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University of Social Welfare and Rehabilitation Sciences

Occupational Therapy Department

Course Description

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Course Description

Table 1: General Courses

| <i>code</i> | <i>Course Title</i> | <i>unit</i> | Duration | | | Prerequisite |
|-------------|------------------------------------|-------------|-----------------|------------------|--------------|----------------------|
| | | | <i>Theory</i> | <i>practical</i> | <i>Total</i> | |
| 01 | Islamic Course -1 | 2 | 34 | | 34 | - |
| 02 | Islamic Course -2 | 2 | 34 | | 34 | Islamic Course -1 |
| 03 | Islamic Education & Moral Training | 2 | 34 | | 34 | - |
| 04 | Islamic Revolution and the Roots | 2 | 34 | | 34 | - |
| 05 | Islamic History | 2 | - | | 34 | - |
| 06 | Islamic Literature/text | 2 | 34 | | 34 | - |
| 07 | Persian Literature | 3 | 51 | | 51 | - |
| 08 | General English Literature | 3 | 34 | | 34 | - |
| 09 | Physical Education-1 | 1 | | 34 | 34 | - |
| 10 | Physical Education-2 | 1 | | 34 | 34 | Physical Education-1 |
| | Total | 20 | 289 | 102 | 391 | |

Table 2: Basic Courses

| Course code | Course Title | Credit | Duration (Hours) | | | Prerequisite |
|-------------|--|--------|------------------|-----------|-------|------------------------|
| | | | Theory | Practical | Total | |
| 11 | 11-1. General Physiology | 3 | 54 | - | 54 | - |
| | 11-2. Neurophysiology | 2 | 34 | | 34 | |
| 12 | 12-1. Anatomy-Osteology | 2 | 17 | 34 | 51 | |
| | 12-2. Anatomy-1 | 2 | 17 | 34 | 51 | 12-1 |
| | 12-3. Anatomy-2 | 2 | 17 | 34 | 51 | 12-1 |
| | 12-4. Anatomy-3 | 2 | 17 | 34 | 51 | 12-1 |
| | 12-5. Surface Anatomy | 1 | | 34 | 34 | |
| 13 | General Psychology | 2 | 34 | - | 34 | - |
| 14 | Neuroanatomy | 2 | 17 | 34 | 51 | General Physiology |
| 15 | General Psychiatry | 2 | 34 | - | 34 | - |
| 16 | Public health | 2 | 34 | - | 34 | |
| 17 | First aids | 2 | | 34 | 34 | |
| | Sociological Occupational Therapy | 2 | 34 | | 34 | |
| 19 | Childs psychiatry | 2 | 34 | - | 34 | - |
| 20 | Statistics and research method | 2 | 17 | 34 | 51 | |
| 21 | Physiopathology 21-1. Orthopedics | 3 | 54 | | 54 | Upper and Lower Limbs |
| | Physiopathology 21-2. Internal disease 1 | 2 | 34 | | 34 | |
| | Physiopathology 21-3. Neurology | 3 | 54 | | 54 | Neurophysiology |
| | Physiopathology 21-4. Internal disease 2 | 2 | 34 | | 34 | |
| 22 | Radiology | 2 | 17 | 34 | 51 | Orthopedics; Neurology |
| 23 | Child Psychology | 2 | 34 | - | 34 | - |
| | Total | 43 | 578 | 306 | 904 | |

Table 3: Specific Courses

| Course code | Course Title | Credit unit | Duration (Hours) | | | Prerequisite |
|-------------|--|-------------|------------------|-----------|-------|--------------------------------|
| | | | Theory | practical | Total | |
| 24 | Specific professional English | 2 | 34 | - | 34 | General English Literature |
| 25 | Occupational Therapy Management | 1 | 17 | - | 17 | - |
| 26 | Fundamentals of Occupational Therapy | 2 | 17 | 34 | 51 | - |
| 27 | Activities of daily living | 1 | - | 34 | 34 | Orthopedics; Neurology |
| 28 | Activities used in Occupational Therapy | 3 | - | 54 | 54 | - |
| 29 | Specialized Psychiatry | 2 | 34 | - 34 | - | - |
| 30 | Physical Medicine | 2 | 34 | - 34 | - | - |
| 31 | Kinesiology& Biomechanics 31-1. Kinesiology 1 | 2 | 34 | - | 34 | Anatomy: Head, Neck, Trunk |
| | Kinesiology& Biomechanics 31-2. Kinesiology 2 | 2 | 34 | - | 34 | Anatomy: Upper and Lower Limbs |
| | Kinesiology& Biomechanics 31-3. Kinesiology 3 | 2 | 34 | - | 34 | Anatomy: Upper and Lower Limbs |
| 32 | Children's psychomotor Development | 2 | 17 | 34 | 51 | - |
| 33 | Joint Range of Motion and Muscles Strength Testing | 2 | 17 | 34 | 51 | Anatomy: Upper and Lower Limbs |
| 34 | Activity analysis/Activity2 | 2 | 34 | - | 34 | - Activity analysis/Activity2 |

| | | | | | | |
|----|---|----|-----|-----|------|---|
| 35 | Artificial organs and aid tools (Assistive devices and Prosthetics) | 2 | 17 | 34 | 51 | Upper and Lower Limbs Anatomy; Orthopedics |
| 36 | ergonomic and work disorders | 1 | 17 | - | 17 | |
| 37 | Vocational rehabilitation | 2 | 17 | 34 | 51 | |
| 38 | 38-1. Occupational Therapy for Physical Dysfunction-1 | 2 | 17 | 34 | 51 | - |
| | 38-2. Occupational Therapy for Physical Dysfunction-2 | 2 | 34 | | 34 | - |
| | 38-3. Occupational Therapy for Physical Dysfunction-3 | 2 | 34 | | 34 | - |
| 39 | 39-1. Occupational Therapy in Psychiatry & Mental diseases-1 | 2 | 34 | - | 34 | |
| | 39-2. Occupational Therapy in Psychiatry & Mental diseases-2 | 2 | 34 | - | 34 | |
| 40 | Occupational Therapy for Children | 2 | 34 | - | 34 | |
| 41 | Occupational Therapy for the Blind | 1 | 17 | | 17 | |
| 42 | Splint making | 2 | 17 | 34 | 51 | |
| 43 | Play Therapy | 1 | 8.5 | 17 | 25.5 | |
| 44 | Movement therapy & Therapeutic techniques | 3 | 34 | 34 | 68 | Neurophysiology; Child Development |
| 45 | Project | 2 | | 68 | 69 | |
| | Total | 51 | 612 | 510 | 1105 | |

Table 4- Clinical Training

| <i>Course e</i> | Course Title | <i>Credit it</i> | Duration (Hours) | | | Prerequisite |
|-----------------|---|------------------|--------------------------|-----------------------------|--------------|--------------|
| | | | <i>Theo</i> <i>ry</i> | <i>pract</i> <i>ical</i> | <i>Total</i> | |
| 46 | Clinical observational 1 | 1 - | | 68 | 68 | |
| 47 | Clinical observational 2 | 1 - | | 68 | 68 | |
| 48 | Clinical training in Psychiatry & Mental-1 | 3 | | 204 | 204 | |
| 49 | Clinical training in Physical diseases-1 | 3 | | 204 | 204 | |
| 50 | Clinical training in Psychiatry & Mental-2 | 3 | | 204 | 204 | |
| 51 | Clinical training in Physical diseases-2 | 3 | | 204 | 204 | |
| 52 | Clinical training in Physical diseases-3 | 3 | | 204 | 204 | |
| 53 | Clinical training in Physical diseases-4 | 3 | | 204 | 204 | |
| 54 | Clinical training in vocational rehabilitation | 1 | | 68 | 68 | - |
| | Total | 21 | | 1428 | 1428 | |

Course Title: General Physiology I
Course Code: 11-1
Course Type: Basic
Prerequisite Title(s): None

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 3 | 0 | 2 |
| Hour(s): | 51 | 0 | 51 |

Goal: Recognition of different systems function in human body (esp. motor and nervous system)

▮ SUBJECTS ▮

- 1- Structure and function of cells (Histology)
- 2- Physiology of Central and Peripheral Nervous System, Muscular tissue, Circulative System, Breathe System, Urinary System, Reproduction System, Blood and Intercellular liquid and lymph, Digestive System, Glands and Sensation

Course Title: Neurophysiology
Course Code: 11-2
Course Type: Basic
Prerequisite Title(s): Neurohysiology I

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 2 | 0 | 2 |
| Hour(s): | 34 | 0 | 34 |

Goal: Recognition of different systems functions in human body (esp. Motor and nervous system)

▮ SUBJECTS ▮

- 1- Structure and function of nervous system
- 2- Physiology of Central and Peripheral Nervous System, Muscular tissue, in details.

Course Title : Osteology
Course Code : 12-1
Course Type: Basic
Prerequisite Title(s): None

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 1 | 1 | 2 |
| Hour(s): | 17 | 34 | 51 |

Goal: Recognition of skeletal system

▣ SUBJECTS ▣

- 1- Introduction to osteology
- 2- Structure of bones
- 3- Osteology of head, neck, column vertebrae, upper and lower extremities
- 4- Musculo-skeletal attachments

Course Title: Anatomy (Head, Neck & Trunk)

Course Code: 12-2

Course Type: Basic

Prerequisite Title(s): None

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 1 | 1 | 2 |
| Hour(s): | 17 | 34 | 51 |

Goal: General information about human body anatomy

▮ SUBJECTS ▮

Introduction to the gross anatomy of different organs system in human body:

(Skeletal system, Muscular system, Integumentary system, Cardiovascular and Lymphatic system, Respiratory system, Gastrointestinal system, Genitourinary system, Endocrine system and Nervous system)

1- Osteology, Muscles, Nerve supply, Joints, Ligaments, Vessels and different organs of the head, neck and trunk and their functions.

2- Practical experiences in laboratory

Course Title : Anatomy II (Upper Extremities)
Course Code: 12-4
Course Type :Basic
Prerequisite Title(s): Osteology, General Anatomy

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 1 | 1 | 2 |
| Hour(s): | 17 | 34 | 51 |

Goal: Recognition of upper limb anatomy

▮ SUBJECTS ▮

- 1- Osteology, Muscles, Nerve supply, Joints, Ligaments and Vessels of upper extremities and their functions.
- 2- Practical experiences in laboratory.

Course Title : Anatomy II (Lower Extremities)
Course Code: 12-4
Course Type :Basic
Prerequisite Title(s): Osteology, General Anatomy

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 1 | 1 | 2 |
| Hour(s): | 17 | 34 | 51 |

Goal: Recognition of Lower limb anatomy

▮ SUBJECTS ▮

- 1- Osteology, Muscles, Nerve supply, Joints, Ligaments and Vessels of Lower extremities and their functions.
- 2- Practical experiences in laboratory.

Course Title:
Psychology (General)
Course Code: 13
Course Type: Basic - - ·
Prerequisite Title(s): None

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 2 | 0 | 2 |
| Hour(s): | 34 | 0 | 34 |

Goal: Recognition of psychology as a base for mental treatment

▮ SUBJECTS ▮

- 1- Definition of psychology
- 2- Different schools in psychology (Behavioral approach, Cognitive approach, psychoanalysis approach, etc.)
- 3- Clinical psychology
- 4- Perception and consciousness
- 5- Learning (Classical conditioning, Operant conditioning)
- 6- Role of reinforcement in behavior
- 7- Memory(Short-term and Long term)
- 8- Language
- 9- Motivation and Exciting
- 10- Intelligence
- 11- Personality

Course Title: Neuro-Anatomy
Course Code: 14
Course Type: Basic
Prerequisite Title(s): None

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 1 | 1 | 2 |
| Hour(s): | 17 | 34 | 51 |

Goal: Recognition of anatomy and physiology of Central and Peripheral Nervous System

▮ SUBJECTS ▮

- 1- Structure of nerve fiber
- 2- Anatomy of Cerebrum, Sensory and Motor Cortex, Corpus callosum, Thalamus, Hypothalamus, Midbrain, pons, Medulla, Cerebellum, Ventricles, Basal ganglia, Reticular formation, Extrapyramidal system and Spinal cord
- 3- Neuro-Anatomy of fetus
- 4- Spinal segments
- 5- Peripheral Nervous Plexus (Brachial, Cervical, Thoracic, Lumbar and Sacral)
- 6- Cranial Nerves
- 7- Sympathetic & Parasympathetic system
- 8- Function of each part of the Central and peripheral Nervous System
- 9- Practical training

Course Title : General Psychiatry
Course Code : 15
Course Type : Basic
Prerequisite Title(s): None

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 2 | 0 | 2 |
| Hour(s): | 34 | 0 | 34 |

Goal: Recognition of different kinds of mental disorders and their symptoms

▮ SUBJECTS ▮

- 1- Definition and history of psychiatry
- 2- Classification of Mental Disorders (Ego Dis., Psychosis, Neurosis, Personality dis., Psychosomatic dis., etc.)
- 3- Methods of assessment in psychiatry (Observation, Interview, Common ests, etc.)
- 4- Etiology of Mental Disorders
- 5- Treatment (including biochemical, physical, psychotherapy, etc.)

Course Title : Public Health
Course Code:- 16
Course Type :
Basic Prerequisite
Title(s): None

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 2 | 0 | 2 |
| Hour(s): | 34 | 0 | 34 |

Goal: Recognition of health and hygiene as a science

▮ SUBJECTS ▮

- 1- Definition of general hygiene and its role
- 2- Economic, cultural, social and Islamic approaches to hygiene
- 3- Classification of hygiene (individual, public, etc.)
- 4-Contagiousdiseases,Parasitism diseases and common diseases between human and animal
- 5- Disinfecting of eatable materials
- 6- Prevention of different diseases
- 7- World Health Organization laws

Course Title : First Aids
Course Code : 17
Course Type : Basic
Prerequisite Title(s): None

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 0 | 1 | 2 |
| Hour(s): | 0 | 34 | 34 |

Goal: Principles of medical emergencies

▮ SUBJECTS ▮

- 1- Special bag of first aids, different kinds of the sores, dressing of a wound, loud sheds, fractures, dislocations, shocks, fainting, heart attacks, burnings, heat troche, frost-bite, poisonings, etc.
- 2- Use of emergencies in each case

Course Title : Sociological basis of occupational therapy
Course Code:- 18
Course Type :
Basic Prerequisite
Title(s): None

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 2 | 0 | 2 |
| Hour(s): | 34 | 0 | 34 |

Goal: An introduction to general sociology, basic terminology, and its relation with occupational therapy and rehabilitation.

▮ SUBJECTS ▮

- 1- Definition of sociology,
- 2- Normal procedures in sociological researches
- 3- Sociology and humanities, medical sciences,
- 4- Individual and society
- 5- Different kind of society (Capitalism, socialism, developed, underdeveloped and non-developed societies.
- 6- Concepts such as: Social relationships, group, social values, social structure, socialization, culture, modernization, etc.

Course Title: Child Psychiatry
Course Code: 19
Course Type: Basic
Prerequisite.Title(s): Child Psychology

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 2 | 0 | 2 |
| Hour(s): | 34 | 0 | 34 |

Goal: Recognition of mental diseases in children esp. Mental Retardation

▮ SUBJECTS ▮

- 1- Definition, Classification, Etiology, Diagnosis, Treatment and Prevention in Mental Retardation (MR), PDD, Dyslexia, etc.
- 2- Different diseases that may lead to MR, PDD
- 3- Psychomotor development in MR patients, PDD
- 4- MR due to brain damage
- 5- Discrimination between different types of MR, PDD
- 6- Specific Developmental Disorders. (Arithmetic, Expressive writing, Dyslexia, etc.)
- 7- Development Coordination Disorders. (Disruptive Behavior Disorder, Conduct Disorder, Attention Deficit Hyper Activity Disorder "ADHD", Oppositional Defiant Disorder)
- 8- Childhood and Adolescence Anxiety Disorder
- 9- Sexual Identity Disorder
- 10- Rumination Disorder
- 11- Other disorders such as Mutism, Identity Disorder, etc.

Course Title : Research methodology
Course Code : 20
Course Type : Main
Prerequisite Title(s): None

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 1 | 1 | 2 |
| Hour(s): | 17 | 34 | 51 |

Goal: Introducing research methodology

▮ SUBJECTS ▮

- 1- introducing research and research terminology
- 2- topic selection, scientific definitions
- 3- Literature review, search methods, questions and hypothesis
- 4- Different kinds of research, experimental, descriptive, etc.
- 5- Different kinds of data gathering
- 6- A review on descriptive/ analytical statistics
- 7- Research methodology, definition of variables, sampling, internal and external validity in research,
- 8- scientific writing,
- 9- Thesis writing

Course Title : Physiopathology, Orthopedics
Course Code : 21-1
Course Type : Basic
Prerequisite Title(s): Anatomy I,II,III

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 3 | 0 | 3 |
| Hour(s): | 51 | 0 | 51 |

Goal: Recognition of bones and muscles diseases

▮ SUBJECTS ▮

- 1- Bones and Joints infections
- 2- Osteomyelitis
- 3- Neuro-Muscular Diseases (Diagnosis, Deformities, treatment)
- 4- Fractures, Dislocations, Amputations
- 5- Tumors and Abscess
- 6- Congenital deformities
- 7- Peripheral nerves surgery
- 8- Rehabilitation and treatment in each case

Course Title : Physiopathology, Internal Medicine I
Course Code : 21-2
Course Type: Basic
Prerequisite Title(s): None

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 2 | 0 | 2 |
| Hour(s): | 34 | 0 | 34 |

Goal: Recognition of internal medicine

▮ SUBJECTS ▮

- 1- Methods in examination of patients
- 2- Paraclinical examination
- 3- Ethnology of particular diseases (Lung diseases, Cardiovascular diseases, Circulative disorders, Digestive system disorders, Urinary system disorders, reproduction organs disorders and Glands disorders)

Course Title : Physiopathology, Neurology
Course Code : 21-3
Course Type: Basic
Prerequisite Title(s): Neuro-Anatomy and Neuro-Physiology

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 3 | 0 | 3 |
| Hour(s): | 51 | 0 | 51 |

Goal: Recognition of Nervous System Diseases and methods of treatment

▮ SUBJECTS ▮

- 1- Clinical examination of Neurological patients including Cranial nerves, Reflexes, Sensory and Motor System, Posture, Gait, etc.
- 2- Recognition of Paraclinical examination including Cerebro-spinal fluid, MRI, BEG, CT scan, Angiography and Myelography
- 3- Upper and Lower Motor Neuron Disorders
- 4- Cerebro-Vascular Accident (CVA)
- 5- Head injury
- 6- Pediatric Neurology including some diseases such as Hydrocephalus and progressive diseases
- 7- Degenerative diseases such as Dementia and Alzheimer
- 8-Extrapyramidal diseases such as Parkinson, Chorea Burrington
- 9- Cerebellum diseases
- 10- Neuropathies such as Polyneuritis and Guillain-Barre
- 11- Multiple Sclerosis
- 12- Brain and Spinal Tumors
- 13- Neuritis

14- Muscle

diseases such as Muscular Dystrophy

Course Title : Physiopathology, Internal Medicine II
Course Code : 21-4
Course Type : Basic
Prerequisite Title(s): None

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 2 | 0 | 2 |
| Hour(s): | 34 | 0 | 34 |

Goal: Recognition of Rheumatology

▮ SUBJECTS ▮

Ethnology, diagnosis, prognosis and treatment of following:

I-Septic Arthritis

II-Arthritis

III-Rheumatoid Arthritis

IV-Diseases of Collagen tissues

V-Enclosing Spondylitis

Course Title : Radiology
Course Code : 22
Course Type : Basic
Prerequisite Title(s): Osteology

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 1 | 1 | 2 |
| Hour(s): | 17 | 34 | 51 |

Goal: Use of radiology for diagnosis

▣ SUBJECTS ▣

- 1-Definition of ray
- 2- Different rays
- 3- X-Ray
- 4- Different positions for radiography
- 5- Radiological symptoms in disorders
- 6-MRI
- 7- C.T.Scan
- 8- Diagnosis of fractures

Course Title : Child Psychology
Course Code : 23
Course Type : Basic
Prerequisite Title(s): Psychology

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 2 | 0 | 2 |
| Hour(s): | 34 | 0 | 34 |

Goal: Recognition of Psycho-development in children

▣ SUBJECTS ▣

- 1- Analyzing process of child development from different psychological perspective (Rely on Piaget, Freud and Erickson approaches)
- 2- Explanation of some psychological process such as development of imitation, play , language and painting in children
- 3- Common psychological tests for children assessment such as Goodenough, Projective, Fresting, Preteus, Reven and Adaptive tests.

Course Title : Management of Occupational Therapy Department
Course Code : 25
Course Type : Main
Prerequisite Title(s): None

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 1 | 0 | 1 |
| Hour(s): | 17 | 0 | 17 |

Goal: Management of OT. Department

▮ SUBJECTS ▮

- 1- Importance of relationship in rehabilitation centers
- 2- General information about education and recruitment centers for handicaps
- 3- Essential appliances, equipments and tools for different kinds of Occupational Therapy Departments (Physical & mental departments)
- 4- Duties of an occupational therapist
- 5- Methods of file recording and reporting
- 6- Importance of file-keeping
- 7- Maintenance of appliances in OT. departments
- 8- Requisition for appliances
- 9- Methods for collection of information about the patients

Course Title : Fundamentals of Occupational Therapy
Course Code : 26
Course Type : Main
Prerequisite Title(s): None

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 1 | 1 | 2 |
| Hour(s): | 17 | 34 | 51 |

Goal: Introduction to Occupational Therapy

▣ SUBJECTS ▣

- 1- Recognition of disability, rehabilitation and its goal, Occupational Therapy history, courses in Occupational Therapy, assessment, treatment, Activities of Daily living (ADL), activities used in Occupational Therapy, etc.
- 2- Visiting from different departments of Occupational Therapy and rehabilitation centers.
- 3- Clinical observation

Course Title: Activities of daily living

Course Code : 27

Course Type : Basic

Prerequisite Title(s): None

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 0 | 1 | 1 |
| Hour(s): | 0 | 34 | 34 |

Goal: General information about human body anatomy

▮ SUBJECTS ▮

- 1- Classification of ADL
- 2- Classification of restricting agents in ADL
- 3- ADL assessment
- 4- Diagnosis, suggestion, designing and producing different kinds of aid tools for: patients with physical dysfunction like cerebral palsy , spinal cord injuries, hand injuries, neurological injuries, amputees, burns, etc.
- 5- Home visit for accommodation especial conditions
- 6- Project

Course Title: Activities used in Occupational Therapy

Course Code : 28

Course Type : Basic

Prerequisite Title(s): None

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 0 | 3 | 3 |
| Hour(s): | 0 | 102 | 102 |

Goal: Use of different activities for therapeutic purposes

▮ SUBJECTS ▮

1- Therapeutic exercises including :

I-Light purposeful activities such as: Maze game, Tug O' War, Magic squares, Brain tease (Solitaire), Finger ladder, Pyramids, Stick-printing, Shove board, Darts, Post box, Beads, FEPS

II-Light therapeutic exercises such as: Kneading, Rolling pastry, Dowel activities, Spot board, Suspended ball activities, Pronation, Supination dowel, Wire maze, Bandage roll, Lumbrical box game, Coin travel, Interosseal sheep

III-Active assisted exercises such as: Skate board, Chopping

IV-Moderate therapeutic exercises such as : Stacking bricks, Lumbrical sanding, Sponge ball squeeze, Nuts and bolts, Elastics,

V-Moderate active assisted exercises such as : Sanding

VI-Moderate purposeful activities such as: Guillotining, T-shaped solitaire, Ping pong puff, Clothes-peg sheep, Tweezer bead art

2-Vocational activities such as Carpentry, Cooking, etc.

3-Artistic activities such as Painting, Ceramic, etc.

4-Dramatic activities such as Psycho-Drama

5-Other kinds of activities such as : Remedial- games, Music-therapy, Group- Therapy, Social activities, Home visit

Course Title : Special Psychiatry
Course Code : 29
Course Type : Basic
Prerequisite Title(s): General Psychiatry-

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 2 | 0 | 2 |
| Hour(s): | 34 | 0 | 34 |

Goal: Recognition of different kinds of the Mental Disorders and their treatment

▮ SUBJECTS ▮

- 1- Classification of symptoms in Mental Disorders
- 2- Classification of Neurosis and Psychosis
- 3- Dementia
- 4- Epilepsy
- 5- Drug abuse and addiction
- 6- Alcoholism

Course Title : Physical Medicine
Course Code : 30
Course Type : Basic
Prerequisite Title(s): None

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 2 | 0 | 2 |
| Hour(s): | 34 | 0 | 34 |

Goal: Principles of rehabilitation in physical treatment

▮ SUBJECTS ▮

- 1- Principles of rehabilitation treatment
- 2- principles of rehabilitation in orthopedics, CNS disorders, Mental disorders, Cancer, Internal glands diseases, blinds, addicts, etc.

Course Title : Kinesiology I

Course Code : 31-1

Course Type : Main

Prerequisite Title(s): Anatomy of head, neck and trunk

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 1 | 1 | 2 |
| Hour(s): | 17 | 34 | 51 |

Goal: Principles of biomechanics in head, neck and column vertebrae

▣ SUBJECTS ▣

- 1- Principles of biomechanics
- 2- Structure of column vertebrae (Muscles, Bones, Joints, and Ligaments)
- 3- Function of column vertebrae in balance, posture and movement
- 4- Action of joints and muscles
- 5- Analysis of movement in column vertebrae
- 6- Practical experiences in laboratory

Course Title :
Kinesiology II Course
Code : 31-2
Course Type : Main
Prerequisite Title(s): Anatomy of Upper Extremities

| | Theo. | Prac. | |
|------------|-------|-------|----|
| | TOTAL | | |
| Credit(s): | 1 | 1 | 2 |
| Hour(s): | 17 | 34 | 51 |

Goal: Principles of biomechanics in upper extremities

▣ SUBJECTS ▣

- 1- Principles of biomechanics in upper extremities
- 2- Structure of upper extremities (Muscles, Bones, Joints, and Ligaments)
- 3-Range of motion in different joints of upper limbs
- 4- Role of upper extremities in human body
- 5- Action of joints and muscles
- 6- Analysis of movement in shoulder, elbow, forearm, wrist and fingers
- 7- Practical experiences in laboratory

Course Title: Kinesiology III
Course Code: 31-3
Course Type: Main
Prerequisite Title(s): Anatomy of lower extremities

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 1 | 1 | 2 |
| Hour(s): | 17 | 34 | 51 |

Goal: Principles of biomechanics in lower extremities

▮ SUBJECTS ▮

- 1- Principles of biomechanics
- 2- Structure of lower extremities (Muscles,Bones, Joints, and Ligaments)
- 3- Function of lower extremities in balance, posture and movement
- 4- Action of joints and muscles
- 5- Analysis of movement in pelvic, hip, knee, foot and fingers
- 6- Analysis of normal gait
- 7- Reasons for abnormal gait
- 8- Practical experiences in laboratory

Course Title : Psycho-Motor Development

Course Code : 32

Course Type :-

Main ..

Prerequisite

Title(s): None

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 1 | 1 | 2 |
| Hour(s): | 17 | 34 | 51 |

Goal: Recognition of psycho-motor development in children for therapeutic purposes

▣ SUBJECTS ▣

- 1- Examination of different reflexes
- 2- Psycho-motor development in children during the first week of the birth, second week, third week, first month, second month, third month, fourth month, fifth month, first year, 18th month, second year, third year, 4th year, 5th year and 6th year
- 3- Sensory integration development

Course Title : Measurement and Evaluation
Course Code : 33
Course Type : Main
Prerequisite Title(s): Anatomy I,II,III

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 1 | 1 | 3 |
| Hour(s): | 17 | 34 | 33 |

Goal: Assessment and evaluation of muscles strength, ROM, muscles length, gait and posture

▮ SUBJECTS ▮

- 1- Methods of evaluation of ROM
- 2- Principles of muscle testing
- 3- Methods of muscles strength testing
- 4- Methods of muscle length testing
- 5- Gait analysis
- 6- Abnormal gait
- 7- Cart recording
- 8- Normal and abnormal posture

Course Title : Activity analysis
Course Code : 34
Course Type : Main
Prerequisite Title(s):

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 2 | 0 | 2 |
| Hour(s): | 34 | 0 | 34 |

Goal: introducing different kinds of activities used in Occupational therapy and their analysis from physical and mental points.

▣ SUBJECTS ▣

This course offers definition and terminology of occupation, performance components, skills and activities, value and property of activities in OT, using activity in treatment and management, activity analysis in mental and physical problems, and adaptation of activities for treatment.

Course Title : Orthotics and Prosthesis
Course Code : 35
Course Type : Main
Prerequisite Title(s): None

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 1 | 1 | 2 |
| Hour(s): | 17 | 34 | 51 |

Goal: Recognition of different kinds of orthotics & prosthesis for therapeutic purposes

▮ SUBJECTS ▮

- 1- Classification of Orthotics
- 2- Deformities in upper and lower extremities and column vertebrae
- 3- Different kinds of splints
- 4- Braces in upper and lower extremities
- 5- Different kinds of Collars, Belts and Corsets for trunk
- 6- Mechanical principles of braces
- 7- Different materials for making brace
- 8- Methods for using braces and splints
- 9- Braces in scoliosis
- 10- Medical shoes
- 11- Wheelchair
- 12- Crutches ,Canes and Walkers
- 13- Different kinds of prosthesis in upper and lower extremities

Course Title : Occupational Disease
Course Code : 36
Course Type : Main
Prerequisite Title(s): None

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 1 | 0 | 1 |
| Hour(s): | 17 | 0 | 17 |

Goal: Recognition of professional health

▮ SUBJECTS ▮

- 1- History of Industrial Medicine
- 2- Ergonomy
- 3- Classification of Occupational diseases
- 4- Occupational intoxications and prevention
- 5- Treatment of Occupational diseases

Course Title : Vocational Rehabilitation
Course Code : 37
Course Type : Main
Prerequisite Title(s):-None-

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 1 | 1 | 2 |
| Hour(s): | 17 | 34 | 51 |

Goal: Supporting patients for individual and social independence

#SUBJECTS

- 1- Pre-vocational assessments
- 2- Consultation for finding a suitable job
- 3- Role of vocational rehabilitation in treatment of Mental Retardation, mental disorders and physical patients
- 4- Standard devices
- 5- Precautions in working
- 6- Ergonomy
- 7- Work adaptation
- 8- Visiting from pre-vocational centers

Course Title : Occupational Therapy in Physical patients I

Course Code : 38-1

Course Type: Main

Prerequisite Title(s): Orthopedics, Neurology, Internal Medicine I,II

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 1 | 1 | 2 |
| Hour(s): | 17 | 34 | 51 |

Goal: Assessment in Physical Patients

▮ SUBJECTS ▮

1- Principles of assessment

2- Methods of assessment

3- Assessment of following:

ADL, ROM, MMT, Muscle tone, Coordination, Functional tests in Upper Motor Neuron disorders, Perceptual tests (Proprioception, Body scheme, Stereognosis), Reflexes, Cognition, Sensory tests

4- Assessment in different kinds of disorders such as :

Head injury, CVA, Hemiplegia, Spinal disorders (Paraplegia, Quadriplegia), Cerebellum disorders, Parkinson, Rheumatoid Arthritis, Multiple Sclerosis, etc.

Course Title : Occupational Therapy in Physical patients
II

Course Code : 38-2

Course Type : Main

Prerequisite Title(s): Occupational Therapy in Physical Patients I

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 2 | 0 | 2 |
| Hour(s): | 34 | 0 | 34 |

Goal: Principles of treatment in patients with physical dysfunction

▣ SUBJECTS ▣

- 1- Neuro-developmental, Biomechanical and Rehabilitation approaches in physical patients
- 2- Methods for increasing ROM and Muscle strengthening
- 3- Activity adaptation in physical patients
- 4- Occupational Therapy in flexor and extensor tendons injuries, tenolysis, tendon transfer, Golfer elbow, Trigger finger, Dupuytren contracture, Tennis elbow, post-surgery adhesion, Mallet finger, Boutonniere deformity, De Quervain's Dis, Bowlers thumb
- 5- Occupational Therapy in peripheral nervous dis ases such as Axillary, Musculocutaneous, Radial, Median and Ulnar nerve
- 6- Splints used in each case
- 7- Pain problems and pain management
- 8- Sensory disorders treatment
- 9- Pressure Syndromes, Compartment Syndromes, RSD, Fractures, Amputations, Burnings, Frozen Shoulder, Stiff hand

Course Title : Occupational Therapy in Physical Patients II
Course Code : 38-3
Course Type : Main
Prerequisite Title(s): Occupational Therapy in Physical Patients I

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 2 | 0 | 2 |
| Hour(s): | 34 | 0 | 34 |

Goal: Principles of treatment in patients with CNS disorders

▮ SUBJECTS ▮

- 1-Occupational Therapy assessment in neurological patients
- 2- Rehabilitation of spinal injuries
- 3- Occupational Therapy in Cerebellum Disorders
- 4- Occupational Therapy in geriatrics
- 5- Occupational Therapy in Lower Motor Neuron Disorders
- 6- Occupational Therapy in Head injury
- 7- Occupational Therapy in Stroke
- 8- Methods for patient transfer
- 9- ADL in neurological patients
- 10- Occupational Therapy in Degenerative Disorders such as Parkinson, MS, Pick diseases, Alzheimer

Title : Occupational Therapy in Mental Disorders- 1
Course Code : 39-1
Course Type : Main
Prerequisite Title(s): Specialized Psychiatry

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 2 | 0 | 2 |
| Hour(s): | 34 | 0 | 34 |

Goal: Therapeutic methods for patients with Mental Disorders

▮ SUBJECTS ▮

- 1- Rapport with psychiatric patients
- 2- Assessment
- 3- Tests used in Occupational Therapy
- 4- Role of Occupational Therapy in diagnosis
- 5- Therapeutic methods such as:
Activity therapy, Group therapy, Relaxation training, Social skills
Training, Psycho-drama, etc.

Course Title : Occupational Therapy in Mental Disorders-2
Course Code : 39-2
Course Type : Main
Prerequisite Title(s): Specialized Psychiatry

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 2 | 0 | 2 |
| Hour(s): | 34 | 0 | 34 |

Goal: Therapeutic methods for patients with Mental Disorders

▮ SUBJECTS ▮

- 1- Rapport with psychiatric patients
- 2- Assessment
- 3- Tests used in Occupational Therapy
- 4- Role of Occupational Therapy in diagnosis
- 5- Therapeutic methods such as:
Activity therapy, Group therapy, Relaxation training, Social skills Training, Psycho-drama, etc.
- 6- Review on MR
- 7- Psycho-development in normal children
- 8- Assessment in MR
- 9- Training different skills for children with MR such as : Fine movement skills, Gross movement skills and Perceptual-motor skills
- 10-Self-care in patients with MR
- 11-Social skills
- 12-Occupational Therapy in treatment of Autism, ADHD, etc.

Course Title : Occupational Therapy in Pediatrics
Course Code : 40
Course Type : Main
Prerequisite Title(s): Techniques in Kinesiotherapy

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 2 | 0 | 2 |
| Hour(s): | 34 | 0 | 34 |

Goal: Treatment planing for pediatrics

▮ SUBJECTS ▮

- 1- Introduction to pediatrics
- 2- Neuro-Developmental Disorders such as Cerebral Palsy, Head injury, Nervous System infections, Brachial plexus damages
- 3- Congenital Disorders such as Foot deformities, Congenital Dislocation of hip (CDR), Artheriogriposis, Organic Malformations, Spinabifida
- 4- Musculo-skeletal Disorders such as Duschen Muscular Dystrophy, Torticoli spasmodic, Scoliosis, Edematous Disorders of soft tissues
- 5- Assessment of pediatrics
- 6- Treatment planing in pediatrics
- 7- ADL in pediatrics

Course Title : Occupational Therapy of Blinds
Course Code : 41
Course Type : Main
Prerequisite Title(s): None

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 1 | 1 | 2 |
| Hour(s): | 17 | 34 | 51 |

Goal: Recognition of blind problems

▮ SUBJECTS ▮

- 1- Anatomy, physiology and neurophysiology of visual organ
- 2- Eye diseases
- 3- Ethiology of blindness and methods of prevention
- 4- Education in blinds
- 5- Vocational assessment
- 6- Rehabilitation in blinds
- 7- Activities of daily living in blinds
- 8- Recognition of Brill-letter
- 9- Social skills for blinds
- 10- Therapeutic role of attention and concentration in blinds

Course Title : Technique of splint Types Structure
Course Code : 42
Course Type : Main
Prerequisite Title(s): None

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 1 | 1 | 2 |
| Hour(s): | 17 | 34 | 51 |

Goal: Making different splints for therapeutic purposes

▮ SUBJECTS ▮

- 1- Normal position for upper and lower extremities such as Rest or Functional Position
- 2- Curves in hand and foot and their role in making splints
- 3- Classification of splints
- 4- Goals of splint making
- 5- Techniques in splint making
- 6- Essential instruments, tools and materials for splint making
- 7- Designing the splints
- 8- Precautions in splint making
- 9- Making following splints:
Rest splint, Cock-up splint, Cock-up & C-bar, Dorsal dynamic, Palmar dynamic, Opponens splint, C-bar splint, MP flexor splint, Combined ulnar & median splint, Double finger splint, Mallet finger splint, Spiral splint, different kinds of wrist splints
- 10- Making different kinds of Slings

Course Title : Play therapy
Course Code : 43
Course Type : Main
Prerequisite Title(s): None

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|--------|
| Credit(s): | 0.5 | 0.5 | 1 |
| Hour(s): | 8.5 | 17 | 5125.5 |

Goal: introducing play therapy

▮ SUBJECTS ▮

1- Definition of play, indications, different kinds, conditions and play agents.

Course Title: Movement therapy & Therapeutic techniques
Course Code : 44
Course Type : Main
Prerequisite Title(s): None

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 2 | 1 | 3 |
| Hour(s): | 34 | 34 | 68 |

Goal: Use of different techniques for therapeutic purposes esp. in patient with Cerebral Palsy (CP)

▮ SUBJECTS ▮

- 1-Definition of CP
- 2- Classification of CP
- 3- Principles of sensory-motor methods for treatment
- 4- Assessment
- 5- Postural reflexes
- 6- Common therapeutic methods in treatment of CP and Motor-Delay
- 7- Brunstrom, Rood and Bobath approaches

Course Title: Clinical observation-1&2
Course Code : 46& 47
Course Type : Main
Prerequisite Title(s): None

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 0 | 2 | 2 |
| Hour(s): | 0 | 136 | 136 |

Goal: In this course students will be able to observe pediatric and adult physical disabilities in OT clinics. Students will have a chance to choose a department for basis voluntary. In addition, at the end of each observation students have to report their observation in a clinical format.

Course Title: Psychiatric Clinical Training I
Course Code : 48
Course Type : Main
Prerequisite Title(s): None

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 0 | 3 | 3 |
| Hour(s): | 0 | 204 | 204 |

Goal: Clinical experiences in Mental Disorders Department

▮ SUBJECTS ▮

Training in psychiatric departments of hospitals and rehabilitation centers, including assessment (primary and secondary), Treatment planning, therapeutic activities, daily reports and final reports.

Course Title: Physical Clinical Training I
Course Code : 49
Course Type : Main
Prerequisite Title(s): None

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 0 | 3 | 3 |
| Hour(s): | 0 | 204 | 204 |

Goal: Clinical experiences in Cerebral Palsy Departments

▮ SUBJECTS ▮

Training in cerebral palsy departments of hospitals and rehabilitation centers, including assessment (primary and secondary), Treatment planning, therapeutic activities, daily reports and final reports.

Course Title: Psychiatric Clinical Training 2
Course Code : 50
Course Type : Main
Prerequisite Title(s): None

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 0 | 3 | 3 |
| Hour(s): | 0 | 204 | 204 |

Goal: Clinical experiences in Mental Disorders Department

▮ SUBJECTS ▮

Training in pediatrics departments of hospitals and rehabilitation centers, (such as MR, ADHD and Autism) including assessment (primary and secondary), treatment planning, therapeutic activities, daily reports and final reports.

Course Title : Physical Clinical Training II
Course Code : 51
Course Type : Main
Prerequisite Title(s): Occupational Therapy in Physical Patients
I,II,III

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 0 | 4 | 4 |
| Hour(s): | 0 | 272 | 272 |

Goal: Clinical experiences in physical patients Departments

▮ SUBJECTS ▮

Training in physical patients departments of hospitals and rehabilitation centers, including assessment (primary and secondary), Treatment planning, therapeutic activities, daily reports and final reports.

Course Title : Physical Clinical Training III
Course Code : 52
Course Type : Main
Prerequisite Title(s): Occupational Therapy in Physical Patients
I,II,III

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 0 | 3 | 3 |
| Hour(s): | 0 | 204 | 204 |

Goal: Clinical experiences in physical patients Departments

▮ SUBJECTS ▮

Training in physical patients departments of hospitals and rehabilitation centers, including assessment (primary and secondary), Treatment planning, therapeutic trinitities, daily reports and final reports.

Course Title : Physical Clinical Training IV
Course Code : 53
Course Type : Main
Prerequisite Title(s): Occupational Therapy in Physical Patients
I,II,III

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 0 | 3 | 3 |
| Hour(s): | 0 | 202 | 202 |

Goal: Clinical experiences in physical patients Departments

▮ SUBJECTS ▮

Training in physical patients departments of hospitals and rehabilitation centers, including assessment (primary and secondary), Treatment planning, therapeutic activities, daily reports and final reports.

Course Title : Clinical Training in Vocational Rehabilitation

Course Code : 54

Course Type : Main

Prerequisite Title(s): Occupational Therapy in Physical Patients I,II,III

| | Theo. | Prac. | TOTAL |
|------------|-------|-------|-------|
| Credit(s): | 0 | 1 | 1 |
| Hour(s): | 0 | 68 | 68 |

Goal: Clinical experiences in Vocational Rehabilitation

This course is an introduction to examination of the attitudes and behaviors of the occupational therapy professional. Students explore their own self awareness, values, interpersonal communication, and therapeutic use of self. Standardized personality inventories are used in understanding self in relation to others in a group. This is the first course in the series and serves as a foundation for the professional development thread that weaves through the curriculum. In this course we offer different kinds of assessments: vocational and prevocational evaluations, consultation in job evaluation, job findings, research and follow up, knowledge about different careers, workshops (supportive and preliminaries) occupational rehabilitation role in mentally handicapped ,mentally illness, social and physical disabilities, standards of work tools and workshops, all required laws and limitations about careers and unemployment, circumspections in working (carrying object, prevention of abnormal movement and decreasing fatigue), team work in professional rehabilitation, process of returning to work after injury, and special related rules for workers with disabilities. In addition, students should observe some professional rehabilitation centers during the practical professional rehabilitation course.

▮ SUBJECTS ▮

Training in physical patients departments of hospitals and rehabilitation centers, ncludin assessment (primary and secondary), Treatment planning, therapeutic activities, daily reports and final reports.