

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 | Entrepreneurship, leadership and mentorship | Display entrepreneurship, leadership and mentorship skills to practice independently as well as in collaboration with the interdisciplinary health care team |

SEMESTER III

| Course code | Course title | Credit (s) Distribution (L,T,P 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 |
| RES2101 | Pulmonary Diagnostics - II | 1 | 1 | - | - | 2 | 50 | 50 | 100 |
| RES2102 | Pediatric Respiratory Care | 3 | - | - | - | 3 | 50 | 50 | 100 |
| RES2103 | Pulmonary Diseases | 2 | - | - | - | 2 | 50 | 50 | 100 |
| RES2131 | Clinical - I | - | - | - | - | 12 | 4 | 100 | - |
| *** **** | Open Elective - I | - | - | - | - | 3 | | | 100 |
| Total | | 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 | Credit (s) Distribution (L,T,P are hours/ week) | | | | | Marks Distribution | | |
|--------------|--|--|----------|----------|-----------|-----------|--------------------|------------|------------|
| | | L | T | P | CL | CR | IAC | ESE | Total |
| GPY2201 | General Psychology | 2 | - | - | - | 2 | 30 | 70 | 100 |
| BST3201 | Biostatistics and Research Methodology | 3 | - | - | - | 3 | 30 | 70 | 100 |
| RES2201 | Community medicine | 2 | - | - | - | 2 | 100 | - | 100 |
| RES2202 | Respiratory Care Pharmacology | 2 | 1 | - | - | 3 | 50 | 50 | 100 |
| RES2231 | Clinical II | - | - | - | - | 21 | 7 | 100 | - |
| RES**** | Program Elective - I | - | - | - | - | 3 | 50 | 50 | 100 |
| Total | | 12 | 4 | - | 21 | 20 | 360 | 240 | 600 |

Note: ESE for
 • 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 code | Course title | Credit (s) Distribution (L,T,P are hours/ week) | | | | | Marks Distribution | | |
|--------------|---|---|----------|----------|-----------|-----------|--------------------|------------|------------|
| | | L | T | P | CL | CR | IAC | ESE | Total |
| RES3121 | Mechanical Ventilation - I | 2 | - | 2 | - | 3 | 50 | 50 | 100 |
| RES3101 | Neonatal Respiratory Care | 2 | 1 | - | - | 3 | 50 | 50 | 100 |
| RES3102 | Critical Care Monitoring and Management | 2 | 1 | - | - | 3 | 50 | 50 | 100 |
| RES3131 | Clinical- III | - | - | - | 24 | 8 | 100 | - | 100 |
| **** | Open Elective - II | - | - | - | - | 3 | S/NS | | |
| Total | | 6 | 2 | 2 | 24 | 20 | 250 | 150 | 400 |

Note:
ESE for RES3121, RES3101 & RES3102 will be conducted for 50 marks.

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 | Credit (s) Distribution (L,T,P are hours/ week) | | | | | Marks Distribution | | |
|--------------|--|---|----------|----------|-----------|-----------|--------------------|------------|------------|
| | | L | T | P | 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 | - | - | - | 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

