

SARDAR PATEL UNIVERSITY
Programme & Subject: Master in Occupational Therapy (MPT)
Second Year
Syllabus with Effect from: 2014-2015

Paper Code: 201	Total Credit:
Title Of Paper: Occupational Therapy Process & Practice - II	

Unit	Description in Detail	Weightage (%)
	Neurosciences Conditions Related To: Cognitive Rehabilitation Neurodegenerative disorders Neuropathological Conditions Investigative procedures	
	Developmental Disabilities Related To: Neonatology Genetics conditions Pediatrics neurological conditions Evaluation and assessment tools	
	Mental Health: Preventive and current practices in psychological conditions Therapeutic media and methods Intervention in common psychiatric conditions.	



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Programme & Subject: Master in Occupational Therapy (MPT)
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Paper Code: 202	Total Credit:
Title Of Paper: Advanced Occupational Therapy Process & Practice - II	

Unit	Description in Detail	Weightage (%)
(A) Advanced Occupational Therapy Part-II-A (Medical)		
	Occupational Therapy in arthritis and allied conditions	
	Occupational Therapy in haemetological condition	
	Occupational Therapy in common vascular diseases	
	Occupational Therapy in deficiency diseases	
	Occupational Therapy in respiratory disorders	
	Occupational Therapy management of common Cardiac conditions.	
	Occupational Therapy in common psychiatry conditions.	
	Management of pain in neuro and musculo skeletal disorders.	
(B) Advanced Occupational Therapy Part-II-B (Surgical)		
	Occupational Therapy for general surgery	
	Occupational Therapy for burns and plastic surgery	
	Pre & postoperative Occupational Therapy in hand injuries and Splinting.	
	Occupational Therapy in postoperative patients in cardiopulmonary disorders	
	Occupational Therapy for amputation.	
	Pre & postoperative Occupational Therapy in tendon injuries. Splinting and biofeedback procedures	
	Occupational Therapy for head injuries, in intensive care and neuro surgical procedures	
	Occupational Therapy for arthroplasty, implants and soft tissue repairs. Occupational Therapy in common cases for oncology surgery	
	Occupational Therapy in post operative management of metabolic, hormonal, neoplastic and infective conditions of bones and joints.	
	Poliomyelitis and cerebral palsy. Reconstructive surgeries including limb lengthening procedures and orthotic management	
	Injuries and pathological conditions of vertebral column and spinal cord, spinal orthosis and O.T. Management.	



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Paper Code: 203	Total Credit:
Title Of Paper: Occupational Therapy in Neurosciences (M.O.Th (Neuro))	

Unit	Description in Detail	Weightage (%)
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 development conditions.	
6	Clinical applications of neurosciences: To relate principles of neurophysiology, neuropathology, and neuropsychology to the assessment and therapeutic management of various neurological disorders.	
7	Geriatric: structural and behavioral implications of older adulthood.	
8	Biological theories of aging.	
9	Functional and preventive approaches in central nervous system degeneration	
10	Prognostic and diagnostic occupational therapy assessment tools and other investigative procedures.	
11	Psychological aspect of adaptation and adjustment during management of disability.	
12	Disability evaluation and certificate in neurological conditions.	
13	Community based rehabilitation for neurological dysfunction	
14	Aids and appliances (adaptive and assistive devices) in neurological disorders. Prescriptions, Testing and training.	



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Paper Code: 203	Total Credit:
Title Of Paper: Occupational Therapy in Musculoskeletal Conditions. M.O.Th. (MSK)	

Unit	Description in Detail	Weightage (%)
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 limb.	
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 , congenital disorders and sports injuries.	
4	Designing, fabrication and checkout of prostheses, assistive and adaptive devices for spine, upper and lower limbs. In-depth knowledge of fitting and training with upper and lower limbs prostheses and orthoses.	
5	Application of bio-mechanics and bioengineering.	
6	Vocational fitness program and job analysis based on ergonomics principles	
7	Disability evaluation, functional analysis indices and workmen's Compensation act as per the prevalent legislation.	
8	Community based rehabilitation for musculo-skeletal dysfunction	



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Paper Code: 203	Total Credit:
Title Of Paper: Occupational Therapy in Cardio Respiratory Condition M.O.Th (CVR)	

Unit	Description in Detail	Weightage (%)
1	Overview of the cardiopulmonary systems – Applications of work physiology principles of cardiac rehabilitation.	
2	Current perspective in cardiac rehabilitation. – An integrated approach, clinical implications and improvement in quality of life in the frame of cardiac rehabilitation.	
3	Exercise prescription in cardiac rehabilitation in relation to 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.	
4	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.	
5	Genetic & drug related bleeding tendencies- Hemophilia etc.	
6	Preventive cardiac rehabilitation - Risk factors and life style modification, stress management.	
7	Management of patients with anxiety & depression in cardiovascular & pulmonary illness.	
8	Program implementation & functions—Program models.	
9	Newer technology in cardio respiratory rehabilitation.	
10	Energy conservation techniques, work, ADL & recreation.	
11	Work stimulation & work hardening.	
12	Disability evaluation & work fitness in cardio respiratory conditions.	



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Paper Code: 203	Total Credit:
Title Of Paper: Occupational Therapy in Rehabilitation M.O.Th (REHAB)	

Unit	Description in Detail	Weightage (%)
1	Introduction to rehabilitation.	
2	Rehabilitation Philosophy, sociolegal aspect of rehabilitation	
3	Assessment of Common and applied Orthopedic, Neurological, Pediatric, Psychiatric and Other Conditions.	
4	Orthoses and Prostheses in Rehabilitation.	
5	Adaptive and assistive devices (aids & Appliances) for Rehabilitation of Various condition.	
6	Occupational therapy Management in Common and applied Orthopedic, Neurological, Pediatric, Psychiatric and Other Conditions.	
7	Occupational therapy Rehabilitation of Common Infectious diseases.	
8	Occupational therapy Rehabilitation in Geriatric condition.	
9	Occupational therapy Rehabilitation in Cardio-Respiratory condition.	
10	Occupational therapy in Hand Rehabilitation.	
11	Occupational therapy Rehabilitation in Nerve injuries.	
12	Occupational therapy Rehabilitation in Common Medical and Surgical Condition.	
13	Environmental Adaptations	
14	Community based Rehabilitation.	
15	Disability evaluation	
16	Psychological aspects of adaption and adjustment during Rehabilitation of disabled.	
17	Energy conservation techniques, vocational fitness program, job analysis based on the ergonomic principles.	



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Paper Code: 203	Total Credit:
Title Of Paper: Occupational Therapy in Industrial Health M.O.Th (IH)	

Unit	Description in Detail	Weightage (%)
1	Applied anatomy and neurophysiologic aspect in Industrial Health	
2	Evaluation of common conditions in Industrial system.	
3	job analysis	
4	Ergonomics and safety	
5	Productivity and its influencing Factors.	
6	Fall prevention in Industry	
7	Tools evaluation and design.	
8	work and work space Design	
9	Occupational Therapy management in various conditions of Industries.	
10	Inspection and maintainence	
11	sitting and posture	
12	Industrial case studies	



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Paper Code: 203	Total Credit:
Title Of Paper: Occupational Therapy in Developmental Disabilities M.O.Th (DEV)	

Unit	Description in Detail	Weightage (%)
1	Human development: Neuro-anatomical, neurophysiological principles of development, knowledge of normal and abnormal human growth and development.	
2	Advances and research in: Neurodevelopmental approaches, sensory integrative approaches, psychological, acquisitioned and occupational performance as applied to developmental disabilities.	
3	Occupational therapy assessment in pediatric population: Application and interpretation using relevant tools, techniques and scales.	
4	Therapeutic intervention: Methods, media, modalities used in the treatment of developmental disabilities.	
5	Management of clinical conditions: Congenital neurological defects, developmental and acquired pediatric abnormalities.	
6	Neonatal care and early intervention: Assessment, preventive care and early intervention, management in NICU, community and school based practice.	
7	Community based care for children.	
8	Adaptations for independence, Orthosis and prosthesis in children	



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Paper Code: 203	Total Credit:
Title Of Paper: Occupational Therapy in Mental Health M.O.Th (MEH)	

Unit	Description in Detail	Weightage (%)
1	Applied psychology and biological basis of psychiatry.	
2	Normal development and its deviations.	
3	Current philosophical, theoretical basis and frames of reference in OT 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 & symptoms, and classification of mental illness	
5	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.	
6	Alternate Practice Setting: 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, personal problems and constraints in rehabilitation an long term care.	
8	Disability evaluation and job certification in psychiatric conditions.	
9	patient with MI act	
10	Activities for MI patients	
11	safety factors during work and training	
12	Psychiatric care in Ortho, neuro, surgical, pediatric condition.	
13	Marital counseling	
14	Women health	



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Paper Code: 203	Total Credit:
Title Of Paper: Occupational Therapy in Hand Conditions M.O.Th (Hand Therapy)	

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



Basic Text & Reference Books:-

- Astrand RA. Rodahe K. : Text book of work physiology
- Fths P.M. & Posner M.I. : Human performance
- Mural K.F. — Ergonomics: man in his working environment
- Mundel M.E. Motion & time study: principles & practices
- Karen Jacobs: Ergonomics for therapists
- Bhattacharya: Occupational Ergonomics
- Larry Shaver: Essentials of exercises physiology
- Occupational Therapy: Practice skills for Physical Dysfunction by L.V. Pedretti
- Occupational Therapy for Physical Dysfunction by C.A. Trombly.
- Joint Structure and Function — C.C. Norring, P.K. Levangie,
- Physiology of joint & joint motion by Kapanji L A.
- Therapeutic exercise by J. Basmajian
- Biomechanics of human motion by William Listner
- Therapeutic exercise — Foundations and Techniques — C. Kisner. L. A. & Colby
- Occupational Therapy & physical dysfunction - A. Turner
- Basic Biomechanics of Musculoskeletal system- Nordin and Frankel
- Research Methodology – Methods and techniques- C.R. Kothari
- Research Methods for Therapist - Hicks Carolyn
- Methods in Biostatistics- Mahajan
- Text Book of social and preventive medicine by Park
- Disabled village children by David Werner.
- Willard and Spackman's Occupational Therapy by H. Hopkins & H. Smiths.
- WHO's ICE 2001
- Guidelines for evaluation of various disabilities and procedure for certification- By Ministry of social justice and empowerment notification 2001
- Objective Evaluation of Impairment and Ability in Locomotor Handicapped — Qr. Sabapathyvinayagam Ramar— 1993.
- An Introduction to Occupational Therapy by A. Turner
- Closed functional treatment of fractures by A Sarmiento, L. Latta
- Hand splinting Principles & methods by E.E. Fess, C. A. Phillips.
- Outline of orthopaedics by Adams
- Orthopaedics by Dr. Maheswari
- Orthopaedics by Dr. L.N. Vora
- Ahuja N. — A short textbook of psychiatry
- Shah L.P. : handbook of psychiatry
- Gandhi & Gandhi — short text book of psychiatry.
- API — Text book of Medicine 5 edition
- Golwalla's medicine for students
- Davidson Principles and Practice of medicine
- Essentials of Pediatrics — O.P. Ghai
- D.K. series in Pediatrics
- Handbook of practical medicine — P.J. Mehta
- Therapeutic Exercise Basmajian
- Rehab Medicine — Goodgold
- Rehabilitation of Hand — Wynn & Parry
- Hand — Hunter
- Hand splitting — Fees, Gettle & Strickland.
- Pulmonary rehabilitation, guidelines to success — Hodgkin T.E,
- Physical rehabilitation, assessment, treatment — O'Sullivan.



- Neurology And Neurosurgery Illustrated(IE):5/E,2010- Lindsay
- Physiotherapy in neurological condition- Glady Samuel
- Textbook of rehabilitation- Sunder
- Text book of Rehabilitation- braddoms
- Orthopedic physical assessment- David j magee
- Treatment and Rehabilitation of Fractures- Hoppenfeld
- community based rehabilitation-prithviraj
- Neurological Rehabilitation- DA Umphred
- DeJong's the Neurological Examination- Campbell
- Adult Hemiplegia- Bobath
- Basic in OT & therapeutic Activity- Punithan

