

**Colour Coding**

Global GREEN  
 Regional BLUE  
 National ORANGE  
 Local (State) PINK

**Semester wise curriculum of the BSc Course (as desired by Commission of allied health sciences and as per the decision of College of Medical Technology, SGPGIMS) would be as follows;**

BSc Operation Theatre and Anaesthesia technology				Lecture Per week	Demo / week	Hours Theory	Hours Practical	Theory marks	Practical marks	Internal Marks (plus log book if any)	Total
<b>1st Semester</b>											
Paper I	BOTT-011	Human Anatomy and Physiology Part-I	Common	2	2	40	60	80+80	0	20+20	200
Paper II	BOTT-001	Introduction to Healthcare Delivery System in India	Foundation			60		40	0	10	50
Paper III	BOTT-006	Introduction to Quality and patient safety (including Basic emergency care and life support skills, Infection prevention and control, Biomedical waste management, Disaster management and Antibiotic resistance)	Foundation	2		40	60	40	0	10	50
Paper IV	BOTT-006	Communication and soft skills	Foundation	2		20	10	40	0	10	50
	BOTT-006	English & Communication skills	Foundation	2							
Paper V	BOTT-002	Basic computers and information Science	Foundation	2		10	40	40	0	10	50
Paper VI	BOTT-012	Biochemistry	Specific	1		40	60	80		20	100
	BOTT-010	Clinical Visit and Community orientation	Specific		4		100				
Total											500
<b>2nd Semester</b>											
Paper I	BOTT-004	Medical Terminology and record keeping (including anatomical terms)	Foundation	1		40	0	40	0	10	50
Paper II	BOTT-009	Principals of Management	Foundation	2		40	0	80	0	20	100
	BOTT-005	Medical Law and Ethics	Foundation			40	0				
	BOTT-007	Professionalism and values	Foundation			20	0				
Paper III	BOTT-011	Human Anatomy and Physiology Part-2	Common	2	2	40	60	80+80	0	20+20	200

Dr. Ravinder Kumar  
 Lt Col Varun Bajpai VSM  
 Executive Registrar  
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6th Semester												
Paper I	BOTT-024	OT and Anaesthesia Technology (Advanced): Specialised surgery and Anaesthesia including Robotics and Minimally Invasive surgical procedures	Specific	2	1	50	50	150	30	20	200	
Paper II	BOTT-025	OT and Anaesthesia Technology (Applied): Electronics and technology in surgery and anaesthesia	Specific	2	1	50	50	150	30	20	200	
Paper III	BOTT-026	OT and Anaesthesia Technology (Clinical)	Specific	2	1	50	50	150	30	20	200	
			Total								600	
		OT and Anaesthesia Technology directed clinical education- Part V (Studentship)					110					
Remaining time after lectures and demonstrations will be divided into postings in various areas of department under supervision of technical staff / guest faculties for self directed learning and clinical education.												
Semester 7 & 8												

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 Dr. ...  
 Lt Col. Varun Bajpai VSM  
 Executive Registrar  
 SGPIMS, Lucknow

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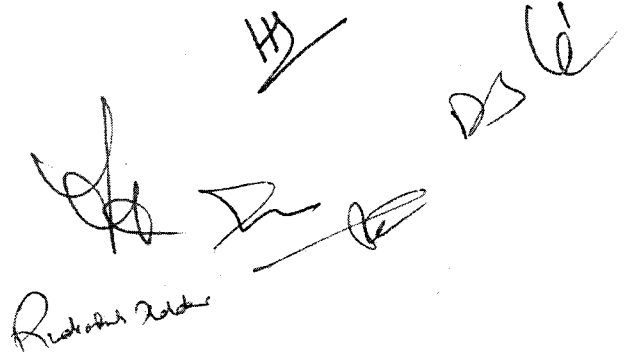
**Course / Learning Objectives:** At the completion of this course, the student should be -

1. Able to help the anesthesiologist in administering anesthesia, assist in various procedures and also help in continuous monitoring of patients during surgery.
2. Able to train and develop an individual to independently handle the latest technology and high end biomedical equipment in Operation Theatre
3. Able to assist anesthesiologists in developing and plummeting patient anesthesia care plans, including pre-operative, surgical theater, recovery room, and post-operative intensive care procedures.
4. Able to do- patient data collection, catheter insertion, airway management , assisting the administration and monitoring of regional and peripheral nerve blockades, support therapy, adjusting anesthetic levels during surgery, inter-operative monitoring, postoperative procedures, pain clinics and patient education, and administrative tasks.
5. Able to manage medical gases and pipeline system
6. Able to assist surgical team in preparing various instruments and gadgets for surgery as well as looking after the maintenance e.g. Laparoscopy instruments, Instruments used in Robotics and other minimally invasive surgeries
7. Able to perform sterilization of various instruments prior to surgery and anaesthetic delivery
8. Able to assist in Intensive care unit
9. Able to manage Central sterile supply department
10. Able to assist during Disaster and emergency situations.



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## Course Outcome

1. The Course prepares the operating theatre and anaesthesia technologist to work as a competent, reliable member of the health care team under the guidance and supervision of doctors in their delivery of patient care, training also focuses on the knowledge and skills of monitoring infection control policy and procedures in the operating theatre.
2. Employment opportunities can be found in hospitals in both private and public sectors as well as in independent trauma centres.
3. OTA graduate is encouraged to pursue further qualification to attain senior position in the professional field, also to keep abreast with the advance and new technology, the professional should opt for continuous professional education credits offered by national and international institutes.
4. Provide trained paramedical manpower to various hospitals in both private and public sector who can work in Operation theatre and Intensive Care units.

Ami L

*Rudraksh Verma*

*HJ*  
*Varun Bajpai*

*Pooja*

*Dr. [Signature]*  
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