

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

Paper Code: 101	Total Credit:
Title Of Paper: Occupational Therapy process & Practice-I	

Unit	Description in Detail	Weightage (%)
Work physiology & Ergonomics		
1	Factors affecting physical performance	
2	Environmental physiology — Understand the types of environment. Briefly outline the effects environmental factors such as temperature, humidity, noise, vibration, visual environmental pollution on human body	
3	Fatigue assessment and scientific organization of work-rest regimes to control fatigue.	
4	Explain the nature of aerobic & anaerobic processes. Describe physiology of anaerobic exercises.	
5	Body consumption, nutrition and caloric balance. Obesity and weight control	
6	Work	
7	Job analysis	
8	Sitting and posture	
9	The safety factors -accidents & their prevention.	
10	Application of ergonomics in O.T	
11	Scope of ergonomics in modern industrial society	
12	Design of work space and work equipment	
Biomechanics & Bioengineering		
1	Biomechanics of bones and soft tissues	
2	Internal and external forces during posture and activities	
3	Biomechanics of hand function and gait.	
4	Anthropometrics measurements.	
5	Analysis of functional hazards related to environment / Industry and clinical reasoning for the appropriate Ergonomic advice	
6	Applied mechanics in the application of Prosthesis, Orthosis and Mobility aids –materials, designs and biomechanical compatibility.	
Research Methodology & Biostatistics		
1	Meaning of Research, Objectives, Motivation and Types of Research	
2	Research process and criteria of good research	
3	Problems encountered by researches in India & defining the research problem	
4	Research design & sampling design	
5	Measurement & scaling techniques. Method of data collection	
6	Processing and analysis of data. Sampling fundamentals.	
7	Analysis of variance & c/o-variance	
8	Role of computer in research and ethical concepts.	
Education Technology		
1	Educational aims, Agencies of education, Major philosophies of education, Modern & contemporary philosophies of education, Role of educational philosophy and Current issues and trends in education	
2	Theories of teaching, Relationship between teaching and learning, Psychology	



	of education and Dynamics of behavior, motivational process, of learning perception, individual differences, intelligence and personality	
4	Curriculum committee, curriculum development for Physiotherapy, Types of curriculum, Formation of philosophy, objectives, course objectives, Placing, Course placement, time allotment, Selection and organization of learning experience, Plans of courses. Rotational plan – individual rotational plan, correlation of theory and practice, Hospital and community areas for clinical instruction, Clinical assignments and Current trends is curriculum planning.	
5	Strategies of teaching, Planning of teaching, Organization, Writing lesson plans, A-V aids, Teaching methods – Socialized teaching methods	
6	Nature of measurement of education, meaning, process, personal, standardized, non standardized tests, Steps in constructing a test, measurement of cognitive domain, assessment techniques of affective, psychomotor domains, administering scanning and reporting, Standardized tools, important tests of intelligence, aptitude, instrument, personality, achievement and sestets scale, Program evaluation and Cumulative evaluation.	
7	Philosophy, principles and concepts of guidance and counseling services of students and faculty.	
8	Faculty development and development of personnel for OT services.	
Ethics, managements & Planning		
1	Constitution & functions, Code of Ethics of of A.I.O.T.A	
2	Communication skills, informed consent, Client interest & satisfaction	
3	Laws – Constitution of India & rights of a citizen, responsibilities of the therapist and status in health care – Persons with disability act – Workman’s compensation act – ESI –Councils for regulation of professional practice – self regulatory role of professional association – consumer protection act	
4	The role of international health agencies such as WHO.	
5	A wider knowledge of ethics relating to current social and medical policy in the provision of health care.	
6	Common ethical issues and ethical dilemmas	
7	Definition – Branches of management	
8	General principles of management- Theories of management	
9	Health care management	
10	Principles of an organizational chart.	
11	Organization of a department- planning, space, manpower, materials, basic requirements.	
12	Methods of maintaining records – Budget planning	
13	Leadership and team work.	
14	Personnel Management	
15	Quality Management	



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Paper Code: 102	Total Credit:
Title Of Paper: Advance Occupational Therapy - I	

Unit	Description in Detail	Weightage (%)
	Applied Anatomy and Applied Physiology, Pathophysiology of the below mentioned conditions. Basic outline of the investigative procedures as relevant to Occupational Therapy practice. Basic knowledge of the pharmacological agents used in the treatment of the above mentioned conditions that influence functional performance.	
	<p>Treatment Context: Model of evidence based practice for Occupational Therapy Prevention of injury and physical dysfunction. Infections control and safety issues in health care settings. Clinical Interventions to promote Occupational function in the following:-</p> <p>➤ General Conditions:- Geriatrics Infections in adults Wellness Program Hospice Care Community based rehabilitation Psychosocial aspects of women and child health.</p> <p>➤ Musculoskeletal disorders related to following: Rheumatology Advanced Orthopedic Rehabilitation Hand Rehabilitation Sports Injuries Application of Ergonomics Principles Trauma Care Protheses and Orthoses Burns</p> <p>➤ Cardio-respiratory conditions related to the following: Cardio and Pulmonary Rehab. Industrial Health Strength training and work fitness in athletics Energy conservation work hardening</p>	
	Adjunctive therapy- Yogasanans & Pranayama, Acupuncture, Magneto therapy, Acupressure, Naturopathy and others	
	Driver rehabilitation, Occupational Therapy in Hand writing problems and disability, Occupational Therapy in insurance	

