

CIRCULAR:-

A reference is invited to the regulation relating to the degree of Master of Physiotherapy (M.P.Th.) vide Circular No.UG/439 of 2003, dated 11th September, 2003 vide pamphlet No.34 and Deans of the affiliated Medical Colleges and the Director, All India Institute of Physical Medicine and Rehabilitation are hereby informed that the recommendation made by the Ad-hoc Committee appointed by the Academic Council to advise it on all Matters relating to the courses of study and examination relating to the degree of Master of Physiotherapy (M.P.Th.) at its meeting held on 30th March, 2005 has been accepted by the Academic Council at its meeting held on 2nd April, 2005 vide item No.4.43 and subsequently approved by the Management Council at its meeting held on 16th April, 2005 vide item No.11 and that in accordance therewith the R.4374 relating to the syllabus of the Theory & Clinical examination of the second and third academic years respectively relating to the Master of Physiotherapy (M.P.Th.) (Sp.) degree examination has been amended to read as under :-

R.4374 :

- 1) Common Goal of all the speciality programmes of M.P.Th.[Sp.] Degree course-

The overall goal of training of Post graduate Physiotherapy candidate in the respective speciality is to enable him/her, function as a consultant in the respective community such as Geriatrics, women's health; child care, Industry & sports. In addition, to specialise in the management of respective Speciality area. This requires a thorough knowledge of the fundamentals as well as the recent advances. He/she should be able to make logical decisions regarding patient management & adopt favourable attitude. He/ she should be able to perform appropriate Physiotherapeutic intervention independently. During this period he/she will also be expected to acquire skills in teaching Technology & gain experience in Research methodology. He/she should practice Physiotherapy in respective speciality, maintaining the highest regards for ethical aspect.

All the specialities offered for the M.P.Th.(Sp.) programme shall focus on critical evaluation, clinical reasoning, problem solving in addition to measurement of treatment outcome, emphasizing on latest diagnostic & therapeutic trends in Manual therapy, neuro-developmental approach & Chest Physiotherapy skills [including Intensive Care area]

- 2) Common Objectives for all the three specialties- At the end of the course, the candidate shall be able to -

- A) acquire the in depth knowledge of structure & function of human body related to the respective branch of speciality in Physiotherapy,

- B) acquire in depth knowledge of movement dysfunction of human body, cause there of & principles underlying the use of Physiotherapeutic interventions for restoring movement dysfunction to normalcy.
- C) demonstrate ability to critically evaluate, recent Physiotherapeutic & related medical literature from Journals up date knowledge & adapt diagnostic & therapeutic procedures based on this appraisal.
- D) demonstrate functional & electro diagnostic skills & laboratory procedures as are relevant to the diagnosis & evaluation of patient under his /her care.
- E) demonstrate ability to make appropriate clinical decision & outcome measures based on the comprehensive knowledge of theoretical aspects of Community branches such as geriatric, women's health, child care, Industry, sports & health promotion ; as well as respective specialty including recent advances.
- F) demonstrate an expertise in evidence based skill in the management of movement dysfunction, pertaining to respective Physiotherapeutic speciality as well as in community subjects.
- G) demonstrate an ability of expertise in the health promotion & quality restoration of required movement Pertaining to respective Physiotherapy speciality.
- H) manage adequately, routine as well as complicated problems of clinical care related to communities as well as in the respective speciality; at acute, as well as chronic stage, at Indoor [including Intensive care] & outdoor institutional care, independent practice , as well as on the field or at rural set ups.
- I) demonstrate an ability of leadership as well as an expertise in independently planning & executing delivery of Physio therapeutic care in the respective speciality area as well as in the community area during disasters or natural calamities.
- J) demonstrate managerial, administrative & teaching technological skills.
- K) demonstrate knowledge of Legislation applicable to compensation for functional disability & thus ability to demonstrate skill of disability evaluation & appropriate certification, related to respective Physiotherapeutic speciality.

- 3) First academic year-of M.P.Th.[Sp.] programme- will be common to all the candidates, shall focus on the update on following allied & applied sciences—

A) Allied sciences:-

- i) Physiotherapy education,
- ii) Management & administration;
- iii) Ethics Legislation & Professional practice.;
- iv) Research methodology & Biostatistics

B) Applied sciences-

- i) Advanced Electrotherapeutics,
- ii) Applied Physiology [Exercise /Electro/Neuro]
- iii) Movement therapeutic [including manual therapy of spine & T.M. joint; neuro-developmental skills];
- iv) Biomechanics & Bioengineering

Syllabus contents of the allied & applied subjects shall be the same as mentioned in the Part-I syllabus of the old M.P.Th[sp] programme.

- C) **Teaching & Clinical assignments** –candidate shall be posted to all the allied clinical assignments [including community set up] during this academic year. Teaching assignments shall include helping the teaching staff during the conduct of practical /demonstrations of undergraduate students

- D) at the time of admission the candidate shall select any one of the three Speciality subjects included in the third academic year.

4) The second academic year - shall also be common to all the students. It will focus on training in following General subjects related to specific Community areas of physiotherapy practice

- a)-Physiotherapy in Adult & Geriatric care
- b)- Physiotherapy in Women 's health
- c)- Physiotherapy in Child care

The syllabus contents shall be as follows-

Physiotherapy in Geriatric care -

- a] Process of aging-implications of an aging population of India for rehabilitation-i.e.-Demography/mortality/ Morbidity
 - Changes in all the systems
 - Approaches to functional diagnosis in Elderly
 - Evaluation & Philosophy of treatment planning in the elderly
 - Community dwelling & Institutionalized elders
 - Cognitive impairment & its impact on Physical dysfunction
 - Pain management & endurance training
 - Posture-Gait –falls in elderly-ergonomic aspects-fine motor functions & communication problems – Wealthy tips for Healthy aging-Challenges & concern regarding Cancer
 - Intensive care in elderly
 - Osteoporosis

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- b] Physiotherapy in General conditions-Physiotherapeutic management of Musculoskeletal, Neurological & Cardiopulmonary conditions as per the objectives given at R.4374 -1 & 2

Physiotherapy in Women's health-

- Anatomy & Physiology of female pelvic floor & its mechanics in offering sling support
- Puberty, Menarche -urinary dysfunction in high intensity sports
- coping strategies during child bearing year - & postnatal complications
- Urogenital dysfunction
- Obesity & its related problems in women -Primary sterility, pelvic organ prolapse, cardiopulmonary & Musculoskeletal problems
- Women at work place-ergonomics
- Common gynaecological problems of cervix & Vagina, & external genitalia-pain disorders - pelvic inflammation- Various Electrotherapeutic modes
- Woman with Rheumatoid arthritis & multiple joint pain, - cardiopulmonary problems
- Paralytic woman-coping strategies - Role of P.T.
- Homicides in women- Burns-coping strategies-Role of P.T.
- Psychosocial problems -in women -
- Climacteric-menopause-osteoporosis-management - balance dysfunction-senile changes
- Cancer in women -P.T. in Gynaec surgery,

Physiotherapy in Child care-

- i]- Neuro- rehab-- Bases- Development & growth of CNS, neuroanatomy, neurophysiology, development of language, reflex,.
 - Disorders of motor control, maturation of CNS, physiology of CSF: circulation, absorption - pathological conditions
 - Therapeutic approaches based on Motor learning, motor control, developmental neural control[N] human locomotion & its dysfunction; long loop mechanism in human CNS-
 - theories of motor control, motor neuron, muscle spindle, sensory system on motor performance.
 - Feedback mechanism & application -Ballistic & Ramp movement
 - inhibition in CNS & brain plasticity.
 - Theories of skill development in -a]-PNF; Roods, Temple Fay, Conductive, education, sensory integration,
 - Bobath (NDT), Carr & Shepherd's approach,
- ii]-Musculoskeletal growth and maturation; Spinal dysraphism-its complication-
 - congenital anomalies-Advanced reconstructive surgeries& P.T. rehab; Advanced evaluation skills, applied Bioengineering
- iii]- Cardiopulmonary rehab-
 - Embryology& Maturation of heart & lung-
 - Diseases in paediatric age
 - Chest P.T in paediatric age group.

Teaching & Clinical assignments shall include Indoor Outdoor & Intensive care & community based rehab posting pertaining to three community areas. Teaching assignments shall include participation in tutorials & seminars of UG students.

As per the dead line decided on discretion by the Guide & H.O.D of the dept but not later than the end of the second academic term of the second academic year, the candidate shall submit the protocol / synopsis of the dissertation study based strictly on the speciality subject; duly approved by the Guide & the ethical committee of the dept.

The Third academic year shall focus on training in any one of the following Speciality Subjects –

The syllabus of each speciality shall focus on the critical evaluation, problem solving & advanced skills in the respective speciality subject

- a] Musculoskeletal conditions-shall include advanced manipulative therapy skills with special emphasis to sports Medicine; Hand & foot rehab; Industrial health ;& Pain management
- b] Neuro-motor & Psychosomatic conditions –shall emphasis on advanced skills based on neuro-physiological principles for adult conditions & early interventional skills in neonates, as well as management of neurological cases in Intensive care
- c] Cardiovascular & pulmonary conditions –shall focus on Neonatal, paediatric & adult Intensive cardio-pulmonary care, health promotion in specific conditions such as endurance sports, Obesity related cardiopulmonary health promotion & management of terminally ill cases

5-A] Clinical & teaching assignments-Clinical assignments shall include all the elective areas of respective speciality. The teaching assignment shall include conduct of tutorials, seminars help in the conduct of Internal assessment of UG students & class room /clinical teaching of UG students in speciality subject. The candidate shall also assist the faculty members in administrative work such as maintenance of records, equipment, library etc.

5-B] The candidate shall be assigned to work for minimum 4 hours in a week for dissertation work.

5-C] The candidate shall submit to the university, 4 copies of dissertation duly signed by the Guide & the HOD not later than the end of the first academic term of the third academic year.

Further that the amended R.4374 relating to the syllabus of the Theory & Clinical examination of the second and third academic years respectively relating to the Master of Physiotherapy (M.P.Th.) (Sp.) degree examination will be brought into force with effect from the academic year 2005-2006.

MUMBAI-400 032

16th May, 2005

for REGISTRAR

P.T.O.



To,

The Deans of the affiliated in Medical college and the Director, All India Institute of Physical Medicine and Rehabilitation.

AC/4.43/2.04.05

MC/11/16.04.05

No.UG/ 170-A of 2005, MUMBAI-400 032

16th May, 2005

Copy forwarded with compliments for information to :-

- 1) The Dean, Faculty of Medicine,
- 2) The Chairman, Ad-hoc Committee appointed by the Academic Council to advise it on all matters relating to the courses of study and examination relating to the degree of Master of Physiotherapy (M.P.Th.)

Copy to :-

for REGISTRAR

The Director, Board of College and University Development, the Deputy Registrar (Eligibility and Migration Section), the Director of Students Welfare, the Personal Assistants to the Vice Chancellor, the Pro-Vice-Chancellor, the Registrar and the Assistant Registrar, Administrative sub-center, Ratnagiri for information.

The Officer on Special Duty-cum-Controller of Examinations (10 copies), the Finance and Accounts Officer (2 copies), Record Section (5 copies), Publications Section (5 copies), the Deputy Registrar, Enrolment, Eligibility and Migration Section (3 copies), the Deputy Registrar, Statistical Unit (2 copies), the Deputy Registrar (Accounts Section), Vidyanagari (2 copies), the Deputy Registrar, Affiliation Section (2 copies), the Director, Institute of Distance Education, (copies) the Director University Computer Center (IDE Building), Vidyanagari, (2 copies) the Deputy Registrar (Special Cell), the Deputy Registrar, (PRO) . the Assistant Registrar Academic Authorities Unit (2 copies) and the Assistant Registrar, Executive Authorities Unit (2 copies) . They are requested to treat this as action taken report on the concern resolution adopted by the Academic Council referred to in the above Circular and that separate Action Taken Report will be sent in this connection. the Assistant Registrar Constituent Colleges Unit (2 copies), BUCT(1 copy), the Deputy Account, Unit V(1 copy), the In-charge Director, Centralize Computing Facility (1 copy), the Receptionist (1 copy), the Telephone Operator (1 copy), the Secretary MUASA (1 copy), the Superintendent, Post-Graduate Section (2 copies), the Superintendent, Thesis Section (2 copies)