



BRAINWARE UNIVERSITY
Department of Allied Health Sciences
Bachelor of Science in Operation Theatre Technology (B.Sc. OTT)
Programme Structure 2021
(As per UGC CBCS Template)

Bachelor of Science in Operation Theatre Technology (BOTT)

Program 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 in Intensive care unit
7. Able to manage Central sterile supply department
8. Able to assist during Disaster and emergency situations.



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Semester-I

Course Code	Course Name	L - T - P	Credits	Total Marks
HU101	English Communication	3-0-0	3	100
HU191	English Communication - Practical	0-0-2	1	100
BOTT101	Human Anatomy	4-0-0	4	100
BOTT102	Human Physiology	4-0-0	4	100
BOTT103	Introduction to Healthcare Delivery System in India	4-0-0	4	100
BOTT191	Human Anatomy and Physiology- Practical	0-0-4	2	100
GE**	Generic Elective-1 (Anyone from the List of Generic Elective / Interdisciplinary Courses from other Subjects)	4-0-0/ 5-0-0	4/5	200/100
GE**	Generic Elective -1 (Practical/Tutorial)	0-0-4/ 0-1-0	2/1	
TOTAL			24	800/700

Semester-II

Course Code	Course Name	L - T - P	Credits	Total Marks
EVS201	Environmental Science	3-1-0	4	100
BOTT201	Clinical Microbiology	4-0-0	4	100
BOTT202	Biochemistry	4-0-0	4	100
BOTT203	Pathology	4-0-0	4	100
BOTT204	Clinical Pharmacology	4-0-0	4	100
BOTT205	Medical Law and Ethics	4-0-0	4	100
BOTT281	Community Orientation and Clinical Visit*	0-0-0	0	0
GE**	Generic Elective-2 (Any one from the List of Generic Elective / Interdisciplinary Courses from other Subjects)	4-0-0/ 5-0-0	4/5	200/100
GE**	Generic Elective -2 (Practical/Tutorial)	0-0-4/ 0- 1-0	2/1	
TOTAL			30	800/700



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Semester-III

Course Code	Course Name	Type of Course	L - T - P	Credits	Total Marks
BOTTC301	Medical Terminology and Record keeping (including anatomical terms)	CC10	4-0-0	4	100
BOTTC302	Medicine	CC11	4-0-0	4	100
BOTTC303	Principles of Anesthesia	CC12	4-0-0	4	100
BOTTS381	Clinical Observership I	SEC1	-	3	100
GE	Generic Elective-3 (Any one from the List of Generic Elective / Interdisciplinary Courses from other Subjects)	GE3	4-0-0/ 5-0-0	4/5	200/100
GE	Generic Elective -3 (Practical/Tutorial)	GE3	0-0-4/ 0-1-0	2/1	
TOTAL			20/18	21	600/500

Semester-IV

Course Code	Course Name	Type of Course	L - T - P	Credits	Total Marks
BOTTC401	Principals of Management	CC13	4-0-0	4	100
BOTTC402	Introduction to Quality and Patient safety	CC14	4-0-0	4	100
BOTTC403	Basic techniques of Anesthesia	CC15	4-0-0	4	100
BOTTS482	Clinical Observership II	SEC2	-	3	100
GE	Generic Elective-4 (Any one from the List of Generic Elective / Interdisciplinary Courses from other Subjects)	GE4	4-0-0/ 5-0-0	4/5	200/100
GE	Generic Elective -4 (Practical/Tutorial)	GE4	0-0-4/ 0-1-0	2/1	
TOTAL			20/18	21	600/500



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Semester-V

Course Code	Course Name	Type of Course	L - T - P	Credits	Total Marks
BOTTC501	Basics of Surgical procedures	CC16	4-0-0	4	100
BOTTC502	CSSD Procedures.	CC17	4-0-0	4	100
BOTTS503	Advance anesthetic techniques	SEC 3	4-0-0	4	100
BOTTC504	Basic Intensive care	CC18	4-0-0	4	100
BOTTS583	Clinical Observership III	SEC 4	-	3	100
TOTAL			16	19	500

Semester-VI

Course Code	Course Name	Type of Course	L - T - P	Credits	Total Marks
BOTTC601	Specialized surgery and anesthesia	CC19	4-0-0	4	100
BOTTS602	Electronics and technology in surgery and anesthesia	SEC5	4-0-0	4	100
BOTTE603	Basic administration and equipment Maintenance	DSE 1	4-0-0	4	100
BOTTE604	Research Methodology and Bio statistics	DSE 2	4-0-0	4	100
BOTTS684	Project and Dissertation	SEC6	-	3	100
TOTAL			16	19	500

Semester VII & VIII

Course Code	Course Name	Type of Course	Duration	Credits	Total Marks
BOTTS881	Internship (12 months) Including Project Work and Grand Viva voce.	SEC7	12 months	20	100