

2. PROGRAM EDUCATION OBJECTIVES (PEOs)

The overall objective of the learning outcome-based curriculum framework (LOCF) for MSc. Respiratory Therapy (Neonatal and Pediatric Respiratory care) are as follows:

PEO No.	Education Objective
PEO 1	Students will be able to use their fundamental knowledge and clinical competence in various scientific aspects of neonatal and pediatric respiratory care.
PEO 2	Students will demonstrate strong and well defined clinical / practical skills in respiratory care procedures and skills.
PEO 3	Students will be able to practice the profession with highly professional and ethical attitude, strong communication skills, and to work in an 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 through evidence-based practices in neonatal and pediatric population.
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	Domain Knowledge	Demonstrate comprehensive knowledge, competency and understanding of one or more disciplines that form a part of a professional domain
2	Clinical / Hands-on skills	Demonstrate clinical / hands-on skills in order to deliver and manage quality health care services
3	Communication Skills	Demonstrate the ability to listen carefully, read and write analytically, and present complex information in a clear and concise manner to different groups using appropriate media.
4	Team work	Demonstrate the ability to effectively and efficiently work and collaborate with diverse teams in the best interest of health care needs of the community
5.	Professional ethics	Demonstrate the ability to embrace moral/ethical values in conducting one's life, formulate a position/argument about an ethical issue from multiple perspectives, and use ethical practices in 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	Demonstrate capacity to think critically and extrapolate from what one has learned by applying their competencies and knowledge to solve different kinds of non-familiar problems in real life situations.
8	Information/Digital Literacy	Demonstrate capability to use ICT in a variety of learning situations, demonstrate ability to access,

S No.	Attribute	Description
		evaluate, and use a variety of relevant information sources and to use appropriate software for analysis of data.
9	Multicultural Competence	Demonstrate knowledge of the values and beliefs of multiple cultures and a global perspective, effectively engage in a multicultural society, and interact respectfully with diverse groups.
10.	Leadership qualities	Demonstrate leadership capability to formulate an inspiring vision, build a team, motivate and inspire team members to attain organizational vision
11.	Lifelong Learning	Demonstrate the ability to acquire knowledge and skills that are necessary for participating in learning activities throughout life, through self-paced and self-directed learning aimed at personal development, meeting economic, social and cultural objectives, and adapting to demands of work place through knowledge/skill development/reskilling.



5. PROGRAM OUTCOMES (POs):

After successful completion of Masters / MSc. Respiratory Therapy (Neonatal and Pediatric Respiratory Care), students will be able to:

PO No.	Attribute	Competency
PO 1	Domain knowledge	Possess and acquire scientific knowledge to work as a health care professional
PO 2	Clinical/ Hands-on skills	Demonstrate and possess clinical and hands-on 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 interdisciplinary health care team



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

SEMESTER - I

Course Code	Course Title	Credit Distribution (hours/week)					Marks Distribution		
		L	T	PW	CL	CR	IAC	ESE	Total
ABS6101	Advanced Biostatistics & Research Methodology	3	1	-	-	4	30	70	100
RES6001	Medical Terminology	1	2	-	-	3	50	50	100
RES6003	Clinical Anatomy and physiology of Respiratory Care	2	2	-	-	4	50	50	100
RES6005	Seminars in Respiratory care - I	-	2	-	-	2	100	-	100
RES6070	Thesis - I	-	-	6	-	3	100	-	100
RES6201	Clinical - I	-	-	-	12	4	100	-	100
Total		6	7	6	12	20	430	170	600

Note:
 ESE for
 ABS6101 will be conducted for 50 marks and normalized to 70 marks for grading.
 RES6001 & RES6003 will be conducted for 100 marks and normalized to 50 marks for grading.
 RES6005, RES6070 & RES6201 has only internal assessment of 100 marks

SEMESTER - II

Course Code	Course Title	Credit Distribution (hours/week)					Marks Distribution		
		L	T	PW	CL	CR	IAC	ESE	Total
EPG6201	Ethics & Pedagogy	1	1	-	-	2	100	-	100
RES6002	Respiratory Care Pharmacology	1	2	-	-	3	50	50	100
RES6004	Leadership in Management	-	3	-	-	3	100	-	100
RES6006	Seminars in Respiratory care - II	-	3	-	-	3	100	-	100
RES6080	Thesis - II	-	-	6	-	3	100	-	100
RES6202	Clinical - II	-	-	-	18	6	50	50	100
Total		2	9	6	18	20	500	100	600

Note:
 ESE for
 RES6002 will be conducted out for 100 marks and normalized to 50 marks
 RES6202 will be conducted for 50 marks.
 EPG6201, RES6004, RES6006 & RES6080 has only internal assessment of 100 marks.



SEMESTER - III

Course Code	Course Title	Credit Distribution (hours/week)					Marks Distribution		
		L	T	P/PW	CL	CR	IAC	ESE	Total
RES7001	Respiratory Therapy Science	1	1	2	-	3	50	50	100
RES7003	Seminars in Respiratory care - III	-	3	-	-	3	100	-	100
RES7201	Pediatric and neonatal Critical Care	1	2	-	-	3	50	50	100
RES7203	Advanced Patient Care Assessment and management strategies (Pediatric and neonatal)	-	3	-	-	3	100	-	100
RES7070	Thesis - III	-	-	6	-	3	100	-	100
RES7205	Clinical - III	-	-	-	15	5	100	-	100
Total		2	9	8	15	20	500	100	600

Note:
 ESE for RES7001 will be conducted for 50 marks
 RES7201 will be conducted for 100 marks and normalized to 50 marks for grading.
 RES7203, RES7003, RES7070 & RES7205 has only internal assessment of 100 marks.

SEMESTER - IV

Course Code	Course Title	Credit Distribution (hours/week)					Marks Distribution		
		L	T	P/PW	CL	CR	IAC	ESE	Total
RES7202	Pediatric and Neonatal Respiratory Therapy Science	1	1	2	-	3	50	50	100
RES7204	Pediatric and neonatal Emergency Medical Services	-	2	2	-	3	50	50	100
RES7002	Pulmonary Rehabilitation	1	2	-	-	3	50	50	100
RES7004	Management in Respiratory Care	1	1	-	-	2	100	-	100
RES7006	Seminars in Respiratory care - IV	-	2	-	-	2	100	-	100
RES7080	Thesis- IV	-	-	6	-	3	50	50	100
RES7206	Clinical - IV	-	-	-	12	4	50	50	100
Total		3	8	10	12	20	450	250	700

Note:
 ESE for RES7202, RES7204, RES7080 & RES 7206 will be conducted for 50 marks.
 ESE for RES7002 will be conducted for 100 marks and normalized to 50 marks for grading.
 RES7004 & RES7006 has only internal assessment of 100 marks.