Syllabus for Bachelor of Occupational Therapy (BOT) Programme

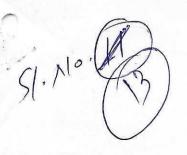




Guru Gobind Singh Indraprastha University

A State University established by the Govt. of NCT of Delhi

University School of Medicine and Allied Health Sciences



	FIRST YEAR			
Code No.	Paper	~ L	T/P	Yearly. Credits
BOT 101	Anatomy			
BOT 102	Physiology	4	-	8
BOT 103	Psychology & Sociology	4	140 T	8
BOT 104		4	#2	8
×	Fundamentals of Occupational Therapy-I (Evaluation & Performance Components)	s 3	-	6
BOT 105	Fundamentals of Occupational Therapy-II (Human Development and Occupational Performance)	3		6
BOT 106	Biochemistry	(48)		
	PRACTICAL	1	-	2
BOT 151	Anatomy			
BOT 152	Physiology	× -	4	4
BOT 153	Fundamental	-	4	4
). · ·	Fundamentals of Occupational Therapy-I (Evaluation & Performance Components)	-	2	2
BOT 154	Fundamentals of Occupational Therapy-II (Human Development and Occupational Performance)	-	2	2
	TOTAL		-	

SECOND YEAR

Code No.	Paper		T/P	Yearly Credits	
BOT 201	Pathology and Microbiology				
BOT 202	Pharmacology	2	*	4	
) BOT 203		2		4	
	Medicine & Paediatrics	2		4	دن
BOT 204	General Surgery			7	
BOT 205	Ergo-therapeutics-I	2	-	4	
BOT 206	(Therapeutic Management Tools in Occupational Therapy)	4	~	8	
	(Activity Analysis and Biomechanics) PRACTICAL	4	14	8	12
BOT 251 .	OT-Clinicals **				
BOT 252	Ergo-therapeutics-I		4	4	
BOT 253	(Therapeutic Management Tools in Occupational Therapy) Ergo-therapeutics-II	딸	7	7	
)	(Activity Analysis and Biomechanics)	1.5	7	7 .	
	TOTAL				
		16	18	50	

^{**} NUES Stands for non-university examination subjects

THIRD YEAR

Code No.	Paper	L	T/P	Yearly '
BOT 301	Neurology			Cicuita
O BOT 302	Orthopaedics	2	51	4 .
BOT 303	Psychiatry	2	3 -	4
BOT 304	Work Physiology & Ergonomics	2	- *	4
BOT 305	Occupational Therapy in Medical Conditions	2.		4
BOT 306	Occupational Therapy in Surgical Conditions	4.	*	8
	PRACTICAL	4.		8
30T 351	OT-Clinicals **	**		
352 BOT 352	Occupational Therapy in Medical Conditions	-	4	4
DT 353	Occupational Therapy in Surgical Conditions	-	7	7
	TOTAL		7	7 ,
		16	18	50

^{**} NUES Stands for non-university examination subjects

FOUTH YEAR

Code No.	Paper		L	T/P	Yearly
BOT 401	Community Rehabilitation and Disability Prevention		2		4
BOT 402	Research Methodology and Biostatistics		2		4
BOT 403	Occupational Therapy in Neurological Conditions		3		6
BOT 404	Occupational Therapy in Orthopaedic Conditions		3	B)	6
BOT 405	Occupational Therapy in Psychiatric Conditions		. 2		4
	PRACTICAL				7
BOT 451	OT-Clinicals **			8	8
BOT 452	Occupational therapeutic in Neurological Conditions			5	5
BOT 453	Occupational therapeutic in Orthopaedic Conditions			5	5
BOT 454	Occupational therapeutic in Psychiatric Conditions			5	5 .
BOT 455	Project Work	•		3	
	TOTAL	•	12	26	3 50

^{**} NUES Stands for non-university examination subjects

BACHELOR OF OCCUPATIONAL THERAPY (BOT)

FIRST YEAR

ANATOMY

Course Code: BOT 101 _____ L - 4 _____ T/P - 0 ____ CREDITS - 8

Course objectives:

1. Understanding of gross anatomy of various body parts.

Application of knowledge of anatomy to learn evaluation and application of physical therapy.

 Major emphasis of learning is towards Musculo-skeletal, cardio-respiratory and nervous system.

Course Contents: All sections carry equal weightage

Section - A

1. General Anatomy:

Introduction to Anatomy, terms and terminology

Regions or Body, cavities and Systems outline.

Surface anatomy – musculo-skeletal and cardiopulmonary

Cell Structure and function of cell organelles (Brief outline only).

Connective tissue & its modification, tendons, membranes, Special connective tissue.

Bone structure, blood supply, growth, ossification, and classification.

Muscle classification, structure and functional aspect.

Nerve – structure, classification, microscopy with examples.

Neurons, classification with examples. Simple reflex arc.

Parts of a typical spinal curve/Dermatome

 Joints – classification, structures of joints, movements, range, limiting factors, stability, blood supply, nerve supply, dislocations and applied anatomy.

Circulatory system – major arteries and veins of the body, structure of blood vessels

 Lymphoid system - direction + function, lymphoid organs- and their structure & functions.

2. Upper extremity:

· Bony architecture

· Joints - structure, range of movement

· Muscles - origin, insertion, actions, nerve supply

Major nerves – course, branches and implications of nerve injuries

Development of limb bones, muscles and anomalies

· Radiographic identification of bone and joints

Section - B

Lower Extremity:

Bony architecture

Joints - structure, range of movement

· Muscles - origin, insertion, actions, nerve supply

Major nerves – course, branches and implications of nerve injuries

Development of limb bones, muscles and anomalies

· Radiographic identification of bone and joints

4. Spine:

- Back muscles Superficial layer, Deep muscles of back, their origin, insertion,
 action and nerve supply.
- Vertebral column Structure & Development, Structure & Joints of vertebra
- Radiographic identification of bone and joints

Section - C

5. Thorax:

- Thoracic cage
- · Pleural cavities & pleura
- Lungs and respiratory tree
- · Heart and great vessels
- Diaphragm

6. Head and neck:

- Cranium
- Facial Muscles
- Central nervous system disposition, parts and functions
- Cerebrum
- Cerebellum
- · Midbrain & brain stem
- Blood supply & anatomy of strokes
- Spinal cord- anatomy, blood supply, nerve pathways
- Pyramidal, extra pyramidal system
- Thalamus, hypothalamus
- Ventricles of brain, CSF circulation
- Development of nervous system & defects (Brief Description)
- Cranial nerves special emphasis on V, VII, X, XI, XII (course, distribution and palsies)
- Sympathetic nervous system, its parts and components (Brief Description)
- Parasympathetic nervous system (Brief Description).

7. Miscellaneous:

- a. Embryology in hrief covering neuromuscular developmental aspects
- b. Endocrine system Pituitary, Thyroid, parathyroid (Brief Description)
- c. Special senses (Brief Description): Nerve receptors, Eye, Ear, Labyrinth
- d. Abdomen and pelvis (Brief descriptions only):
 - Abdominal cavity divisions
 - Muscles of abdominal wall, pelvic floor, innervations
 - Bony Pelvis
 - Digestive system (Liver & pancreas, Alimentary canal)
 - · Urinary system Kidney, Urecer, bladder, urethra
 - Genital system male and female

Suggested Readings:

S.No.	Author	Title	Publisher	Year	Vol.
1	Chaurasia, B D	Human Anatomy: Regional and . Applied	CBS, New Delhi	-2004	3V
2.	Chaurasia, B D	Human Oesteology	CBS, New Delhi	1991	
3	Singh, Inderbir	Text Book of Anatomy: With Color Atlas	Jaypee, New Delhi	1999	3∨
4	Singh, Inderbir	Text Book of Neuroanatomy	Jaypee, New Delhi	1999	
5	Singh, Inderbir	Text Book of Human Histology	Jaypee, New Delhi	1997	
6	Singh, Inderbir	Text Book of Human Oesteology	Jaypee, New Delhi	1997	
7	Garg, Krishna	Text Book Histology	CBS, New Delhi	1997	
8	Singh, Inderbir	Multiple Choice Questions in Anatomy	Jaypee, New Delhi	1989	
9	Datta, A.K.	Essentials of Human Anatomy: Neuroanatomy	Current Book, Calcutta	1997	
10	Datta, A.K.	Essentials of Human Anatomy: Thorax and Abdomen	Current Book, Calcutta	1997.	
11	Williams, Peter L	Gray's Anatomy: Anatomical Basis of	Churchill Livingston, New York	1995	-
12	McMinn, M. H.	Colour Atlas of Human Anatomy	Mosby-Wolfe, London	1995	
13	Snell, Richard S	Clinical Anatomy for Medical Students	Little- Brown, Boston	1995	
14	Field, Derek	Anatomy: Palpation and Surface Markings	Butterworth, London	1997	FW 250

BACHELOR OF OCCUPATIONAL THERAPY (BOT)

FIRST YEAR

PHYSIOLOGY

Course Code: BOT 102 _ L-4 T/P-0 CREDITS - 8

Course objectives:

 i. To understand the Physiological functions of human body
 ii. To understand the application of physiological functions & physiology of exercise in relation to physical therapy

iii. Major area of learning is cardio-respiratory, Musculo-skeletal and nervous system.

Course Contents: All sections carry equal weightage

Section - A

1. General Physiology

- Structure of cell membrane
- Transport across cell membrane
- Functional morphology of the cell
- Intercellular communication
- Homeostasis

2. Cardiovascular System

Dynamics of blood % lymph flow

- Anatomical, biophysical consideration of arterial, arteriolar & capillary venous level, Lymphatic circulation
- Origin and spread of cardiac excitation
- Basic idea of Electrocardiogram
- Mechanical events of Cardiac cycle, Cardiac output, its regulation
- Local & systemic regulatory mechanisms of CVS, humeral & neural
- Cerebral, coronary, splanchnic, skin, Placental & Fetal circulation

3. Respiratory System

- Physiological anatomy of lungs, mechanics of respiration
- Pulmonary circulation, Gas exchange in lungs
- Oxygen & Carbon dioxide transport
- Other function of respiratory system
- Neural & chemical control of breathing
- Regulation of respiratory activity, non-chemical influences on respiratory activity

1. Cardio respiratory adjustments in health & disease

- Exercise, high altitude, deep sea diving
- Hypoxia, hypercapnia, hypocapnia, oxygen treatment
- Asthma, emphysema, artificial respiration

Section - B

5. Blood

- W.B.C., R.B.C., Platelets formation & functions
- Plasma, Blood Groups
- Haemostasis, Immunity

G. Renal System

- Glomerular filtration rate, clearance, Tubular function
- Water excretion, concentration of urine-regulation of Na, Cl, K excretion
- Physiology of urin: ry bladder

- 7. Nerve Muscle and Synaptic & Junction Transmission
 - Nerve General Concept
 - Nerve cell structure
 - Genesis of resting membrane potential & Action potential
 - Their ionic basis, All or None phenomenon
 - Ionic basis of nerve conduction
 - Classification & types of nerve fibre
 - Mixed nerves & compound action potential
 - Concept of nerve injury & Wallerian degeneration
 - Muscle properties and functions
 - Electric & Mechanical responses & their basis
 - Concept of isometric & isotonic muscle contraction
 - Electrical events in postsynaptic neurons
 - Inhibition & facilitation at synapses
 - Chemical transmission of synaptic activity
 - Principal neurotransmitter system
 - Neuromuscular junction, structure & events occurring during excitation

Section - C

8. Digestive System

- Digestion & absorption of nutrients
- · Gastrointestinal secretions & their regulation
- Liver & Exocrine Pancreas

9. Functions of Nervous system (descriptive)

- · Reflexes, monosynaptic, polysynaptic, withdrawal reflex
- Properties of reflexes
- · Sense organ, receptors, electrical & chemical events in receptors
- · Ionic basis of excitation
- Sensory pathways for touch, temperature, pain, proprioception, others
- Control of tone & costure: Integration at spinal, brain stem, cerebellar, basal ganglion levels, along with their functions & clinical aspects
- Autonomic nervous system & Hypothalamus
- Higher functions of nervous system
 - i. Learning & memory, neocortex,
 - ii. Limbic functions, sexual behaviour, fear & range, motivation

10. Miscellaneous

- i. Special senses
- ii. Endocrinology
- iii. Male & female reproductive system

Suggested Readings:

S.No.		Title	Publisher	Year	Vol.
1.	Chatterji, C. C.	Human Physiology	Medical Allied	1997	2V
2	Keele, Cyril A	Samson Wright's Applied Physiology	Oxford University Press	1998	
3	Bijlani, R L	Understanding Medical Physiology	Oxford University Press	1998	
4	Guyton, A.C. and Hall, J. E.	Textbook of Medical Physiology	W.B.Saunders, Singapore	1998	

BACHELOR OF OCCUPATIONAL THERAPY (BOT)

FIRST YEAR

PSYCHOLOGY & SOCIOLOGY

Course Code: BOT 103 L-4 T/P-0 CREDITS - 8

Course Objectives:

UT TO

This course will enable the student to understand specific psychological factors and effects in physical illness and this will help them to have a holistic approach in their dealings with patients during admission, treatment, rehabilitation and discharge.

Note: This course is to be taught by two teachers (Psychologist & Sociologist / Medical Sociologist). Each part carries equal weightage. External Question Paper for each part shall be set by two relevant subject paper setters. The examinees shall use different answer books for the two different parts. And, relevant subject teachers shall evaluate these.

Course Contents: All sections carry equal weightage

PSYCHOLOGY (PART - A)

Section - A

- 1. What is psychology? Fields of application of psychology, influence of heredity and environment on the individual
- 2. Learning theories & principles learning
- Memory, Forgetting, theor ≥s of memory and forgetting, thinking & methods to improve memory
- 4. Thinking process, problem solving, decision making and creative thinking
- 5. Motivation theories and types of Motivation
- 6. Emotions theories of Emotions and stress
- 7. Attitudes theories, attitudes and behaviour, factors in attitude change
- 8. Intelligence theories of intelligence
- 9. Personality, theories of personality, factors influencing personality
- 10. Development and growth of behavior in infancy and childhood, adolescence, adulthood and old age
- 11. Behavior normal and abnormal
- 12. Counseling Definition, Alms and principles
- 13. Psychotherapy brief introduction to paradigms in psychopathology and therapy

Section - B

- 14. Psychological need of children and geriatric patients
- 15. Communication effective and faulty
- 16. Emotional and behavioral disorders of childhood and adolescence- (in brief)
 - a) Disorders of under and over controlled behavior
 - b) Eating disorders
- 17. Mental deficiency
 - a) Mental retardation.
 - b) Learning disabilities
 - c) Autistic behavior
- 18. Anxiety Disorder:
 - a) Phobias, panic disorder,

- b) Generalized Anxiety disorder,
 - c) Obsessive Compulsive Disorder,
 - d) Post -traumatic Stress Disorder

19. Somatoform and Dissociate Disorders -

- a) Conversion Disorder,
- b) Somatization Disorder,
- c) Dissociate Amnesia & Dissociate Fugue
- 20. Personality Disorder
- 21. Patho-physiological Disorders stress and health
- 22. Severe psychological disorders Mood disorders, psychosis

SOCIOLOGY (PART - B)

Section - C

A-Introduction

- 1. Meaning-Definition and scope of Sociology
- 2. Its relation with Anthropology, Psychology, Social Psychology and ethics.
- 3. Methods of Sociology-case study, Social Survey, Questionnaire, interview and opinion poll methods.
- 4. Importance of its study with special reference to health care professionals.

B-Social Factors in Health and Disease:

1. The meaning of Social Factors. 2. The role of Social factors and illness.

C-Socialization:

- 1. Meaning and nature of Socialization.
- 2. Primary, Secondary, and Anticipatory Socialization.
- Agencies of Socialization.

D. Social Groups:

- 1. Concepts of social groups.
- 2. Influence of formal and informal groups on health and sickness.
- 3. The roll of primary groups and secondary groups in the hospital and rehabilitation settings.

L Family:

- The family Meaning and definition, Functions
 Changing family Patterns
- 3. Influence of family on the individual health, family, and nutrition.
- 4. The effects of sickness on family and psychosomatic disease and their importance to Physiotherapy

F-Community:

- 1. Rural community Meaning and features Health hazards of rural population
- 2. Urban community Meaning and features Health hazards of urban population

Section - D

G-Culture and Health:

- 1. Concept of culture -
- 2. Cultures and Behaviour
- 3. Cultural meaning of sickness
- 4. Culture and health disorders

H-Social change:

- 1. Meaning of social changes & Factors of social change.
- 2. Human adaptation and social change.
- 3. Social change and stress.
- Social and deviance.
- 5. Social change and health Program.
- 6. The role of social planning in the improvement of health and in rehabilitation.

1-Social problems of disabled:

Consequences of the following social problems in relation to sickness and Disability, remedies to prevent these problems

Population explosion.
Poverty and unemployment. 2.

3. Beggary.

Juvenile delinquency. 4.

5. Prostitution.

6. Alcoholism.

7. Problems of women in employment.

J-Social security: Social security and social legislation in relation to the Disabled. K-Social worker: Meaning of social work; the role of a medical social worker.

Suggested Readings:

S.No.	Author	Title	Publisher	Year	Vol.
推动。 建筑	Morgon, Clifford T	Introduction to Psychology	Tata Mcg. Hill, Delhi	1999	
2	Farnald, L.D.	Introduction to Psychology	AITBS, Delhi	1999	
3.	Korchin, Sheldon J.	Modern Clinical Psychology: Principals	CBS, New Delhi	1999	
4	McDavid, J.W. and Harari, H.	Social psychology: Individuals, Groups, Societies	CBS, New Delhi	1999	
5	Davison, G.C. and Neale, J.M.	Abnormal Psychology	Jhon Wiley, New York	1997	
6	Mehta, Manju	Behavioral Sciences in Medical Practice	Jaypee, New Delhi	1998	
7	Bhusan, Vidya and Sachdeva, D.R.	Introduction to Sociology	Kitab Mahal, New Delhi	1999	
8	Turner, J. H.	Structure of Sociological Theory	Jaipur Publication	1995	
9	Anand Kumar	Indian Society and Culture	Vivek, New Delhi	2000	

BACHELOR OF OCCUPATIONAL THERAPY (BOT)

FIRST YEAR

Fundamentals of Occupational Therapy-1 (Evaluation & Performance Components)

L. 3

Course Code: BOT 104

CREDITS.

Section I

- 1. Occupational performance model
- 2. Principles of Therapeutic Exercises
 - a) Generalized & Specific principles
 - b) Types of movements. Muscle contraction used in Exercises
 - c) Exercise classification & application to activity
 - d) PRF (Progress) in sistive Exercise), RELITER Resistant

TAME (Bale).

Section II

- Assessment & evaluation, functions of evaluations, evaluative approaches types of assessments? valuations, process of evaluation(data collection, interpretation & validation), the interview process.
- ldentification data (including the importance of socioeconomic status). History taking. Chief omplaints and other general points of evaluation (mental status, observation/inspection/palpation/
- Definitions, Classification/Components, Assessments (including brief description of standardized n-standardized & acceptable tests) of O.T. performance components. SENSORIMOTOR COMPONENT

- (i) SENSORY TESTING (Principle & testing of different sensations)
- im NEUROMUSCULAR SKELETAL
- range of Motion (Definition, types of ROM, planes & axes, principles & procedures, end feels. sular and non-capsular patterns, precautions and contra indications, measurement of different
- cle strength (Definition, principles, precautions and contra indications and testing of different ele tone

ral control & alignment

assessment (DTR's, superficial reflexes, development reflexes)

Anthropometric characteristics

Limb Length

Oedema

Stump

... Muscle bulk

- Soft tissue examination

(iv) MOTOR

Co-ordination (gross motor & fine motor / dexterity)

(v) > Evaluation & Assessment of Hand & Functional Tests - Jebson Taylor Hand Function Test, Dexterity Tests, Purdue Pegboard Tests, MRMT.

(b) COGNITION

(C) PSYCHOSOCIAL

(i) PSYCHOLOGICAL FUNCTIONS

dynamic states (needs, emotions, values, interest, motivation).

intrapsychic dynamics (conscious unconscious continuum, psychodynamics, defense

reality testing

insight

object relations

self-concept

self-discipline

concept of others.

SOCIAL INTERACTION ii)

interpretation of situations

social skills

structured social interplay

Name of Books with Authors

S.No.	Name of Books with Authors	
1	Occupational Therapy by "Willard & Spackman"	Edition
2	OT for Physical Dysfunction by "Pediritti"	8th & 9th
3	OT for Physical Dysfunction by "Pediritti"	5th
4	OT for Physical Dysfunction by "Catherine & Trombley" Psychosocial Concepts of OT by "Mosey"	4th
5	Manual Muscle Testing by "Candell"	
6	Goniometry by "Daniel's"	

BACHELOR OF OCCUPATIONAL THERAPY (BOT)

FIRST YEAR

Fundamentals of Occupational Therapy-II (Human Development and Occupational Performance)

Course Code: BOT 105

L - 3

1/P - 0CREDITS

SECTION I

- 1. Definition, Role & Scope of OT
- 2. History & Development of OT
- Philosophy of OT 3.
- 4. Ethics in OT
- 5. Rehabilitation & teamwork
- Theory of Occupation Forms of occupation, occupation as evolutionary trait, Biological 6. . dimensions, Social dimensions & Psychological dimensions of Occupation, Application of

SECTION II

Definitions, Classification / Components, Assessments/ Evaluations (including brief description of standardized / non-standardized & acceptable tests) of: Performance Areas: 1.

- ADL
 - # Personal care, medication routine and health maintenance
 - # Functional and community mobility
 - # Functional communication
 - # Sexual expression
 - Work and Productive Activities
 - # FCE, WCE, PCE work assessments

Work evaluation tools such as:

On-the-job, or work site evaluations

Situational assessments

Psychometric instruments work samples

- # Driving evaluation
- # Home management
- # Educational activities

Play / Leisure Activities

Performance Contexts

- 1. Environmental context (physical, social, cultural)
- 2. Temporal aspects (chronological, developmental, life cycle, disability status).

ECTION III (Human Development)

- Aspects of human development: physical, motor, sensory, cognitive, emotional, cultural, (a) (b)
- Factors influencing human development :- Biological & environmental Principles of Maturation (c)

Name of Books with Authors

S.No.	Name of Books with Authors	
1	Occupational Therapy by 'Willard & Spackman"	Edition
2	OT for Physical Dysfunction by "Pediritti"	6th
3	Concepts of OT by "Pediritti"	5th
4	Concepts of OT by "Reed & Sanderson" OT for Children by "Allen & Pratt"	3rd
5	Normal Human Development by "Illingworth"	
	"Illingworth"	

BACHELOR OF OCCUPATIONAL THERAPY (BOT)

FIRST YEAR

BIOCHEMISTRY

Course Code: BOT 106

L - 1

T/P - 0

CREDITS - 2

Course Objectives:

To understand biochemical basis of life sciences

Note:

A brief description of metabolic pathways mentioned herein is indicated.

Details and structures are to be avoided.

Course Contents; All sections carry equal weightage.

Section - A

1. Nutrition: Basic principles of nutrition; Carbohydrates, Proteins and Lipid caloric requirement and balance diet.

2. Carbohydrates: Definition, classification with examples and general functions. Metabolism - Glycolysis, T.C.A Glycogen metabolism, Blood Sugar regulation, Diabetes and diabetic keto-acidosis

3. Lipids: Definition, classifications and general functions. Essential fatty acids, cholesterol, Blood lipids. Brief review of apoproteins. Metabolism-Oxidation of fatty acids, cholesterol synthesis, and fatty liver.

Proteins: Definition, classification, and Bio-medical Importance.

Section - B

Study of hemoglobin and immunoglobulins with functions.

6. Plasma Proteins and functions. Metabolism: General reactions of amino acids. Formation

and fate of ammonia - Urea cycle.

7. Tissue chemistry: Chemistry of connective tissue, bone and teeth. Composition function and chemical mediators of nerve structure of muscle tissue. General Biochemistry of muscle contraction and relaxation.

Section - C

8. Enzymes: Definition, classification with examples. Factors affecting enzyme action. Brief study of enzyme inhibition. Clinical importance of enzymes.

9. Vitamins: Definition classification and functions. Dietary source, Daily requirement and deficiency disorders.

10 Water and Electrolyte Balance: General outline of fluid compartments of the body with their water and electrolyte content and balance, Del., dration.

Suggested Readings:

S.No.	Author	Title	Publisher	Year Vol.
1	Ahuja, Lakshmi	CBS Quick Review in Biochemistry	CBS, New Delhi	1999
2.	Chatterji, M N	Text Book of Medical Biochemistry	Jaypee, Bangalore	1999
j	Den, A.C.	Fundamentals of Biochemistry	CBA, Calcutta	1999
4	Lehninger, A.L.	Principles of Biochemistry	CBS, Delhi	1084

BACHELOR OF OCCUPATIONAL THERAPY (BOT)

FIRST YEAR

YMOTANA

Course Code: BOT 151

_L ()

1/P - 4

CREDITS 4

PRACTICAL

Learning of surface landmarks with special emphasis on bones, joints, muscles, and nerves. The learning of anatomy is by demonstration only through dissected parts, slides, models, charts, etc.

Demonstration of dissected parts (upper extremity, lower extremity, thoracic& abdominal viscera, face and brain)

Demonstration of skeleton articulated and disarticulated.

During the training more emphasis will be given on the study of bones, muscles, joints, nerve supply of the limbs.

PRACTICAL EXAMINATION

Students will by viva only based upon learning in theory, demonstration of bones, and joints, muscles, nerves and major viscora.

BACHELOR OF OCCUPATIONAL THERAPY (BOT)

FIRST YEAR

PHYSIOLOGY

Course Code: BOT 152 ____ L - 0 ___ T/P - 4 __ CREDITS - 4

PRACTICAL

- Examination of pulse, B.P., respiratory rate, & measure study the effect of posture & exercise.
- Spirometery to measure various lung capacities & volumes, Respiratory rate, tidal volume, VC, timed VC, IRV, IC, ERV, EC on Spirometery (demonstration only) Estimate of Haemoglobin, T.R.B.C., T.W.B.C. count (demonstration only) Blood indices, Blood grouping, Bleeding & Clotting time (demonstration only)

PRACTICAL EXAMINATION

Students will be assessed by viva based upon learning in theory. Demonstration of measurements of pulse, BP

BACHELOR OF OCCUPATIONAL THERAPY (BOT)

FIRST YEAR

Fundamentals of Occupational Therapy-I (Evaluation & Performance Components)

Course Code: BOT 153

r - 0.

I/P - 2

CREDITS

Knowledge of various assessment methods and their demonstrations on models in following areas:

sycho-social Components.

BACHELOR OF OCCUPATIONAL THERAPY (BOT)

FIRST YEAR

Fundamentals of Occupational Therapy-II (Human Development and Occupational Performance)

ourse Code: BOT 154.

1/P - 2

Knowledge of various assessment methods and their demonstration on models / clients in the following (a) (b) A.D.L.

Work and Productive activities

c) Play / leisure

BACHELOR OF OCCUPATIONAL THERAPY (BOT)

SECOND YEAR

PATHOLOGY & MICROBIOLOGY

Course Code: BOT 201

L - 2 T/P - 0 CREDITS - 4

irse objectives:

Rationale for understanding of the subject for Physiotherapy students Brief concept of pathological basis of disease and infectious disease prevention

ourse Contents: All sections carry equal weightage

PATHOLOGY

Section - A

1. Inflammation, injury and repair

2. Oncology: Classification, gross pathological state, cancer pain syndrome (Brief description)

3. Skin: Etio-pathogenesis, gross pathology of commonly occurring skin Diseases, Burns,

Pressure ulcers (Brief description)

4. Cardiovascular system: Etio-pathogenesis, gross pathology of conditions- aging, IHD, MI, CCF, HT, RHD, Congenital heart disease, Arteriosclerosis, Thrombo-angitis, Vasomotor-Raynaud's, vencus thrombosis, Gangrene, Lymph edema-

5. Haematology: (Brief description) - Etio-pathogenesis, gross pathology of conditions-

anaemia, polycythaemia, leukaemia, haemolytic disease, and haemophilia

6. Respiratory system: Etio-pathogenesis, gross pathology of conditions - aging, Pneumonia, Pulmonary TB, Bronchiectasis, COPD, Bronchial Asthma, Restrictive Lung disease, Occupational lung disease

Section - B

7. Musculoskeletal system: Etio-pathogenesis, gross pathology of conditions - osteomalacia, arthritis, Osteoarthritis, rheumatoid Osteomyelitis, Osteoporosis, spondyloarthropathy, Osteonecrosis, Myofascial pain syndrome. Biological responses to trauma, bone and soft tissue immobilization

8. CNS AND PNS: Etio-pathogenesis, gross pathology of conditions - Aging, Meningitis, Encephalitis, Parkinson's, Amyotrophic lateral sclerosis, Ataxias, Multiple Sclerosis, stroke, Neuropathies (Carcoat Marie Tooth's disease, Compression and entrapments, diabetic, G.B syndrome), Poliomyelitis and post-polio syndrome, Myasthenia Gravis

MICROBIOLOGY

Section - C

9. Immunology: Brief description of immune system, immune responses & immune deficiency Immunology, Hypersensitivity disorders

10. Infectious diseases: Brief description of classification of microorganisms, identification, Sterilization and disinfections with special reference to principles of antisepsis and

prevention of communicable diseases in clinical practice

11. Brief description of identification of infectious diseases; principles of prevention of infectious diseases caused by common pathogens - streptococci, staphylococci, gonococci, Meningococci, salmonella, V. cholerae, E. coli, shigella, tetanus, Diphthena, M. Ieprae, M. tuberculosis, Poliomyelitis, Rabies, Malaria, Amoebiasis, Helminthiasis, Scabies, ringworm, candidiasis

Suggested Readings:

S.No.	Author	Title	Publisher	Year	Vol.
1	Chakraborty, P.	Textbook of Microbiology	NCB, Calcutta	1999	
2	Ananth Narayan, R.	Text Book of Microbiology	Orient Longman; Madras	1986	
3	Chatterjee, K. D.	Parasitology: Protozoology and helminthology	Chatterjee, Calcutta	1965	
1	Cotran, Ramzi S	Pathologic Basis of Disease	W. B. Saunders, Singapore	1999	
5	Vinay Kumar	Basic Pathology	Harcourt	1997	
6	Nagalotimath, S.J.	Textbook of Pathology	CBS, New Delhi	1998	
7.	Talib, V. H.	Essential Parasitology	Mehta, New Delhi	2001	

BACHELOR OF OCCUPATIONAL THERAPY (BOT)

SECOND YEAR

PHARMACOLOGY

Course Code: BOT 202 L-2 T/P-0 CREDITS - 4

burse Objectives:

a) To understand pharmaco-kinetics, pharmaco-dynamics.

b)' Usage of common drugs with (indications, contraindications, side effects).

(c) To understand the drug actions that may affect the physical therapy treatment.

d) Course is not prescription oriented.

<u>ourse Contents:</u> All sections carry equal weightage

Section - A

General Pharmacology (brief description only):

a) Introduction & general concepts

b) Pharmaco-kinetics (routes of administration, metabolism & elimination)

c) Pharmaco-dynamics (mechanism of drug action, therapeutic & side effects, toxicity)
Autonomic Nervous System:

a) Brief outline of Sympathetic-parasympathetic nervous system

b) Therapeutic agents-uses, effects and interaction with physical therapy Central Nervous System:

a) Anaesthetic agents- uses, side effects and interaction with physical therapy

b) Sedatives and hypnotics - uses, side effects and interaction with physical therapy

c) Anti epileptic drugs- uses, side effects and interaction with physical therapy

d) Analgesics - uses, side effects and interaction with physical therapy

e) Anti inflammatory drugs- uses, side effects and interaction with physical therapy

f) Psychotherapeutic agents- uses, side effects and interaction with physical therapy

g) Alcoholism and drug dependence and interaction with physical therapy

h) Therapeutic agents used for movement disorders- uses, side effects and interaction with physical therapy

Section - B

Cardio-vascular System:

a) Therapeutic agents (classification, effects on cardio-vascular system, uses & adverse reactions)

 b) Drugs used in cardiac failure, hypertension & arrhythmias and interaction with physical therapy

c) Drug therapy In vascular disease & Ischaemia and Interaction with physical therapy Respiratory system:

Therapeutic agents - uses, side effects and interaction with physical therapy

Section - C

6. Gastrointestinal system:

Therapeutic agents in Peptic ulcer, Diarrhoea- uses, side effects and interaction with physical therapy

Endocrinal hormones: Thyroid, adrenal, parathyroid hormones – uses, side effects and interaction with physical therapy

8. Diabetes mellitus:

Drug therapy and its interaction with physical the apy

Genetics:

Pharmacological challenges in genetic age coup and its effects on physical therapy.

Suggested Readings:

S.No.	Author	Title	Publisher	Year Vol.
	tripatly, K.D.	Essential of Medical	Deve i wiln,	[C] [[]]
		Pharmacology		
9	Laurence, D.R.	Clinical Pharmacology	ELBS, London	1975
3	Eddy, Lynne	Physica Therapy pharmacology	Mosby, London	1992
4	Barbar, F.S.K.	Essential. Of Pharmacotherapeutics	S. Chand, New Delhi	2000

BACHELOR OF OCCUPATIONAL THERAPY (BOT)

SECOND YEAR

MEDICINE & PAEDIATRICS

Course Code: BOT 203 L - 2 T/P - 0 CREDITS - 4

Course Objectives:

1. To understand the subject of medicine, the medical patient & implications of medical condition in physical therapy

To understand a Paediatrics patient and its special needs in relation to physical therapy

Course Contents: All sections carry equal weightage

MEDICINE

Section -- A

1. Introduction: Brief outline of subject of medicine, a medical patient, common signs & symptoms of disease

 Infectious Diseases: Brief description of concept of infection, types, classification & common clinical manifestation of infection and general principle of management (No specific infections)

3. Nutritional & Metabolic Diseases: Brief description of following diseases along with outline of management: Diabetes Mellitus, Vitamins (A, B, C, D & K) and Minerals (iron, calcium phosphorus, iodine) deficiencies, and Obesity

4. Alimentary tract: Brief description of manifestations of alimentary tract disease & general principle of diagnosis & outline of management of following diseases: Peptic ulcer disease, common infections of small & large intestine

5. Brief description of liver diseases along with outline of management Tiepatitis, & Jaundice

6. Diseases of the blood: Brief description of manifestations along with outline of management of common blood diseases - Anaemia, Leukaemia, Coagulopathy

7. Diseases of connective tissues: Brief description of manifestations along with outline of management of - SLE, polymyositis

8. Diseases of skin: Brief description of manifestations along with outline of management of common skin diseases - scabies, pediculosis, taeniasis, impetigo & psoriasis

9. Geriatrics- physiology of ageing, manifestations of diseases in old people and general principles of management. Implications of aging in physical therapy, lung disease, Pleurisy & Pulmonary embolism

10. First Aid in common Medical Emergencies

Section - B

- 11. Cardio-vascular System: Manifestations of heart & vascular disease & general principle of diagnosis. Brief description of following diseases along with outline of management: Cardiac failure, Ischaemic heart disease, hypertension, atherosclerosis, Deep vein thrombosis
- 12. Respiratory System: Manifestations of respiratory disease & general principle of diagnosis. Brief description of following diseases along with outline of management Obstructive Pulmonary diseases (Bronchial Asthma, COPD), pulmonary infections (Pneumonia, Bronchitis, Lung abscess, Tuberculosis), Respiratory failure, occupational

PAEDIATRICS

Section - C

- 1. Normal Growth and development of child motor, mental, language and social
- 2. Pathological presentations of growth and development disorders
- 3. Common infectious diseases in children: Brief description of following infectious diseases along with outline of management: Tetanus, diphtheria, Mycobacterial, measles, chicken pox, gastroenteritis, HIV, and Malaria
- 4. Immunization programmes WHO schedule, different vaccinations, rationale; special consideration to various disease eradication programmes like Pulse-Polio
- 5. Child and nutrition Nutritional requirements, malnutrition syndrome, Vitamins (A, B, C, D & K) and Minerals (iron, calcium phosphorus, iodine) deficiencies in children and management in brief
- 6. Clinical presentation, management & prevention of the following: Cerebral palsy, Poliomyelitis, Muscular dystrophy
- 7. Childhood rheumatism-types, clinical presentation, & management in brief
- 8. Acute CNS infections: clinical presentation, complications and management of bacterial and tubercular infections in brief
- 9. Clinical presentation, management & prevention of the following respiratory conditions: URI, LRI, bronchiolitis, asthma, TB (in brief)
- 10. Clinical presentation, management & prevention of the following cardiac conditions: Rheumatic heart disease, SABE, Congenital heart disease ASD, VSD, PDA (in brief)

Suggested Readings:

S.No.	Author	Title	Publisher	Year	Vol.
1	Chemberlin, E.N.	Symptoms and signs in Clinical Medicine	Jhon Wright	1974	
2	and Ogilvie, C. Swash, Michael	Hutchison's Clinical Methods	W B Saunders, London	5000 	4
3	Gĥai, O. P.	Essential Pediatrics	Interprint, New Delhi	1987	
:1	Haslett, C.	Davidson's Principal and Practice of Medicine	Churchill Livingstone,	1999	
·.)	Golwalla, Aspi F.	Medicine For Student	NBD, Mumbai	2003	
6	Behrman, R.	Nelson's Text Book of Pediatrics	W B Saunders, London	2001	.2V
ï	Kasper, D.L	Harrison 's Principles of Internal Medicine	Mc-Graw Hill, New York	2005	2V

BACHELOR OF OCCUPATIONAL THERAPY (BOT)

SECOND YEAR

GENERAL SURGERY (INCLUDES CARDIO-THORACIC, VASCULAR & NEUROSURGERY)

Course Code: BOT 204 _____ T/P = 0 CREDITS = 4

Course Objectives:

a) To understand common surgical conditions & surgical procedures.

b) To understand implication of surgical conditions, procedures on physical therapy.

Course Contents: All sections carry equal weightage

Section · A

1) Introduction to Surgery, surgical patient, principles of surgical examination (Brief description)

2) Anesthesia: Brief description of events of General Anesthesia, potential complications & outline of management

 Common types of wounds, scars, ulcers, boils - clinical feature and out line of treatment

4) Burns; causes, classification, complications, conservative management of patients. Management of burns & wound scars

5) Brief outline of nutritional support, pain relief of a surgical patient

6) Abdominal wall: brief surgical anatomy

 a. Brief description of various types of abdominal incisions, external opening of abdominal viscera (colostomy) resultant potential complications and management

b. Brief description of causes, clinical presentation and management of various types of hernias

7) General principles of plastic surgery and postoperative management

Section - B

8) Cranium:

a. Head injuries - classification, clinical features, complications & management

b. Intra-cranial disorders – clinical features, complications & management of brain abscess, space occupying lesion, hydrocephalus, vascular malformation (brief)

9) Nerve injuries – causes, clinical features of Cranial (V, VII) & peripheral nerve injuries (major nerves), complications & management

10) Vertebral column injuries - classification, clinical features, complications & management

Section - C

- 11) Vascular Disorders: clinical features, complication & management of Arterial occlusion, dilatations, arteritis, small vessel abnormalities
 - a. Gangrene classification, brief clinical features & management

b. Amputations - causes & types

- c. Superficial & deta vein thrombosis pathogenesis, prevention & management.

 Lymph edema brief outline of causes, clinical features & management
- 1.2) Thoras:

a. Chest injuries - classification, causes, clinical features, complications & management Pulmonary resection - causes, outline of surgical management, pneumothorax, haemo - pneumothorax

b. Heart: - brief description of various surgical heart diseases with respect to clinical presentation, complications and management - valvular heart disease, congenital heart disease -e.g., ASD, VSD, PDA, Ischaemic heart disease. Outline of postoperative complications in cardiac surgery and their management

c. Brief description of first aid principles of cardio-pulmonary resuscitation and

trauma

Suggested Readings:

S.No.	Author	Title	Publisher	Year Vol.
1	Russell, R.C.G.	Short practice In Surgery	Arnold, London	2000
2	Gupta, R. L.	Text Book of Surgery	Jaypee, New Delhi	1996

BACHELOR OF OCCUPATIONAL THERAPY (BOT)

SECOND YEAR

Ergo-therapeutics-I

(Therapeutic Management Tools in Occupational Therapy)

Course Code: BOT 205

SECTION I

1. Selection of the appropriate assessment / evaluative tools

2. Theoretical bases of O.T. intervention (Theories and Frames of reference).

3. Tools of practice

therapeutic use of self (i)

(ii) group process

(iii) use of activities

(iv) problem-solving

(1) therapeutic adaptations

U/E splinting (purpose, classification nomenclature components, fundamental concepts. principles of splinting, application & management),

Functional Bracing - Define, concept of FB. Material used & Its advantages.

Assistive & adaptive equipment {including ambulatory & mobility aids (wheelchair: assessment of the individual, types of w/c, components, w/c prescription, maintenance, maneuvering, w/c

Technology (including the use of Biofeedback).

4. Work simplification, energy conservation and joint protection techniques.

SECTION II

Specific Treatment Considerations

1. Performance Components

- desensitization & sensory re-education (a)
- (b) muscle re-education
- maintaining & increasing ROM (c)
- maintaining & improving muscle strength (d)

maintaining & improving endurance (e)

motor control, performance & behavior { Rood's, PNF, Bobath, Brunnstrom, (f) Motor Relearning Program, Task - Oriented Approach}

2. Performance Areas

- (a) ADI.
 - Learning
 - Adaptation
 - ADL methods (transfers, self-care, medication routine health maintenance. Socialization functional communication & mobility community mobility, emergency response .sexual expression)
- b) Work and Productive Activities
 - Home management
 - Care for the others

Educational Activities

Vocational activities (including work hardening & conditioning)

Play & Leisure Activities

Definitions & Theories of Play (Erikson, Freud, Piaget, Reilly) Play & Leisure exploration

Social physical, sensory, emotional, perceptional, cognitive content & structure of play Role of play in Occupational Therapy process.

Improving performance in Play & Leisure activities

3. Performance Contexts

Person -Task- Environmental models (Person capabilities. Environmental demands, performance discrepancy) Models for function & dysfunction O.T.approaches to performance discrepancy Clinical decision- making guide for P-T-E Interventions Target outcomes (adapt, alter, prevent, create, establish or restore)

Name of Books with Authors

S.No.	Name of Books with Authors	
1	Occupational Therapy by "Will- Lo o	Edition
2	Occupational Therapy by "Willard & Spackman"	8th
3	OT for Physical Dysfunction by "Pediritti"	5th
1	Psychosocial Concepts of OT by "Mosey"	
	Of for Children by "Allen & Pratt"	+
<u> </u>	Motor Relearning Programme by "Corr & Shorts III	+
6	OT for Physical Dysfunction by "Catherine and trombley"	
	y Catherine and trombley"	5th

BACHELOR OF OCCUPATIONAL THERAPY (BOT)

SECOND YEAR

Ergo-therapeutics-II (Activity Analysis and Biomechanics)

Course Code: BOT 206

SECTION-I

- 1. Historical overview of goal directed behavior & activity analysis
- 2. Defining crafts & activities
- 3. Systems theory
- 4. Integration of early concepts: mind / body unity & lifestyle
- 5. 'Categories of activities
- 6. Model of balance between client skill & task difficulty
- 7. Characteristics of O.T. activities
- 8. Activity analysis
 - (i) Task focused activity analysis (including constraints)
 - (ii) Theory focused activity analysis
 - (iii) Individual focused activity analysis
- 9. Analysis procedures
- 10. Activity selection general & criteria (including psychosocial properties of activities). Activity
- 12. Therapeutic teaching &-learning process
- 13. Knowledge of different machines and equipments used in occupational therapy.
- 14. Knowledge of tools, equipments, materials and their therapeutic value in occupational therapy. 15. Physical agent modalities in Occupational Therapy.

SECTION - II

BIOMECHANICS & KINESIOLOGY

- Essential concepts
 - Motion and forces a)
 - Force distribution linear force, resultant force & equilibrium, parallel forces in one plane. b) Newton's laws - Gravity and its effects on human body c) d)

 - Forces and moments in action e) 1)
 - Concepts of static equilibrium and dynamic equilibrium 끄)
 - Composition and resolution of forces h)
 - Friction
- Kinematic concepts -11;

Kinematic aspects of limb movement

Classification of levers

Physiological significance of negative mechanical advantage Muscle function and performance

IV) Hip joint kinematics- motion and forces of hip joint, Two leg stances and one leg stances, Varus and valgus of femoral neck, Other factors affecting hip joint forces, Effect of cane by lever approach

V) Knee and leg kinematics-Motion & Forces of knee joint, Patello-femoral joint

VI) Ankle and foot Kinematics-Motion & Forces of ankle, Stability of ankle joint, Weight bearing on foot, Arches of foot

VII) Biomechanics of gait
Gait cycle
Parameters of gait
Myokinetics of human gait
Gait deviations
Crutch and cane exercises

VIII) Posture
Anatomical aspects of posture
Factors affecting posture

IX) Biomechanics of Upper Extremity
Shoulder Joint
Elbow Joint
Wrist Joint & Hand

IX) Vigorious movement

S.No.	Name of Books with Authors	
1	Occupational Therapy by "Willard & Spackman"	Edition
2	OT for Physical Dysfunction by "Pediritti"	8th
3	Biomechanics by "Norkin's"	5th
4	Occupational Therapy by "Christensen & Baum"	4
	Diotriechanics by "OTTIS"	
6	OT for Physical Dysfunction by "Catherine and trombley"	
	" Catherine and trombley"	5th

BACHELOR OF OCCUPATIONAL THERAPY (BOT)

SECOND YEAR

Ergo-therapeutics-I
(Therapeutic Management Tools in Occupational Therapy)

Course Code: BOT 252 L-0 T/P-7 CREDITS -

Identify prostheses, ortheses, wheelchair, aids and appliances and name their components and Cutting templates for hand and

Cutting templates for hand splinting (on paper) and fabricating different hand splints.

BACHELOR OF OCCUPATIONAL THERAPY (BOT)

SECOND YEAR

Ergo-therapeutics-II
(Activity Analysis and Biomechanics)

Course Code: BOT 253	<u> </u>	CREDITS -
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ake 2 projects or perform activities and do activities analysis for these. entify tools and demonstrate their uses and therapeutic values with adaption. iva on equipment and machines used in O.T. iva on Biomechanics & Kinesiology

BACHELOR OF OCCUPATIONAL THERAPY (BOT)

THIRD YEAR

Neurology

Course Code: BOT 301 T/P - 0CREDITS - 4

Course Objectives:

To understand clinical manifestations of Neurological and Psychological disorders a) b) C)

The rationale and implications of psychological disorders on disability

To understand the management of neural & psychological disorders

ourse Contents: All sections carry equal weightage

Section - A (Neurology)

Nervous system: Disorders of Neurological functions in the light of Anatomy and Physiology (Brief description only) - Cerebrum, Cerebellum, Spinal Cord, Major Nerve Tracts, Motor System, Sensory System, Autonomic System, Reflexes, Communication &

Clinical examination of a neurological patient

General manifestations of nervous system disease & principles of diagnosis &

Brief Description of Headache, migraine, raised intra-cranial pressure

Cranial Nerves and special senses with major emphasis on V, VII, X, XI, & XII

Inflammatory conditions (brief description) - meningitis (bacterial, tubercular), viral encephalitis, syphilis, rabies

Disorders of cerebral circulation - ischaemia, haemorrhages (CVA), HT encephalopathy

Demyelinating diseases (brief description) - acute disseminated encephalomyelitis,

Extra pyramidal syndromes - Parkinson's disease, Chorea, Athetosis, Dystonia, Hemiballismus, Spasmodic Torticollis

Convulsive disorders (brief description) - epilepsy (GM, PM, Psychomotor), tetany

Developmental and degenerative syndromes – cerebral palsy, kernicterus, hereditary ataxias, motor neuron disease, Peroneal muscular atrophy

Section - B

- Disorders of Spinal cord and Cauda Equina- spinal cord injury, paraplegia, quadriplegia, spina-bifida, transverse myelitis, Neurogenic bladder and bowel
- Metabolic and intoxication disorders (brief description) Alcoholism, Drug addiction, heavy metals poisoning (lead, mercury, copper), Organo-phosphorous poisoning,
- Peripheral nerve disorders traumatic/ compression or entrapment neuropathy, polyneuritis, GB syndrome, diabetic polyneuropathy and spinal radiculopathies. Special emphasis on brachlal and lumbo-sacral plexuses and major nerves - radial, ulnar,
- Muscle disorders Progressive muscular dystrophy, polymyositis, myasthenia gravis,
- Autonomic nervous system (brief description) clinical features of autonomic disorders, autonomic dysreflexia, autonomic nervous system and pain

Suggested Readings:

S. No.	Author	Title	Publisher	Year	Vol.
1	Bannister, R.	Brain and Bannister Clinical Neurology	Oxford university press, oxford	2002	
2	Chamberlain, E.N.	Symptoms and Signs in Clinical Medicine	John Wright, Bristol	1974	
3	Friedman, H.H.	Problem-Oriented Medical Diagnosis	Little Browne, Boston	1979	! : 3V
4	Swash, Michael	Hutchison's Clinical Method	W B Saunders, London	2000	i
5	Rees, Lingford	New Short Text Book Of psychiatry	Arnold, New Delhi	1988	
6	Walton, John	Brain's Disease of the Nervous System	Oxford university press, Delhi	1998	! ·
1	Haerer, A.F.	Neurological Examination	Lippincott, Philodelphia	1999	
8	Ahuja, Neeraj	Short Text Book Of psychiatry	Jaypee, New Delhi	1999	i i
9	Haslett, C.	Davidson's Principal and Practice of Medicine	Churchill Living stone, London	1999	
10	Kaspef, D.L	Harrison 's Principles of Internal Medicine	Mc-Graw Hill, New York	2005	2V

BACHELOR OF OCCUPATIONAL THERAPY (BOT)

THIRD YEAR

ORTHOPAEDICS

Course Code: BOT 302 T/P - 0 CREDITS - 4

Course objectives:

1. To understand an orthopaedic patient, common orthopaedic conditions and procedures
2. To understand applications of physical therapy in various orthopaedic conditions
3. To understand the implications of various orthopaedic conditions, and procedures on

Course Contents: All sections carry equal weightage

Section - A

1. Introduction to Orthopaedics: An Orthopaedic patient, history taking, clinical features,

2. Fracture healing (Normal & pathological)

Calcium-phosphorus metabolism - normal and pathological states 3. Congenital malformations:

Brief descriptions of following congenital conditions along with the outline of treatment: Congenital Hip Displasia, Congenital Talipes Equinovarus / Calcaniovalgus, Arthrogryposis Multiplex Congenita, Congenital Torticolis, Acromelia, phocomelia, Amelia, Spina Bifida: all types, clinical presentation, sequel & management

4. Development diseases of skeleton: (Brief description only)

Osteogenesis imperfecta, heterotopic ossification, Osteochondritis, Perthes' disease 5. Neuromuscular diseases:

Volkmann's Ischaemic contracture, obstetrical paralysis, and peroneal muscular

Poliomyelitis – orthopaedic aspects and treatment of deformities

6. Spinal deformities: clinical features, diagnosis & Conservative management of Scoliosis,

7. Infections of Musculoskeletal system with conservative management (in brief):

b. Tubercular infections

c. Leprosy, Pott's paraplegia

8. Neuro-vascular Diseases (Brief Description): orthopaedic aspects and treatment of -

Section - B

9. Arthritis & Rheumatic Diseases: Clinical features, evaluation & conservative I. Rheumatold arthritis, Juvenile Ch. Arthritis, Reiter's disease II. Polymyalgia rheumatica,

iil. Gout,

iv. Osteoarthritis,

v. Ankylosing spondylitis,

vi. Neuropathic joints, haemophilic arthropathy,

vii. Avascular necrosis.

10. Bony & Soft tissue injuries: injury & repair, Clinical presentation, evaluation & general principles of rehabilitation management (Brief Description)

11. Upper Limbs: Clinical presentation, evaluation & conservative management of rotator cuff injuries, adhesive capsulitis, bursitis, biceps tendonitis, shoulder dislocation, snapping & winged scapula, tennis and golfer elbow, olecranon bursitis, soft tissue injuries, sprains and strains, Arthritic conditions, tenosynovitis, Carpal tunnel syndrome, fractures and dislocation.

Section - C

12. Lower Limb: Clinical presentation, evaluation and conservative management of Arthritic conditions, soft tissue injuries, sprains and strains, achillis tendonitis, bursitis, plantar fascitis, deformities, reflex sympathetic dystrophy, neuropathic Joints, common fractures and dislocations

13. Spine: clinical presentation, evaluation and conservative management of - disc prolapse, cord compression, spondylosis, Ankylosing spondylosis, Soondylyolisthesis

14. Amputations - Justification, outline of surgical approaches, incisions, procedures, indications, contraindications, complications & management.

Suggested Readings:

S.No.	1	. Title	Publisher	Table 1
1	Joshi, J. and Kotwal, P.	Essential Of Orthopedics and Applied Physiotherapy	Elsevier, New Delhi	Year Vo
2	Terke, Samual L.	Orthopedics: principles and their application	Lippencott, New York	2000 2V
3	Magee, David J.	Orthopedic and Physical Assessment	Saunders, Philadelphia	2002
4	Maheshwari, J	Essential Orthopedics		
5	Solomon, Louis	Apley's Systems of Orthopedics and Fracture	Arnold, London	2001
s 	McRae, R. and Esser, Max	Practical Fracture Treatment	Churchill Living stone, London	2002

BACHELOR OF OCCUPATIONAL THERAPY (BOT)

THIRD YEAR

Psychiatry

Course Code: BOT 303 L- 2 T/P-0 1. Brain and Behavior

(neuroanatomy, neuropsychiatry, brain imaging, neurophysiology & neurochemistry, behavioral

- 2. Contributions of the psychological sciences to human behavior (theories, accidents, injuries, ethology, experimental disorders and sociobiology, anthropology etc.)
- 3. Psychometric neuropsychological testing
- 4. Theories of personality and psycho pathology
- 5. Clinical examination of the psychiatric patient
- 6. Typical signs and symptoms of psychiatric illness defined
- 7. Classification in psychiatry and psychiatric rating scales
- 8. Delirium, dementia and amnestic and other cognitive disorders due to a general medical condition
- 10. Substance related disorders
- 11. Schizophrenia
- 12. Other psychotic disorders
- 13. Mood disorders
- 14. Anxiety disorders
- 15. Somatoform disorders
- 16. Factitious disorders, Dissociative disorders
- 17. Human sexuality
- 18. Gender identity disorders
- 19. Eating disorders
- 20. Normal sleep & sleep disorders
- 21. Impulse control disorders not classified else where
- 22. Adjustment disorders
- 23. Personality disorders
- 4. Problems related to abuse or neglect
- 5. Psychiatric emergencies
- 6. Psychotherapies
- Psychoanalysis and psychoanalysis psychotherapy brief psychotherapy and crisis intervention group sychotherapy combined individual and psychodrama, family therapy, marital therapy, biofeedback, 7. Biological therapies
- 8. Child psychiatry assessment, examination and psychological testing
-). Learning disorders
- . Developme... Idination disorders 2. Pervasive development disorders, attention deficit disorders

- 33. Feeding, eating disorders of infancy or early childhood 34. Tics disorders
- 35. Elimination disorders
- 36. Other disorder of infancy, child hood, adolescence 37. Psychiatric treatment of children and adolescents
- 38. Geriatric psychiatry

S.No.	Name of Books with Authors	Edition
1	Text Book of Psychiatry By "Kaplan"	Luttion
2	Psychiatric Conditions by "Neeraj Ahuja"	
3	Text Book of Psychiatry by "M S Bhatia"	

Edition
,

BACHELOR OF OCCUPATIONAL THERAPY (BOT)

THIRD YEAR

Work Physiology & Ergonomics

C	Course Code: BOT 304	
	Course Code: BOT 304 L = 2 T/P = 0 CREDITS =	. 4
SEC	SECTION I WORK PHYSIOLOGY	100 1
	·	
J) rhysical performance. Actoric & anacronic processes, physiology of actoric exercises.	ани анастоогс
2)	Evaluation of physical performance, tests of maximum aerobic power and a	aerobic power
()	master step test tread mill bicycle ergometry, measurement of oxygen uptake Principles & methods physical training.	
·)	Applied work physiology: energy owner dity	
)		
)	Temperature regulation.	
)	Factors affecting performance.	
	y actions directing performance.	
ECT	ECTION II ERGONOMICS	
)		
)	Anthropometry – definition, facets, purpose and methods of carrying out stud application.	ies, principles in
)	Environmental physiology – types of environment their effect on human body	
)	Man-machine oriented topics functioning of man-machine system, informati theory.	on-processing
)		
)	Layout of equipment, design of seating displays characteristics of control &	
)	Environmental factors: temperature, humidity, noise, vibration, and visual enpollution.	compatibility. vironment
)	Safety factors- accidents and their prevention	
)) Outline of methods man-product analysis	
0)	0) Scope of ergonomics in modem industrial society	

1)

Application of ergonomics of O.T.

BACHELOR OF OCCUPATIONAL THERAPY (BOT)

THIRD YEAR

Occupational Therapy in Medical Conditions

Course Code: BOT 305.		SEE SECTION		
Ed Code. BO1 303.	 <u>L -</u> 4	T/P -	CDEDITO	
			CREDITS -	8

Review of the pathological changes and principles of management by Occupational therapy in the

Section - I General Medicine

Correct to

RIFSE A

- 1. Inflammation acute, chronic and suppurative.
- 2. Oedema Traumatic, obstructive, paralytic, Oedema due to poor muscle and lamity of the fascia.

alter on

- 3. Common condition of Skin Acne, Psoriasis, Alopecia, Leucoderma, Leprosy, Sexually
- 4. Deficiency Diseases Rickets, Diabetes, Obesity, Osteoporosis & other deficiency disorders

Section - II Respiratory Conditions

- A. 1. Review of mechanism of normal respiration.
 - 2. Chest examination, including auscultation, percussion.
 - 3. Knowledge of various investigative procedures (invasive & noninvasive used in the diagnosis
- B. Review of the pathological changes and principle of management by OT of the following
- 1) Bronchitis, Asthma, Lung abscess, Bronchiectasis, Emphysema, COPD.
- 2) Pleurisy and Empyema, Pneumonia.
- 3) Bacterial diseases
- 4) Rheumatic fever, carcinoma of respiratory tract.
- 5) Paralysis of diaphragm & vocal cords.
- 6) Chest wall deformities.

ection - III Cardiovascular Conditions

- Review of anatomy and physiology of the cardiovascular system. 1.
- Knowledge of various investigative procedures (invasive & noninvasive) used in the 2. diagnosis of various cardiovascular disorders. 3.
- Review of the pathological changes and principles of management by OT of the following conditions: Thrombosis, Embolism, Buerger's diseases, Arteriosclerosis, Thrombophlebitis. Gangrene, Congestive Cardiac failure, Hypertension, Hypotension - Aneurysm.

ection -IV

. Review of the examination and assessment of a paediatric patient

. Review of the pathological changes and principles of management by OT of the following conditions.

Common congenital and acquired me. 'o- skeletal disorders.

Common congenital and acquired neurological disorders (CNS and PNS).

3. Common hereditary disorders.

4. Common nutritional, metabolic and vitamin deficiency disorders.

ection V Geriatrics

Review of the examination and assessment of a geriatric patient.

Review of the pathological changes and principles of management by OT of the following conditions: 1. Musculo - Skeletal disorders.

2. Cardiopulmonary disorders.3. Neurological disorders (CNS & PNS)

4. Injuries and accidents specific to the aged.

ction - VI

ccupational Therapy in Visually Impaired & blind, Hearing Impaired & deaf, Speech problem & dumb

Various models, frames of references in occupational therapy (in details)

Physical Agents Modalities as an adjunct to OT.

Various Approaches - Rood's, Bobath, S.I, .M.R.P, Brunnstrom

S.No.	Name of Books with Authors	
1	Text Book of Occupational There are I Marin	Edition
2	Text Book of Occupational Therapy by "Willard & Speckman	8,9, 10th
		4th & 5th
4	OT for Physical Dysfunction by "Pederitti"	
5	OT for Children by "Allen & Pratt"	5th
0	Frame of Reference by "Kramer"	
7	M R P by "Carr and Shephard"	

BACHELOR OF OCCUPATIONAL THERAPY (BOT)

THIRD YEAR

Occupational Therapy in Surgical Conditions

Course Code: BOT 306

Review of the pathological changes and principles of pre and post operative management by OT of the Section -1

Thoracic Surgery

or in a

Lobectomy, Pneumonectomy, Thoracotomy, thoracoplasty, Endoscopic and eye hole surgeries.

. Corrective surgeries of congenital heart defects, angioplasties, blood vessel grafting. open heart

ection - II General Gynaecology and Obstetrics and ENT

Common abdominal surgeries, including GIT, liver, spleen, kidney, bladder, etc.

Common operation of reproductive system, including surgical intervention for child delivery. Ante

Common operations, of the ear, nose, throat and jaw as related to OT

Common organ transplant surgeries - liver, bone marrow, etc.

ction- III Wounds, Burns and Plastic Surgery

Wounds, ulcers, pressure sores.

Burns and their complications.

Common reconstructive surgical procedures for the management of wounds, ulcers, burns and ction – IV

Neurosurgery

Common surgeries of the cranium and brain

Common surgeries of the vertebral column and spinal cord.

Common surgeries of the peripheral nerves.

urgical interventions in traumatic head injuries.

ion – V

Cancer Rehabilitation

ventive, Restorative, Supportive & Palliative aspect of Radical Mastectomy, Head & Neck cancer,

S.No.	Name of Books with Authors	
1	Text Book of Occupational Therapy by "Willard & Speckman	Edition
2		
3	Occupational Therapy by "Turner"	4th & 5th
4	OT for Physical Dysfunction by "Dodositi"	
5	OT for Children by "Allen & Pratt"	5th
6	Frame of Reference by "Kramer"	
7	M R P by:"Carr and Shephard"	
8	Operative Surgery by "S Das"	

BACHELOR OF OCCUPATIONAL THERAPY (BOT)

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THIRD YEAR

Occupational Therapy in Medical Conditions

Course Code: BOT 3:5:2 L-0 T/P- 7 CREDITS - 7

cupational Therapy evaluation and assessment using standardized and non-standardized methods ting goals for intervention based on the Models and Frames of references nical demonstrations of the approaches used atment planning, implementation, termination and follow-up

JURU GOBIND SINGH INDRAPRASTHA UNIVERSITY, DELHI BACHELOR OF OCCUPATIONAL THERAPY (BOT)

THIRD YEAR

	14 M.A.	9.0	
urse Code: BOT 3:5:3	*		
			EVITO
		, — ZDF	DIIS - X

CUPATIONAL THERAPY IN SURGICAL CONDITIONS -

cupational Therapy evaluation and assessment using standardized and non-standardized and methods ting goals for intervention based on the Models and Frames of references nical demonstration of the approaches used atment planning, implementation termination and follow-up.

BACHELOR OF OCCUPATIONAL THERAPY (BOT)

FOURTH YEAR

COMMUNITY REHABILITATION & DISABILITY PREVENTION

Course Code: IBOT 401_

Course objectives:

a) To understand the concept of Rehabilitation and team approach.

b) Principles of Physiotherapy in Rehabilitation.
c) Disability evaluation & management.
d) Application of Physiotherapy at community level.

Course Contents: All sections carry equal weightage

REHABILITATION

Section - A

Introduction of Rehabilitation & History 1.

Epidemiology of disability (Impairment, disability, phases of disability process, etc.). 2.

Principles of Rehabilitation & concept of team approach with rolls of each individual 3. participant.

Organization of Rehabilitation unit. 4.

Disability prevention eva Jation & principles of Rehabilitation Management. 5.

Role of Physiotherapy in Rehabilitation (Preventive, treatment & restoration) 6.

Section - B

- Brief outline of Communication disorder & its implications on Rehabilitation process. 7.
- Brief outline of psychosocial & vocational aspects of Rehabilitation. 8.

Introduction to Occupational therapy.

10. Activities of daily living, functional assessment & training for functional independence.

Brief outline of basic community medicine with special reference to community based

Rehabilitation, infrastructure and role of CBR

12. Assessment of disability in rural & urban setups. Health care delivery system & preventive measures with specific reference to disabling conditions. Community" education programme.

13. Application of Physiotherapy skills at community level with special reference—to the

need at rural level.

BIO-MEDICAL ENGINEERING

Section - C

1. Introduction to surgical anatomy and various pathological deviations with respect to brace fitting (brief outline only).

Rationale of prescribing Prosthetic and Orthotic devices.

3. Types of Prosthetic and Orthotic devices: Spinal, Lower limb, and Upper limb.

4. Checkout, usage advice, precautions, and follow-up.

5. Walking aids and wheel chairs: prescription, usage advice, and follow-up.

Suggested Readings:

5. No.	Author	Title	Publisher	Year	Vol
Ĺ	Park, J.E.	Text Book of Preventive and Social Medicine	Banarsidas, Jabalpur	1987	
2	Pedretti, L.W.	Occupational Therapy: Practice skill	Harcourt-Brace, New York	1990	
3	Sunder, S.	Rehabilitation Medicine	Jaypee, New Delhi	1999	
4	Bates, Barbara	Physical Examination and History Taking	J.B.Lippincott, Philedelphia	1995	
5	Mackee, Pat	Orthotics in Rehabilitation	Jaypee, New Delhi	1998	
6	W.H.O.	Disability Prevention and rehabilitation In primary Health Care: Guide for District Health and Rehabilitation Managers	W.H.O	1995	
7	Lusardi, M.M. and, Nielsen, C.C.	Orthotics and Prosthetics In Rehabilitation	Butter worth- Heine, Woburn	2000	
8	Delisa, Joel A.	Rel abilitaion Medicine: Principal and Practice	J.B.Lippincott, New York	1998	
9	Braddom, Randall	Physical Medicine and Renabilitation	W B Saunders, New York	2000	
10	Sharwan Kumar	Multidisciplinary Approach to Renabilitation	Butter worth- Heine, New York	2000	
11	W.H.O.	Community- Based Rehabilitation and The Health Care Referral Services: Guide for Programme managers	W.H.O.	1994	1
12	Kottke, and Lehmann	Handbook of Physical Medicine and Rehabilitation	W B Saunders, London	199	0

BACHELOR OF OCCUPATIONAL THERAPY (BOT)

FOURTH YEAR

RESEARCH METHODOLOGY & BIO-STATISTICS

Course Code: BOT 402

_ - 2

T/P - 0

CREDITS - 4

Course Contents: All sections carry equal weightage

SECTION-A (BIOSTATISTICS)

1) Definition - Statistics, Biostatistics

2) Applications of Biostatistics

3) Data collection from experiments & surveys.

4) Variable - Qualitative & Quantitative, Discrete and continuous.

5) Presentation of Data: -

a) Tabular Presentation of Data - Statistical Table, Format of a Table.

- Frequency Distribution construction of Frequency Distribution, cumulative and relative frequency distribution, Exclusive and inclusive method of classification of Data.
- Diagrammatic Presentation of Data: Bar Diagrams, Pie Diagram, Line Diagram, Pictogram, Cartogram or Statistical map.

d) Graphical representation of a Frequency distribution – Histogram, Frequency

Polygon, Frequency curve, ogives or cumulative frequency curves.

- 6) Measures of central tendency or measures of Location Mean, Median Mode in ungrouped & grouped series. Partition Values - Quartiles, Deciles, Percentiles in ungrouped & grouped series. Graphical Determination of Median, Mode & partition values.
- 7) Measures of Dispersion or Variation Range, Mean Deviation, Standard Deviation.

8) Measures of Skew ness - Pearson's and Bowley's coefficient of Skew ness.

9) Probability - Random experiment, sample space, events, probability of an event, addition & multiplication laws of probability, use of permutations & combinations in calculation of probabilities, random variable, probability distribution of a random variable, Binomial Distribution.

10) Normal Distribution & Characteristics of Normal curve.

SECTION-B (BIOSTATISTICS)

- 11)Correlation Blyarlate distribution, scatter diagram, coefficient of correlation, calculation & interpretation of correlation coefficient.
- Regression Lines of regression, calculation of Regression coefficient.

13) Sampling - Methods of Sampling.

14)Sampling Variability & significance - Sampling Distribution, Standard error, null hypothesis, alternative hypothesis, Type I & Type II errors, tests of significance, acceptance 7 rejection of null hypothesis, level of significance, Z test, t test (paired & unpaired), chi-square test.

15) Estimation of confidence 'imits & intervals.

16) Vital Statistics

1) Rates & ratios of vital events.

- 2) Measures of Mortality: Crude Death Rate, Specific Death Rate, Age Specific Death Rate, Standardized Death Rates, Infant Mortality Rate.
- 3) Measures of Fertility: Crude Birth Rate, General Fertility Rate, Specific Fertility Rate, Age Specific Fertility Rate, And Total Fertility Rate.

- 4) Measurement of Population Growth: Crude Rate of Natural Increase & Pearli's Vital Index, Gross Reproduction Rate, Net Reproduction Rate.
- 5) Measures of Morbidity: Morbidity Incidence Rate, Morbidity Prevalence Rate.

6) Life Tables or Mortality Table.

SECTION C (RESEARCH METHODOLOGY)

Objectives:

To develop skills of critical thinking and selection of research strategy. a)

To acquire skills to review literature, formulate problems, research writing and publishing. Clinical Research for Occupational Therapy Why? How? And When?

A) Research in Occupational Therapy

1. Introduction

2. Research - types, concept, definition.

Selection of aim and objectives.

Principles of methodology, analysis and report writing.
 Concepts of Measurements:

1. Direct and indirect measurement variables.

2. Reliability and validity.

3. Application of | Occupational thatests and measurements.

C) Research Design-

Principles of designing.

2. Methods - Descriptive, Exploratory, single subject, others.

3. Design models utilized in physiotherapy.

4. Design of model for fundamental and clinical research.

Interpretation of experimental findings:

1. Collection and Interpretation data theory.

2. Data review.

3. Interpretation of fundamental and clinical research.

Suggested Readings:

S. No.	Author	Title	Publisher	Year Vol.
1	Armstrong, H.B.	Critical Moments in Quantitative Research	Butter worth- Heine. , Oxford	2001
2	Hollis, M. and Cook, P.F.	Practical Exercise Therapy	CBS, New Delhi	1999
3	Gardiner, Principles of Exercise Dena Therapy CBS, New Delhi		1999	
4	Lippert, Lynn	Clinical Kinesiology for Physical Therapy	Jaypee New Delhi	
5	Pagliarulo, M.A.	Introduction to Physical Therapy	Mosby, London	2001
6	Jones,	Human Movement Expalained	Butterworth Heine	2000

BACHELOR OF OCCUPATIONAL THERAPY (BOT)

FOURTH YEAR

Occupational Therapy in Neurological Conditions

Course Code: BOT 403 T/P - 0 CREDITS - 6 NEUROLOGY

Section - I.

- 1. Examination of neurological disorders and principles of treatment
- 2. Knowledge of various investigative procedures used in diagnosis of neurology disorders
- 3. Development programs, reduction techniques and substitution therapy in various conditions. approach like: Bobath, Rood, Bio-feedback etc. Gait training etc. Congnito-motor perceptual skills evaluation, Scales used, training & model of cognitive Rehab.
- Review of pathological changes and principles of management by occupational therapy of the
 - a) Hemiplegia, paraplegia ,tabes dorsalis , cerebellar ataxia extra pyramidal lesions. GBS,
 - b) Disseminated sclerosis, amyotrophic lateral sclerosis, syringomylia, sub-acute combined degeneration of cord, motor neuron diseases, Mysthenia gravis & other demylinating
 - c) Cranial nerve lesions & Dysphagia
 - d) Neuritis and Neuralgia
 - e) Infections- poliomyelitis, meningitis, encephalitis & HIV
 - f) Neuropathies and myopathies
 - g) Spinal cord injury
 - h) Peripheral nerve injuries

Section - II

NEUROSUF.GERY

- 1. Indication, contraindications and brief procedures of common neurosurgeries.
- 2. Pre and post operative O.T. assessment and management
- 3. Complications of neurosurgeries and their precautions and management
- 4. Electrodiagnostic procedures ,prognosis etc. in various neurosurgical procedures.

S.No.	Name of Books with Authors	
1	Text Book of Occupational Thorse I many	Edition
2	Text Book of Occupational Therapy by "Willard & Speckmar OT in Physical Dysfunction By "Catherine & Trombley"	8,9, 10th
3	Occupational Therapy by "Turner"	4th & 5th
4	OT for Physical Dysfunction by "Pederitti"	
5	Neurological Rehabilitation by "Umphred"	5th
6	Neurological Assessment by "D'Jongs"	
7	Clinical Neurology by "Brain & Bannister"	
	ology by Brain & Bannister"	

BACHELOR OF OCCUPATIONAL THERAPY (BOT)

FOURTH YEAR

Occupational Therapy in Orthopaedic Conditions

Course Code: BOT 404 1. General Occupational Therapy approach CREDITS - 6

- 2. Effects of different therapeutic modalities in various traumatic conditions.
- 3. Principles of fracture management including OT at different stages.
- 4. Prevention and management of complication of fractures.
- 5. Dislocation signs, symptom, common sites, assessment and therapeutic management.

 - Fracture of lower limb (b)
 - I racture of spine with or without neurological involvement
- 6. Assessment and therapeutic management of:

Soft tissue injuries, sprains, strains, cartilage tear, ligament rupture, VIC, synovitis and capsulitis with emphasis on major joints.

Tendon injuries - flexor & Extensor tendon injuries, Etiology various surgical procedures in

- 7. Assessment and infective conditions: i)
- Osteoarthritis
- Spondylitis and spondylos's ii)
- Spondylolistheses & Spondylolysis iii)
- iv) PIVD
- Periarthritis, rotator cuff lesions of shoulder V) vi)
- Perthe's disease
- Rheumatoid arthritis vii)
- viii) Ankylosing spondylitis
- Tuberculosis of the spine, bone and major joints ix)
- Other relevant conditions χ)
- 8. Assessment management and treatment goals of the following deformities:
 - Torticollis, cervical rib (i)
 - CTEV, pes cavus, pes planus (ii)
 - (iii) congenital anomalies of upper & lower limb & spine
- b) Acquired
 - Scoliosis, Kyphosis, lordosis i)
 - ii) Coxa vara, genu valgum varum & genu recurvatum
- 9. Assessment, management and treatment goals of amputation:
 - Levels of amputation in upper & lower limbs b)
 - Stump care bandaging, pre and post prosthetic assessment and training c)

 - Complications and then ...magement
- 10. Crush Injuries of Hand Assessment using standardized tool of hand function, pre & post O'l

S.No.	Name of Books with Authors	
1	Text Book of Occupational There Is many	Edition
2	Text Book of Occupational Therapy by "Willard & Speckm	
1000		4th & 5th
4	OT for Physical Dysfunction by "Pederitti"	
5	Rehabilitation of Fraction by "Pederitti"	5th
6	Rehabilitation of Fractures by "Hoppin Field" Orthonaedic Robobilitation of Williams and Willia	
7	Orthopaedic Rehabilitation by "Brotzman"	
8	Text Book of Orthopadics by "Apley's" Hand Rehabilitation by "Hunter"	
9	Orthonoodic Condition by "Hunter"	
	Orthopaedic Condition By "Ebnezer"	

BACHELOR OF OCCUPATIONAL THERAPY (BOT)

FOURTH YEAR

Occupational Therapy in Psychiatric Conditions

Course Code: BOT 405

<u>L-</u> · 2_ T/P - 0

1. Profession & Historical perspectives.

2. Domains of Concerns

a) Performance Components.

b) Occupational Performance.

c) Life Cycle

d) Environment: Cultural, Social Physical Environment

3. Tools of Practice

- a) Non Human Environment
- b) Conscious Use of Self.
- c) Teaching & Learning Processes
- d) Purposeful Activities
- e) Activity Analysis & Synthesis.
- f) Groups(Therapeutic)

4. Evaluation & Intervention.

- a) Evaluation
- b) Evaluative Tools.
- c) Termination & Discharge Planning.
- d) Communication.
- 5. Change Process.
-) Frames of References.
-) # Analytical F.O.R.
- # Developmental F.O.R.
- # Acquisitonal F.O.R.

. Areas of Specialization.

Mental Health

- Disorders usually diagnosed in Infancy, Childhood, Adolescence.
- ii) Delusion, Dementia, Amnesia & Other Cognitive Disorders.
- iii) Substance Related Disorders
- iv) Schizophrenia & other psychotic Disorders
- v) Mood Disorders
- vi) Anxiety Disorders
- vii) Somatoform Disorders
- viii) Dissociative Disorders
- ix) Sexual & Gender Identity Disorders
- x) Adjustment disorders
- xi) Personality Disorders

Physical Disabilities

Developmental Disabilities and (Tild Abuse & Neglect

ain Management

management of Tendon & r. injuries & their repair & spiints.

ECTION - II ORTHOPAEDIC SURGERY

Pre and post operative assessment and management of surgeries like:

- a) Osteotomy, Arthrodesis, Ar hroplasty, joints replacements
- b) Tendon transplant, soft tissue release, Grafting.
- c) Spinal stabilization, Re-attachment of limbs, Illizarov's technique.
- d) Spinal surgeries. In C.P. & Polio

.

7. Practice Settings – Half way home, chita guidance clinic, sheltered workshop, day care centre, Acute care Psychiatry.

8. Trends Effecting Occupational Therapy
Spirituality, Dance Therapy Music Therapy
Recreational Therapy, Biofeedback, Yoga

S.No.	Name of Books with Authors	
1	Psychosocial Components by "Mosey"	Edition
2	Short Term Payabletan I "Mosey"	8,9, 10th
3	Short Term Psychiatry by "Moya Wilson"	4th & 5th
	Long Term Phychiatry by "Moya Wilson"	
- 	Rehabilitation of Psychiatric Condition by "Mary Beth Early" Psychiatric Conditions, by "Kender"	5th
		301
	Text Book of Psychiatry by "MS Rhatio"	
.7	Text Book of Psychiatry by "Neeraj Ahuja"	
		58

GURU GOBIND ŠINGH INDRAPRASTHA UNIVERSITY, DĘLHI BACHELOR OF OCCUPATIONAL THERAPY (BOT)

FOURTH YEAR

Occupational therapeutic in Neurological Conditions

Course Code: BOT 452

ccupational therapy evaluation and a sessment using standardized and non-standardized methods. etting goals for intervention based on the Models and Frames of references linical demonstration of the approaches used

eatment planning, implementation, termination and follow-up.

GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY, DELHI BACHELOR OF OCCUPATIONAL THERAPY (BOT)

FOURTH YEAR

Occupational therapeutic in Orthopaedic Conditions

Course Code: BOT 453 L-0 T/P- 5 CREDITS - 5

ccupational Therapy evaluation and assessment using standardized and non-standardized methods. etting goals for intervention based on the Models and Frames of references linical demonstration of the approaches used reatment planning, implementation, termination and follow-up.

GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY, DELHI BACHELOR OF OCCUPATIONAL THERAPY (BOT)

FOURTH YEAR

Occupational therapeutic in Psychiatric Conditions

Course Code: BOT 454

ccupational Therapy evaluation and assessment using standardized and non-standardized methods. tting goals for intervention based on the Models and Frames of references inical demonstration of the approaches used eatment planning, implementation, termination and follow-up.

BACHELOR OF OCCUPATIONAL THERAPY (BOT)

FOURTH YEAR.

PROJECT WORK*

Course Code: BOT 455. L - 0 T/P - 3 CREDITS - 3

Course objective:

Company.

The student will be doing specific case studies allotted by their teacher/guide. Subject is for Case Presentations and evaluations.

Minimum 5- 10 cases are to be documented for discussion.

EXAMINATION

*There will be no university examination. Students will be assessed on the basis of Viva on his/her project work and the awards so secured by them will be sent to University.

INTERNSHIP GUIDELINES (AMENDED)

Candidates seeking entry to the internship period must have passed all examinations in all subjects (i.e. He/She must have secured total credits of the Programme).

Duration: 6 months inclusive of posting in rural setup/CBR/similar setup

During the internship candidate shall have to work full time average 7 hours per day (each working months (total Credit hours - 1260).

Each candidate is allowed maximum of 6 holidays during entire Internship Programme and in case of any exigencies during which the candidate remains absent for a period more than 6 days, he/she will have to work for the extra days during which the candidate has remained absent.

Assessment: The interns/candidate shall maintain the record of work, which will be verified and certified by the Head of the Department under whom he/she works. Apart from scrutiny of the record of work, the Head of the Department shall undertake assessment and evaluation of training in attendance, discipline, knowledge, skills and attitude for the duration of training. The assessment report of the candidate shall be sent to the Parent institution.

Based on the record of work and date of evaluation the Director/Principal shall issue 'Certificate of Satisfactory Completion of training following which the University shall award the Bachelor of Occupational Therapy Degree or declare the candidate eligible for the same.

In the event of unsatisfactory report, the said intern shall have to repeat the internship for the period Head of the Institution concerned.

Intern will abide by all the rules & regulations of Institution/Hospital where they are posted.

Intern shall be responsible for proper use of equipments of the Institute/Hospital where they are posted. He/She shall be liable to pay for damages caused to the equipments resulting from

Internship duration can be extended by the Principal / Director on the grounds:

i. Remaining absent in excess of the permitted 6 days leave period, which is due: An intern will compensate by working extra for each day leave taken.

Unsatisfactory performance during the period: If there are unsatisfactory reports in II, terms of performance of the intern, submitted by the Department In-charge, the said intern shall have to repeat the internship for a period at least two months further.

- iii, Case of indiscipline at any level: A Discipline and Action Committee will be formed in the college / Institution convened by Internship coordinator/HOD OT-& headed by Director/Principal. In case of any lack of discipline, breach of trust or indulgence in any criminal activity on the part of the interns when reported by the concerned departments of Hospitals/Institutions where the interns have been posted, the defaulting Intern sha'l be called back immediately and subjected to disciplinary proceedings by the Disciplinary Action Committee. Punishments:
 - a. Suspension of Internship for a period of 3-4 weeks for the reasons to be recorded, Following this disciplinary suspension, internship can be resumed only after submission of an appropriate undertaking/guarantee/surety, Period of suspension shall be considered as Break in Internship, Disciplinary Action Committee shall decide the period of suspension and resumption of Internship for a specified
 - b. Rustication & Termination: In case of a serious complaint of indiscipline or breach of trust against intern or- any criminal activity done by intern according to the law of the country, he/she may be rusticated along with termination of Internship,

Hon'ble Court of Law can resume the Internship in this case only on the abrogation of criminal charges against him.

- Institution shall have to satisfy themselves that satisfactory infrastructure facilities of Occupational Therapy exist in the Institute / Hospital where the internship training has to be undertaken. Following parameters / guidelines have been suggested:
 - a. It is mandatory for the Institution conducting BOT Programme to have its own Occupational Therapy clinic fully furnished with all the necessary equipments as per the curriculum of the Programme.
 - The Institutes & the Hospitals should have the Occupational Therapy section with all the necessary infrastructure facilities.
 - Senior Occupational Therapist with sufficient clinical experience should manage the Occupational Therapy departments in the Institutes / Hospitals.
 - d. Institute Director / principal can at his discretion grant NOC to the students to do the Internship at the place of his choice provided, the concerned Hospital fully satisfies It the above criteria. For the purpose of granting NOC the candidate shall have to submit to the Institution the status of Occupational Therapy Services available at the place where he intend to do his Internship.

Evaluation of Students under Practical internship

5.140.	Description	Approximation of the second se	
		Satisfactory/	
	Attendance	Unsatisfactory	
2.	Discipline and general behaviour in the Department		
	The state of the s		
	Approach to patients		
	Inquisitiveness regarding the subject	8	
	Knowledge about evaluation of conditions	3	
	Knowledge about various therapeutic modalities		
•	Knowledge about actual application of therapeutic skills.		

