



NIMS UNIVERSITY

SYLLABUS

OF

MASTER OF OCCUPATIONAL THERAPY – MOT

VERSION 1.2

DIRECTORATE OF DISTANCE EDUCATION

Shobha Nagar, Jaipur-Delhi Highway (NH-11C), Jaipur- 303121
Rajasthan, India

MASTER OF OCCUPATIONAL THERAPY – MOT

Eligibility	:	BOT/BPT
Programme Duration	:	2 Years
Programme Objectives	:	The inter-relationships of occupation with health and well being and the nature of occupational performance and participation is the core body of knowledge supporting the practice of Occupational Therapy. Occupational Therapy practices are centered on the client's Expressed occupational desires, wishes, needs and goals; and practices that are evidence-based.
Job Prospects	:	A Masters in occupational therapy provides a breadth of employment opportunities, working with individuals, groups, organisations or communities. Occupational therapists work in many settings including hospitals, rehabilitation centres, private practice, community health centres, early intervention centres, social services, schools, government agencies, industrial and Commercial organisations, mental health services, homes, and supported housing. Specialty areas include early intervention, Education, occupational health and safety, case management, mental health, disability, Vocational employment rehabilitation, assistive technology, equipment services, acute care and many others. Occupational therapists may work individually or as part of a multidisciplinary healthcare team. Job prospects for new graduates are excellent.

YEAR I

Course Code	Course Title	Theory/ Practical	Continuous Assessment (Internals)	Credits
OCT16101	Research Methodology and Biostatistics	70	30	7
OCT16102	Application of Occupational Therapy in Rehabilitation	70	30	7
OCT16103	Role of Occupational Therapy in Physical Dysfunctions	70	30	8
OCT16104	Role of Occupational Therapy in Mental Health	70	30	8
OCT16105P	Assessment & Management-I	35	15	1
OCT16106P	O.T Clinics-I	35	15	1
			Total	32

YEAR II

Course Code	Course Title	Theory/ Practical	Continuous Assessment (Internals)	Credits
OCT16201	Pedagogy in Occupational Therapy Education	70	30	8
OCT16202	Administration, Management & Ethical Issues	70	30	7
OCT16203	Occupational Therapy in Musculoskeletal Disorders - I	70	30	7
OCT16204	Occupational Therapy in Musculoskeletal Disorders - II	70	30	7
OCT16205P	Assessment & Management-II	35	15	1
OCT16206P	O.T Clinics-II	35	15	1
DSR16201	Dissertation	200		1
			Total	32

DETAILED SYLLABUS

INSTRUCTIONAL METHOD: Personal contact programmes, Lectures (virtual and in-person), Assignments, Labs and Discussions, Learning projects, Industrial Training Programmes and Dissertation.

YEAR I

RESEARCH METHODOLOGY AND BIOSTATISTICS - OCT16101

UNIT	CONTENTS
1	Research in Occupational Therapy: Introduction to Research Methodology Research – Definition, Concept, Purpose, Approaches, Role of Computers in Research.
2	Research Fundamental: Measurement Measurement Framework Scale of Measurement Pilot Study Types of Variables Reliability & Validity Drawing Tables, Graphs, Master Chart etc.
3	Writing a Research Proposal, Critiquing a Research Article : Defining a Problem Review of Literature Formulating a Question Operational Definition Inclusion & Exclusion Criteria Forming groups Data collection & Analysis Results Interpretation Informed Consent Limitations.
4	Research Design: Principle of Designing Design, Instrumentation & Analysis for Qualitative Research Design, Instrumentation & Analysis for Quantitative Research Design, Instrumentation & Analysis for Quasi-experimental Research Design Models utilized in Occupational Therapy
5	Research Ethics
6	Biostatistics: Introduction, Definition, Types, Application in Occupational Therapy
7	Data: Definition, Types, Presentation, Collection methods.
8	Measures of Central Value: Arithmetic Mean, Median, Mode, relationship between them Partitioned values- Quartiles, Deciles, Percentiles and Graphical determination.
9	Normal Distribution Curve
10	Co-relation Analysis: Bivariate distribution:

	Scatter Diagram Co-efficient of correlation Calculation & interpretation of co-relational co-efficient T-test Z-test P-value
11	Regression Analysis: Lines of Regression, Calculation of Regression Co-efficient.
12	Sampling: Methods of Sampling Sampling Distribution Standard Error Type I & II error
13	Probability: Hypothesis Testing Null Hypothesis Alternative Hypothesis Acceptance & rejection of Null Hypothesis Level of significance.
14	Parametric & Non-Parametric tests

LEARNING SOURCE: Self Learning Materials

ADDITIONAL READINGS:

- A. Introduction To Biostatistics And Research Methods 4th Ed. - P. S. S. Sundar Rao, P. S. S. Sundar Rao, J. Richard-PHI
- B. Methods in Biostatistics – Mahajan - Jaypee Brothers

**APPLICATION OF OCCUPATIONAL THERAPY IN
REHABILITATION- OCT16102**

UNIT	CONTENTS
1	Application Of Occupational Therapy Theory: Development of Occupational Therapy knowledge Organization and use of knowledge Emerging Paradigm Model Base Bridging the gap between Theory and Practice Therapeutic Roles and Functions Clinical Reasoning Assessment and Diagnosis Planning and Intervention O.T Process Model Service Program Critical Analysis of the various approaches used
2	Assistive Technology: Introduction and Definitions of Technology Competencies required by Occupational Therapist Matching Technology to Human needs Role of Assistive Technology in Rehabilitation Technological Applications –

	Seating System Self-care aids Educational and Vocational Aids Interface Switches and Mounting Aids Recreational Aids Visual Aids Communication Aids Aids for the Tactilely Impaired Pointing and Writing Aids Manipulatory and Mobility Aids Upper, lower extremity and Spinal Orthosis and upper and lower Prostheses (Emphasizing application of CAD/CAM technology) Environmental Controlled Units Service Delivery Models Societal & Professional issues regarding Technology Service Delivery Mandate to Occupational Therapy Profession and Professionals Concept of Telemedicine / Rehabilitation and Information Technology Current practice and recent Advances (including material technology) Future of Technology and O.T.
3	Environmental Adaptations: Introduction to Environmental Adaptation Regulations concerning Accessibility to Physical Environment Elimination of Environmental Barriers Determination of personal role choice Designs for Maximizing Performance within the Environment Working Conditions

LEARNING SOURCE: Self Learning Materials

ADDITIONAL READINGS:

- A. Concepts of Occupational Therapy, 4e. - Kathlyn L Reed, Ph.D., Kathlyn L. Reed, Sharon Nelson Sanderson
- B. International Handbook of Occupational Therapy Interventions edited by Ingrid Söderback

ROLE OF OCCUPATIONAL THERAPY IN PHYSICAL DYSFUNCTIONS- OCT16103

UNIT	CONTENTS
1	Common Neurological, Neurosurgical Conditions (including Structural disorders of Nervous System, Infectious Disorders, Degenerative Disorders): Adults with Developmental Disabilities (Alternative living situations, Occupational performance & considerations) Aging & elderly population (General Aspects, Pathophysiology of Human Aging, Assessment & Management of the Elderly with Disability, Aging with a Disability Rehabilitation & Care, Educational & Legal Aspects) Cancer H.I.V. & A.I.D.S, Leprosy.
2	Common Orthopaedic Conditions (including Fractures and Dislocations): Arthritic Conditions Sports Health (Impact of regular training on Human Biological System Assessment of Physical and Functional Capacities, Environmental Consideration, Process and

	Implementation of training, Special considerations in Training, Prevention & Management of Sports Injuries, Safety & Hygiene in Sports Psychology, Organization and Administration considerations, Scope of OT in Sports, Current and Future trends) Trauma Care Thermal Injuries Amputations Cardio-Respiratory Conditions Women's Health (Identifying areas of concern with regards to O.T Profession Adolescence, Child-bearing years, Mature Woman, The Elderly Woman)
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LEARNING SOURCE: Self Learning Materials

ADDITIONAL READINGS:

- A. Occupational Therapy for Physical Dysfunction, 6e - Mary Vining Radomski, Catherine A., Trombly Latham
- B. Occupational Therapy for Physical Dysfunction - Catherine A. Trombly Latham Edition 3, Illustrated Publisher Williams & Wilkins, 1989

ROLE OF OCCUPATIONAL THERAPY IN MENTAL HEALTH-
OCT16104

UNIT	CONTENTS
1	Role of Occupational Therapy in Mental Health: Disorders diagnosed in infancy, childhood or adolescence Delirium, Dementia, Amnesic and other cognitive disorders Mental disorders due to a general medical condition Substance related disorders Schizophrenia and other Psychotic disorders Mood disorders Anxiety disorders Somatoform disorders Eating disorders Adjustment disorders Personality disorders Frames of References Practice Models used in Mental Health Group Therapy – Types and Goals Role of Motivation in Mental Health Stress and Pain Management

LEARNING SOURCE: Self Learning Materials

ADDITIONAL READINGS:

- A. Occupational Therapy and Mental Health, 4th Edition - Jennifer Creek, Lesley Lougher
- B. Occupational Therapy Evidence in Practice for Mental Health - Cathy Long, Jane Cronin-Davis illustrated Publisher Wiley, 2007

ASSESSMENT & MANAGEMENT-I-OCT16105P

UNIT	CONTENTS
1	Perform a thorough Occupational Therapy assessment using appropriate evaluative tools. Plan an individualized goal using goal attainment scales for Orthopaedic conditions covered in the first year. To determine the effectiveness of planning, implementation & termination of appropriate intervention strategies in treatment Apply Effective Occupational Therapy treatment techniques, compare & contrast the efficacy of different treatment approaches. Communicate the status to the patient with other rehabilitation team members & patient's attendants.

LEARNING SOURCE: Self Learning Materials

ADDITIONAL READINGS:

- A. Reading 1
- B. Reading 2.....

O.T. CLINICS-I-OCT16106P

UNIT	CONTENTS
1	Orientation and general principles of Orthopedic Surgery Various Orthopedic Surgical procedures OT Management Pre and Post surgery of common Orthopedic Surgical conditions.

LEARNING SOURCE: Self Learning Materials

ADDITIONAL READINGS:

- A. Reading 1
- B. Reading 2.....

YEAR II

PEDAGOGY IN OCCUPATIONAL THERAPY EDUCATION-
OCT16201

UNIT	CONTENTS
1	Education: Introduction to Education Educational Philosophy – Idealism Naturalism, Pragmatism Aims of Education Functions of Education Formal, Informal and non-formal education Agencies of Education Current issues and Trends in Higher Education Issue of quality in higher education Autonomy and Accountability Privatization of Education
2	Concept of Teaching and Learning: Meaning and scope of educational psychology Meaning and relationship between teaching and learning Learning Theories Dynamics of behavior Individual differences
3	Curriculum: Meaning and concept Basis of curriculum formulation Framing objectives for curriculum Process of curriculum development and factors involved Evaluation of curriculum
4	Method and techniques of teaching: Lecture Demonstration Discussion Seminar Assignment Project Case Study
5	Planning for teaching: Bloom's taxonomy of instructional objectives Writing instructional objectives in behavioral terms Unit Planning Lesson Planning
6	Teaching Aids: Types of teaching aids Principles of selection, preparation and use of audio-visual aides
7	Measurement and Evaluations: Nature of educational measurement: meaning, process, types of tests Construction of an achievement test and its analysis Standardized test Introduction of some standardized tools, important test of intelligence, aptitude and personality Continuous and comprehensive evaluation
8	Guidance and counseling:

	Meaning & concepts of guidance and counseling Principles of guidance and counseling
9	Awareness Programme: Awareness and guidance to the common people about health and disease.

LEARNING SOURCE: Self Learning Materials

ADDITIONAL READINGS:

- A. Best Practices In Occupational Therapy Education By Patricia A. Hickerson Crist, Marjorie E. Scaffa
- B. International Handbook of Occupational Therapy Interventions edited by Ingrid Söderback

ADMINISTRATION, MANAGEMENT & ETHICAL ISSUES-
OCT16202

UNIT	CONTENTS
1	<p>Service Delivery and Management: Health Care Delivery System (including health prevention and promotion) Values and Motivation Core Values and attitudes of Occupational Therapy practice Standard of Practice Personal Values Changing the focus from valuation to obligation Dealing with Moral Issues Professional Guidance Conflicting values and Motivation Organizational, Personal & Professional Guidance (Organizational Self-View, Fundamental Documents) Organizing and Engaging people in work setting Achieving Organizational vision through people Concept of Productivity Leadership Organizational Leadership: Roles, Responsibilities & Competencies Theories about managing people, Managing styles Work teams</p>
2	<p>Organizational Performance Improvement (Quality and Service Improvement): Dealing with Differences (Values, Diversity concerns) Organizational Structure and control for business success characteristics of business Structures (Legal structure, Tax status, Operating Structure) Organizational structure (Organizational chart, hierarchy in Organizations, Organizational Patters), Product Strategy Decisions Policies and Procedures Re-organization Human Resource Development in relation to operating structure</p>
3	Financial Management (Fiscal Management and Cost Accounting)
4	<p>Marketing: Market Orientation, Segmentation, Consumer Research Basics of Marketing Marketing Plan Marketing Strategies in Health Care Promotional Considerations (Communication methods & Media the marketing campaign)</p>

5	Facility Planning: Designing values based facility Strategic Planning Design Decisions Planning steps and process Planning for Growth
6	Information Management: Management and flow of information in an organization Use of Data Documentation (Personal, Technological, Financial considerations and Realistic expectations)
7	Outcome Management: Risk Management Recruitment Consultancy Entrepreneurship: Ownership and Private Practice Social & Industrial Legislation Management Junction & Strategy Alternate Practice Model Developing on Academic discipline
8	Legal and Ethical Issues: Legal / Legislative issues concerning: Occupational Therapy Profession Persons with Disability Ethical Issues (Principles of AIOTA & WFOT) Code of ethics Future Planning

LEARNING SOURCE: Self Learning Materials

ADDITIONAL READINGS:

- A. Legal Aspects of Health Care Administration - George Pozgar
- B. Introduction to Health Care Management - Sharon Buchbinder, Nancy Shanks

OCCUPATIONAL THERAPY IN MUSCULOSKELETAL DISORDER-
I- OCT16203

UNIT	CONTENTS
1	Context of Ortho O.T. Practice: Relationship with other services providers General Orthopaedic Health care Diagnostic imaging and other investigations Differential Diagnosis Theoretical basis underlying clinical decisions Principles and techniques of O.T Assessment History Examination and measurement OT Diagnosis Selection and Application of treatment Psychosocial Aspects Service Design and management in various practice settings (includes OT in acute care,

	critical care and long term management) Assistive technology – pertaining to Orthopaedic disorders
2	Biomechanics and Kinesiology

LEARNING SOURCE: Self Learning Materials

ADDITIONAL READINGS:

- A. Management Of Common Musculoskeletal Disorders : Physical Therapy Principles - Darlene Hertling, Randolph M. Kessler
- B. Occupational Musculoskeletal Disorders, 3e, Volume 131 - Nortin M. Hadler

**OCCUPATIONAL THERAPY IN MUSCULOSKELETAL DISORDER-
II - OCT16204**

UNIT	CONTENTS
1	Metabolic and endocrine disorders: Bone infections Congenital deformities Developmental conditions Diseases of joint Tumours of Musculoskeletal system Neuromuscular disorders Fibrous diseases Vascular disorders Skeletal injuries Tendon injuries Soft tissue condition Major traumatic condition Thermal injuries Sports injuries Cumulative trauma disorders Amputation and prosthetics

LEARNING SOURCE: Self Learning Materials

ADDITIONAL READINGS:

- A. International Handbook of Occupational Therapy Interventions edited by Ingrid Söderback
- B. Textbook of Disorders and Injuries of the Musculoskeletal System: By Robert Bruce Salter

ASSESSMENT & MANAGEMENT-II-OCT16205P

UNIT	CONTENTS
1	Perform a thorough Occupational Therapy assessment using appropriate evaluative tools. Plan an individualized goals using goal attainment scales for Orthopaedic Conditions

	<p>covered in the first year.</p> <p>To determine the effectiveness of planning, implementation & termination of appropriate intervention strategies in treatment.</p> <p>Apply Effective Occupational Therapy treatment techniques, compare & contrast the efficacy of different treatment approaches</p> <p>Communicate the status to the patient with other rehabilitation team members & patient's attendants.</p>
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LEARNING SOURCE: Self Learning Materials

ADDITIONAL READINGS:

- A. Reading 1
- B. Reading 2.....

O.T. CLINICS-II-OCT16206P

UNIT	CONTENTS
1	OT in Orthopaedic Surgical Conditions Orientation and general principles of Orthopaedic surgery Various Orthopaedic surgical procedures OT Management, pre and post surgery of common Orthopaedic surgical conditions

LEARNING SOURCE: Self Learning Materials

ADDITIONAL READINGS:

- A. Reading 1
- B. Reading 2.....

DISSERTATION – DSR16201

UNIT	CONTENTS
1	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. 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.

LEARNING SOURCE: Self Learning Materials

ADDITIONAL READINGS:

- A. Reading 1
- B. Reading 2.....