***Master of Occupational Therapy***

**SYLLABUS**

SCHEME OF EXAMINATION AND COURSES OF STUDY

UNIVERSITY OF ENGINEERING AND MANAGEMENT

Udaipuria mod, 6 Kms from chomu, Sikar Road, NH – 11, Jaipur, Rajasthan

**(w. e. f session-2018-19)**

**MOT (Master of Occupational Therapy)**

**ORDINANCE GOVERNING REGULATIONS AND CURRICULUM OF**

**MASTER OF OCCUPATIONAL THERAPY COURSE (2 YEAR)**

**PROGRAM TITLE: -** Master of Occupational Therapy (MOT)

**COURSE OUTLINE:**-The Masters Degree in Occupational Therapy is a two year full time program consisting of classroom teaching, self-academic activities and clinical posting. In the first year theoretical basis of Occupational Therapy is refreshed along with research methodology and biostatistics. The students are rotated in all areas of clinical expertise during this period. They are required to choose their study for dissertation and submit a synopsis. During the second year the students will be posted in their area of specialty.

They are required to complete and submit their dissertation. The learning program includes seminars, journal reviews, case presentations, case discussions and classroom teaching. Some of the clinical postings are provided at other reputed centers in the country in order to offer a wider spectrum of experience. The students are encouraged to attend conference, workshop to enhance their knowledge during the course of study. University examinations are held at the end of first year and at the end of second year.

**ELECTIVES OFFERED AND DEGREE AWARDED**

1. Master of Occupational Therapy in Orthopaedics (MOT-Ortho)

2. Master of Occupational Therapy in Neurosciences (MOT-Neuro.)

3. Master of Occupational Therapy in Paediatrics (MOT-Ped.)

4. Master of Occupational Therapy in Mental Health (MOT-MH)

5. Master of Occupational Therapy in Hand Rehabilitation (MOT-HR)

**GOALS OF COURSE**

1. Preparation of a postgraduate student towards his/her professional autonomy with self-regulating discipline at par with global standards.
2. Formation of base of the professional practice by referral as well as first contact mode using evidence based practice.
3. Impartation of research basis in order to validate techniques & technology in practice to Occupational Therapy.
4. Acquainting a student with concept of quality care at the institutional as well as the community levels.
5. Inculcation of appropriate professional relationship in multidisciplinary set up, patient management and co-partnership basis.
6. Preparation of students to address problems related to health education and community Occupational Therapy.
7. Practicing the concept of protection of rights of the community during referral as well as first contact practice.
8. Incorporation of concept of management in Occupational Therapy.
9. Experience in clinical training and undergraduate teaching partly.
10. Providing the honest, competent and accountable Occupational Therapy services to the community.

**ELIGIBILITY FOR ADMISSION**

Candidates who have passed B.Sc. (OT) or BOT degree from recognised institution where the mode of study is a full time program, with minimum 3½ years / 4 ½ years duration from this university or any other university in India or abroad as equivalent with not less than 50% of marks in aggregate and have completed 6 months of compulsory rotating internship. Candidates who have passed BOT through correspondence or Distance Education program are not eligible.

OR

Candidates who have passed BOT through Bridge Course or through Lateral Entry after completing their Diploma in Occupational Therapy from recognised institution where the mode of study is a full time program from this university or any other university in India or abroad as equivalent with not less than 50% of marks in aggregate and have completed 6 months of compulsory rotating internship. Candidates who have passed BOT through correspondence or Distance Education program are not eligible.

**OBTAINING ELIGIBILITY CERTIFICATE**

No candidate shall be admitted for the postgraduate degree course unless the candidate has obtained and produced the eligibility certificate issued by Maharaj Vinayak Global University Jaipur. The candidate has to make the application to the university with the following documents along with the prescribed fee.

1. B.O.T. or B.Sc. (OT) provisional / degree certificate issued by the respective university.

2. Marks cards of all the university examinations passed.

3. Completion of internship certificate.

4. Proof of SC/ST or category-I as the case may be.

Candidate should obtain the eligibility certificate before the last date for admission as notified by the university.

A candidate who has been admitted to postgraduate course should register his/her name in the university within a month of admission after paying the registration fee.

**INTAKE OF STUDENTS**

The intake of students to the course shall be in accordance with the ordinance in this behalf. The guide student ration should be 1:5

**DURATION OF THE COURSE**

The duration of master of Occupational Therapy course shall be extended over a period of two continuous years on a full time basis. Any break in the career, power of extension of the course and the fixation of the term shall be vested with the University.

 I year: MOT Part-I 0 – 12 months

 II year: MOT Part-II 13 – 24 months

**MEDIUM OF INSTRUCTION**

English will be the medium of instruction for the subjects of study and for the examination of the MOT course.

**COURSE CONTENT & STRUCTURE**

The course subjects will be outlined under two major headings – Core Subjects or Subjects Mandatory for all students and Electives or Subjects of Specialty

|  |  |  |
| --- | --- | --- |
| **Paper Code** | **Subjects** | **Hours** |
| **MOT PART-I** |
| **MOT-101** | Basic Science including Biomechanics. | 110 |
| **MOT-102** | Occupational Therapy Knowledge Base. | 110 |
| **MOT-103** | Occupational Therapy-Practice Tools. | 110 |
| **MOT-104** | Biostatistics & Research Methodology.  | 110 |
|  | Clinical Training | 1000 |
| **Total Hours** | **1440** |
| **MOT PART-II** |
| **MOT-105** | Occupational Therapy Practice Issues. | 110 |
| **MOT-106** | Elective | 240 |
| 1. Master of Occupational Therapy in Orthopaedics (MOT-Ortho)
2. Master of Occupational Therapy in Neurosciences (MOT-Neuro.)
3. Master of Occupational Therapy in Paediatrics(MOT-Ped.)
4. Master of Occupational Therapy in Mental Health (MOT-MH)
5. Master of Occupational Therapy in Hand Rehabilitation (MOT-HR)
 |  |
| **MOT-107** | Synopsis & Dissertation work | 110 |
| 9 | Community Camps, Field Visits, Participation in Workshops & Conferences | 980 |
|  | **TOTAL HOURS** | **1440** |
|  | **Grand Total (first Year and second Year)** | **2880** |

**METHODS OF TRAINING**

The training of postgraduate for MOT degree shall be on a full time pattern with graded responsibilities in the management and treatment of patients entrusted to his / her care. The participation of all the students in all facets of educational process is essential. Every candidate should take part in seminars, group discussions, clinical rounds, care demonstrations, clinics, journal review meetings & CME. Every candidate should be required to participate in the teaching and training programs of undergraduate students. Training should include involvement in laboratory experimental work and research studies.

**MONITORING PROCESS OF STUDIES (INTERNAL MONITORING)**

It is essential to monitor the learning progress of each candidate through continuous appraisal and regular assessment. It not only helps teachers to evaluate students, but also students to evaluate themselves. The monitoring is done by the staff of the department based on participation of students in various teaching / learning activities. It may be structured and assessment be done using checklists that assess various aspects.

**Work diary:** Every candidate shall maintain a work diary and record his/her participation in the training programmers conducted by the department such as journal reviews, seminars etc.

Special mention may be made of the presentations by the candidate as well as details of clinical of laboratory procedures, if any conducted by the candidate. The work diary shall be scrutinized and certified by the Head of the Department and Head of the Institution and presented in the university examination.

**Periodic tests:** The College may conduct periodic tests. The test may include written theory papers, practical, viva voce and clinical in the pattern of university examination. Records and marks obtained in such tests will be maintained by the Head of Department and sent to the University, when called for.

**ATTENDANCE**

A candidate is required to attend a minimum of 80% of training and of the total classes conducted during each academic year of the MOT course. Provided further, leave of any kind shall not be counted as part of academic term without prejudice to minimum 80% of training period every year.

Any student who fails to complete the course in this manner shall not be permitted to appear the University Examinations. A candidate who does not satisfy the requirement of attendance even in one subject or more will not be permitted to appear for University Examination. He / She will be required to make up the deficit in attendance to become eligible to take subsequent examination.

**DISSERTATION**

Every candidate pursing MOT degree course is required to carry out work on a selected research project under the guidance of a recognized postgraduate teacher. The results of such a work shall be submitted in the form of dissertation.

The dissertation is aimed to train a graduate student in research methods and techniques. It includes identification of a problem, formulation of a hypothesis search and review of literature getting acquainted with recent advances, designing of a research study, collection of data, critical analysis, and comparison of results and drawing conclusions.

Every candidate shall submit to the Registrar of university in the prescribed proforma a synopsis containing particulars of proposed dissertation work within 6 months from the date of commencement of the course on or before the dates notified by the university. The synopsis shall be sent through the proper channel. Such synopsis will be reviewed and the university will register the dissertation topic.

No change in the dissertation topic or guide shall be made without prior approval of the university.

Guide will be only a facilitator, advisor of the concept and hold responsible in correctly directing the candidate in the methodology and not responsible for the outcome and results.

The dissertation should be written under the following headings.

1. Introduction

2. Aims or objectives of study

3. Review of literature

4. Material and methods

5. Results

6. Discussion

7. Conclusion

8. References

9. Appendices

The written text of dissertation shall not be less than 50 pages and shall not exceed 100 pagesexcluding references, tables, questionnaires and other annexure. It should be neatly typed in double line spacing on one side of paper (A4 size, 8.27” x 11.69” and bound properly. Spiral binding should be avoided. The guide, head of the department and head of the institution shall certify the dissertation. Six copies of dissertation thus prepared shall be submitted to the Registrar (Evaluation), three months before final examination on or before the dates notified by the university.

The examiners appointed by the university shall value the dissertation. Approval of dissertation work is an essential precondition for a candidate to appear in the university examination. The dissertation shall be valued by the evaluator (Examiners) apart from the guide out of which one is external outside the university and one internal from other college of the same university. Any one evaluator acceptance other than the guide will be considered as a precondition for eligibility to take up the examination.

**GUIDE**

The academic qualification and teaching experience required for recognition by this university is as per the criteria for recognition of MOT teachers for guides.

**Criteria for recognition of MOT teacher / guide**

1. M.Sc. (OT) /MOT with 3-5 years teaching experience working on a full time position at a recognized institution.

2. The age of guide / teacher shall not exceed 70 years.

3. The guide student ratio should be 1:5

4. Relaxation for the criteria one and two no withstanding above in view of acute shortage of teachers, the person having three years post MOT teaching experience working on a full time basis may be considered as P.G teachers/guide. Similarly persons with maximum age of 70years may be considered for being guide and examiner in cases of acute shortage of examiners until further amendments by the university in this regard.

**Change of Guide**

In the event of registered guide leaving the college for any reason or in the event of death of guide, guide may be changed with prior permission from the university.

**SCHEDULE OF EXAMINATION**

The University shall conduct examination for MOT course at the end of each year. The examinations shall be known as MOT Part-I Examination and MOT Part-II Examination. A student shall register for all the papers of a year when he/she appears for the first time. If a student fails in the first attempt of MOT Part-I Examination, the student may reappear for the supplementary examination which will be conducted within 4-6 months of declaration of results.

If a student fails in the first attempt of MOT Part-I Examination, or the supplementary examination for MOT Part-I thereof, he/she will continue the course with his/her batch. However he/she can register and appear for MOT Part-II Examination only after clearing the MOT Part-I Examination. If a student fails in the first attempt of MOT Part-II Examination, the student may reappear for the supplementary examination which will be conducted within 4-6 months of declaration of results.

If a student fails in theory and/or practical of MOT Part-II Examination, he/she has to appear for all the papers of each examination in both theory and practical respectively

**Theory and Practical Examination:-**

For any theory and practical paper 25% of total marks allotted to the paper shall be allotted to Internal Assessments of the entire paper.

1. **Instruction to paper setters** – The question paper shall cover the entire syllabus of the subjects. Instruction, if any shall be stated in bold letters.

Pattern for paper setting shall be as follows:

Paper carrying 75 Marks:

Long Essay questions out of 2. Total Marks 2 X 20=40 Marks

Short essay 5 question out of 6. Total Marks 5X7=35 Marks

1. **Moderator** – There shall be one moderator per paper.

Qualification of the Moderator: Master Degree in Occupational Therapy with Five year full time teaching experience from recognized university.

1. **Examiner** – Paper setter can be an examiner –

Qualification of the Examiner: Master Degree in Occupational Therapy with five year full time teaching experience from recognized university.

**SCHEME OF EXAMINATION**

**MOT Part – I**

**Evaluation Scheme**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Paper****Code** | **Subject** | **Written-100** | **Practical-100** | **Grand Total** |
| **Theory** | **I.A** | **Total** | **Practical + Viva** | **I.A** | **Total** |
| **MOT101** | Basic Science including Biomechanics. | 75 | 25 | 100 | - | - | - | **100** |
| **MOT102** | Occupational Therapy Knowledge Base | 75 | 25 | 100 | - | - | - | **100** |
| **MOT103** | Occupational Therapy- Practice Tools | 75 | 25 | 100 | 75 | 25 | 100 | **200** |
| **MOT104** | Biostatistics &Research Methodology  | 75 | 25 | 100 | - | - | - | **100** |
| **TOTAL** | **300** | **100** | **400** | **75** | **25** | **100** | **500** |

**MOT Part – II**

**Evaluation Scheme**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Paper Code** | **Subject** | **Written** | **Practical** | **Grand total** |
| **Theory** | **I.A** | **Total** | **Practical +Viva** | **I.A** | **Total** |  |
| **MOT105** | Occupational Therapy Practice Issues. | 75 | 25 | 100 | - | - | - | 100 |
| **MOT106** | Elective  | 75 | 25 | 100 | 75 | 25 | 100 | 200 |
| **MOT107** | Synopsis & Dissertation work |  |  |  | 100 |  | 100 | 100 |
| **TOTAL** | **150** | **50** | **200** | **175** | **25** | **200** | **400** |

**PARTICULARS OF CLINICAL / PRACTICAL EXAMINATION AND DISTRIBUTION OF MARKS**

Clinical Examination will be aimed at examination of clinical skills and competence of thecandidates for undertaking independent work as a specialist.

|  |  |  |  |
| --- | --- | --- | --- |
| **Assessment** | **Internal** | **External** | **Total** |
| 25 | 75 | 100 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Internal Evaluation (Theory Paper)** | **Class Test** | **Seminar & Case Presentation** | **Total** |
| 15 Marks | 10 Marks | 25 Marks |

|  |  |  |  |
| --- | --- | --- | --- |
| **Evaluation of Practical/ Dissertations** | **Internal** | **External** | **Total** |
| 50 | 50 | 100 |

|  |  |  |
| --- | --- | --- |
| **Duration of Examination** | **External** | **Internal** |
| 3hrs. | 3 hrs. |

**PARTICULARS OF VIVA-VOCE & DISSERTATION**

Viva- Voce examination shall aim at assessing depth of knowledge, logical reasoning, confidence & oral communication skills. Special emphasis shall be given to dissertation work during the MOT Part II examination. The marks of Viva-Voce examination shall be included in the clinical examination to calculate the percentage and declaration of results.

**EXAMINERS**

There shall be 2 examiners. One of them shall be external outside the university and the other shall be internal preferable from the same college or as decided by the university.

**CRITERIA FOR DECLARING AS PASS IN UNIVERSITY EXAMINATION**

A candidate shall be declared pass if he / she secures a paper minimum 50% of maximum marks in each paper and 50% of maximum marks in theory aggregate and secures a minimum 50% of maximum marks in each practical and 50% of maximum marks in Practical / Clinical and Viva- Voce aggregate.

**DECLARATION OF CLASS**

First class with distinction – 75% & above in aggregate provided the candidate passes the examination in 1st attempt. First class – 60% & above in aggregate provided the candidate pass the examination in 1st attempt.

Pass – 50% of maximum marks in theory aggregate and 50% of maximum marks in clinical and Viva-Voce aggregate.

**DESCRIPTIVE COURSE CONTENT**

**PRINCIPLES OF OCCPATIONAL THERAPY PRACTICE**

1. Development of Occupational Therapy Profession
2. History taking, assessment, tests, Patient communication, documentation of findings, treatment organization and planning/execution for intervention.
3. Standardized tests and scales used in various types of cases for assessment and interpretation in Occupational Therapy practice.
4. Documentation of rehabilitation assessment and management using International Classification of Functioning Disability and Health (ICF)
5. Ethical issues in practice of Occupational Therapy -Clinical, Research and Academics. Administration, legislation, rules and regulations governing Occupational Therapy practice- National & International. Scope of Occupational Therapy in Hospital, Community & Industry.

**MOT PART I**

**PAPER – I**

**BASIC SCIENCES INCLUDING BIOMECHANICS**

1. BASIC ANATOMY
2. Anatomy of musculoskeletal system
3. Anatomy of Cardio Pulmonary system
4. Anatomy of nervous system
5. Structure of kidney and bladder

2. BASIC PHYSIOLOGY

1. MUSCLE PHYSIOLOGY & NORMAL & ABNORMAL MUSCLE TONE
2. PHYSICAL FITNESS TESTS AND TRAINING
3. APPLIED WORK PHYSIOLOGY
4. FATIGUE AND CONDITIONING
5. ELECTRO PHYSIOLOGY

1. KINESIOLOGY & BIOMECHANIC

1. EMOTION AND MOTIVATION
2. THEORIES OF PERSONALITY
3. RADIOLOGY
4. BIOFEEDBACK
5. CNS PLASTICITY
6. MOTOR CONTROL AND MOTOR LEARNING
7. MYOFASCIAL RELEASE
8. PAIN & MANAGEMENT
9. TEACHING AND LEARNING

**Paper-II**

**Occupational Therapy Knowledge Base**

**COURSE OBJECTIVES:**

 The objectives of this course are to provide the candidate with the knowledge and skills to deal with the common clinical conditions. The candidate should be able to apply general principles of practice in therapy and appreciate their applications in enhancement of occupational therapy process. The candidate should be able to understand application of research methodology for formulating occupational therapy instruments and evaluation. They should be able to appreciate significance of clinical epidemiology, research ethics and advances in computer applications.

COURSE CONTENTS:

1. **Frame of References**
2. **Practice issues in Occupational Therapy**
3. OT and its relation to health.
4. Wellness, wellbeing and health program.
5. Activity as a therapeutic tool.
6. Socio-cultural and spiritual influences in O.T.
7. Recent investigative and evaluative procedures.
8. Alternate practice models.
9. Role of O.T. as consultant.
10. Current basis of therapy.
11. Advances in computer applications in O.T.
12. Concept of telemedicine / rehabilitation and information technology.
13. **Treatment Context:**
14. Model of evidence based practice for occupational therapy.
15. Prevention of injury and physical dysfunction.
16. Infection control and safety issues in health care settings.
17. **Applications of research:**
18. Guidelines for development.
19. Refinement.
20. evaluation and use of assessment tools in occupational therapy scoring.
21. administering tests and critiquing tools.

**Paper – III**

**Occupational Therapy -Practice Tools**

**Course Objectives:**

 The student will know about various tools effective for therapy. The student will learn various modalities that facilitate rehabilitation for physical and mental conditions

**COURSE CONTENTS:**

1. Assessment of Occupational Performance.
2. Clinical Reasoning.
3. Mobility and Ambulatory Aids
4. Hand Splinting.
5. Assistive Technology.
6. Architectural Barriers and Modification.
7. Orthotics and Applications.
8. Human Locomotion.
9. Posture.
10. Play Therapy.
11. Stress Anxiety and Health.
12. Group Dynamics.
13. Social Skill Training and Assertiveness.
14. Physical Adjunct modalities.
15. Clinical Intervention to promote Occupational Therapy.
16. Diagnostic consideration for infants, children, and adolescents
17. Introduction to the infant, child, and adolescent population
18. Neurological dysfunction in children.
19. Cardiopulmonary dysfunction in children.
20. Children with HIV / AIDS and their families.
21. Psychological dysfunction in childhood and adolescence.
22. Child abuse and neglect.
23. Diagnostic Consideration in adult and older adult practice.
24. Adult neurological dysfunction.
25. Adult orthopedic dysfunction.
26. Upper extremity musculoskeletal impairment.
27. Adults with Mental Illness

**Paper - IV**

**BIOSTATISTICS AND RESEARCH METHODOLOGY**

**Course Objective:**

 To enhance the ability of the Occupational Therapist to conduct scientific studies thereby addressing the concerns of a commitment to inquiry, knowledge development and responsible

 (Knowledge based) clinical practice and to construct valid and reliable assessment tools capable of

 yielding data of scientific value.

**BIOSTATISTICS**

1. Biostatistics: Introduction, Definition, Types, Application in Occupational Therapy
2. Data: Definition, Types, Presentation, Collection methods
3. Measures of central value, Arithmetic mean, median, mode, relationship between them, Partitioned values-Quatertiles, Deciles, Percentiles, Graphical determination
4. Measures of Dispersion, Range, Mean Deviation, Standard Deviation
5. Normal Distribution Curve
6. Co-relation analysis, Bivariate distribution: Scatter Diagram, Co-efficient of correlation, Calculation & interpretation of co-relational co-efficient , T-test, Z-test, P-value
7. Regression analysis, Lines of regression, Calculation of Regression co-efficient
8. Sampling, Methods of Sampling, Sampling distribution, Standard error, Type I & II error
9. Probability (In Brief)
10. Hypothesis Testing, Null Hypothesis, Alternative hypothesis, Acceptance & rejection of null Hypothesis, Level of significance
11. Parametric & Non – Parametric tests
12. Research writing

**MOT PART - II**

**Paper – V**

**Occupational Therapy Practice Issues**

**Course Objectives:**

 Student will learn about disability issues. The course will utilize basic skills of administration. Student will learn about ergonomics, industrial rehabilitation, and work hardening, Oncology and Palliative Care, Hospice Care, Psychosocial aspect of women and child care, Heamatology and Immunological Disorders, Wellness Program, CBR, Legal and Ethical Issues.

**Course Contents**

Impairment, Disability and Handicapped.

Disability Evaluation.

Social and industrial legislation.

Ergonomic Approaches and application.

Work Hardening.

Industrial Rehabilitation.

**Clinical Intervention to promote Occupational Therapy Function in the following:**

Oncology and Palliative Care

Hospice Care

Psychosocial aspect of women and child care

Hematology and Immunological Disorders

 Cardio-respiratory rehabilitation

 CBR

**OT Management Services:**

Managerial Functions

Documentation

Interdisciplinary Communication

Quality Assurance

Fiscal Management

Marketing

**Environments for practice:**

**Legal and Ethical Issues**

1. Legal / Legislative issues concerning:
2. Occupational Therapy Profession
3. Persons with Disability
4. Ethical Issues (Principles of AIOTA & WFOT)
5. Code of ethics
6. Future Planning

**PAPER – VI**

**OCCUPATIONAL THERAPY IN ORTHOPAEDICS (Elective):**

 **COURSE OBJECTIVES:**

 The objectives of this course are to provide the candidate with expertise in LE, UE & Spine rehabilitation in industrial, traumatic and pathological conditions using preventive, curative and rehabilitative model. The candidate should be able to practice therapy using biomechanical kinesiotherapeutic and rehabilitative frames of reference as well as physiological approaches. The candidate should be able to know and practice recent trends in investigative methods and intervention strategies in the field of occupational therapy related to conditions under this branch or specialty.

 **COURSE CONTENTS**

1. Evaluation of musculo-skeletal system in correlation to biomechanics.
2. Knowledge and practice skills of using various standardized evaluation scales and recent investigative procedures used in musculoskeletal disorders of spine, upper and lower limbs.
3. 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 in musculoskeletal
4. System including hand.
5. In depth knowledge of recent trends in prescription Designing, fabrication, fitting and training of various orthoses, prostheses, assistive devices for spine, and upper and lower limbs.
6. Application of biomechanics and bioengineering.
7. Vocational fitness program and job analysis based on ergonomic principles.
8. Disability evaluation, functional analysis indices and Workmen’s Compensation Act as per the prevalent legislation.

**PAPER – VI**

**OCCUPATIONAL THERAPY IN NEUROSCIENCES (Elective):**

**COURSE OBJECTIVES:**

 The objectives of this course are to provide the candidate with expertise in advanced knowledge with respect to the investigations and intervention strategies for neurological conditions based on neurophysiological and functional neuro-anatomical foundation. The candidate should be able to acquire knowledge and practice recent trends using preventive, curative and rehabilitative models. A special emphasis is given on disability evaluation so as to integrate patient in his home, community and work environment.

**COURSE CONTENTS:**

1. Functional neuroanatomy.
2. Theories of neurorehabilitation.
3. Advances in sensory integrative therapy and cognitive rehabilitation
4. Normal neurodevelopment and its deviation.
5. Advances in neuro-developmental therapy for congenital and pathological developmental conditions.
6. Assessment and therapeutic management of various neurological disorders and Modern approaches in the following:-
7. Peripheral neuropathies.
8. Neuromuscular disorder.
9. CVA.
10. Head Injury.
11. Movement disorders.
12. Cerebellar dysfunction.
13. Demylinating disease.
14. Brain tumors, increased intracranial pressure, Hydrocephalus.
15. Degenerative disease of the nervous system.
16. Diseases of cranial nerves.
17. Diseases of the spinal cord and cauda equine.
18. Traumatic spinal cord injury.
19. Seizure disorders.
20. Neuropsyclogical disorders.
21. Autoimmune disorders.
22. Geri care: Structural and behavioral implications of older adulthood.
23. Biological theories of aging.
24. Functional and preventive approaches in central nervous system degeneration.
25. Prognostic and diagnostic occupational therapy assessment tools and other investigative procedures.
26. Psychosocial aspect of adaptation and adjustment during management of disability.
27. Disability evaluation and certification in neurological conditions.
28. Management of Co-ordination deficit.
29. Balance Training.
30. Disorders of oral speech language.
31. Visual Perceptual treatment.
32. Management of sensory deficit.

**PAPER – VI**

**OCCUPATIONAL THERAPY IN PAEDIATRICS (Elective)**

**COURSE OBJECTIVES:**

 The objectives of this course are to provide the candidate with expertise in the field of developmental disabilities. The training would provide advanced knowledge in developmental and psychometric assessment and application of neurophysiological and functional intervention modalities in neonatology & pediatric conditions in hospital, community and school settings. It would impart preciseness in correlating clinical presentation with therapeutic application.

**COURSE CONTENTS:**

1. **Human development:** Neuroanatomy, neurophysiological principles of development, Knowledge of normal and abnormal human growth and development, Development of Hand function and Oral motor Control, Variations in development, Investigation Procedures.
2. **Pediatric Frame of References**
3. **Advances and research in:** Neurodevelopmental approaches, sensory integrative approaches, psychosocial, acquisitional and occupational performances as applied to developmental disabilities.
4. **Occupational therapy assessment in pediatric population:** Application and /or interpretation using relevant tools, techniques, and scales.
5. **Pediatric Conditions:** Cognitive Disorders, Motor Disorders, Developmental Disorders, Neurogenetics, Musculoskeletal, Congenital Disorders.
6. **Therapeutic intervention:** Methods, media, modalities used in the treatment of developmental disabilities, Assistive technology, splints and adaptive devices.
7. **Management of clinical conditions:** Congenital neurological defects, developmental and acquired paediatric abnormalities, Spasticity, Visual perception, Coordination
8. **Neonatal care and early intervention:** Assessment, preventive care and early intervention, management in NICU, community and school based practice.

**PAPER – VI**

**OCCUPATIONAL THERAPY IN MENTAL HEALTH SCIENCES (Elective):**

**COURSE OBJECTIVES:**

The objectives of this course are to provide the candidate with expertise in the use of preventive, curative and rehabilitation models for integration of persons with psychosocial 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.

**COURSE CONTENTS:**

1. Applied psychology and biological basis of psychiatry.
2. Normal development and its deviations.
3. Current philosophical, theoretical basis and frames of reference in occupational therapy in mental health.
4. Diagnostic and prognostic assessment and evaluation tools and other investigative procedures. Use of standardized rating scales, indices, tests, procedures, and methods. Signs and symptoms, classification of mental illness.
5. Intervention:.Media and methods, principles, planning goals, approaches, individual and group, implementation and design of treatment in management of children, adolescents, adults and elderly individuals with psychosocial dysfunction.
6. Alternate practice settings: Day care centers, school setting, gero-psychiatric set-up, community integration, forensic psychiatry, preventive model and return to work program.
7. Rehabilitation: Principles, process, approaches, goals, personnel, problems and constraints in rehabilitation and long term care.
8. Evidence base practice, qualitative & quantitative research in mental health.
9. Disability evaluation and job certification in psychiatric conditions.

**PAPER – VI**

**OCCUPATIONAL THERAPY IN HAND REHABILITATION (Elective)**

**COURSE OBJECTIVES:**

 The objectives of this course are to provide the candidate with expertise in advanced knowledge with respect to the investigations and intervention strategies for Hand Rehabilitation. The candidate should be able to acquire knowledge and practice recent trends using preventive, curative and rehabilitative models. A special emphasis is given on assistive devices including orthotics and splinting, use of standardize tools and batteries, frame and references and psychosocial aspects of disability.

**SECTION I**

 Context of musculo – skeletal O.T. practice. Kinesiology, biomechanics and Pathomechanics related to –Hand ,Assistive devices, Prognostics and orthotics , Diagnostic imaging and other investigations, Diagnostic problems, Theoretical basis underlying clinic decision (Clinical reasoning), Principal and techniques of O.T. assessment.:-History, Examination and measurement including standardized assessment tools and batteries , O. T. diagnosis,Disability , Selection and application of frame of reference, Psychosocial aspect of disability.

 Service design and management in various settings.,Recent trends in prescription designing, fabrication and fitting of various hand orthoses including splint, prostheses, and assistive device.

**SECTION II**

 Specific O.T. Service including Current and future trends in the following but not limited to:

 Hand wound management , Infections in the hand , Fractures and joint injuries to the hand, Tendon injuries , Acute nerve injuries, Compression neuropathy, Brachial plexopathies, Surgical reconstruction for nerve injuries, Vascular and Lymphatic disorders, Soft tissue conditions, Cumulative trauma disorders, Stiffness of the hand, Common wrist injuries, Psychological aspect of hand injuries, Thermal and electrical injuries of hand, Rheumatoid Arthritis, Osteoarthritis and the other Arthritis, Complex regional pain syndromes, Congenital hand anomalies, Mutilating injuries, Wrist and hand amputations, Neurological hand

**Paper VII**

**Synopsis and Dissertation Work**

 Student will select a topic in his/her area of interest, in consultation with a supervisor/Guide, qualified for the purpose as recommended by the council/University for and carry out an independent dissertation, which will involve making research proposal, conduct of the work as per the documented methodology, statistical analysis, dissertation writing. The work will build on the knowledge acquired through study of research methodology and Biostatistics. Each candidate shall submit three type written copies of a dissertation and it should be submitted well in advance before the date of written, oral, clinical and practical examination, Acceptance of the dissertation by the examiners should be a pre-condition to sit in the annual examination.

 Evaluation of the dissertation will be done by the examiner (s) appointed by Vice

 Chancellor of the University.

**LEARNING AND TEACHING STRATEGIES**

 AIM: To develop autonomous and reflective practitioner. Student will explore recent techniques and advances in occupational therapy and apply in the clinical practice.

 The learning & Teaching Methods Include:

* Classroom Lectures
* Demonstration
* Practical
* Self Study
* Assignments/Projects
* Seminars
* Case Presentation
* Discussion
* Visits
* Clinical Teaching
* Journal Presentation
* Classroom Teaching

**CLINICAL WORK**

Evaluation of the Patient

Plan and implement Treatment

Use of Standardized tools

Documentation of Progress

Clinical Discussion with undergraduates

Out reach Posting

Case Presentation and Discussion