

NIMS UNIVERSITY, JAIPUR



SYLLABUS

MASTER OF OCCUPATIONAL THERAPY

WRITTEN:-

Paper I, Paper II and Paper III shall be common for all specialties

(Each paper will be of 3 hours duration and 100 marks)

FIRST YEAR:

Paper I: Advance practice in Occupational Therapy

Paper II: Occupational Therapy process and practice I

Paper III: Occupational Therapy process and practice II

SECOND YEAR:

(Each paper will be of 3 hours duration and 100 marks)

Paper IV: Occupational Therapy in Specialty area

Paper V: Occupational Therapy in Specialty area

Any one specialty to be chosen by the candidate from the following for paper IV and V:-

1. Occupational Therapy in Neurosciences --M.O.T. (NEURO)
2. Occupational Therapy in Developmental Disabilities --M.O.T. (DEV)
3. Occupational Therapy in Musculoskeletal Conditions -- M.O.T. (MSK)
4. Occupational Therapy in Hand Conditions --M.O.T (Hand Therapy)
5. Occupational Therapy in Mental Health --M.O.T (MEH)
6. Occupational Therapy in Cardio-respiratory conditions-- M.O.T (CVR)

SCHEME OF EXAMINATION OF M.O.T.

M.O.T. part- I

S.N.	Subject	Theory	Practical	Subject Total
1.	Advance Practice in Occupational Therapy	100	-	100
2.	Occupational Therapy Process and Practice -I	100	100	200
3.	Occupational Therapy Process and Practice-II	100	100	200

M.O.T. part- II

S.N.	Subject	Theory	Total Practical	Subject Total
1.	Occupational Therapy in Speciality Area-I	100	100	200
2.	Occupational Therapy in Speciality Area-II	100	100	200

AREAS OF SPECIALTIES:

Group I – Advanced Occupational in Neurosciences (Neuro): The objectives of this course are to provide advanced knowledge in the investigations and intervention strategies for neurological conditions based on neurophysiological and functional, neuro-anatomical foundation. Students should be able to acquire knowledge and practice recent trend using preventive, curative and rehabilitative models. A special emphasis is given on disability evaluation so as to integrated patient in his home, community and environment

Group II- Advanced Occupational Therapy in Developmental Disabilities (DEV): The objective of this study is to expertise student in the field of developmental disabilities. It would provide the advanced knowledge in developmental and psychometric assessment and application knowledge in developmental psychometric assessment and application of neurophysiological and functional intervention modalities in pediatric donations in hospital, community and school settings.

Group III: Advanced Occupational Therapy in Musculoskeletal conditions (MSK): The objectives of this study are to expertise student in Occupational Therapy skills based on medical and rehabilitation model. Student should be able to know and practice recent trends in investigations methods and interventions strategies in the field of Occupational Therapy related to conditions under this branch or specialty.

Group IV: Advanced Occupational Therapy IN Hand Conditions (Hand Therapy): The objective of this study is to expertise the student in hand rehabilitation in industrial as well as traumatic and pathological hand conditions, using preventive, curative as well as rehabilitative model. Student should be able to practice therapy using biomechanical and rehabilitative frame of references as well as physiological approaches. Student should be able to practice recent trends in investigative methods and intervention modalities in the field of Occupational therapy related to hand conditions.

Group V: Advanced Occupational Therapy in Mental Health (Psych): The objectives of the course are to provide the student with expertise in the use of preventive, curative and rehabilitative models for integration of persons with psychological problems in their homes, community and place of work. The candidate will acquire knowledge and skills for practicing recent trends based on current theoretical and philosophical issues, and strategies of intervention in mental health.

Group VI: Advanced Occupational Therapy in Cardio-respiratory Conditions (CVR): The objective of this study is to provide advanced knowledge in investigation and intervention strategies for cardiopulmonary conditions and to plan comprehensive rehabilitation program and preventive strategies to ensure early return to work.

COURSE CONTENTS

FIRST YEAR

PAPER I

- A) Practice issues in occupational therapy;
1. Management functions and strategies
 2. Administration and leadership
 3. Documentation
 4. Fiscal Management
 5. Code of Ethics
 6. Quality assurance
 7. Teaching technology
 8. Ergonomics approaches and applications
 9. Socio-cultural and spiritual influences in O.T.
 10. Recent investigative and evaluative procedures
 11. Disability evaluation, applicability of law and legislation.
 12. Clinical reasoning.
 13. Evidence Base Practice
 14. Alternate practice models
 15. Role of O.T. as Consultant
 16. Current basis of therapy
 17. Advances in computer application in O.T.
 18. Applications of research
 - Bio-statistics and research methods
 - Quantitative research
 - Qualitative research
 - Ethics in research
 - Guidelines for development, refinement, evaluation and use of assessment tools in occupational therapy, scoring, administering tests and critiquing tools.

PAPER II

A) Treatment Context:

1. Model of evidence based practice for Occupational Therapy
2. Prevention of injury and physical dysfunction.
3. Infections control and safety issues in health care settings.
4. Clinical Interventions to promote Occupational function in the following:-

B) General Conditions:-

- Geriatrics
- Infections in adults
- Wellness Program
- Hospice Care
- Community based rehabilitation
- Psychosocial aspects of women and child health.

C) Musculoskeletal disorders related to following:

- Rheumatology
- Advanced Orthopedic Rehabilitation
- Hand Rehabilitation
- Sports Injuries
- Application of Ergonomics Principles
- Trauma Care
- Prostheses and Orthoses
- Burns

D) Cardio-respiratory conditions related to the following:

- Cardio and Pulmonary Rehab.
- Industrial Health
- Strength training and work fitness in athletics
- Energy conservation work hardening

PAPER-III

A) Neurosciences conditions related to:

- Cognitive Rehabilitation
- Neurodegenerative disorders
- Neuropathological Conditions
- Investigative procedures

B) Developmental Disabilities related to:

- Neonatology
- Genetics conditions
- Pediatrics neurological conditions
- Evaluation and assessment tools

C) Mental Health:

- Preventive and current practices in psychological conditions
- Therapeutic media and methods
- Intervention in common psychiatric conditions.

SECOND YEAR (FINAL)

PAPER – IV AND V (Specialty): Any one specialty to be selected from the following:

M.O.T. IN NEUROSCIENCES (NEURO)

- Functional neuroanatomy
- Theories of neurorehabilitation
- Advances in sensory integrative therapy and cognitive rehabilitation
- Normal neurodevelopment and its deviation
- Advances in neuro-developmental therapy for congenital and pathological development conditions.
- Clinical applications of neurosciences: To relate principles of neurophysiology, neuropathology, and neuropsychology to the assessment and therapeutic management of various neurological disorders.
- Geriatric: structural and behavioral implications of older adulthood.
- Biological theories of aging.
- Functional and preventive approaches in central nervous system degeneration
- Prognostic and diagnostic occupational therapy assessment tools and other investigative procedures.
- Psychological aspect of adaptation and adjustment during management of disability.
- Disability evaluation and certificate in neurological conditions.

M.O.T. IN DEVELOPMENTAL DISABILITIES (Dev.)

- Humane development: Neuro-anatomical, neurophysiological principles of development, knowledge of normal and abnormal humane growth and development.
- Advances and research in: Neurodevelopmental approaches, sensory integrative approaches, psychological, acquisition and occupational performance as applied to developmental disabilities.
- Occupational therapy assessment in pediatric population: Application and interpretation using relevant tools, techniques, and scales.
- Therapeutic intervention: Methods, media, modalities used in the treatment of developmental disabilities.
- Management of clinical conditions: Congenital neurological defects, developmental and acquired pediatric abnormalities.
- Neonatal care and early intervention: Assessment, preventive care and early intervention, management in NICU, community and school based practice.

M.O.T. IN MUSKULOSKELETAL (MSK)

- Evaluation of muskulo-skeletal system in correlation to biomechanics.
- Knowledge and practice skills of using various standardized evaluation scales and recent investigative procedures used in musculoskeletal disorders of spine, upper and lower limb.
- Research and practice in occupational therapy using biomechanical and rehabilitative frames of reference as well as kinesio-therapeutic and physiological approaches in management of traumatic, pathological, metabolic, degenerative and congenital disorders and sports injuries.
- Designing, fabrication and checkout of prostheses, assistive devices for spine and upper and lower limbs. In-depth knowledge of fitting and training with upper and lower limbs prostheses and orthoses.
- Application of bio-mechanics and bioengineering.
- Vocational fitness program and job analysis based on ergonomics principles.
- Disability evaluation, functional analysis indices and workmen's Compensation act as per the prevalent legislation.

M.O.T IN HAND CONDITINS (Hand Therapy)

- Evaluation and evolutionary functions of hand based on applied biomechanics.
- Assessment skills using common standardized instruments in evaluating hand dexterity and manipulation skills, its use in the research program.
- Advances in OT in management of various hand functions such as traumatic crush injuries, pathological conditions, and congenital hand deformities.
- Research and practice using biomechanical, kinesio-therapeutic and rehabilitative frames of references as well as physiological approaches.
- Recent trends in prescription, designing, fabrication and fitting of various hand orthoses, prostheses and assistive devices.
- Disability evaluation, functional analysis indices and Workmen's Compensation Act as per the prevalent legislation.
- Vocational fitness program, job analysis and work hardening program based on ergonomic principles.

M.O.T IN MENTAL HEALTH (MEH)

- Applied psychology and biological basis of psychiatry.
- Normal development and its deviations.
- Current philosophical, theoretical basis and frames of reference in OT in mental health.
- Diagnostic and prognostic assessment and evaluation tools and other investigative procedures. Use of standardized rating scales, indices, tests, procedures and methods. Signs & symptoms, and classification of mental illness.
- **Intervention** : Media & methods, principles, planning goals approaches, individual and group implementation and design of treatment in management of children, adolescents, adults and elderly individuals with psychological dysfunction.

- **Alternate Practice Setting:** Day care centers, school setting, gero-psychiatric set-up, community integration, forensic psychiatry, preventive model and return to work program.
- **Rehabilitation:** Principles, process, approaches, goals, personal problems and constraints in rehabilitation an long term care.
- Disability evaluation and job certification in psychiatric conditions.

M.O.T IN CARDIO-REPIRATORY CONDITIONS (CVR)

- Overview of the cardiopulmonary systems – Applications of work physiology principles o cardiac rehabilitation.
- Current perspective in cardiac rehab. – An integrated approach, clinical implications and improvement in quality of life in the frame of cardiac rehab.
- Exercise prescription in cardiac rehab in relation tom the diagnosis: Exercise monitoring, development and prescription, exercise stress testing and interpretation, perspective of exercise formation and prescriptions, applications of exercise to work, activities, sports & leisure, applications of exercise in different manifestations.
- Clinical consideration for – Early intervention in the intensive care phases convalescent phase & late phase of the diseases, research, rehabilitation of the complex cardiac group, rehabilitation of the associated medical condition.
- Genetic & drug related bleeding tendencies- Hemophilia etc.
- Preventive cardiac rehabilitation - Risk factors and life style modification, stress management.
- Management of patients with anxiety & depression in cardiovascular & pulmonary illness.
- Program implementation & functions—Program models.
- Newer technology in cardio respiratory rehab.
- Energy conservation techniques & work, ADL & recreation.
- Work stimulation & work hardening.
- Disability evaluation & work fitness in cardio respiratory conditions.

SCHEME OF EXAMINATION

There shall be three Theory papers of 3 hours duration and 100 marks in First year (common paper to all specialties).

There shall be two theory papers based on specialty topics of 3 hours duration and 100 marks in second year.

Theory – 100 Marks (University exam- 80 marks + Internal Assessment- 20 marks)

Practical – 100 marks (University exam-80 marks + Internal Assessment- 20 marks)

The student shall have to pass in theory and practical examinations separately.

The student should have to secure 50 % of total marks in theory and practical separately to pass the first year and second year examinations.

No practical examination for Paper I

Pattern of paper setting:

- a) Paper I, II and III shall be of three hours duration each (common paper to all specialties).
- b) Paper I, II and III shall include total number of 5 questions, out of which any four questions to be attempted.
- c) Specialty paper IV shall include total 3 questions based on essay out of which any two questions is to be attempted.
- d) Specialty Paper V shall include total 4 questions based on specialty out of which any three questions to be attempted.

CLINICAL:

- a) No practical exam for paper I
- b) There shall be one clinical presentation based on clinical topics of Paper II and III
- c) There shall be one long case based on the specialty.
- d) There shall be one short case based on specialty. Emphasis shall be given to the ability to do functional diagnosis with appropriate clinical reasoning for ability to do functional diagnosis with appropriate clinical reasoning for Occupational Therapy interventions.

VIVA-VICE:

- a) Spots to include orthoses, prostheses, and adaptive equipment and wheelchair adaptations.
- b) Paper IV and V be conducted in two sessions:-
 - Investigation viva
 - Dissertation viva

