2. PROGRAM EDUCATION OBJECTIVES (PEOs)

The overall objective of the learning outcome-based curriculum framework (LOCF) for BSc. Emergency Medical Technology Program are as follows:

PEO No.	Education Objective
PEO 1	Students will be able to use their fundamental knowledge and technical skills of basic Emergency Medical concepts and methods, and develop an ability to appreciate the challenges in field settings required to achieve professional excellence.
PEO 2	Students will demonstrate strong and well defined practical skills in performing emergency medical assessment and procedures.
PEO 3	Students will be able to use their cognitive, behavioural and affective skills to display an ethical attitude, strong communication skills, and effective interpersonal skills to become a professional Emergency Medical technician
PEO 4	Students will be able to use interpersonal and collaborative skills in major areas of application such as pre-hospital patient care, disaster response, search and rescue, patient transfer and triaging
PEO 5	Students will be able to imbibe the culture of research, innovation, entrepreneurship and incubation.
PEO 6	Students will be able to participate in lifelong learning process for a highly productive career and will be able to use the skills and knowledge of Emergency Medical technology towards serving the cause of the society.

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3. GRADUATE ATTRIBUTES

S No.	Attribute	Description
1	Professional Knowledge	Demonstrate scientific knowledge and understanding of major concepts, theories, principles, perspectives and historical roots of Emergency Medical Technology.
2	Technical/practical /clinical skills	Demonstrate an ability to think critically, plan, design and conduct research, analyse data and interpret it. They will also have procedural knowledge of testing, basic data analytic methods, field observation, group activities and conducting experiments.
3.	Communication	Ability to present oneself effectively to others and express empathy, compassion and concern, and display an understanding of social injustice, striving for justice and appreciation of others.
4.	Cooperation/Team work	Ability to work effectively and respectfully with interdisciplinary team members.
5.	Professional ethics	Ability to resist the temptations to indulge in various malpractices and stand by the moral and ethical practices in academic life particularly during evaluation and assessment. In particular, awareness of intellectual property rights and issues of plagiarism.
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 IT 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 of Science in Emergency Medical Technology program, the students will be able to:

PO No.	Attribute	Competency
PO 1	Professional knowledge	Possess and acquire scientific knowledge to pursue higher education in diverse fields of study.
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 learning	Demonstrate high quality evidence based practice/learning 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 interdisciplinary health care team

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

SEMESTER - I

Course Code	Course title	Credit distribution (L,T,P, CL are hours/week)					Marks Distribution		
		L	T	P	CL	C	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
CSK1001	Communication Skills	2	-	-	-	2	100	-	100
EIC1001	Environmental Science & Indian Constitution	2	-	-	-	2	100	-	100
EMT1121	Introduction to emergency medical services	1	1	2	-	3	50	50	100
EMT1122	Emergency equipment- I	1	1	2	-	3	50	50	100
EMT1131	Clinics	-	-	-	9	3	100	-	100
	TOTAL	11	2	8	9	20	560	240	800

Note:
ESE for ANA1101 and PHY1101 will be conducted for 50 and normalized to 70 marks for grading. EMT1121, EMT1122 will be conducted for 50 marks.

SEMISTER - II

Course code	Course title	Credit distribution (L,T,P, CL are hours/week)					Marks Distribution		
		L	T	P	CL	C	IAC	ESE	Total
ANA1201	Anatomy- II	2		-	-	2	30	70	100
PHY1201	Physiology- II	2		-	-	3	30	70	100
BIC1201	Biochemistry	3	-	-	-	3	30	70	100
EMT1221	ECG and Hemodynamic monitoring	1	1	4	-	4	50	50	100
EMT1222	Emergency Equipment- II	1	1	6	-	5	50	50	100
EMT1231	Clinics	-	-	-	9	3	100	-	100
	TOTAL	9	2	10	9	20	290	310	600

Note: ESE for ANA 1201, PHY 1201, BIC 1201 will be conducted for 50 marks and normalized to 70 marks for grading; EMT 1221, EMT 1222 will be conducted for 50 marks.

SEMISTER - III

Course code	Course title	Credit distribution (L,T,P, CL are hours/week)					Marks Distribution		
		L	T	P	CL	C	IAC	ESE	Total
MCB2103	Microbiology	3	-	-	-	3	30	70´	100
PAT2103	Pathology	3	-	-	-	3	30	70	100
EMT2101	Emergency pharmacology	1	1	-	-	2	50	50	100
EMT2102	Emergency radiology	1	1	-	-	2	50	50	100
EMT2103	Emergency drugs	1	1	-	-	2	50	50	100
EMT2104	Trauma- I	2	-	-	-	2	50	50	100
EMT2131	Clinics	-	-	-	9	3	100	-	100
*** ****	Open Elective-I	-	-	-	-	3	S/NS		
	TOTAL	14	3	-	9	20	360	340	700

Note:
ESE for MCB2103 & PAT2103 will be conducted for 50 marks and normalized to 70 marks for grading; EMT2101, EMT2102, EMT2103, EMT2104 will be conducted for 50 marks.

SEMISTER - IV

Course code	Course title	Credit distribution (L,T,P, CL are hours/week)					Marks Distribution		
		L	T	P	CL	C	IAC	ESE	Total
PHC2203	Pharmacology	3	-	-	-	3	30	70	100
GPY2201	General Psychology	2	-	-	-	2	30	70	100
BST 3201	Biostatistics and Research Methodology	3	-	-	-	3	30	70	100
EMT2201	Surgical Emergencies- I	2	-	-	-	2	50	50	100
EMT2202	Medical Emergencies- I	1	1	-	-	2	50	50	100
EMT2203	Medical Ethics and Law	2	-	-	-	2	100	-	100
EMT2231	Clinics	-	-	-	9	3	100	-	100
EMT****	Program Elective-I	-	-	-	-	3	50	50	100
	TOTAL	13	1	-	9	20	440	360	800

Note:
- ESE for PHC2203 and GPY2201, will be conducted for 50 and normalized to 70 marks grading;
- BST3201 will be conducted for 100 marks and normalized to 70 marks grading;
- EMT2201, EMT2202 and EMT2203 will be conducted for 50 marks.

SEMISTER - V

Course code	Course title	Credit distribution (L,T,P, CL are hours/week)					Marks Distribution		
		L	T	P	CL	C	IAC	ESE	Total
EMT3101	Surgical emergencies-II	1	1	-	-	2	50	50	100
EMT3102	Cardiac emergencies	2	1	-	-	3	50	50	100
EMT3103	Medical emergencies-II	2	1	-	-	3	50	50	100
EMT3104	Trauma-II	2	1	-	-	3	50	50	100
EMT3131	Clinics	-	-	-	18	6	100	-	100
*** ****	Open Elective-II	-	-	-	-	3	S/NS		
	TOTAL	7	4	-	18	20	300	200	500

Note:
ESE for EMT3102, EMT3103, EMT3104 will be conducted for 100 marks and normalized to 50 for grading.

SEMISTER - VI

Course code	Course title	Credit distribution (L,T,P, CL are hours/week)					Marks Distribution		
		L	T	P	CL	C	IAC	ESE	Total
EMT3201	Paediatric and neonatal emergencies	1	1	-	-	2	50	50	100
EMT3202	Tele emergency medicine	1	1	-	-	2	50	50	100
EMT3203	Disaster management	2 .	-	-	-	2	50	50	100
EMT3221	CPR, BLS, ACLS and ATLS	1	-	4	-	3	50	50	100
EMT3231	EMT clinics –In-hospital	-	-	-	12	4	50	50	100
EMT3232	EMT Clinics-Pre-hospital	-	-	-	12	4	50	50	100
EMT****	Program Elective-II	-	-	-	-	3	50	50	100
TOTAL		5	2	4	15	20	350	350	700

Note: ESE for
• EMT3201, EMT3202, EMT3203 and EMT3221 will be conducted for 50 marks

Open Elective:

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

Program Elective:

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

Semester	Course code	Course title	Credit distribution (L,T,P are hours/week)				
			L	T	P	CL	C
IV / VI Semester	EMT3241	Wilderness services	-	-	6	-	3
	EMT3242	Infection control	1	1	2	-	3
	EMT3243	Global health and sustainability	1	1	2	-	3
	EMT3244	Outdoor leadership	-	1	4	-	3

INTERNSHIP

Semester VII	Internship I	Duration: 6 month 72 hours in a week/ 12 hours per day
Semester VIII	Internship II	Duration: 6 month 72 hours in a week/ 12 hours per day

OVERALL CREDIT DISTRIBUTION TABLE

SEMESTER	HOURS PER WEEK				TOTAL CREDITS	Marks		
	L	T	P	CL		IAC	ESE	Total
I - SEMESTER	11	2	8	9	20	560	240	800
II - SEMESTER	9	2	10	9	20	290	310	600
III - SEMESTER	14	3	-	9	20	360	340	700
IV - SEMESTER	13	2	4	9	20	440	360	800
V - SEMESTER	7	4	-	18	20	300	200	500
VI - SEMESTER	5	2	4	15	20	350	350	700
VII- SEMESTER	-			72	NA	-	-	-
VIII- SEMESTER	-			72	NA	-	-	-
Grand Total	60	15	26	153	120	2300	1850	4200