

COURSE NAME: MASTER OF OCCUPATIONAL THERAPY

YEAR I

<b>Course Code</b>	<b>Course Title</b>
OCT16101	Research Methodology and Biostatistics
OCT16102	Application of Occupational Therapy in Rehabilitation
OCT16103	Role of Occupational Therapy in Physical Dysfunctions
OCT16104	Role of Occupational Therapy in Mental Health
OCT16105P	Assessment & Management-I
OCT16106P	O.T Clinics-I

YEAR II

<b>Course Code</b>	<b>Course Title</b>
OCT16201	Pedagogy in Occupational Therapy Education
OCT16202	Administration, Management & Ethical Issues
OCT16203	Occupational Therapy in Musculoskeletal Disorders - I
OCT16204	Occupational Therapy in Musculoskeletal Disorders - II
OCT16205P	Assessment & Management-II
OCT16206P	O.T Clinics-II
DSR16201	Dissertation

YEAR I

**RESEARCH METHODOLOGY AND BIOSTATISTICS - OCT16101**

UNIT	CONTENTS
1	<b>Research in Occupational Therapy:</b> Introduction to Research Methodology Research – Definition, Concept, Purpose, Approaches, Role of Computers in Research.
2	<b>Research Fundamental:</b> Measurement Measurement Framework Scale of Measurement Pilot Study Types of Variables Reliability & Validity Drawing Tables, Graphs, Master Chart etc.
3	<b>Writing a Research Proposal, Critiquing a Research Article :</b> 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	<b>Research Design:</b> 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	<b>Biostatistics:</b> Introduction, Definition, Types, Application in Occupational Therapy
7	<b>Data:</b> Definition, Types, Presentation, Collection methods.
8	<b>Measures of Central Value:</b> Arithmetic Mean, Median, Mode, relationship between them Partitioned values- Quartiles, Deciles, Percentiles and Graphical determination.
9	Normal Distribution Curve
10	<b>Co-relation Analysis:</b> Bivariate distribution:

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

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

UNIT	CONTENTS
1	<b>Application Of Occupational Therapy Theory:</b> 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	<b>Assistive Technology:</b> 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	<b>Environmental Adaptations:</b> 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

**ROLE OF OCCUPATIONAL THERAPY IN PHYSICAL  
DYSFUNCTIONS- OCT16103**

UNIT	CONTENTS
1	<b>Common Neurological, Neurosurgical Conditions (including Structural disorders of Nervous System, Infectious Disorders, Degenerative Disorders):</b> 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	<b>Common Orthopaedic Conditions (including Fractures and Dislocations):</b> Arthritic Conditions Sports Health (Impact of regular training on Human Biological System Assessment of Physical and Functional Capacities, Environmental Consideration, Process and

	<p>Implementation of training, Special considerations in Training, Prevention &amp; Management of Sports Injuries, Safety &amp; Hygiene in Sports Psychology, Organization and Administration considerations, Scope of OT in Sports, Current and Future trends)</p> <p>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)</p>
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**ROLE OF OCCUPATIONAL THERAPY IN MENTAL HEALTH-**  
**OCT16104**

UNIT	CONTENTS
1	<p><b>Role of Occupational Therapy in Mental Health:</b>  Disorders diagnosed in infancy, childhood or adolescence  Delirium, Dementia, Amnestic 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</p>

## **ASSESSMENT & MANAGEMENT-I-OCT16105P**

<b>UNIT</b>	<b>CONTENTS</b>
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.

## **O.T. CLINICS-I-OCT16106P**

<b>_UNIT</b>	<b>CONTENTS</b>
1	Orientation and general principles of Orthopedic Surgery Various Orthopedic Surgical procedures OT Management Pre and Post surgery of common Orthopedic Surgical conditions.

YEAR II

**PEDAGOGY IN OCCUPATIONAL THERAPY EDUCATION-**  
**OCT16201**

UNIT	CONTENTS
1	<b>Education:</b> 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	<b>Concept of Teaching and Learning:</b> Meaning and scope of educational psychology Meaning and relationship between teaching and learning Learning Theories Dynamics of behavior Individual differences
3	<b>Curriculum:</b> Meaning and concept Basis of curriculum formulation Framing objectives for curriculum Process of curriculum development and factors involved Evaluation of curriculum
4	<b>Method and techniques of teaching:</b> Lecture Demonstration Discussion Seminar Assignment Project Case Study
5	<b>Planning for teaching:</b> Bloom's taxonomy of instructional objectives Writing instructional objectives in behavioral terms Unit Planning Lesson Planning
6	<b>Teaching Aids:</b> Types of teaching aids Principles of selection, preparation and use of audio-visual aides
7	<b>Measurement and Evaluations:</b> 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	<b>Guidance and counseling:</b>

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

**ADMINISTRATION, MANAGEMENT & ETHICAL ISSUES-**  
**OCT16202**

UNIT	CONTENTS
1	<b>Service Delivery and Management:</b> 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
2	<b>Organizational Performance Improvement (Quality and Service Improvement):</b> 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
3	Financial Management (Fiscal Management and Cost Accounting)
4	<b>Marketing:</b> Market Orientation, Segmentation, Consumer Research Basics of Marketing Marketing Plan Marketing Strategies in Health Care Promotional Considerations (Communication methods & Media the marketing campaign)



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

**OCCUPATIONAL THERAPY IN MUSCULOSKELETAL DISORDER-**  
**I- OCT16203**

UNIT	CONTENTS
1	<b>Context of Ortho O.T. Practice:</b> 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

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

UNIT	CONTENTS
1	<b>Metabolic and endocrine disorders:</b> 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

**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 &amp; termination of appropriate intervention strategies in treatment.</p> <p>Apply Effective Occupational Therapy treatment techniques, compare &amp; contrast the efficacy of different treatment approaches</p> <p>Communicate the status to the patient with other rehabilitation team members &amp; patient's attendants.</p>
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### **O.T. CLINICS-II-OCT16206P**

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

### **DISSERTATION – DSR16201**

UNIT	CONTENTS
1	<p>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.</p>