	3,4
2	AT102	Human Physiology-I	Core	√	√	√	√		√	√	3,4
3	AT103	Basic of Biochemistry	Core	√	√	√	√		√	√	3,4
4	AT104	Community Health Care Issues	Core	√	√	√	√		√	√	3,4
5	LN101	Basic Professional Communication	Core	√	√	√	√		√	√	3,4
6	CS103	Introduction to Computers	Core	√	√	√	√		√	√	3,4
<b>PRACTICAL</b>											
1	AT105	Human Anatomy- I Lab	Core	√	√	√	√		√	√	3,4
2	AT106	Human Physiology-I Lab	Core	√	√	√	√		√	√	3,4
3	AT107	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      **Subject Total:** Sessional Total + End Semester Examination (ESE)



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

**Program: B.Sc.AICT**

**Semester-II**

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	AT108	Human Anatomy-II	Core	2	1	0	40	20	60	40	100	2:1:0	3
2	AT109	Human Physiology-II	Core	2	1	0	40	20	60	40	100	2:1:0	3
3	AT110	Medical Biochemistry-I	Core	3	1	0	40	20	60	40	100	3:1:0	4
4	AT111	Basic Anesthesia Technology	Core	3	1	0	40	20	60	40	100	3:1:0	4
5	AT112	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
<b>PRACTICAL</b>													
1	AT113	Human Anatomy-II - Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
2	AT114	Human Physiology-II - Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
3	AT115	Medical Biochemistry-I - Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
4	AT116	Basic Anesthesia Technology 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)	
				Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value		Professional Ethics
<b>THEORIES</b>											
1	AT108	Human Anatomy-II	Core	√	√	√	√		√	√	3,4
2	AT109	Human Physiology-II	Core	√	√	√	√		√	√	3,4
3	AT110	Medical Biochemistry-I	Core	√	√	√	√		√	√	3,4
4	AT111	Basic Anesthesia Technology	Core	√	√	√	√		√	√	3,4
5	AT112	Medical Law & Ethics	Core					√			6,13,14,& 15
6	LN131	Effective Communication and Media Studies in English	Core								
<b>PRACTICAL</b>											
1	AT113	Human Anatomy-II - Lab	Core	√	√	√	√		√	√	3,4
2	AT114	Human Physiology-II - Lab	Core	√	√	√	√		√	√	3,4
3	AT115	Medical Biochemistry-I - Lab	Core	√	√	√	√		√	√	3,4
4	AT116	Basic Anesthesia Technology 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)

**BACHELOR OF SCIENCE IN ANESTHESIOLOGY AND  
INTENSIVE CARE TECHNOLOGY  
(B.Sc.AICT)**



**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. AICT program are as follows and the graduates of the Integral University forensic science program will be expected to:

<b>PEO1:</b>	The <b>Bachelor of Science (B.Sc.) in Anesthesia Technology</b> program trains students to become anesthesia technicians by providing specialized anesthesia care and gaining the skills necessary to practice in the clinical setting.
<b>PEO2:</b>	Anesthesiologists provide a wide range of patient care services and play a vital role in emergency resuscitation.
<b>PEO3:</b>	They must be trained to respect and honor patients' religious and medical privacy and practice safety measures to ensure that their patients are safe and comfortable during anesthesia procedures.
<b>PEO4:</b>	A career as an anesthesia technologist is highly rewarding. A well-trained anesthesia technologist can progress to a higher-level position in the field, become an anesthesiologist, or manage a team of anesthesia technologists.
<b>PEO5:</b>	Career progression is quick and steady for qualified anesthesia technologists

**BACHELOR OF SCIENCE IN ANESTHESIOLOGY AND  
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**PROGRAMME OUTCOMES  
(POs)**

## BACHELOR OF SCIENCE IN ANESTHESIOLOGY AND INTENSIVE CARE TECHNOLOGY (B.Sc.AICT) 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.AIC Technologist Programme is to prepare students to deal with all the equipment used in Operation Theaters and also deal with different types of anesthesia used during the operation and its procedures. This information is then used by the medical team to make decisions regarding a patient's medical care. The graduates of B.Sc.AIC Technologist Programme of the Integral University will be expected to:

<b>PO-1:</b>	Demonstrate basic knowledge of pathophysiology of common conditions requiring surgical procedures
<b>PO-2:</b>	Prepare the operation theatre, load and label requested drugs, gather and assemble the surgical equipment for common surgical procedures as per the complexity and duration.
<b>PO-3:</b>	Recognize the anxiety of patients in peri-operative state and appropriately assist to shift, induce anaesthesia and position patient for surgical procedure.
<b>PO-4:</b>	Assist consultant in emergency department while receiving acutely ill patients, stabilize them and transport in or out of hospital as per the individual needs.
<b>PO-5:</b>	Organize drugs, equipment and monitors for procedures outside operation theater including endoscopies, imaging, electro convulsive therapy and transport etc. and monitor through the procedure
<b>PO-6:</b>	Function as a member of rescue / code blue team in recognising cardiac arrest and participate in revival cum cardiopulmonary resuscitation inside and outside hospital.
<b>PO-7:</b>	Manage the overall upkeep of the equipment used in intensive care unit and transport of critically ill patients.
<b>PO-8:</b>	Assist the specialist in resuscitation, management and transfer of such patients with appropriate paraphernalia.
<b>PO-9:</b>	Contribute in planning, setting up, commissioning, maintaining and managing operation theater, emergency departments, and intensive care unit, cardiac catheterization lab and emergency response services as a team member.
<b>PO-10:</b>	Engage oneself in self-assessment and structure their continuing professional education to refine existing skills and acquire new skills for patient care and professional advancement.
<b>PO-11:</b>	Practice professional and ethical responsibilities with high degree of credibility, integrity and social concern.
<b>PO-12:</b>	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 ANESTHESIOLOGY AND  
INTENSIVE CARE TECHNOLOGY  
(B.Sc.AICT)**



**Program Specific Outcomes  
(PSOs)**



**BACHELOR OF SCIENCE IN ANESTHESIOLOGY AND INTENSIVE CARE  
TECHNOLOGY (B.Sc.AICT)  
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. AICT program are as follows:

<b>PS01:</b>	Communicate effectively in writing on a variety of topics related to health care.
<b>PS02:</b>	Demonstrate an awareness and appreciation of the delivery of culturally competent health care.
<b>PS03:</b>	Demonstrate the knowledge and ability to search and retrieve information and materials related to individual clinical practice issues or overall health policy concerns.
<b>PS04:</b>	Describe and demonstrate management / leadership skills and theories that can be applied in preparation to lead or manage effectively in a health care environment.
<b>PS05:</b>	Demonstrate effective written and oral communication skills.