

## 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 an 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





## 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 <b>Technical</b> 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, caregivers, other health professionals and other members of the community
4.	Cooperation/ Teamwork	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 oneself 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
	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 learners 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:

		O mentancy
PO No.	Attribute	Competency to select the control of
PO 1	Professional knowledge	Possess and acquire <b>scientific knowledge</b> 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	Teamwork	Demonstrate <b>teamwork skills</b> 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	Course Title	С	redit l (hou	Distri Irs/we	Marks Distribution				
Code		L	T	Р	CL	CR	IAC	ESE	Total
ANA1301	Anatomy - I	3	-	-		3	30	70	100
ANP1302	Anatomy practical - I	-	•	4	-	2	100	-	100
PHY1301	01 Physiology - I		-	-	-	2	30	70	100
EIC1501	Environmental Science and Indian Constitution		-	-	<u> </u>	2	100	-	. 100
AOT1301	Introduction to Anaesthesia Practice	1	1		•	2	100	-	100
AOT1302	Patient Safety in Peri- operative Area	3	1	-	-	4	50	50	100
AOT1303	Comprehensive Clinical Skills- I	-	-	-	9	3	100	-	100
YGA1301	Yoga	1	-	2	-	2	100	AT 6	100
Total		12	2	6	9	20	610	190	800

#### Note:

- ESE for ANA1301 and PHY1301 will be conducted for 50 marks and normalized to 70 marksfor grading.
- AOT1302 will be conducted for 100 marks and normalized to 50 marks

#### **SEMESTER II**

Course Code	Course Title	C		A 400 PM	tributi /week)	30 000	Marks Distribution			
		L	T	Р	CL	CR	IAC	ESE	Total	
ANA1401	Anatomy - II	2	-	-	-	2	30	70	100	
ANP1402	Anatomy Practical - II	-	-	4		2	100	-	100	
PHY1401	Physiology- II	2	-			2	30	30 70		
BIC1401	Biochemistry	3	-	J.	•	3	30	70	100	
CSK1501	Communication Skills	2	Ī • -	-		2	100	-	100	
AOT1401	Anaesthetic Equipment	2	-	2		3	50	50	100	
AOT1402	Basic Life Support	2	-	2	-	3	100	-	100	
AOT1403 Comprehensive Clinical Skills - II		•		-	9	3	100	-	100	
	Total	13	-	8	9	20	540	260	800	

#### Note:

- ESE for ANA1401, PHY1401 and BIC1401 will be conducted for 50 marks and normalized to70 marks for grading.
- AOT1401 will be conducted for 50 marks.





#### **SEMESTER - III**

OLIVIL'S I E	:K - III			it Dis	tributio	on	Mark	S DISTRI	Dution
Course Code	Course Title		Credit Distribution (hours/week)					ESE	Total
		L	T	P	CL	3	30	70	100
MCB2303	Microbiology	3	-	-		3	30	70	100
PAT2303	Pathology	3	-	-		4	50	50	100
AOT2301	General Medicine	3	1	-		4	50	50	100
AOT2302	Patient Monitoring Techniques	2	2	-	9	3	100	-	100
AOT2303	Comprehensive Clinical Skills - III	-	-	-	9	3		S/NS	
******	Open Elective - I	: <b>-</b>	-	-	-	20	260	240	500
	Total	11	3	0	9	20			

#### Note:

- ESE for MCB2303, PAT2303 will be conducted for 50 marks and normalized to 70 marks for grading.
- AOT2301, AOT2302 will be conducted for 100 marks and normalized to 50 marks for grading

#### **SEMESTER-IV**

Course	Course Title			Distri	Marks Distribution				
Code		L	T	Р	CL	CR	IAC	ESE	Total
BST3401	Biostatistics and Research Methodology	3	-	-	-	3	30	70	100
PHC2403	Pharmacology	3	2 <b>.</b>	17	-	3	30	70	100
GPY2401	General Psychology	2	-	-	-	2	30	70	100
AOT2401	Basic Techniques of Anaesthesia	3	-	2	-	4	50	50	100
AOT2402	Comprehensive Clinical Skills - IV	-	-	-	15	5	50	50	100
AOT2403	Program Elective - I Essentials of Post- Anaesthesia Care Unit	1	1	2	_	3	50	50	100
AOT2404	Program Elective - I Advanced cardiac Life Support					3	30	50	100
	Total	12	1	4	15	20	240	360	600
ote:							240	300	000

- ESE for BST3401, PHC2403 and GPY2401 will be conducted for 50 marks and normalized to 70
- AOT2401 will be conducted for 100marks and normalized to 50 marks for grading.
- AOT2402 will be conducting for 50marks.
- Program electives are credited, and choice based. Students make a choice from the pool of electives offered by the department. The ESE is conducted for 50 marks.



#### **SEMESTER-V**

Course	Course Title	С	redit (hou	Distri ırs/w	Marks Distribution				
Code	Course Time	L	Т	Р	CL	CR	IAC	ESE	Total
AOT3301	Basics of Surgical Procedures	2	1	2	•	4	50	50	100
AOT3302	Advanced Anaesthesia Techniques	2	•	2	-	3	50		
AOT3303	Basic Intensive Care	2	1	-	-	3	50	50	100
AOT3304	Applied Anaesthesia	2	1	-	-	3	50	50	100
AOT3305	Comprehensive Clinical Skills - V	-		-	12	4	100	100 - 100	
*****	Open Elective- II	-	-	-	-	3	S/NS		
	Total	8	3	4	12	20	300	200	500

#### Note:

- ESE for AOT3301, AOT3303 and AOT3304 will be conducted for 100 marks and normalized to 50 marks for grading.
- ESE for AOT3302 will be conducting 50 marks

#### **SEMESTER-VI**

Course	Course Title	C	redit (hou	Distri urs/we	Marks Distribution				
Code	304100 11410	L	Т	Р	CL	CR	IAC	ESE	Total
AOT3401	Specialized Surgical procedures	2	2		-	4	50	50	100
AOT3402	Specialty Anaesthesia	2	2	•5	-	4	50	50	100
	Comprehensive Clinical Skills- VI	•	-	-	27	9	50	50	100
AOT3404	Program Elective- II Casualty and Trauma Management	1	1	2	-	3	50	50	100
AOT3405 Program Elective- II Pain Management									
	Total	<b>.</b> 5	5	2	27	20	200	200	400

#### Note:

- ESE for AOT3401 and AOT3402 will be conducted for 100 marks and normalized to 50 marks for grading.
- AOT3403 will be conducted for 50 marks
- Program electives are credited, and choice based. Students make a choice from the pool of electives offered by the department. The ESE is conducted for 50 marks.





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.

### Semester - VII and VIII

Internship (1 year, 48 hours/week)

Internship (1 ye	ear, 48 hours/we	
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
Note: It is mand	atory to submit re	search project at the end of the internship

Note: It is mandatory to submit research project at the end of the Students should complete the MAHE BLS program at the end of the internship

OVERALL TOTAL CREDIT DISTRIBUTION

,	OVE	ALL I	ribution	DISTRIBU week)	Marks Distribution			
Semester	L	T	P	CL	Total Credits	IAC	ESE	Total
Semester - I	12	2	6	9	20	610	190	800
Semester - II	13	1 -	8	9	20	540	260	800
Semester - III	11	3	0	9	20	260	240	500
Semester - IV	12	1	4	15	20	240	360	600
Semester - V	8	3	4	12	20	300	200	500
Semester - VI	5	5	2	27	20	200	200	400
Semester - VII	=	3 5	-	48	NA	-	-	-
Semester - VIII	-	_		48	NA			-
Total	61	14	24	177	120	2150	1450	3600