

Branch Name:	BACHELOR OF PHYSIOTHERAPY
Program Code:	PT101
Course Title:	PHARMACOLOGY & PSYCHIATRY
Course Code:	2PT1010202
Pre-requisite Course:	Human Physiology, Biochemistry

Teaching and Examination Scheme:

Teaching Scheme (Hours per week)			Credit	Evaluation Scheme (Marks)					
Lecture	Tutorial	Practical		Theory(T)		Practical(P)		Total Marks	
				University Assessment	Continuous Assessment	University Assessment	Continuous Assessment		
								Theory	Practical
3 (2+1)	-	-	6 (4+2)	80 (40+40)	20 (10+10)	-	-	100	-

PHARMACOLOGY

COURSE OUTCOMES:

At the end of the course the candidate will be able to

1. Describe pharmacological effects of commonly used drugs by patients referred for physiotherapy; list their adverse reactions, precautions to be taken, contraindications, formulation and route of administration.
2. Identify whether the pharmacological effect of the drug interferes with the therapeutic response of physiotherapy and vice versa
3. Indicate the use of analgesics and anti-inflammatory agents with movement disorders, with consideration of cost efficiency and safety for individual needs.
4. Get the awareness of other essential and commonly used drugs by patients. The basis of their use and common as well as serious adverse reaction.

Subject Contents:-

Sr. No.	Topic	Hours
1	Chemical character and general action of drugs	02
2	Principles of drug administration and routes of administration, distribution, metabolism, excretion of drugs, factors influencing drug reaction, dosage and factors modifying it.	08
3	Drug toxicity including allergy and idiosyncrasy.	06
4	Definition, action, indication, contraindication, adverse reaction of the following: a) Drugs acting on PNS: stimulating and inhibiting, Adrenergic, cholinergic and anti-cholinergics. Drugs acting at NM junction. Muscle relaxants b) Drugs acting on CNS: Analgesics, antipyretics, narcotics, anti inflammatory, anti epileptic, sedatives, hypnotics, tranquilizers, anticonvulsants, stimulants, psychotherapeutics, alcohol c) Pulmonary effects of general and local anesthetic agents d) Drugs acting on CVS: antihypertensive, vasoconstrictors, vasodilators, diuretics, mucolytic agents. Drugs that influence myocardial contractility and heart rate.	36

	e) Drugs acting on Respiratory system: bronchodilators, drugs used in inhalation therapy, drugs acting on CNS and cardio respiratory system which influence the physical exercise.	
5	Antimicrobial Agents	04
6	Immunological agents and vaccines	04
7	Chemotherapeutic agents	04
8	Endocrine Pharmacology: thyroxin, glucocorticoids, anabolic steroids, calcitonin, insulin and hypoglycemic agents, Estrogen and Progesterone Drugs used for Osteoporosis, Vitamin D, Calcium, Phosphorous	08
9	Haematinics - vitamin B, Iron	02
10	Irritants counterirritants	02

List of References:

Text Books:

- Essentials of Medical Pharmacology, Tripathi, K.D - 8th Edition.
- Last Minute Revision in Pharmacology, Dhikav, Vikas – 4th Edition.

Reference Books:

- Pharmacology for Physiotherapists, Ramesh, KV – 1st Edition.

List of Open Source Software/learning website:

- [k-hub.in e library/A single platform for all e resources](#) (K-hub, E-Resource)
 - o User Name- KB4605VNG
 - o Password- BL@69BX!
- [knowledgegainer.delnet.in](#) (Delnet, E-Resource)
 - o User Name- gjspum
 - o Password- spu10924

PSYCHIATRY

COURSE OUTCOMES:

At the end of the course, the student will be able to

- Enumerate various psychiatric disorders with special emphasis to movement, pain and ADL & describe the various causative factors and methods of assessment and management.
- Acquire the knowledge in brief about the pathological and etiological factors, common signs and symptoms and management of various psychiatric conditions.
- Describe in brief the various treatment modalities commonly used.

Subject Contents:

Sr.No.	Topic	Hours
1	Mental health: a) Normal Mental Health b) Criteria of normality or matured personality c) Factors contributing to normal mental health.	03
2	Study of Abnormal Personality: a) Neurotic	05

	b) Hysterical c) Psychotic d) Paranoid e) Schizoid f) Psychopathic etc.	
3.	General Etiological Factors: a) Hereditary b) Genetical Constitutional c) Acquired d) Traumatic e) Infective f) Toxic g) Degenerative h) Social and Environmental including pathogenic family patterns i) Precipitating causes j) Frustration and conflicts.	05
4	Symptomatology and Treatment of Psychoses: a) Functional - Functional Schizophrenic, reaction group, simple, paranoid, catatonic, hebephrenic paranoid state, paranoia, juvenile, schizophrenia, autistic thinking, dementia. b) Organic - Toxic confused states, senile psychoses, arteriosclerotic, degenerative, G.P.I. c) Affective Disorders: Dynamics of Mania, hypomania, chronic mania, M.P.D. Involutional depression, senile depression, postpartum depressive reactions, reactive and neurotic depression, endogenous depression, suicide (egoistic, Altruistic, Anomic) Epileptic Disorders: Epileptic Psychoses	05
5.	Neurosis : Symptomatology, diagnosis and treatment and psychodynamics of anxiety state, hysteria, conversion reaction, dissociative reaction, dual personality, obsessional neurosis, phobias, hypochondriasis, neurasthenia and mental fatigue	05
6.	Mental Retardation: a) Definition, b) Etiological factors - Prenatal, postnatal, infective, hormonal, congenital. c) Types of mental retardation, clinical types-microcephaly, hydrocephalus, mongol, family idiocy, phenylketonuria etc. Symptomatology of various grades of retardation, differential diagnosis and treatments.	05
7.	Child Psychology: Behavior disorders - Nail biting, Enuresis, Truancy, Thumb sucking, Speech difficulties, Pica, Vomiting, Anorexia, Delinquency	05
8.	Introduction to dynamics of Psychophysical disorders: a) Asthma, skin rashes, hypertension, bowel disorders. b) Introduction to treatment in psychiatry - E.C.T., Insulin, coma therapy. c) Drug therapy - Tranquilizer, Mood elevators, hypnotics and sedatives, Psychotherapy - Deep and superficial, individual and group, expressive, suppressive, environmental manipulation, re-educative. d) Psychodrama e) Psychoanalysis f) Play Therapy	05

List of References:

Text Books:

1. Clinical Psychiatry, Mayol- Gloss- 3rd Edition.
2. Psychiatry, James Scully - 4th Edition

Reference Books:

1. A Short Textbook of Psychiatry, Ahuja - 5th Edition
2. Handbook of Psychiatry, Dr. L.P. Shah - 3rd Edition

List of Open Source Software/learning website:

- k-hub.in e library/A single platform for all e resources (K-hub, E-Resource)
 - o User Name- KB4605VNG
 - o Password- BL@69BX!
- knowledgegainer.delnet.in (Delnet , E-Resource)
 - o User Name- gjspum
 - o Password- spu10924

Course Learning Outcomes (CLO): On completion of this course, the students will be able to:

	Description	Bloom's Taxonomy Level
CLO1	Describe and understand the pharmacological effects of commonly used drugs by patients referred for physiotherapy; and enlist their adverse reactions, precautions to be taken, contraindications, formulation and route of administration.	2 Understanding 3 Applying 5 Evaluate
CLO2	Elaborate the pharmacological effect to the drug interferes with the therapeutic response of physiotherapy and vice versa	2 Understanding 3 Applying 4 Analyze
CLO3	Explain the use of analgesics and anti-inflammatory agents with movement disorders, with consideration of cost efficiency and safety for individual needs.	1 Remembering 2 Understanding
CLO4	Get the knowledge and create the awareness of other essential and commonly used drugs by patients.	1 Remembering 2 Understanding
CLO5	Enumerate various psychiatric disorders with special emphasis to movement	2 Understanding 3 Applying 4 Analyze
CLO6	Acquire the knowledge in brief about the pathological and etiological factors	1 Remembering 2 Understanding

Mapping of CLOs with POs & PSOs

Course Learning Outcomes	Program Outcomes (POs)								Program Specific Outcomes (PSOs)							
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7	PSO8
CLO1	M		H						H							M
CLO2	H	M								M		H				
CLO3						M					M					M
CLO4	M		M		M							M				
CLO5	M			L									M	M	L	
CLO6							M	L					L			

H: High, M: Medium, L: Low