

MM INSTITUTE OF PHYSIOTHERAPY AND REHABILITATION

SYLLABUS

Master of Physiotherapy

Cardiothoracic and Pulmonary Disorders

2024-25

Mullana-Ambala, Haryana

Established under Section 3 of UCG Act, 1956

Accredited by NAAC with Grade 'A++'

MAHARISHI MARKANDESHWAR

(DEEMED TO BE UNIVERSITY)

Mullana - Ambala, 133-207 (Haryana)

(Accredited by NAAC with Grade 'A++')



Master of Physiotherapy
PART-I (Semester I & II)
Scheme of Examination and Courses of Studies

Master of Physiotherapy-Cardiothoracic and Pulmonary Disorders- Part I

Semester - I

| Paper | Specialization | Core/ Elective/ Audit Subject | Title of the paper | Teaching Hrs./ Week | Total Credits | Max. Marks Allowed | | | Minimum passing marks in aggregate |
|--------|--------------------------------------|-------------------------------|---|---------------------|---------------|---------------------|---------------------|-------|------------------------------------|
| | | | | | | External Assessment | Internal Assessment | Total | |
| MC101 | Common to all Specializations | Core | Basic Medical Sciences | 5 | 5 | 70 | 30 | 100 | 50% |
| MC102 | Common to all Specializations | Core | Biomechanics and Kinesiology | 5 | 5 | 70 | 30 | 100 | 50% |
| MC103 | Common to all Specializations | Core | Research Methodology and Biostatistics I | 5 | 5 | 70 | 30 | 100 | 50% |
| MCP104 | Cardiothoracic & Pulmonary Disorders | Core | Cardiothoracic & Pulmonary Disorders I - Assessment and Examination | 5 | 5 | 70 | 30 | 100 | 50% |
| MC105 | Common to all Specializations | Audit | Clinical Issues/ Seminar | 3 | 3 | 50 | 50 | 50 | 50% |

| | Audit | Skills acquisition and refinement | 24 | 24 | - | - | - |
|--|-------|-----------------------------------|----|----|---|---|---|
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Master of Physiotherapy - Cardiothoracic and Pulmonary Disorders- Part I

Semester - II

| Paper | Specialization | Core/ Elective/ Audit Subject | Title of the paper | Teaching Hrs./Week | Total Credits | Max. Marks Allowed | | | Minimum passing marks in aggregate |
|-------------|--------------------------------------|--|---|-----------------------|------------------|------------------------|------------------------|-------|---|
| | | | | | | External Assessment | Internal Assessment | Total | |
| MC201 | Common to all Specializations | Core | Advanced medical sciences | 5 | 5 | 70 | 30 | 100 | 50% |
| MC202 | Common to all Specializations | Core | Educational Technology and Management in Physiotherapy | 5 | 5 | 70 | 30 | 100 | 50% |
| MC203 | Common to all Specializations | Core | Research methodology and Biostatistics II | 5 | 5 | 70 | 30 | 100 | 50% |
| MCP204 | Cardiothoracic & Pulmonary Disorders | Core | Physiotherapy Management in Cardiothoracic & Pulmonary Disorders II | 5 | 5 | 70 | 30 | 100 | 50% |
| MC205 | Common to all Specializations | Audit | Clinical Issues/ Seminar | 3 | 3 | - | 50 | 50 | 50% |
| EL 101/ 102 | Common to all Specializations | Elective | Pain Management/ Geriatric Rehabilitation | 3 | 3 | 70 | 30 | 100 | 50% |

| | | | | | | | | | |
|--|--|-------|-----------------------------------|----|----|---|---|---|---|
| | | Audit | Skills acquisition and refinement | 24 | 24 | - | - | - | - |
| | | Audit | Dissertation | 5 | 5 | - | - | - | - |

Dr. Anil K. Sharma

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Master of Physiotherapy-Cardiothoracic and Pulmonary Disorders- Part II

Semester – III

| Paper | Specialization | Core/ Elective / Audit Subject | Title of the paper | Teaching Hrs./Week | Total Credits | Max. Marks Allowed | | | Minimum passing marks in aggregate |
|--------|--------------------------------------|---|--|-----------------------|------------------|------------------------|------------------------|-------|---|
| | | | | | | External Assessment | Internal Assessment | Total | |
| MC301 | Common to all Specializations | Core | Basics of Exercise Physiology & Nutrition | 5 | 5 | 70 | 30 | 100 | 50% |
| MC302 | Common to all Specializations | Core | Bio-Engineering and Rehabilitation Principles | 5 | 5 | 70 | 30 | 100 | 50% |
| MCP303 | Cardiothoracic & Pulmonary Disorders | Core | Physiotherapy Management in Cardiothoracic & Pulmonary Disorders III | 5 | 5 | 70 | 30 | 100 | 50% |
| MC304 | Common to all Specializations | Audit | Clinical Issues/ Seminar | 3 | 3 | - | 50 | 50 | 50% |

| | | | | | | | | | |
|--|--|-------|-----------------------------------|----|----|--|--|--|---|
| | | Audit | Skills acquisition and refinement | 24 | 24 | | | | - |
| | | Audit | Dissertation | 5 | 5 | | | | - |



Master of Physiotherapy-Cardiothoracic and Pulmonary Disorders- Part II
Semester - IV

| Paper | Specialization | Core/ Elective / Audit Subject | Title of the paper | Teaching Hrs./Week | Total Credits | Max. Marks Allowed | | | Minimum passing marks in aggregate |
|-------------|--------------------------------------|--------------------------------|---|--------------------|---------------|---------------------|---------------------|-------|------------------------------------|
| | | | | | | External Assessment | Internal Assessment | Total | |
| MC401 | Common to all Specializations | Core | Applied Exercise Physiology | 5 | 5 | 70 | 30 | 100 | 50% |
| MCP402 | Cardiothoracic & Pulmonary Disorders | Core | Advance Concepts of Physiotherapy in Cardiothoracic & Pulmonary Disorders | 5 | 5 | 70 | 30 | 100 | 50% |
| MCP403 | Cardiothoracic & Pulmonary Disorders | Core | Physiotherapy Management in Cardiothoracic & Pulmonary Disorders IV | 5 | 5 | 70 | 30 | 100 | 50% |
| MCP404 | Cardiothoracic & Pulmonary Disorders | Audit | Practical | 24 | 24 | 100 | 100 | 200 | 50% |
| MCP405 | Cardiothoracic & Pulmonary Disorders | Audit | Dissertation | 5 | 5 | 150 | 50 | 200 | 50% |
| MC406 | Common to all Specializations | Audit | Clinical Issues/ Seminar | 3 | 3 | - | 50 | 50 | 50% |
| EL 201/ 202 | Common to all Specializations | Elective | Autonomous Practice in Physiotherapy/ Women's Health | 1 | 1 | 70 | 30 | 100 | 50% |

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| | Audit | Skills acquisition and refinement | 24 | 24 | - | - | - | - |
|--|-------|-----------------------------------|----|----|---|---|---|---|
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M. M. INSTITUTE OF PHYSIOTHERAPY AND REHABILITATION

MAHARISHI

MARKANDESHWAR

SYLLABUS

Master of Physiotherapy- Neurology

2024-25

Mullana - Ambala, Haryana

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Mullana - Ambala, 133-207 (Haryana)



Master of Physiotherapy

PART-I (Semester I & II)

Scheme of Examination and Courses of Studies

Master of Physiotherapy- Neurology- Part I

Semester - I

| Paper | Specialization | Core/ Elective/ Audit Subject | Title of the paper | Teaching Hrs./Week | Total Credits | Max. Marks Allowed | | Total | Minimum passing marks in aggregate |
|-------|----------------------------------|--|--|-----------------------|------------------|------------------------|------------------------|-------|--|
| | | | | | | External Assessment | Internal Assessment | | |
| MC101 | Common to all Specializations | Core | Basic Medical Sciences | 5 | 5 | 70 | 30 | 100 | 50% |
| MC102 | Common to all Specializations | Core | Biomechanics and Kinesiology | 5 | 5 | 70 | 30 | 100 | 50% |
| MC103 | Common to all Specializations | Core | Research Methodology and Biostatistics I | 5 | 5 | 70 | 30 | 100 | 50% |
| MN104 | Neurological Physiotherapy | Core | Neurological Disorders I - Assessment and Examination | 5 | 5 | 70 | 30 | 100 | 50% |
| MC105 | Common to all Specializations | Audit | Clinical Issues/ Seminar | 3 | 3 | | 50 | 50 | 50% |

Established under Section 3 of UGC Act, 1956!

| | | | | | | | | | |
|--|--|--|--|-----|----|----|-------------|---|---|
| | | | Skills acquisition and refinement | N/A | 24 | 24 | Grade 'A++' | - | - |
|--|--|--|--|-----|----|----|-------------|---|---|

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Master of Physiotherapy- Neurology- Part I

Semester - II

| Paper | Specialization | Core/ Audit Subject | Title of the paper | Teaching Hrs./Week | Total Credits | Max. Marks Allowed | | | Minimum passing marks in aggregate |
|-------------|-------------------------------|---------------------------|--|-----------------------|------------------|------------------------|------------------------|-------|---|
| | | | | | | External Assessment | Internal Assessment | Total | |
| MC201 | Common to all Specializations | Core | Advanced medical sciences | 5 | 5 | 70 | 30 | 100 | 50% |
| MC202 | Common to all Specializations | Core | Educational Technology and Management in Physiotherapy | 5 | 5 | 70 | 30 | 100 | 50% |
| MC203 | Common to all Specializations | Core | Research methodology and Biostatistics II | 5 | 5 | 70 | 30 | 100 | 50% |
| MN204 | Neurological Physiotherapy | Core | Physiotherapy Management in Neurological Disorders-II | 5 | 5 | 70 | 30 | 100 | 50% |
| MC205 | Common to all Specializations | Audit | Clinical Issues/ Seminar | 3 | 3 | 50 | 50 | 50 | 50% |
| EL 101/ 102 | Common to all Specializations | Elective) | Pain Management/ Geriatric Rehabilitation | 1 | 1 | 70 | 30 | 100 | 50% |
| | Audit | | Skills acquisition and refinement | 24 | 24 | - | - | - | - |
| | Audit | | Dissertation | 5 | 5 | - | - | - | - |

(Accredited by NAAC with Grade 'A++')

Dr.

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Master of Physiotherapy

PART-II (Semester III & IV)

Scheme of Examination and Courses of Studies

Master of Physiotherapy- Neurology- Part II

Semester – III

| Paper | Specialization | Core/ Elective/ Audit Subject | Title of the paper | Teaching Hrs./Week | Total Credits | Max Marks Allowed | | | Minimum passing marks in aggregate |
|-------|-------------------------------|-------------------------------|--|--------------------|---------------|---------------------|---------------------|-------|------------------------------------|
| | | | | | | External Assessment | Internal Assessment | Total | |
| MC301 | Common to all Specializations | Core | Basics of Exercise Physiology & Nutrition | 5 | 5 | 70 | 30 | 100 | 50% |
| MC302 | Common to all Specializations | Core | Bio-Engineering and Rehabilitation Principles | 5 | 5 | 70 | 30 | 100 | 50% |
| MN303 | Neurological Physiotherapy | Core | Physiotherapy Management in Neurological Disorders III | 5 | 5 | 70 | 30 | 100 | 50% |
| MC304 | Common to all Specializations | Audit | Clinical Issues/ Seminar | 3 | 3 | - | 50 | 50 | 50% |

(Established under Section 3 of UGC Act, 1956)

| | | Skills acquisition and refinement | | | | | | | |
|--|-------|-----------------------------------|----|---|---|---|---|---|---|
| | Audit | 24 | 24 | - | - | - | - | - | - |
| | Audit | Dissertation | 5 | 5 | - | - | - | - | - |

(Approved by NAAC with Grade A++)

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Master of Physiotherapy- Neurology- Part II

Semester - IV

| Paper | Specialization | Core/ Elective/ Audit Subject | Title of the paper. | Teaching Hrs./Week | Total Credits | Max. Marks Allowed | | | Minimum passing marks in aggregate |
|-------------|-------------------------------|-------------------------------|---|--------------------|---------------|---------------------|---------------------|-------|------------------------------------|
| | | | | | | External Assessment | Internal Assessment | Total | |
| MNC401 | Common to all Specializations | Core | Applied Exercise Physiology | 5 | 5 | 70 | 30 | 100 | 50% |
| MNN402 | Neurological Physiotherapy | Core | Advance Concepts of Physiotherapy in Neurological Disorders | 5 | 5 | 70 | 30 | 100 | 50% |
| MN403 | Neurological Physiotherapy | Core | Physiotherapy Management in Neurological Disorders IV | 5 | 5 | 70 | 30 | 100 | 50% |
| MNN404 | Neurological Physiotherapy | Audit | Practical | 24 | 24 | 100 | 100 | 200 | 50% |
| MNN405 | Neurological Physiotherapy | Audit | Dissertation | 5 | 5 | 150 | 50 | 200 | 50% |
| MNC406 | Common to all Specializations | Audit | Clinical Issues/ Seminar | 3 | 3 | JGC A.1. (95%) | 50 | 50 | 50% |
| EL 201/ 202 | Common to all Specializations | Elective | Autonomous Practice in Physiotherapy/ Women's Health | 1 | 1 | Grade 'A++') | 30 | 100 | 50% |

| | Audit | Skills acquisition and refinement | 24 | 24 | - | - | - |
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M. M. INSTITUTE OF PHYSIOTHERAPY AND REHABILITATION

SYLLABUS

Master of Physiotherapy- Orthopedics

2024-25

MAHARISHI MARKANDESHWAR

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Mullana - Ambala, 133-207 (Haryana)

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Master of Physiotherapy

PART-I (Semester I & II)

Scheme of Examination and Courses of Studies

| Master of Physiotherapy- Orthopedics- Part I | | | | | | | | | |
|--|----------------------------------|--|---|-----------------------|------------------|------------------------|------------------------|-------|--|
| Semester - I | | | | | | | | | |
| Paper | Specialization | Core/ Elective/ Audit Subject | Title of the paper | Teaching Hrs./Week | Total Credits | Max. Marks Allowed | | | Minimum passing marks in aggregate |
| | | | | | | External Assessment | Internal Assessment | Total | |
| MC101 | Common to all Specializations | Core | Basic Medical Sciences | 5 | 5 | 70 | 30 | 100 | 50% |
| MC102 | Common to all Specializations | Core | Biomechanics and Kinesiology | 5 | 5 | 70 | 30 | 100 | 50% |
| MC103 | Common to all Specializations | Core | Research Methodology and Biostatistics I | 5 | 5 | 70 | 30 | 100 | 50% |
| MM104 | Musculoskeletal Physiotherapy | Core | Musculoskeletal Disorders I- Assessment & Evaluation | 5 | 5 | 70 | 30 | 100 | 50% |
| MC105 | Common to all Specializations | Audit | Clinical Issues/ Seminar | 3 | 3 | - | 50 | 50 | 50% |

| | | Audit | Skills acquisition and refinement | 24 | 24 | - | - |
|--|--|-------|--|----|----|---|---|
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Master of Physiotherapy- Orthopedics- Part I

Semester – II

| Paper | Specialization | Core/ Elective/ Audit Subject | Title of the paper | Teaching Hrs./Week | Total Credits | Max. Marks Allowed | | | Minimum passing marks in aggregate |
|-------------|-------------------------------|--|--|-----------------------|------------------|------------------------|------------------------|-------|---|
| | | | | | | External Assessment | Internal Assessment | Total | |
| MC201 | Common to all Specializations | Core | Advanced Medical Sciences | 5 | 5 | 70 | 30 | 100 | 50% |
| MC202 | Common to all Specializations | Core | Educational Technology and Management in Physiotherapy | 5 | 5 | 70 | 30 | 100 | 50% |
| MC203 | Common to all Specializations | Core | Research Methodology and Biostatistics II | 5 | 5 | 70 | 30 | 100 | 50% |
| MM204 | Musculoskeletal Physiotherapy | Core | Physiotherapy Management in Non - Traumatic Musculoskeletal Conditions | 5 | 5 | 70 | 30 | 100 | 50% |
| MC205 | Common to all Specializations | Audit | Clinical Issues/ Seminar | 3 | 3 | | 50 | 50 | 50% |
| EL 101/ 102 | Common to all Specializations | Elective | Pain Management/ Geriatric Rehabilitation | 1 | 1 | 70 | 30 | 100 | 50% |

| | | | | | | | | |
|--|-------|-----------------------------------|----|----|---|---|---|---|
| | Audit | Skills acquisition and refinement | 24 | 24 | - | - | - | - |
| | Audit | Dissertation | 5 | 5 | - | - | - | - |



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| Master of Physiotherapy- Orthopedics- Part II | | | | | | | | | |
|---|----------------------------------|--|--|-----------------------|------------------|------------------------|------------------------|-------|--|
| Semester – III | | | | | | | | | |
| Paper | Specialization | Core/ Elective/ Audit Subject | Title of the paper | Teaching Hrs./Week | Total Credits | Max. Marks Allowed | | | Minimum passing marks in aggregate |
| | | | | | | External Assessment | Internal Assessment | Total | |
| MC301 | Common to all Specializations | Core | Basics of Exercise Physiology & Nutrition | 5 | 5 | 70 | 30 | 100 | 50% |
| MC302 | Common to all Specializations | Core | Bio-Engineering and Rehabilitation Principles | 5 | 5 | 70 | 30 | 100 | 50% |
| MM303 | Musculoskeletal Physiotherapy | Core | Physiotherapy Management in Traumatic Musculoskeletal Conditions | 5 | 5 | 70 | 30 | 100 | 50% |
| MC304 | Common to all Specializations | Audit | Clinical Issues/ Seminar | 3 | 3 | Harvard 50 | | | 50% |

(Established under Section 3 of UGC Act, 1956)

| | | | | | | | | | |
|--|--|-------|--|----|----|---|---|---|---|
| | | Audit | Skills acquisition and refinement | 24 | 24 | - | - | - | - |
| | | Audit | Dissertation | 5 | 5 | - | - | - | - |

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Master of Physiotherapy- Orthopedics- Part II

Semester – IV

| Paper | Specialization | Core/ Elective/ Audit Subject | Title of the paper | Teaching Hrs./Week | Total Credits | Max. Marks Allowed | | | Minimum passing marks in aggregate |
|-------------|----------------------------------|--|--|-----------------------|------------------|------------------------|------------------------|-------|---|
| | | | | | | External Assessment | Internal Assessment | Total | |
| MC401 | Common to all Specializations | Core | Applied Exercise Physiology | 5 | 5 | 70 | 30 | 100 | 50% |
| MM402 | Musculoskeletal Physiotherapy | Core | Advance Concepts of Physiotherapy in Musculoskeletal Disorders | 5 | 5 | 70 | 30 | 100 | 50% |
| MM403 | Musculoskeletal Physiotherapy | Core | Physiotherapy Management in Spinal Conditions | 5 | 5 | 70 | 30 | 100 | 50% |
| MM404 | Musculoskeletal Physiotherapy | Audit | Practical | 24 | 24 | 100 | 100 | 200 | 50% |
| MM405 | Musculoskeletal Physiotherapy | Audit | Dissertation | 5 | 5 | 150 | 50 | 200 | 50% |
| MC406 | Common to all Specializations | Audit | Clinical Issues/ Seminar | 3 | 3 | 50 | 50 | 50 | 50% |
| EL 201/ 202 | Common to all Specializations | Elective | Autonomous Practice in Physiotherapy/ Women's Health | 1 | 1 | 70 | 30 | 100 | 50% |

| | | | | | | | | | |
|--|--|-------|--|----|----|---|---|---|---|
| | | Audit | Skills acquisition and refinement | 24 | 24 | - | - | - | - |
|--|--|-------|--|----|----|---|---|---|---|



IV

**M. M. INSTITUTE OF PHYSIOTHERAPY AND
REHABILITATION**

SYLLABUS

Master of Physiotherapy - Pediatric

2024-25

Mullana-Ambala, Haryana

MAHARISHI MARKANDESHWAR

(DEEMED TO BE UNIVERSITY)

(Accredited by NAAC with Grade 'A++')

Mullana - Ambala, 133-207 (Haryana)



Master of Physiotherapy

PART-I (Semester I & II)

Scheme of Examination and Courses of Studies

Master of Physiotherapy- Pediatrics- Part I

Semester – I

| Paper | Specialization | Core/ Elective/ Audit Subject | Title of the paper | Teaching Hrs./Week | Total Credits | Max. Marks Allowed | | | Minimum passing marks in aggregate |
|-------|-------------------------------|--|--|-----------------------|------------------|------------------------|------------------------|-------|--|
| | | | | | | External Assessment | Internal Assessment | Total | |
| MC101 | Common to all Specializations | Core | Basic Medical Sciences | 5 | 5 | 70 | 30 | 100 | 50% |
| MC102 | Common to all Specializations | Core | Biomechanics and Kinesiology | 5 | 5 | 70 | 30 | 100 | 50% |
| MC103 | Common to all Specializations | Core | Research Methodology and Biostatistics I | 5 | 5 | 70 | 30 | 100 | 50% |
| MP104 | Pediatric Physiotherapy | Core | Pediatric Disorders I - Assessment and Examination | 5 | 5 | 70 | 30 | 100 | 50% |
| MC105 | Common to all Specializations | Audit | Clinical Issues/ Seminar | 3 | 3 | - | 50 | 50 | 50% |

| | | | | | | | |
|--|-------|-----------------------------------|----|----|---|---|---|
| | Audit | Skills acquisition and refinement | 24 | 24 | - | - | - |
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Master of Physiotherapy- Pediatrics- Part I

Semester – II

| Paper | Specialization | Core/ Elective/ Audit Subject | Title of the paper | Teaching Hrs./Week | Total Credits | Max. Marks Allowed | | | Minimum passing marks in aggregate |
|-------------|----------------------------------|--|---|-----------------------|------------------|------------------------|------------------------|-------|---|
| | | | | | | External Assessment | Internal Assessment | Total | |
| MC201 | Common to all Specializations | Core | Advanced medical sciences | 5 | 5 | 70 | 30 | 100 | 50% |
| MC202 | Common to all Specializations | Core | Educational Technology and Management in Physiotherapy | 5 | 5 | 70 | 30 | 100 | 50% |
| MC203 | Common to all Specializations | Core | Research methodology and Biostatistics II | 5 | 5 | 70 | 30 | 100 | 50% |
| MP204 | Pediatric Physiotherapy | Core | Physiotherapy Management in Pediatric disorders II | 5 | 5 | 70 | 30 | 100 | 50% |
| MC205 | Common to all Specializations | Audit | Clinical Issues/ Seminar | 3 | 3 | 50 | 50 | 50 | 50% |
| EL 101/ 102 | Common to all Specializations | Elective | Pain Management/ Geriatric Rehabilitation | 1 | 1 | 70 | 30 | 100 | 50% |

| | | | | | | | | | |
|--|--|-------|--|----|----|---|---|---|---|
| | | Audit | Skills acquisition and refinement | 24 | 24 | - | - | - | - |
| | | Audit | Dissertation | 5 | 5 | - | - | - | - |

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Master of Physiotherapy

PART-II (Semester III & IV)

Scheme of Examination and Courses of Studies

Master of Physiotherapy- Pediatrics- Part II

Semester – III

| Paper | Specialization | Core/ Elective/ Audit Subject | Title of the paper | Teaching Hrs./Week | Total Credits | Max. Marks Allowed | | | Minimum passing marks in aggregate |
|-------|-------------------------------|--|---|-----------------------|------------------|------------------------|------------------------|-------|--|
| | | | | | | External Assessment | Internal Assessment | Total | |
| MC301 | Common to all Specializations | Core | Basics of Exercise Physiology & Nutrition | 5 | 5 | 70 | 30 | 100 | 50% |
| MC302 | Common to all Specializations | Core | Bio-Engineering and Rehabilitation Principles | 5 | 5 | 70 | 30 | 100 | 50% |
| MP303 | Pediatric Physiotherapy | Core | Physiotherapy Management in Pediatric disorders III | 5 | 5 | 70 | 30 | 100 | 50% |
| MC304 | Common to all Specializations | Audit | Clinical Issues/ Seminar | 3 | 3 | 50 | 50 | 100 | 50% |

Mullana-Ambala, Haryana

| | Audit | Skills acquisition and refinement | Dissertation | 5 | 5 | - | - | - | - |
|--|-------|-----------------------------------|--------------|---|---|---|---|---|---|
| | Audit | Skills acquisition and refinement | Dissertation | 5 | 5 | - | - | - | - |

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Master of Physiotherapy - Pediatrics - Part II

Semester - IV

| Paper | Specialization | Core/ Elective/ Audit Subject | Title of the paper | Teaching Hrs./Week | Total Credits | Max. Marks Allowed | | | Minimum passing marks in aggregate |
|------------|----------------------------------|--|--|-----------------------|------------------|------------------------|------------------------|-------|---|
| | | | | | | External Assessment | Internal Assessment | Total | |
| MC401 | Common to all Specializations | Core | Applied Exercise Physiology | 5 | 5 | 70 | 30 | 100 | 50% |
| MP402 | Pediatric Physiotherapy | Core | Advance Concepts of Physiotherapy in Pediatric Disorders | 5 | 5 | 70 | 30 | 100 | 50% |
| MP403 | Pediatric Physiotherapy | Core | Physiotherapy Management in Pediatric disorders IV | 5 | 5 | 70 | 30 | 100 | 50% |
| MP404 | Pediatric Physiotherapy | Audit | Practical | 24 | 24 | 100 | 100 | 200 | 50% |
| MP405 | Pediatric Physiotherapy | Audit | Dissertation | 5 | 5 | 150 | 50 | 200 | 50% |
| MC406 | Common to all Specializations | Audit | Clinical Issues/ Seminar Autonomous Practice in Physiotherapy/ Women's Health | 3 | 3 | - | 50 | 50 | 50% |
| EL 201/202 | Common to all Specializations | Elective | | 1 | 1 | 70 | 30 | 100 | 50% |

| | Audit | Skills acquisition and refinement | 24 | 24 | - | - | - | - |
|--|-------|--|----|----|---|---|---|---|
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M. M. INSTITUTE OF PHYSIOTHERAPY AND REHABILITATION

SYLLABUS

Master of Physiotherapy- Sports

2024-25

Mullana-Ambala, Haryana

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Mullana - Ambala, 133-207 (Haryana)



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Master of Physiotherapy- Sports- Part I

Semester – II

| Paper | Specialization | Core/ Elective/ Audit Subject | Title of the paper | Teaching Hrs./Week | Total Credits | Max. Marks Allowed | | | Minimum passing marks in aggregate |
|-------------|----------------------------------|--|---|-----------------------|------------------|------------------------|------------------------|-------|---|
| | | | | | | External Assessment | Internal Assessment | Total | |
| MC201 | Common to all Specializations | Core | Advanced medical sciences | 5 | 5 | 70 | 30 | 100 | 50% |
| MC202 | Common to all Specializations | Core | Educational Technology and Management in Physiotherapy | 5 | 5 | 70 | 30 | 100 | 50% |
| MC203 | Common to all Specializations | Core | Research methodology and Biostatistics II | 5 | 5 | 70 | 30 | 100 | 50% |
| MS204 | Sports Physiotherapy | Core | Physiotherapy Management in Sports Injuries II | 5 | 5 | 70 | 30 | 100 | 50% |
| MC205 | Common to all Specializations | Audit | Clinical Issues/ Seminar Pain | 3 | 3 | | 50 | 50 | 50% |
| EL 101/ 102 | Common to all Specializations | Elective | Management/ Geriatric Rehabilitation | 1 | 1 | 70 | 30 | 100 | 50% |

(Accredited by NAAC with Grade 'A++')

| | | | | | | | | | |
|--|--|-------|--|----|----|---|---|---|---|
| | | Audit | Skills acquisition and refinement | 24 | 24 | - | - | - | - |
| | | Audit | Dissertation | 5 | 5 | - | - | - | - |



Dr. S. S. Srinivasan
II

Dr. S. S. Srinivasan

PART-II (Semester III & IV)

Scheme of Examination and Courses of Studies

Master of Physiotherapy- Sports- Part II

Semester -- III

| Paper | Specialization | Core/ Elective/ Audit Subject | Title of the paper | Teaching Hrs./Week | Total Credits | Max. Marks Allowed | | | Minimum passing marks in aggregate |
|-------|----------------------------------|--|--|-----------------------|------------------|------------------------|------------------------|-------|--|
| | | | | | | External Assessment | Internal Assessment | Total | |
| MC301 | Common to all Specializations | Core | Basics of Exercise Physiology & Nutrition | 5 | 5 | 70 | 30 | 100 | 50% |
| MC302 | Common to all Specializations | Core | Bio-Engineering and Rehabilitation Principles | 5 | 5 | 70 | 30 | 100 | 50% |
| MS303 | Sports Physiotherapy | Core | Physiotherapy Management in Sports Injuries III | 5 | 5 | 70 | 30 | 100 | 50% |
| MC304 | Common to all Specializations | Audit | Clinical Issues/ Seminar | 3 | 3 | - | 50 | 50 | 50% |

| | | | | | | | | | |
|--|--|-------|--|----|----|--|--|--|---|
| | | Audit | Skills acquisition and refinement | 24 | 24 | | | | - |
| | | Audit | Dissertation | 5 | 5 | | | | - |

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Master of Physiotherapy- Sports- Part II

Semester – IV

| Paper | Specialization | Core/ Elective/ Audit Subject | Title of the paper | Teaching Hrs./Week | Total Credits | Max. Marks Allowed | | | Minimum passing marks in aggregate |
|-------------|----------------------------------|--|---|-----------------------|------------------|------------------------|------------------------|-------|---|
| | | | | | | External Assessment | Internal Assessment | Total | |
| MC401 | Common to all Specializations | Core | Applied Exercise Physiology | 5 | 5 | 70 | 30 | 100 | 50% |
| MS402 | Sports Physiotherapy | Core | Advance Concepts of Physiotherapy in Sports Injuries | 5 | 5 | 70 | 30 | 100 | 50% |
| MS403 | Sports Physiotherapy | Core | Physiotherapy Management in Sports Injuries IV | 5 | 5 | 70 | 30 | 100 | 50% |
| MS404 | Sports Physiotherapy | Audit | Practical | 24 | 24 | 100 | 100 | 200 | 50% |
| MS405 | Sports Physiotherapy | Audit | Dissertation | 5 | 5 | 150 | 50 | 200 | 50% |
| MC406 | Common to all Specializations | Audit | Clinical Issues/ Seminar | 3 | 3 | - | 50 | 50 | 50% |
| EL 201/ 202 | Common to all Specializations | Elective | Autonomous Practice in Physiotherapy/ Women's Health | 1 | 1 | 70 | 30 | 100 | 50% |

| | | | | | | | | | |
|--|--|-------|--|----|----|---|---|---|---|
| | | Audit | Skills acquisition and refinement | 24 | 24 | - | - | - | - |
|--|--|-------|--|----|----|---|---|---|---|



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Master of Physiotherapy

PART-I (Semester I & II)

Scheme of Examination and Courses of Studies

Master of Physiotherapy- Sports- Part I

Semester – I

| Paper | Specialization | Core/ Elective/ Audit Subject | Title of the paper | Teaching Hrs./Week | Total Credits | Max. Marks Allowed | | | Minimum passing marks in aggregate |
|-------|----------------------------------|--|---|-----------------------|------------------|------------------------|------------------------|-------|--|
| | | | | | | External Assessment | Internal Assessment | Total | |
| MC101 | Common to all Specializations | Core | Basic Medical Sciences | 5 | 5 | 70 | 30 | 100 | 50% |
| MC102 | Common to all Specializations | Core | Biomechanics and Kinesiology | 5 | 5 | 70 | 30 | 100 | 50% |
| MC103 | Common to all Specializations | Core | Research Methodology and Biostatistics I | 5 | 5 | 70 | 30 | 100 | 50% |
| MS104 | Sports Physiotherapy | Core | Sports Injuries I - Assessment and Examination | 5 | 5 | 70 | 30 | 100 | 50% |
| MC105 | Common to all Specializations | Audit | Clinical Issues/ Seminar | 3 | 3 | 50 | 50 | 50 | 50% |

(Established under Section 3 of UGC Act 1956)

| | | | | | | | | | |
|--|--|--|----|----|--|--|--|--|--|
| | | | | | | | | | |
| | | Audit | 24 | 24 | | | | | |
| | | Skills acquisition and refinement | | | | | | | |

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**M. M. INSTITUTE OF PHYSIOTHERAPY AND
REHABILITATION**

SYLLABUS

Bachelor of Physiotherapy

2024-25

MAHARISHI MARKANDESHWAR

(DEEMED TO BE UNIVERSITY)

(Accredited by NAAC with Grade 'A++')

Mullana - Ambala, 133-207 (Haryana)

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MAHARISHI MARKANDESHWAR INSTITUTE OF PHYSIOTHERAPY AND REHABILITATION
MULLANA, AMBALA, HARYANA

COURSE SCHEME FOR BACHELOR OF PHYSIOTHERAPY

CREDITS: Credit defines the quantum of contents/syllabus prescribed for a course and determines the number of hours of instruction required per week. Thus, normally in each of the courses, credits will be assigned on the basis of the number of lectures/tutorial laboratory work and other forms of learning required, to complete the course contents in a 15-20 weeks schedule:

- 1 credit = 1 hour of lecture per week (1 Credit course = 15 hours of lectures per semester)
- 3 credits = 3 hours of instruction per week (3 Credit course = 45 hours of lectures per semester)

Credits will be assigned on the basis of the lectures (L) / tutorials (T) / Clinical Training (CT) / laboratory work (P) / Research Project (RP) and other forms of learning in a 15-20 weeks schedule.

- L - One credit for one hour lecture per week (1 credit course = 15 hours) T - One credit for one hour tutorial per week (1 credit course = 15 hours)
- P/T - One credit for every two hours of laboratory or practical (1 credit course = 30 hours)
- CT - One credit for every three hours of Clinical training/Clinical rotation/posting (1 credit course = 45 hours) RP - One credit for every two hours of Research Project per week (1 credit course = 30 hours)



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COURSE SCHEME

SEMESTER I (1st to 6th months)

| Course Code | Course Title | Type Of Course | Credit Hours | Course Credit | Weekly Class Hours | Hours | | | | | | | Examination Scheme | | |
|--------------|---|----------------|--------------|---------------|--------------------|------------|-----------|------------|-----------|-------------|------------|------------|--------------------|-----|--|
| | | | | | | L | T | P | C | Total Hours | University | Internal | Total | | |
| B 101 | Human Anatomy - I | Core Course | 4 | 4 | 5 | 60 | 15 | - | - | - | 75 | 70 | 30 | 100 | |
| B 102 | Human Anatomy Practical - I | Core Course | 2 | 2 | 5 | - | - | 75 | - | 75 | 70 | 30 | 100 | | |
| B 103 | Human Physiology - I | Core Course | 4 | 4 | 4 | 45 | 15 | - | - | - | 60 | 70 | 30 | 100 | |
| B 104 | Human Physiology Practical - I | Core Course | 1 | 1 | 2 | - | - | 30 | - | 30 | 70 | 30 | 100 | | |
| B 105 | Clinical Biochemistry | Core Course | 4 | 4 | 5 | 60 | - | 15 | - | - | 75 | 70 | 30 | 100 | |
| B 106 | Sociology | Core Course | 3 | 3 | 3 | 45 | 45 | - | - | - | 45 | 70 | 30 | 100 | |
| B 107 | English, Communication and Soft Skills | AECC | 3 | 3 | 3 | 45 | - | - | - | - | 45 | 70 | 30 | 100 | |
| B 108 | Introduction to Healthcare Delivery System in India | AECC | 2 | 2 | 2 | 30 | - | - | - | - | 30 | - | 100 | | |
| B 109 | Basic Computer and Information Science | SEC | 2 | 2 | 3 | 15 | - | 30 | - | - | 45 | - | 100 | | |
| B 110 | Clinical Observation | SEC | 1 | 1 | 4 | - | - | - | 60 | 60 | - | - | 100 | | |
| Total | | | 26 | 26 | 36 | 300 | 30 | 150 | 60 | 540 | 490 | 510 | 1000 | | |



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SEMESTER II (7th to 12th months)

| Course Code | Course Title | Type Of Course | Credit Hours | Course Credit | Weekly Class Hours | Hours | | | | | Examination Scheme | | | |
|--------------|--|----------------|--------------|---------------|--------------------|------------|-----------|------------|-----------|-------------|--------------------|------------|------------|-----|
| | | | | | | L | T | P | C | Total Hours | University | Internal | Total | |
| B 201 | Human Anatomy - II | Core Course | 4 | 4 | 5 | 60 | 15 | - | - | - | 75 | 70 | 30 | 100 |
| B 202 | Human Anatomy Practical - II | Core Course | 3 | 3 | 6 | - | - | 90 | - | 90 | 90 | 70 | 30 | 100 |
| B 203 | Human Physiology - I | Core Course | 4 | 4 | 4 | 50 | 10 | - | - | 60 | 70 | 30 | 100 | |
| B 204 | Human Physiology Practical - II | Core Course | 1 | 1 | 3 | - | - | 45 | - | 45 | 70 | 30 | 100 | |
| B 205 | General and Clinical Psychology | Core Course | 4 | 4 | 4 | 45 | - | 15 | - | 60 | 70 | 30 | 100 | |
| B 206 | Basic Principles in Biomechanics | Core Course | 4 | 4 | 4 | 45 | 15 | - | - | 60 | 70 | 30 | 100 | |
| B 207 | Environmental Education | AECC | 4 | 4 | 4 | 46 | - | - | - | 46 | 70 | 30 | 100 | |
| B 208 | Medical Terminology and Record Keeping | AECC | 3 | 3 | 3 | 45 | - | - | - | 45 | - | 100 | 100 | |
| B 209 | Clinical Observation | SEC | 1 | 1 | 4 | - | - | - | 60 | 60 | - | 100 | 100 | |
| Total | | | 27 | 27 | 36 | 290 | 40 | 150 | 60 | 540 | 490 | 410 | 900 | |



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SEMESTER III (13th to 18th months)

| Course Code | Course Title | Type Of Course | Credit Hours | Course Credit | Weekly Class Hours | Hours | | | | | | Examination Scheme | | |
|-------------|--|----------------|--------------|---------------|--------------------|-------|---|-----|----|-------------|------------|--------------------|-------|------|
| | | | | | | L | T | P | C | Total Hours | University | Internal | Total | |
| B 301 | Pathology | Core Course | 3 | 3 | 3 | 45 | - | - | - | - | 45 | 70 | 30 | 100 |
| B 302 | Microbiology | Core Course | 3 | 3 | 3 | 45 | - | - | - | - | 45 | 70 | 30 | 100 |
| B 303 | Pharmacology | Core Course | 3 | 3 | 3 | 45 | - | - | - | - | 45 | 70 | 30 | 100 |
| B 304 | Exercise Therapy - I | Core Course | 5 | 5 | 5 | 75 | - | - | - | - | 75 | 70 | 30 | 100 |
| B 305 | Exercise Therapy Practical - I | Core Course | 2 | 2 | 4 | - | - | 60 | - | - | 60 | 70 | 30 | 100 |
| B 306 | Biomechanics and Kinesiology | Core Course | 4 | 4 | 6 | 90 | - | - | - | - | 90 | 70 | 30 | 100 |
| B 307 | Biomechanics and Kinesiology Practical | Core Course | 1 | 1 | 3 | - | - | 45 | - | - | 45 | 70 | 30 | 100 |
| B 308 | Biophysics | Core Course | 3 | 3 | 3 | 45 | - | - | - | - | 45 | 70 | 30 | 100 |
| B 309 | Introduction to quality and patient safety | AECC | 2 | 2 | 2 | 30 | - | - | - | - | 30 | - | 100 | 100 |
| B 310 | Clinical Observation | SEC | 2 | 2 | 4 | - | - | - | 60 | - | 60 | - | 100 | 100 |
| Total | | | 28 | 28 | 36 | 375 | - | 105 | 60 | 60 | 540 | 560 | 440 | 1000 |



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SEMESTER IV (19th to 24th months)

| Course Code | Course Title | Type Of Course | Credit Hours | Course Credit | Weekly Class Hours | Hours | | | | | Examination Scheme | | |
|-------------|---------------------------------|----------------|--------------|---------------|--------------------|-------|---|-----|----|-------------|--------------------|----------|-------|
| | | | | | | L | T | P | C | Total Hours | University | Internal | Total |
| B 401 | Exercise Therapy – II | Core Course | 4 | 4 | 6 | 90 | - | - | - | 90 | 70 | 30 | 100 |
| B 402 | Exercise Therapy Practical – II | Core Course | 3 | 3 | 6 | - | - | 90 | - | 90 | 70 | 30 | 100 |
| B 403 | Electro Therapy | Core Course | 4 | 4 | 6 | 90 | - | - | - | 90 | 70 | 30 | 100 |
| B 404 | Electro Therapy Practical | Core Course | 3 | 3 | 7 | - | - | 105 | - | 105 | 70 | 30 | 100 |
| B 405 | Yoga | Core Course | 2 | 2 | 2 | 30 | - | - | - | 30 | 70 | 30 | 100 |
| B 406 | Yoga Practicai | Core Course | 1 | 1 | 2 | - | - | 30 | - | 30 | 70 | 30 | 100 |
| B 407 | Physiotherapy Law and Ethics | AECC | 3 | 3 | 3 | 45 | - | - | - | 45 | 70 | 30 | 100 |
| B 408 | Clinical Education | SEC | 2 | 2 | 4 | - | - | - | 60 | 60 | 100 | - | 100 |
| Total | | | 22 | 22 | 36 | 255 | - | 225 | 60 | 540 | 490 | 310 | 800 |



SEMESTER V (25th to 30th month)

| Course Code | Course Title | Type Of Course | Credit Hours | Course Credit | Weekly Class Hours | Hours | | | | | Examination Scheme | | |
|--------------|--|----------------|--------------|---------------|--------------------|------------|----------|-----------|------------|-------------|--------------------|------------|------------|
| | | | | | | L | T | P | C | Total Hours | University | Internal | Total |
| B 501 | Clinical Musculoskeletal Conditions and Traumatology | Core Course | 4 | 4 | 6 | 90 | - | - | - | 90 | 70 | 30 | 100 |
| B 502 | General Medicine/Pediatrics and Psychiatry | Core Course | 4 | 4 | 4 | 60 | - | - | - | 60 | 70 | 30 | 100 |
| B 503 | General Surgery including Burns, Plastic Surgery and Obstetrics and Gynecology | Core Course | 4 | 4 | 4 | 60 | - | - | - | 60 | 70 | 30 | 100 |
| B 504 | Community Medicine | Core Course | 4 | 4 | 5 | 75 | - | - | - | 75 | 70 | 30 | 100 |
| B 505 | Diagnostic Imaging for Physiotherapist | AECC | 2 | 2 | 2 | 30 | - | - | - | 30 | - | 100 | 100 |
| B 506 | Evaluation Methods and Outcomes | SEC | 2 | 2 | 3 | 15 | - | - | - | 15 | - | 100 | 100 |
| B 507 | Clinical Education | SEC | 4 | 4 | 12 | - | - | - | 180 | 180 | - | 100 | 100 |
| Total | | | 24 | 24 | 36 | 330 | - | 30 | 180 | 540 | 280 | 420 | 700 |

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SEMESTER VI (31st to 36th month)

| Course Code | Course Title | Type Of Course | Credit Hours | Course Credit | Weekly Class Hours | Hours | | | | | Examination Scheme | | |
|--------------|--|----------------|--------------|---------------|--------------------|------------|----------|-----------|------------|-------------|--------------------|------------|------------|
| | | | | | | L | T | P | C | Total Hours | University | Internal | Total |
| B 601 | Physiotherapy in Musculoskeletal and Sports Conditions | Core Course | 4 | 4 | 5 | 75 | - | - | - | 75 | 70 | 30 | 100 |
| B 602 | Physiotherapy in Musculoskeletal and Sports Conditions Practical | Core Course | 2 | 2 | 4 | - | - | 60 | - | 60 | 70 | 30 | 100 |
| B 603 | Physiotherapy in General Medicine and Surgery | Core Course | 4 | 4 | 4 | 60 | - | - | - | 60 | 70 | 30 | 100 |
| B 604 | Physiotherapy in General Medicine and Surgery Practical | Core Course | 1 | 1 | 2 | - | - | 30 | - | 30 | 70 | 30 | 100 |
| B 605 | Clinical Neurology and Neurosurgery | Core Course | 4 | 4 | 5 | 75 | - | - | - | 75 | 70 | 30 | 100 |
| B 606 | Research Methodology and Bio-statistics | Core Course | 4 | 4 | 4 | 60 | - | - | - | 60 | 70 | 30 | 100 |
| B 607 | Clinical Education | SEC | 4 | 4 | 12 | 180 | - | - | - | 180 | 420 | 100 | 100 |
| Total | | | 23 | 23 | 36 | 270 | - | 90 | 180 | 540 | 420 | 280 | 700 |



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SEMESTER VII (37th to 42th month)

| Course Code | Course Title | Type Of Course | Credit Hours | Course Credit | Weekly Class Hours | Hours | | | | | Examination Scheme | | |
|--------------|---|----------------|--------------|---------------|--------------------|------------|----------|-----------|------------|-------------|--------------------|------------|------------|
| | | | | | | L | T | P | C | Total Hours | University | Internal | Total |
| B 701 | Physiotherapy in Neurological Disorders | Core Course | 4 | 4 | 5 | 75 | - | - | - | - | 70 | 30 | 100 |
| B 702 | Physiotherapy in Neurological Disorders Practical | Core Course | 2 | 2 | 4 | - | - | 60 | - | 60 | 70 | 30 | 100 |
| B 703 | Clinical Cardiovascular & Pulmonary conditions and Intensive Care | Core Course | 4 | 4 | 5 | 75 | - | - | - | 75 | 70 | 30 | 100 |
| B 704 | Health Fitness and Wellness | Core Course | 4 | 4 | 4 | 60 | - | - | - | 60 | 70 | 30 | 100 |
| B705 | Clinical Education | SEC | 4 | 4 | 18 | - | - | - | 270 | 270 | - | 100 | 100 |
| Total | | | 18 | 18 | 36 | 210 | - | 60 | 270 | 540 | 280 | 220 | 500 |

Established under Section 3 of UGC Act, 1956
 (Accredited by NAAC with Grade A++)



SEMESTER VIII (43th to 48th month)

| Course Code | Course Title | Type Of Course | Credit Hours | Course Credit | Weekly Class Hours | Hours | | | | | Examination Scheme | | |
|--------------|--|----------------|--------------|---------------|--------------------|------------|----------|------------|------------|-------------|--------------------|------------|------------|
| | | | | | | L | T | P | C | Total Hours | University | Internal | Total |
| B 801 | Physiotherapy in Cardiovascular & Pulmonary Conditions and Intensive Care | Core Course | 4 | 4 | 5 | 75 | - | - | - | 75 | 70 | 30 | 100 |
| B 802 | Physiotherapy in Cardio-Vascular & Pulmonary Conditions and Intensive Care Practical | Core Course | 3 | 3 | 6 | - | - | 90 | - | 90 | 70 | 30 | 100 |
| B 803 | Community Based Rehabilitation | Core Course | 4 | 4 | 6 | 90 | - | - | - | 90 | 70 | 30 | 100 |
| B 804 | Clinical Reasoning and Evidence Based Physiotherapy Practice | Core Course | 2 | 2 | 2 | 30 | - | - | - | 30 | 70 | 30 | 100 |
| B 805 | Research Project | Core Course | 2 | 2 | 3 | 15 | - | 30 | - | 45 | | 100 | 100 |
| B 806 | Administration and Teaching Skills | AECC | 2 | 2 | 2 | 15 | - | 15 | - | 30 | | 100 | 100 |
| B 807 | Clinical Education | SEC | 4 | 4 | 12 | - | - | - | 180 | 180 | | 100 | 100 |
| Total | | | 21 | 21 | 36 | 225 | - | 135 | 180 | 540 | 280 | 420 | 700 |

