



# **INTEGRAL UNIVERSITY, LUCKNOW**

**INTEGRAL INSTITUTE OF ALLIED HEALTH SCIENCES & RESEARCH**

**DEPARTMENT OF ALLIED AND HEALTHCARE SCIENCES**

**BACHELOR OF SCIENCE IN OPERATION  
THEATRE TECHNOLOGY (B.Sc. OTT)**

**SYLLABUS**

**SEMESTER: I/II**



Integral University, Lucknow  
Department of Allied and Healthcare Sciences  
Study and Evaluation Scheme

Program: B.Sc. OTT

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			
THEORIES													
1	OT101	Human Anatomy- I	Core	3	1	0	40	20	60	40	100	3:1:0	4
2	OT102	Human Physiology-I	Core	3	1	0	40	20	60	40	100	3:1:0	4
3	OT103	Basic of Biochemistry	Core	3	1	0	40	20	60	40	100	3:1:0	4
4	OT104	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
PRACTICAL													
1	OT105	Human Anatomy- I Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
2	OT106	Human Physiology-I Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
3	OT107	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. 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			
THEORIES													
1	OT101	Human Anatomy- I	Core	√	√	√	√		√	√		3,4	
2	OT102	Human Physiology-I	Core	√	√	√	√		√	√		3,4	
3	OT103	Basic of Biochemistry	Core	√	√	√	√		√	√		3,4	
4	OT104	Community Health Care Issues	Core	√	√	√	√		√	√		3,4	
5	LN101	Basic Professional Communication	Core			√				√		3,4,6	
6	CS103	Introduction to Computers	Core	√	√	√	√		√	√		3,4	
PRACTICAL													
1	OT105	Human Anatomy- I Lab	Core	√	√	√	√		√	√		3,4	
2	OT106	Human Physiology-I Lab	Core	√	√	√	√		√	√		3,4	
3	OT107	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: BOTT

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			
THEORIES													
1	OT108	Human Anatomy-II	Core	2	1	0	40	20	60	40	100	2:1:0	3
2	OT109	Human Physiology-II	Core	2	1	0	40	20	60	40	100	2:1:0	3
3	OT110	Medical Biochemistry-I	Core	3	1	0	40	20	60	40	100	3:1:0	4
4	OT111	Introduction to Pathology, Hematology & Clinical Pathology	Core	3	1	0	40	20	60	40	100	3:1:0	4
5	OT112	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
PRACTICAL													
1	OT113	Human Anatomy-II - Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
2	OT114	Human Physiology-II - Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
3	OT115	Medical Biochemistry-I - Lab	Core	0	0	2	40	20	60	40	100	0:0:1	1
4	OT116	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. 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	
THEORIES											
1	OT108	Human Anatomy-II	Core	√	√	√	√		√	√	3,4
2	OT109	Human Physiology-II	Core	√	√	√	√		√	√	3,4
3	OT110	Medical Biochemistry-I	Core	√	√	√	√		√	√	3,4
4	OT111	Introduction to Pathology, Hematology & Clinical Pathology	Core	√	√	√	√		√	√	3,4
5	OT112	Medical Law & Ethics	Core	√	√	√	√		√	√	3,4, 6
6	LN131	Effective Communication and Media Studies in English	Core			√				√	3,4
PRACTICAL											
1	OT113	Human Anatomy-II - Lab	Core	√	√	√	√		√	√	3,4
2	OT114	Human Physiology-II - Lab	Core	√	√	√	√		√	√	3,4
3	OT115	Medical Biochemistry-I – Lab	Core	√	√	√	√		√	√	3,4
4	OT116	Introduction to Pathology, Hematology & Clinical Pathology-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 OPERATION THEATRE TECHNOLOGY (B.Sc. OTT)**



**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 a few year subsequent to receiving the degree. The PEOs of the B.Sc. Operation Theatre Technology (OTT) program are as follows, and the graduates of the Integral University OTT program will be expected to:

<b>PEO1:</b>	Equip students with knowledge and skills in Operation Theatre Technology to effectively assist in surgical procedures and manage operation theatre environments.
<b>PEO2:</b>	Develop the ability to work collaboratively with the healthcare team to ensure the safety and comfort of patients during surgical procedures.
<b>PEO3:</b>	Enhance students' proficiency in handling surgical instruments, sterilization techniques, and infection control practices.
<b>PEO4:</b>	Foster critical thinking and problem-solving skills to handle emergencies and unforeseen situations in the operation theatre.
<b>PEO5:</b>	Encourage lifelong learning and professional development to keep pace with evolving medical technologies and practices.

# **BACHELOR OF OPERATION THEATRE TECHNOLOGY (B.Sc. OTT)**



## **PROGRAMME OUTCOMES (POs)**

## **BACHELOR OF OPERATION THEATRE TECHNOLOGY (B.Sc. OTT)**

### **PROGRAMME OUTCOMES (POs)**

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

Program Outcomes (POs) are attributes of the graduates of the program that are designed to prepare students to effectively manage and assist in various surgical procedures within the operation theatre. The B.Sc. Operation Theatre Technology (OTT) program focuses on equipping students with the necessary knowledge, skills, and competencies required to assist the surgical team, manage operation theatre equipment, and ensure a sterile environment. The information and assistance provided by OTT professionals significantly contribute to the success of surgical procedures and patient care. The graduates of the B.Sc. Operation Theatre Technology Program of Integral University will be expected to:

<b>PO-1:</b>	Demonstrate comprehensive knowledge of surgical procedures, anaesthesia techniques, and operation theatre management.
<b>PO-2:</b>	Assist surgeons and anaesthetists during surgeries with accuracy and efficiency.
<b>PO-3:</b>	Maintain and ensure the sterility of operation theatres, surgical instruments, and medical devices.
<b>PO-4:</b>	Implement infection control measures and follow universal precautions to minimize the risk of infections.
<b>PO-5:</b>	Operate and manage operation theatre equipment and machinery effectively.
<b>PO-6:</b>	Communicate effectively with surgeons, anaesthetists, nurses, and other healthcare professionals.
<b>PO-7:</b>	Document and maintain accurate records of surgical procedures and operation theatre inventory.
<b>PO-8:</b>	Follow professional ethics and demonstrate empathy, care, and concern for patients.
<b>PO-9:</b>	Apply critical thinking and problem-solving skills to manage emergencies and unexpected situations during surgical procedures.
<b>PO-10:</b>	Adhere to hospital policies, protocols, and regulatory guidelines.
<b>PO-11:</b>	Participate in continuous professional development activities to enhance knowledge and skills.
<b>PO-12:</b>	Demonstrate an understanding of human values, professional ethics, and the importance of teamwork in healthcare settings.

# **BACHELOR OF OPERATION THEATRE TECHNOLOGY (B.Sc. OTT)**



**Program Specific Outcomes  
(PSOs)**



**BACHELOR OF OPERATION THEATRE TECHNOLOGY  
(B.Sc. OTT)  
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. OTT program are as follows:

<b>PSO1:</b>	Gain practical knowledge and skills in handling surgical instruments, sterilization techniques, and operation theatre protocols.
<b>PSO2:</b>	Assist the surgical team effectively during various surgical procedures by preparing the operation theatre and ensuring aseptic conditions.
<b>PSO3:</b>	Demonstrate competency in operating and maintaining surgical and anaesthesia equipment.
<b>PSO4:</b>	Ensure the application of infection control measures, patient safety, and effective waste management practices in the operation theatre.
<b>PSO5:</b>	Develop the ability to handle emergencies, manage resources, and provide first aid in critical situations during surgical procedures.