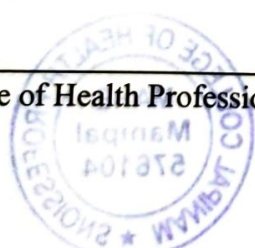


2. PROGRAM EDUCATION OBJECTIVES (PEOs)

The overall objective of the learning outcome-based curriculum framework (LOCF) for BSc Anaesthesia and Operation Theatre Technology (BSc AOTT) Program are as follows:

PEO No.	Education Objective
PEO 1	Students will be able to use their fundamental knowledge and technical competence in the operating rooms as and when required to achieve professional excellence.
PEO 2	Students will demonstrate strong and well defined skills in assisting the anaesthetist and surgical teams in all kinds of surgical disciplines.
PEO 3	Students will be able to practice the profession with highly professional and ethical attitude, strong communication skills, and effective professional skills to work in a inter-disciplinary team in Assisting the anaesthetist in handling critical events, and during basic and advanced life support
PEO 4	Students will be able to maintain an inventory of all equipment and drugs
PEO 5	Manages central sterile services department, packing of equipment and linen. Sterilization procedures such as autoclaving, plasma sterilization and disinfection procedures as per guidelines, checking, storage and dispatch
PEO 6	Assist disaster team in disaster situations and national emergencies on field and safe transport in ambulance



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3. GRADUATE ATTRIBUTES

S No.	Attribute	Description
1	Professional Knowledge	Demonstrate scientific knowledge and understanding to work as a health care professional
2	Technical	Demonstrate Technical in order to implement the preventive, assessment and management plans for quality health care services
3.	Communication	Ability to communicate effectively and appropriately in writing and orally to patients/clients, care-givers, other health professionals and other members of the community
4.	Cooperation/ Team work	Ability to work effectively and respectfully with interdisciplinary team members to achieve coordinated, high quality health care
5.	Professional ethics	Ability to identify ethical issues and apply the ethical values in the professional life
6.	Research / Innovation-related Skills	A sense of inquiry and investigation for raising relevant and contemporary questions, synthesizing and articulating.
7.	Critical thinking and problem solving	Ability to think critically and apply once learning to real-life situations
8.	Reflective thinking	Ability to employ reflective thinking along with the ability to create the sense of awareness of one self and society
9.	Information/digital literacy	Ability to use ICT in a variety of learning situations
10.	Multi-cultural competence	Ability to effectively engage in a multicultural society and interact respectfully
11.	Leadership readiness/qualities	Ability to respond in an autonomous and confident manner to planned and uncertain situations, and should be able to manage themselves and others effectively
12.	Lifelong Learning	Every graduate to be converted into lifelong learner and consistently update himself or herself with current knowledge, skills and technologies. Acquiring Knowledge and creating the understanding in learners that learning will continue throughout life.



5. PROGRAM OUTCOMES (POs):

After successful completion of Bachelor BSc Anaesthesia and Operation Theatre Technology program, students will be able to:

PO No.	Attribute	Competency
PO 1	Professional knowledge	Possess and acquire scientific knowledge to work as a health care professional
PO 2	Clinical/ Technical skills	Demonstrate and possess clinical skills to provide quality health care services
PO 3	Team work	Demonstrate team work skills to support shared goals with the interdisciplinary health care team to improve societal health
PO 4	Ethical value & professionalism	Possess and demonstrate ethical values and professionalism within the legal framework of the society
PO 5	Communication	Communicate effectively and appropriately with the interdisciplinary health care team and the society
PO 6	Evidence based practice	Demonstrate high quality evidence based practice that leads to excellence in professional practice
PO 7	Life-long learning	Enhance knowledge and skills with the use of advancing technology for the continual improvement of professional practice
PO 8	Entrepreneurship, leadership and mentorship	Display entrepreneurship, leadership and mentorship skills to practice independently as well as in collaboration with the inter disciplinary health care team



6. COURSE STRUCTURE, COURSE WISE LEARNING OBJECTIVE, COURSE OUTCOMES (COs)

SEMESTER - I

Course Code	Course Title	Credit (s) Distribution (L,T,P are hours/ week)				Marks Distribution		
		L	T	P	CR	IAC	ESE	Total
ANA1101	Anatomy - I	3	-	-	3	30	70	100
ANA1112	Anatomy practical - I	-	-	4	2	100	-	100
PHY1101	Physiology - I	2	-	-	2	30	70	100
EIC1001	Environmental Science & Indian Constitution	2	-	-	2	100	-	100
CSK1001	Communication Skills	2	-	-	2	100	-	100
RES1101	Clinical anatomy and physiology for respiratory care	2	2	-	4	50	50	100
RES1102	Medical Terminology	1	2	-	3	50	50	100
YGA1121	Yoga	1	-	2	2	100	-	100
Total		13	4	6	20	560	240	800

Note:

ESE for ANA1101 & PHY1101 will be conducted for 50 marks & normalised to 70marks

ESE for RES1101 & RES1102 will be conducted for 100 marks & normalised to 50 marks

SEMESTER - II

Course Code	Course Title	Credit (s) Distribution (L,T,P are hours/ week)				Marks Distribution		
		L	T	P	CR	IAC	ESE	Total
ANA1201	Anatomy- II	2	-	-	2	30	70	100
ANA1212	Anatomy practical- II	-	-	4	2	100	-	100
PHY1201	Physiology- II	2	-	-	2	30	70	100
BIC1201	Biochemistry	3	-	-	3	30	70	100
RES1201	Clinical Examination in Respiratory Care	2	2	-	4	50	50	100
RES1202	Respiratory care equipment	2	2	-	4	50	50	100
AOT1221	Cardiac Life Support	1	-	4	3	100	-	100
Total		12	4	8	20	390	310	700

Note:

ESE ANA1201, PHY1201 and BIC1201 will be conducted for 50 marks & normalised to 70 marks

ESE for RES1201 & RES1202 will be conducted for 100 marks & normalised to 50 marks



SEMESTER - III

Course Code	Course Title	Credit (s) Distribution (L,T,P,C L are hours/ week)					Marks Distribution		
		L	T	P	CL	CR	IAC	ESE	Total
MCB2103	Microbiology	3	-	-	-	3	30	70	100
PAT2103	Pathology	3	-	-	-	3	30	70	100
AOT2101	Medicine - I	2	2	-	-	4	50	50	100
AOT2102	Principles of Anaesthesia	2	2	-	-	4	50	50	100
AOT2131	Clinical - I	-	-	-	9	3	100	-	100
*****	Open elective - I	-	-	-	-	3	S/NS		
Total		10	4	-	9	20	260	240	500

Note:

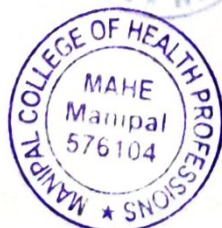
ESE MCB2103, PAT2103 will be conducted for 50 marks & normalized to 70 marks for grading.
AOT2101, AOT2102 will be conducted for 100 marks & normalized to 50 marks for grading.
In this semester, it is compulsory for the students to obtain certification in **Basic life support Program**. From MAHE life support program.

SEMESTER - IV

Course Code	Course Title	Credit (s) Distribution (L,T,P,CL are hours/ week)					Marks Distribution		
		L	T	P	CL	CR	IAC	ESE	Total
BST3201	Biostatistics & Research methodology	3	-	-	-	3	30	70	100
PHC2203	Pharmacology	3	-	-	-	3	30	70	100
GPY2201	General Psychology	2	-	-	-	2	30	70	100
AOT2201	Medicine - II	1	1	-	-	2	50	50	100
AOT2202	Basic techniques of Anaesthesia	2	1	-	-	3	50	50	100
AOT2231	Clinical - II	-	-	-	12	4	100	-	100
AOT****	Program Elective - I	1	1	2	-	3	50	50	100
Total		12	3	2	12	20	340	360	700

Note:

ESE for BST3201, PHC2203 and GPY2201 will be conducted for 50 marks and normalized to 70 marks for grading
AOT2201 will be conducted for 50 marks
AOT2202 will be conducted for 100 marks and normalized to 50 marks



SEMESTER - V

Course Code	Course Title	Credit (s) Distribution (L,T,P,CL are hours/ week)					Marks Distribution		
		L	T	P	CL	CR	IAC	ESE	Total
AOT3101	Basics of Surgical procedures	2	2	-	-	4	50	50	100
AOT3121	Central sterile supply department (CSSD) procedures.	2	-	2	-	3	50	50	100
AOT3122	Advanced anaesthesia techniques	2	-	2	-	3	50	50	100
AOT3102	Basic Intensive Care	2	1	-	-	3	50	50	100
AOT3131	Clinical - III	-	-	-	12	4	100	-	100
*****	Open elective - II	-	-	-	-	3	S/NS		
Total		8	3	4	12	20	300	200	500

NOTE:

ESE for AOT3101, AOT3121, AOT3122 and AOT3102 will be conducted for 100 marks.

SEMESTER - VI

Course Code	Course Title	Credit (s) Distribution (L,T,P,CL are hours/ week)					Marks Distribution		
		L	T	P	CL	CR	IAC	ESE	Total
AOT3201	Specialised surgery and anaesthesia	2	2	-	-	4	50	50	100
AOT3202	Electronics and Technology in surgery and anaesthesia	2	1	-	-	3	50	50	100
AOT3231	Clinical - IV	-	-	18	3	10	100	-	100
AOT****	Program Elective - II	1	1	2	-	3	50	50	100
TOTAL		5	4	20	3	20	250	150	400

Note:

AOT3201 and AOT3202 will be conducted for 100marks



Open Electives

Open elective is credited, choice-based and is graded as satisfactory / not satisfactory (S/NS). Students make a choice from pool of electives offered by MAHE institution / Online courses as approved by the department

Program Electives

Program elective is credited and choice-based. The students make a choice from pool of electives offered by the department. The ESE is conducted for 50 marks.

Semester	Course Code	Course Title	Credit (s) Distribution (L,T,P,CL are hours/ week)				
			L	T	P	CL	CR
IV Semester	AOT2241	Anaesthesia and operation theatre equipments	1	1	2	-	3
	AOT2242	Patient safety, infection control and biomedical waste management	1	1	2	-	3
VI Semester	AOT3241	Casualty and ambulance services	1	1	2	-	3
	AOT3242	Trauma management	1	1	2	-	3

SEMESTER - VII and VIII

Internship (1 year, 48 hours/week)

Semester VII	Internship - I	Duration 6 months 48 hours in a week / 8 hours in a day
Semester VIII	Internship - II	Duration 6 months 48 hours in a week / 8 hours in a day

OVERALL TOTAL CREDIT DISTRIBUTION

Semester	Credit Distribution (hours/week)					Marks Distribution		
	L	T	P	CL	Total Credits	IAC	ESE	Total
Semester - I	13	4	6	-	20	560	240	800
Semester - II	12	4	8	-	20	390	310	700
Semester - III	10	4	-	9	20	260	240	500
Semester - IV	12	3	2	12	20	340	360	700
Semester - V	8	3	4	12	20	300	200	500
Semester - VI	5	4	20	3	20	250	150	400
Semester - VII	-	-	-	48	NA	-	-	-
Semester - VIII	-	-	-	48	NA	-	-	-
Total	60	22	40	132	120	2100	1500	3600