

2. PROGRAM EDUCATION OBJECTIVES (PEOs)

The overall objective of the learning outcome-based curriculum framework (LOCF) for Bachelor of Science in Respiratory Therapy Program are as follows:

PEO No.	Education Objective
PEO 1	Students will be able to use their fundamental knowledge and clinical competence in Respiratory Therapy as and when required to achieve professional excellence.
PEO 2	Students will demonstrate strong and well defined clinical / practical skills in respiratory care plans and procedures.
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.
PEO 4	Students will be able to use interpersonal and collaborative skills to identify, assess and formulate problems associated with the patients requiring any respiratory support and troubleshoot.
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 relate the concepts of treating the critically ill, homecare respiratory needs and pulmonary rehabilitation towards serving the cause of the society.



3. GRADUATE ATTRIBUTES

S No.	Attribute	Description
1	Professional Knowledge	Demonstrate scientific knowledge and understanding to work as a health care professional
2	Clinical / practical skills	Demonstrate Clinical / practical skills 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. Respiratory Therapy 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	Entrepreneurshi p, 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	Course title	Cre (L,T	dit (s) P ,are	Distrik hours	Marks Distribution			
code		L	T	Р	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
YGA1121	Yoga	1	-	2	2	100	-	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
	Total	13	4	6	20	560	240	800

Note: ESE for

- ANA1101 & PHY1101will be conducted for 50 marks and normalized to 70 marks for grading
- RES1101 & RES1102will be conducted for 50 marks.
- ANA1112, YGA1121, EIC1001 & CSK1001has only internal assessment of 100 marks.

SEMESTER - II

Course	Course title	Cro (L,1	edit (s 「,P are) Distribu e hours/ w	Marks Distribution			
code		L	Т	P	CR	IAC	ESE	Total
ANA1201	Anatomy - II	1	-	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
RES1223	Pulmonary Diagnostics - I	2	-	2	3	50	50.	100
	Total	12	4	-8	20	340	360	700

Note: ESE for

- ANA1201, PHY1201& BIC1201 will be conducted for 50 marks and normalized to 70 marks for grading.
- RES1201, RES1202 & RES1223 will be conducted for 50 marks
- ANA1212has only internal assessment of 100 marks





SEMESTER III

Course code MCB2103	Course title	Cre (L,T,	dit (s P are	b) Dis	stribut urs/ w	Marks Distribution			
	Migrable	L	T	Р	CL	CR	IAC	ESE	Total
PAT2103	Microbiology	3	-	-	-	3	30	70	100
	Pathology	3	-	-	-	3	30	70	
RES2101	Pulmonary Diagnostics - II	1	1	_					100
RES2102	Pediatric Respiratory Care	3	- -	-		2	50	50	100
RES2103	Pulmonary Diseases		-	-	-	3 .	50	50	100
RES2131	Clinical - I	2	-	-	-	2	50	50	100
*** ***	Open Elective - I	-	-		12	4	100	7	100
			-	-	-	3		S/NS	
Note: ESE fo	or MCB2103 & PAT2103 will be o	15	1	-	12	20	310	290	600

Note: ESE for MCB2103 & PAT2103 will be conducted for 50 marks and normalized to 70 marks for grading

ESE for RES2101, RES2102 & RES2103 will be conducted for 50 marks

In this semester, it is compulsory for the students to obtain certification in BASIC LIFE SUPPORT from MAHE program

SEMESTER IV

Course code	Course title	Cre (I	_, I ,P	s) Di are wee	stribu hours k)	Marks Distribution			
GPY2201	General Payet - I	L	T	Р	CL	CR	IAC	ESE	Total
BST3201	General Psychology	2	-	-	-	2			_
0013201	Biostatistics and Research						30	70	100
	Methodology	3	-	-	-	3	30	70	100
RES2201	Community medicine	<u> </u>					. 30	70	
RES2202	Pospirate C	2	-	-	-	2	100	-	
	Respiratory Care	•					100		100
DECORA	Pharmacology	2	1	-	-	3	50	50	100
RES2231	Clinical II			_		,		50	
RES****	Program Elective - I		-	-	21	7	100		400
	1 - 1 - 1 - 1	-	-	-	-	3			100
Note FOR	Total	12	4		-		50	50	100
Note: ESE fo	R RCT2204		7	•	21	20	360	240	600

GPY2201 & BST3201 will be conducted for 100 marks and normalized to 70 marks for grading
 RES2202 will be conducted for 50 marks.





SEMESTER V

Course title		Olstr	ibuti	on (Ĺ.	Marks Distribution			
	L	T	Р	CL	CR	IAC	ESE	Total
Mechanical Ventilation - I	2	-	2	-	3	50	50	100
Neonatal Respiratory Care	2	1	_					
Critical Care Monitoring and Management	2	1	-	-	3	50	50	100
Clinical- III	_			24		400		
Open Flective - II	_		-	24	8	100	-	100
	-	•	-	-	3		S/NS	
Total	6	2	2	24	20	250	150	400
	Mechanical Ventilation - I Neonatal Respiratory Care Critical Care Monitoring and Management	Mechanical Ventilation - I 2 Neonatal Respiratory Care 2 Critical Care Monitoring and Management - Clinical- III - Open Elective - II -	Course title Course title L T Mechanical Ventilation - I 2 - Neonatal Respiratory Care 2 1 Critical Care Monitoring and Management 2 1 Clinical- III Open Elective - II	Course title Distribution L T P	Are hours/ week L T P CL Mechanical Ventilation - I 2 - 2 - Neonatal Respiratory Care 2 1 - Critical Care Monitoring and Management Clinical- III 24 Open Elective - II 24	Course title Distribution (L,T,Pare hours/ week)	Course title Distribution (L,T,P are hours/ week)	Distribution (L,T,P are hours/ week) L T P CL CR IAC ESE

In this semester, it is compulsory for the students to obtain certification in ADVANCED CARDIAC LIFE SUPPORT from MAHE program

SEMESTER VI

Course code	Course title	Cre	edit ((L,T,	s) Di P are wee	istribu hour k)	Marks Distribution			
		L	T	Р	CL	CR	IAC	ESE	Total
RES3201	Chronic Respiratory Disease Management	2	1	-	-	3	50	50	100
RES3222	Mechanical Ventilation - II	2	-	4		4	50	50	100
RES3231	Clinical - IV			·	20			-	100
RES****				-	30	10	50,	50	100
RES	Open elective - II	-	-	-	-	3	50	50	100
	Total	9	2	4	30	20	200	200	400

Note: ESE for

RES3201 & 304 will be conducted for 50 marks

