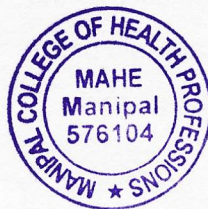


centers, private organizations, non-government organizations and government institutions. Graduates can also pursue higher studies in clinical areas of their interest in the Master of Physiotherapy program and become teaching faculty in the academic institutions. Graduates can work in the community set up and in industries as ergonomic advisors. Graduates may also undertake research in Physiotherapy. Physiotherapy is one of the fastest growing professions in USA, Australia and UK, it offers tremendous opportunity abroad.

2. PROGRAM EDUCATION OBJECTIVES (PEOs)

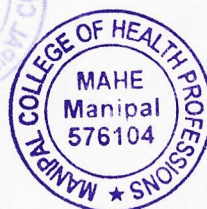
The overall objectives of the learning outcome-based curriculum framework (LOCF) for Bachelor of Physiotherapy program are as follows:

PEO No.	Education Objective
PEO 1	Students will be able to use their fundamental knowledge and clinical competence in Physiotherapy as and when required to achieve professional excellence.
PEO 2	Students will demonstrate strong and well defined clinical and practical skills in Physiotherapy
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 and execute the solution.
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 Physiotherapy 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.



4. QUALIFICATION DESCRIPTORS:

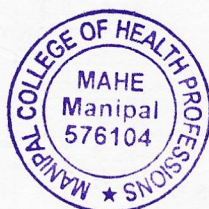
- a) Demonstrate (i) a fundamental and systematic knowledge and understanding of an academic field of study as a whole and its applications, and links to related disciplinary areas/subjects of study; including a critical understanding of the established theories, principles and concepts, and of a number of advanced and emerging issues in the field of Physiotherapy (ii) Procedural knowledge that creates different types of professionals related to the Physiotherapy, including research and development, teaching and in government and public service; (iii) Professional and communication skills in the domain of Physiotherapy, including a critical understanding of the latest developments, and an ability to use established techniques in the domain of Physiotherapy.
- b) Demonstrate comprehensive knowledge about Physiotherapy, including current research, scholarly, and/or professional literature, relating to essential and advanced learning areas pertaining to the field of study, and techniques and skills required for identifying problems and issues.
- c) Demonstrate skills in i) identifying the issues in health care needs; ii) collection of quantitative and/or qualitative data relevant to client's needs and professional practice; iii) analysis and interpretation of data using methodologies as appropriate for formulating evidence based hypotheses and solutions
- d) Use knowledge, understanding and skills for critical assessment of a wide range of ideas and complex problems and issues relating to Physiotherapy
- e) Communicate appropriately with all stakeholders, and provide relevant information to the members of the healthcare team
- f) Address one's own learning needs relating to current and emerging areas of study, making use of research, development and professional materials as appropriate, including those related to new frontiers of knowledge
- g) Apply one's disciplinary knowledge and transferable skills to new/unfamiliar contexts and to identify and analyse problems and issues and seek solutions to real-life problems



5. PROGRAM OUTCOMES (POs):

After successful completion of Bachelor of Physiotherapy 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



6. COURSE STRUCTURE, COURSE WISE LEARNING OBJECTIVE, AND COURSE OUTCOMES

SEMESTER - I

Course code	Course Title	Credit distribution (L, T & P are hours/week)				Marks distribution		
		L	T	P	Credits	IAC	ESE	Total
ANA1101	Anatomy - I	3	-	-	3	30	70	100
ANA1111	Anatomy Practical - I	-	-	4	2	30	70	100
PHY1101	Physiology - I	2	-	-	2	30	70	100
PTH1101	Theoretical concepts in Basics of Exercise Therapy - I	1	1	-	2	50	50	100
PTH1111	Practical in Basics of Exercise Therapy - I	-	-	4	2	100	-	100
PTH1102	Biophysics and Basics of Electrotherapy	2	1	-	3	50	50	100
PTH1123	Foundations of Professional practice	1	-	2	2	100	-	100
CSK1001	Communication Skills	2	-	-	2	100	-	100
EIC1001	Environmental Science and Indian Constitution	2	-	-	2	100	-	100
Total		13	2	10	20	590	310	900

Note:

- ESE in ANA1101, and PHY1101 will be conducted for 50 marks and normalized to 70 marks
- ESE in PTH1102 will be conducted for 100 marks and normalized to 50 marks for grading

SEMESTER - II

Course code	Course Title	Credit distribution (L, T & P are hours/week)				Marks Distribution		
		L	T	P	Credits	IAC	ESE	Total
ANA1201	Anatomy - II	2	-	-	2	30	70	100
ANA1211	Anatomy Practical - II	-	-	4	2	30	70	100
PHY1201	Physiology - II	2	-	-	2	30	70	100
BIC1201	Biochemistry	3	-	-	3	30	70	100
PTH1201	Theoretical concepts in Basics of Exercise Therapy - II	2	1	-	3	50	50	100
PTH1211	Practical in Basics of Exercise Therapy - II	-	-	4	2	100	-	100
PTH1202	Theoretical concepts in Electrotherapy - I	1	1	-	2	50	50	100
PTH1212	Practical in Electrotherapy - I	-	-	4	2	100	-	100
PTH1203	Applied Anatomy and Applied Physiology	-	2	-	2	100	-	100
Total		10	4	12	20	520	380	900

Note:

- ESE in ANA1201, PHY1201 and BIC1201 will be conducted for 50 marks and normalized to 70 marks for grading
- ESE in PTH1201 will be conducted for 100 marks and normalized to 50 marks for grading

SEMESTER - III

Course code	Course Title	Credit distribution (L, T & P are hours/ week)				Marks Distribution		
		L	T	P	Credits	IAC	ESE	Total
PAT2103	Pathology	3	-	-	3	30	70	100
MCB2102	Microbiology	2	-	-	2	100	-	100
PTH2101	Biomechanics	2	1	-	3	50	50	100
PTH2102	Theoretical concepts in Exercise therapy - I	2	1	-	3	50	50	100
PTH2111	Practical in Exercise therapy - I	-	-	4	2	100	-	100
PTH2103	Theoretical concepts in Electrotherapy - II	1	1	-	2	50	50	100
PTH2112	Practical in Electrotherapy - II	-	-	4	2	100	-	100
*** **	Open elective - I	-	-	-	3	S/NS		
Total		10	3	8	20	480	220	700

Note:

- ESE in PAT2103 will be conducted for 50 marks and normalized to 70 marks for grading
- ESE in PTH2101 and PTH2102 will be conducted for 100 marks and normalized to 50 marks for grading

SEMESTER - IV

Course code	Course Title	Credit distribution (L, T, P & C are hours/week)				Marks Distribution			
		L	T	P	C	Credits	IAC	ESE	Total
PHC2201	Pharmacology	2	-	-	-	2	30	70	100
CPY2201	Clinical Psychology	3	-	-	-	3	30	70	100
YGA2221	Fundamentals of Yoga Therapy	1	-	2		2	100	-	100
PTH2201	Exercise Physiology	2	1	-	-	3	50	50	100
PTH2202	Theoretical concepts in Exercise therapy -II	2	1	-	-	3	50	50	100
PTH2211	Practical in Exercise therapy - II	-	-	6	-	3	100	-	100
PTH2203	Ethics, Entrepreneurship, and Leadership	1	1	-	-	2	100	-	100
PTH2231	Clinical Practice	-	-	-	6	2	100	-	100
Total		11	3	8	6	20	560	240	800

Note:

- ESE in PHC2201 and CPY2201 will be conducted for 50 marks and normalized to 70 marks for grading
- ESE in PTH2201 and PTH2202 will be conducted for 100 marks and normalized to 50 marks for grading



SEMESTER - V

Course code	Course Title	Credit distribution (L, T & P are hours/ week)					Marks Distribution		
		L	T	P	C	Credits	IAC	ESE	Total
NEP3101	Neurosciences and Paediatrics	3	-	-	-	3	30	70	100
ORT3101	Orthopaedics	2	-	-	-	2	30	70	100
PTH3101	Theoretical concepts in Neurological Physiotherapy - I	2	1	-	-	3	50	50	100
PTH3131	Clinical Practice in Neurological Physiotherapy - I	-	-	-	6	2	100	-	100
PTH3102	Theoretical concepts in Musculoskeletal Physiotherapy - I	2	1	-	-	3	50	50	100
PTH3132	Clinical Practice in Musculoskeletal Physiotherapy - I	-	-	-	6	2	100	-	100
PTH3111	Neuromusculoskeletal skills - I	-	-	4	-	2	100	-	100
*** **	Open Elective - II	-	-	-	-	3	S/NS		
Total		9	2	4	12	20	460	240	700
<p>Note:</p> <ul style="list-style-type: none"> • ESE in NEP3101 and ORT3101 will be conducted for 50 marks and normalized to 70 marks for grading • ESE in PTH3101 and PTH3102 will be conducted for 100 marks and normalized to 50 marks for grading 									

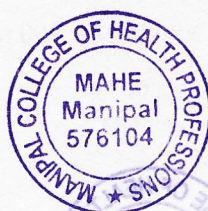


SEMESTER - VI

Course code	Course Title	Credit distribution (L, T, P & C are hours/week)					Marks Distribution		
		L	T	P	C	Credits	IAC	ESE	Total
BST3201	Biostatistics and Research Methodology	3	-	-	-	3	30	70	100
MED3201	General Medicine	3	-	-	-	3	30	70	100
PTH3201	Theoretical concepts in Neurological Physiotherapy - II	2	-	-	-	2	50	50	100
PTH3231	Clinical Practice in Neurological Physiotherapy - II	-	-	-	6	2	50	50	100
PTH3202	Theoretical concepts in Musculoskeletal Physiotherapy - II	2	1	-	-	3	50	50	100
PTH3232	Clinical Practice in Musculoskeletal Physiotherapy - II	-	-	-	6	2	50	50	100
PTH3211	Neuromusculoskeletal skills - II	-	-	4	-	2	100	-	100
PTH****	Program Elective - I	2	1	-	-	3	50	50	100
Total		12	2	4	12	20	410	390	800

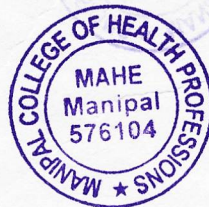
Note:

- ESE in BST3201 will be conducted for 100 marks and normalized to 70 marks for grading
- ESE in MED3201 will be conducted for 50 marks and normalized to 70 marks for grading
- PTH3202 will be conducted for 100 marks and normalized to 50 marks for grading



SEMESTER - VII

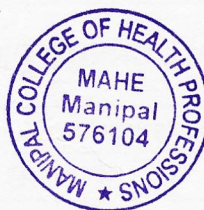
Course code	Course Title	Credit distribution (L, T & P are hours/ week)					Marks Distribution		
		L	T	P	C	Credits	IAC	ESE	Total
SUR4101	General Surgery	3	-	-	-	3	30	70	100
CMS4101	Community Medicine And Sociology	3	-	-	-	3	30	70	100
PTH4101	Theoretical concepts in Cardiopulmonary Physiotherapy - I	3	-	-	-	3	50	50	100
PTH4131	Clinical Practice in Cardiopulmonary Physiotherapy - I	-	-	-	6	2	100	-	100
PTH4102	Theoretical concepts in Community Physiotherapy	3	-	-	-	3	50	50	100
PTH4132	Community Physiotherapy Practice	-	-	-	6	2	50	50	100
PTH4103	Evidence Based practice in Physiotherapy	1	1	-	-	2	100	-	100
PTH4111	Cardiopulmonary and Community Physiotherapy skills	-	-	4	-	2	100	-	100
Total		13	1	4	12	20	510	290	800
<p>Note:</p> <ul style="list-style-type: none"> • ESE in SUR4101 and CMS4101 will be conducted for 50 marks and normalized to 70 marks for grading • ESE in PTH4101 and PTH4102 will be conducted for 100 marks and normalized to 50 marks for grading 									



SEMESTER - VIII

Course code	Course Title	Credit distribution (L, T, P & C are hours/week)					Marks Distribution		
		L	T	P	C	Credits	IAC	ESE	Total
PTH4201	Theoretical concepts in Cardiopulmonary Physiotherapy - II	2	-	-	-	2	50	50	100
PTH4231	Clinical Practice in Cardiopulmonary Physiotherapy - II	-	-	-	6	2	50	50	100
PTH4202	Theoretical concepts for Physiotherapy in Special Conditions	1	1	-	-	2	50	50	100
PTH4232	Clinical practice in Physiotherapy for Special Conditions	-	-	-	6	2	50	50	100
PTH4203	Electrodiagnosis	2	1	-	-	3	50	50	100
PTH4251	Research proposal and scientific writing	1	3	-	-	4	100	-	100
PTH4211	Physiotherapy skills in Cardiopulmonary and special conditions	-	-	4	-	2	100	-	100
PTH****	Program Elective - II	-	-	-	-	3	50	50	100
	Total	6	5	4	12	20	500	300	800

Note:
 • ESE in PTH4203 will be conducted for 100 marks and normalized to 50 marks for grading



Open Electives

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

Program Electives

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

Semester	Course Code	Course Title	Credit (s) Distribution (L,T,P,CL are hours/ week)				
			L	T	P	CL	CR
VI Semester	PTH3241	Movement science in Neurorehabilitation	2	1	-	-	3
	PTH3242	Pain sciences	2	1	-	-	3
VIII Semester	PTH4241	Disability and Health	1	2	-	-	3
	PTH4242	Cancer rehabilitation	2	1	-	-	3

SEMESTER IX (INTERNSHIP)

Course Title	Credit distribution (L, T, P & C are hours/week)					Marks Distribution		
	L	T	P	C	Credits	IAC	ESE	Total
Internship	-	-	-	48	NA	-	-	-

Duration: 6 months/ 26 weeks
Total Contact/ Clinical hours: 1,248

OVERALL CREDIT DISTRIBUTION

Semester	Hours per week				Total Credits	Marks		
	L	T	P	C		IAC	ESE	Total
Semester - I	13	2	10	-	20	590	310	900
Semester - II	10	4	12	-	20	520	380	900
Semester - III	10	3	8	-	20	480	220	700
Semester - IV	11	3	8	6	20	560	240	800
Semester - V	9	2	4	12	20	460	240	700
Semester - VI	12	2	4	12	20	410	390	800
Semester - VII	13	1	4	12	20	510	290	800
Semester - VIII	6	5	4	12	20	500	300	800
Semester - IX (Internship)	-	-	-	48	NA	-	-	-
Total	84	22	54	102	160	4030	2370	6400