

INTEGRAL UNIVERSITY, LUCKNOW

INTEGRAL INSTITUTE OF ALLIED HEALTH SCIENCES & RESEARCH

DEPARTMENT OF OCCUPATIONAL THERAPY

BACHELOR OF OCCUPATIONAL THERAPY (BOT) SYLLABUS

YEAR/ SEMESTER: I/I



Effective from Session:	2025-26						
Course Code	BOT101	Title of the Course	HUMAN ANATOMY-I	L	T	P	C
Year	I	Semester	I	3	1	0	4
Pre-Requisite	Nil	Co-requisite	Nil				
Course Objectives The student will be able to demonstrate knowledge in human anatomy as needed for the study and practice of Occupat Therapy.						oational	l
	Therapy.						

	Course Outcomes: After the successful course completion, learners will develop following attributes:
CO1	To understand the level of organization of the human body & its application in practice of Occupational Therapy.
CO2	To understand the muscles, bones and joints of the various regions & its application in practice of Occupational Therapy.
CO3	To understand the level of organization of the human different system of the body & its application in practice of Occupational Therapy.
CO4	To understand the topographical and functional anatomy of the upper limb & its application in practice of Occupational Therapy.
CO5	To understand the topographical and functional anatomy of the lower limbs and its application in practice of Occupational Therapy.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	GENERAL ANATOMY	 Introduction and subdivisions of Anatomy. Anatomical nomenclature: Terms of Planes, Positions, Body parts and movements. Basic tissues of the body: Definition, location and their function. Structure and appendages of skin. Superficial & deep fascia: Definition and functions, modifications of deep fascia. 	8	CO1
2	OSTEOLOGY & ARTHRO LOGY	 Define skeleton, classification of skeleton. Bone: properties, function, types, structure, blood supply, ossification. Applied anatomy of bone. Cartilage: types, characteristic and function. Applied anatomy of cartilage. Arthrology: Joint, structure, function and classification. Basic feature and classification of synovial joint. Applied anatomy of joint. 	8	CO2
3	SYSTEMIC ANATOMY (Brief outline)	 Myology: Classification of muscles and its characteristics features. Properties and structure of skeletal muscle. Classification of skeletal muscle according to shape and fascicular architecture, action of muscles. Fascia structure and function Applied anatomy of muscle and fascia. CVS: Arteries, Capillaries, Veins, Heart, Lymphatic system. Respiratory system: Anatomy of upper and lower respiratory tract including lungs, pleura, nose larynx, trachea. Neurology: Anatomical and functional division of nervous system. 	8	CO3
4	SUPERIOR EXTREMITY	 Outline the anatomical features, attachments, ossification and side determination of the bones of upper limb. Muscles of Scapular region and back their origin, insertion action and nerve supply. Details of Deltoid, Trapezius and latissimus dorsi. Fascia and Muscles of front and back of upper arm, fore arm and hand: origin, insertion, nerve supply and action. Joints of superior extremity: Shoulder girdle, Shoulder joint, Elbow, Wrist and joints of hand. Nerves and blood vessels of Superior Extremity and their position course, relations & distribution. Boundaries and contents of axilla and cubital fossa, details of Brachial plexus. Applied anatomy of all structures of Superior Extremity. 	8	CO4
5	INFERIOR EXTREMITY	 Outline the anatomical features, attachments, ossification and side determination of the bones of upper limb. Fascia and Muscles of front, back and medial thigh: origin, insertion, nerve supply and action. Fascia and Muscles of Gluteal region: origin, insertion, nerve supply and action. Fascia and Muscles of anterior, posterior and lateral compartment of leg: origin, insertion, nerve supply and action. Fascia and Muscles of soles of foot: origin, insertion, nerve supply and action. Joints of inferior extremity: Hip girdle, Hip joint, Knee, Ankle and joints of foots. Arches of foot and its significance. Applied anatomy of all structures of inferior Extremity. 	8	CO5

Reference Books:

- 1 B.D. Chaurasia's, Human Anatomy-Volume 1, 2, 3 CBS Publishers & Distributors.
- 2 Inderbir Singh, Textbook of Anatomy with Colour Atlas-Vol. 1, 2, 3 Jaypee Brothers.
- 3 Snell-Clinical Anatomy by regions -Lippincott.
- 4 McMinn's Last's Anatomy-Regional and applied, Churchill Livingstone.
- 5 Cunningham Manual of Practical Anatomy Vol. I, II, III, Churchill Livingstone.
- 6 Williams & Warwick, Gray's Anatomy-Churchill Livingstone.
- 7 Basic Anatomy & Physiology by Smout and McDowell

e-Learning Source:

- 1. https://youtu.be/X5RUFXZZBH4
- 2. https://youtu.be/06o_XNKwuOE
- 3. https://youtu.be/4Sab-2E4ZDI

		Course Articulation Matrix: (Mapping of COs with POs and PSOs)														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3	PSO4	PSO5
CO																
CO1	1	3	1	2	-	-	-	1	2	1	2	2	1	2	-	3
CO2	2	3	2	2	-	-	-	1	3	1	3	2	2	1	-	2
CO3	1	3	1	2	-	-	-	1	2	-	2	2	1	2	-	3
CO4	2	3	1	2	-	-	-	1	3	-	3	2	2	3	-	3
CO5	1	3	1	2	-	-	-	1	2	1	2	2	1	2	-	3

Course Code	Course Title		Attributes						
BOT101	HUMAN ANATOMY-I	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	No.
		$\sqrt{}$	$\sqrt{}$	$\sqrt{}$			$\sqrt{}$	$\sqrt{}$	3,4



Effective from Session	n: 2025-26								
Course Code	BOT102	Title of the Course	HUMAN PHYSIOLOGY-I	L	T	P	C		
Year	I	Semester	I	3	1	0	4		
Pre-Requisite	Nil	Co-requisite	Nil						
Course Objectives	The student will be	student will be able to demonstrate knowledge in human physiology as needed for the study and practice of Occupational							

	Course Outcomes
CO1	To understand about general physiology& its application in practice of Occupational Therapy.
CO2	To understand the nerve, muscle physiology& its application in practice of Occupational Therapy.
CO3	To understand about basics of hematology& its application in practice of Occupational Therapy.
CO4	To understand about respiratory system & its application in practice of Occupational Therapy.
CO5	To understand about cardiovascular system and its application in practice of Occupational Therapy.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	GENERAL PHYSIOLOGY	The cell & cell organelles – structure & functions. Homeostasis, biofeedback mechanisms. Transport across cell membrane. Outline of membrane potential & action potential.	8	CO1
2	NERVE PHYSIOLOGY& MUSCLES PHYSIOLOGY	 Structure properties and classification of nerve and types of nerve fiber. Resting Membrane Potential Action potential, Propagation of nerve impulse, Degeneration and regeneration of nerve. Muscle –classification, structure, sarcomere & properties of muscles, Myoneural junction & transmission. Molecular basis of muscle contraction Motor unit, EMG. Difference between smooth, skeletal and cardiac, Applied physiology – Myasthenia gravis, Rigor mortis, Reaction of degeneration, Muscle disorders. 	8	CO2
3	HAEMATO LOGY	 Composition and functions of blood. Red blood cell – morphology, formation, normal count, functions, physiological and pathological Variation. White blood cell – morphology, classification, properties, functions, physiological & pathological variation. Hemoglobin – basic chemistry, fate and functions, Immunity – definition, classification, concept of antigen & antibody. Homeostasis – steps, role of platelets, Blood groups – A,B,O, AB and Rh system, Anemias, ESR & PCV. Plasma proteins, Anticoagulants, Blood transfusion, Applied aspects of hematology. 	8	CO3
4	RESPIRATION	 General organization of respiratory system, Mechanics of respiration – Inspiratory and expiratory. Muscles, intra-pleural pressure, lung & thoracic, Compliance, surfactant, lung volumes & capacities. Diffusion of gases, Transport of respiratory gases, Regulation of respiration, Outline of hypoxia (types & physiological changes). Acclimatization to high altitude, Dead space, Ventilation/ perfusion ratio. Maximum breathing capacity & breathing reserve, pulmonary function tests, Artificial respiration. Asphyxia, cyanosis (types and physiological changes). 	8	CO4
5	CARDIOVASCULAR SYSTEM & EXERCISE PHYSIOLOGY	 General organization and properties of cardiac muscle, Origin and conduction of cardiac impulse, cardiac cycle and heart sounds. Normal heart rate, bradycardia, tachycardia, Normal ECG, Cardiac output- normal values, physiological variations, Factors affecting cardiac out- put and regulation. Blood pressure – normal values, measurement, determinants, short term and long term regulation Regional circulation- Coronary, muscular, cerebral, Functions of Lymph, Pressure and volume changes during cardiac cycle. 5. Patho-physiology of circulatory shock and edema, Effects of exercise training, Hyper/Hypotension, Hemodynamic. 	8	CO5
Refe	rence Books:			

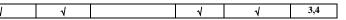
- Concise Medical Physiology by Chaudhuri, 4th Edition; New Central Book Agency.
- Human Physiology, Sembulingam; 4th ed, Jaypee Brothers.
- A Textbook of Practical Physiology, Ghai C L, Jaypee Brothers. Practical physiology by Vijaya Joshi; Vora Medical Publication.
- Human Physiology, Chatterjee. Vol: 1&2; 10th Edition; Medical & Allied Agency
- Textbook of Medical Physiology by Guyton & Hall, 11th Edition; Elsevier Publication
- Principles of Anatomy & Physiology, Tortora, 8th Edition; Harper & Row Publication
- Textbook of Physiology : Ganong

e-Learning Source:

- https://youtu.be/JuhDx9hQAx8
- https://youtu.be/Ta_vWUsrjho
- https://youtu.be/h1qSFZ9aw94 https://youtu.be/uYm4l_alVV0
- https://youtu.be/VWamhZ8vTL4

		Course Articulation Matrix: (Mapping of COs with POs and PSOs)															
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO	101	102	103	101	103	100	107	100	10)	1010	1011	1501	1502	1503	1501	1503	1500
CO1	1	3	1	2	-	-	-	1	2	-	2	2	1	-	1	-	1
CO2	1	3	1	3	-	-	-	1	3	-	3	3	2	-	2	-	1
CO3	1	3	1	2	-	-	-	1	2	-	2	3	1	-	1	-	1
CO4	1	3	1	2	-	-	-	1	3	-	3	2	1	-	1	-	1
COS	1	3	1	2	-	-	-	1	2.	-	2.	2	1	_	1	_	1

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Course Code	Course Title			Att	tributes				SDGs
BOT102	HUMAN PHYSIOLOGY-I	Employability	Entrepreneurship	Skill Development	Gender	Environment & Sustainability	Human Value	Professional Ethics	No.





Effective from Sessi	on: 2025-26		•						
Course Code	BOT103	Title of the Course	BIOCHEMISTRY	L	T	P	C		
Year	I	Semester	I	3	1	0	4		
Pre-Requisite	Nil	Co-requisite	Nil						
Course Objectives	The student v	The student will be able to demonstrate knowledge in clinical as needed for the study and practice of Occupational Therapy.							

	Course Outcomes: After the successful course completion, learners will develop following attributes:
CO1	To understand about carbohydrate & its application in therapeutic exercises and rehabilitation of sport injury.
CO2	To understand about protein & its application in practice of Occupational Therapy during rehab of various disease, trauma and fitness training.
CO3	To understand about lipid and nuclic acid& its application in practice of Occupational Therapyduring rehab of various disease, trauma and
	fitness training.
CO4	To understand about vitamin and enzyme and hormones & its application in practice of Occupational Therapy during rehab of various disease,
	trauma and fitness training.
CO5	To understand about Nutrition and its application in practice of Occupational Therapy during rehab of various disease, trauma and fitness
	training.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	CARBO HYDRATE	 Chemistry, Definition, Classification with Examples and Functions of Glycolysis. Chemistry, Definition, Classification with Examples and Functions of TCA cycle. Glycogen metabolism, Glycogen storage disorder, Diabetes Mellitus and glycosuria. Hormonal regulation of blood glucose, HbA1C and GTT. 	8	CO1
2	PROTEIN	1. Chemistry-definition-function-classification of Amino acids-protein structure 2. Effect of temperature on proteins- denaturation-coagulation; isoelectric pH & its importance 3. Metabolism-Digestion and absorption Decarboxylation- De-amination 4. Trans methylation transamination & their importance-Detoxification of ammonia including urea cycle 5. Clinical biochemistry: Relevance of blood levels of, urea, & uric acid, Protein in urine.	8	CO2
3	LIPIDS AND NUCLIC ACID	 Chemistry-definition-classification-[including fatty acids with examples]-function Metabolism-Digestion and absorption of lipids—β oxidation of saturated fatty acids and its energetics and regulation of fat metabolism in adipose tissue Ketone bodies formation & utilization—cholesterol and its importance [no biosynthesis needed]- classification, sources & function of lipoproteins lipoproteinemia atherosclerosis Clinical Biochemistry - Lipid profile-Tri - glyceride, cholesterol/HDL/LDL/VLDL etc, Liver function test & Renal function test. DNA/RNA definition-structure and function types-Genetic code-catabolism of purine –gout. 	8	CO3
4	VITAMINS & ENZYMES & HORMONES	 Definition, classification, functions dietary sources, daily requirement & Deficiency disorders. Definition, Classification of enzymes, properties, mechanism of action, Clinical importance & regulation of activity Introduction Definition & Classification of hormones. Mechanism of hormone action, Effects of hormones on various metabolism & hormonal disorders. 	8	CO4
5	NUTRITION & SPECIAL TOPICS	I. Introduction of Nutrition, Nutrients of their role in human Nutritional requirements, Balance diet, Nutritional disorder, SDA (special dynamic action) Respiratory quotient (RQ) & Basal Metabolism rate (BMR) Water electrolyte balance & acid base balance.	8	CO5

Reference Books:

- 1. Fundamentals of Biochemistry-by Dr. Deb Jyoti Das,
- 2. Essentials of Bio-chemistry by U. Satyanarayan, 1st Edition, Books and Allied Publications.
- 3. Textbook of Biochemistry Chatterje and Shinde
- 4. Text book of Medical Bio-Chemistry Dr. M.N.Chettergee, 5th Edition, Jaypee Publication.
- 5. Fundamental of Bio-Chemistry –.Dr. A. C. Deb, 5th Edition, Central Publication.
- 6. Bio-Chemistry introduction Mekee, 2nd Edition, McGraw-Hill Publication.

e-Learning Source:

- 1. https://youtu.be/t5DvF5OVr1Y 2. https://youtu.be/gggC9vctvBQ
- https://youtu.be/ufvZ8bYtyO8
- 4. https://youtu.be/Q6R4o-oECxs

					Cours	e Artic	culation	ı Matri	ix: (Maj	pping of	COs with	POs and	l PSOs)			
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3	PSO4	PSO5
CO	POI	FO2	FO3	FO4	FO3	F00	ro/	FU8	FO9	POIU	POII	F301	F302	1303	F3O4	1303
CO1	1	3	2	2	-	-	-	1	2	1	2	2	1	-	1	-
CO2	1	3	1	3	-	-	-	2	3	-	3	3	2	-	2	-
CO3	1	3	1	2	-	-	-	1	2	2	2	3	1	-	1	-
CO4	1	3	1	2	-	-	-	1	3	-	3	2	1	-	1	-
CO5	1	3	1	2	-	-	-	1	2	1	2	2	1	-	1	-

1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

			Attribu	ites & SDGs										
Course Code	Course Title		Attributes SI											
		Employability	Entropropourchin	Skill	Gender	Environment &	Human	Professional	No.					
BOT103	BIOCHEMISTRY	Employability	Entrepreneurship	Development	Equality	Sustainability	Value	Ethics						
		1	1	1	1		1	1	3,4					



Effective from Sessi	on: 2025-26						
Course Code	BOT104	Title of the Course	Fundamentals of Occupational-I	L	T	P	C
Year	I	Semester	I	3	1	0	4
Pre-Requisite	Nil	Co-requisite	Nil				
Course Objectives	The student will b	e able to demonstrate kr	nowledge in basic of Exercisetherapy as needed for th	e stud	y and	practice	e of
Course Objectives	Occupational Thera	ıpy.					

	Course Outcomes
CO1	To understand basic history of the of Occupational Therapy, To understand the history to established the profession.
CO2	To understand the importance of the history and philosophical base of the profession of occupational therapy.
CO3	To apply the occupational therapy foundations and concepts in assessment and interventional various occupational practice settings and across lifespan within a
	broad continuum of care
CO4	To evaluate and assess occupation and its determinants as well as use occupation as a means to improve health and well-being of communities.
CO5	To create the use meaningful activities in promotion of health & lessen disabilities.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	History and Scope of OT	History: Development of OT during world War; arts and crafts movement; moral treatment; Scope: a) Definition of Occupational Therapy and its scope in rehabilitation Philosophy of rehabilitation with reference to principles of physical medicine. b) Team interaction models: Rehabilitation team and the role of different team members. Intra disciplinary, interdisciplinary and multidisciplinary models of interaction	6	CO1
2	Occupational Science	Theory of Occupation and Occupational Science: Definition of Occupation, Occupation as an evolutionary trait, Biological, social, psychological dimensions of Occupation. Introduction to Occupational science, Linkage between Occupational science and Occupational Therapy	6	CO2
3	Principles and methods of Assessment	 Joint Range of Motion- Upper Limb, Lower Limb, Spine & TM joints): Principles and procedures in joint measurement. Definitions of terms in joint measurement. Methods of joint measurements. Functional ROM Total Active motion Indications and contraindications of recording. Muscle Strength: Definition of muscle Power and strength Principles of muscle testing Indications & contraindic ations of muscle testing. Gross muscle testing in normal and clinical conditions. (muscles of upper extremity & I ower extremity) Precautions in manual muscle testing Muscle Tone: Definition of tone. Normal Muscle tone Abnormal Muscle tone Muscle tone assessment-Modified Ashworth Scale/Pearsons rating of mild, moderate severe spasticity. 	10	CO3
	Assessment and diagnostic tools in OT	 Coordination: Definition Characteristics of coordinated movements Inco-ordination, Cerebellar signs, Extra pyra midal signs Assessment of co-ordination 5) Sensation: Definition. Classification of sensations. Techniques and methods of Sensory evaluation. Specific sensory testing Perception: Definition. Components and description of each component. Assessment methods Cognition: Definition. Evaluation of cognitive Skills: Attention, Orientation, Memory (Immediate, Short term and long-term Memory), problem solving and Executive functions. Endurance: Definition. Importance of Endurance in performance. Factors affecting endurance. Relation to activity tolerance. Hand Functions & Evaluation Methods: Types of Hand functions- Prehension Grasp patterns Grip Pinch. In hand manipulation. Theoretical aspects of Assessment. Total active motion. Functional evaluation of hand. Edema assessment methods 	10	CO4
5	ADL and Return to Work	Activities of Daily Living: 1. Evaluation & Gradation of Activities of daily living (ADL): Definition & classification of ADL. (BADL & IADL) Levels of assistance: [dependent to independent] 2. Introduction and application of ADL scales: Theoretical understanding of standardized ADL scales, components and application of Functional Independence Measure (FIM) Functional Assessment Measure (FAM) Assessment of Motor and Process Skills (AMPS) Modified Barthel Index Spinal Cord Independence Measure (SCIM).	8	CO5

Reference Books:

- 1. Helen S. Willard (Editor), Clare S. Spackman (Editor), H.L. Hopkins H.D. Smith (1993), Willard & Speckman Occupational Therapy, 8th edition, Lippincott Williams and Wilkins; USA, 976 pages
- 2. Turner, Ann; Foster, Margaret, (1992), Occupational Therapy and Physical Dysfunction: Principles, Skills and Practice, Third Edition, Churchill Livingstone Publications, UK

 3. Lorraine Williams Pedretti, (1996) Occupational Therapy: Practice Skills for Physical Dysfunction, 4th edition, Mosby Publications, UK, 896 pages

 4. GARDINER M.D. (2005), THE PRINCIPLES OF EXERCISE THERAPY DENA GARDINER, 4TH EDITION, Ss venture Publications
- Catherine Anne Trombly ,1983, Occupational therapy for physical dysfunction, 2nd edition, Williams & Wilkins; (January 1, 1983), USA, 512 pages
- Carolyn Kisner PT MS, Lynn Allen Colby PT MS, John Borstad PT PhD, Therapeutic Exercise: Foundations and Techniques (Therapeutic Exercise: Foundations and Techniques)

e-Learning Source:

- 1. https://youtu.be/P RQuRzp7SE
- 2. https://youtu.be/G7UccfwRvwY
- 3. https://youtu.be/dNnTubgY2gs
- 4. https://youtu.be/70kyTUZelpw

						Cours	e Articu	ılation I	Matrix: (N	lapping of	COs with	POs and Pa	SOs)			
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3	PSO4	PSO5
CO																
CO1	1	3	2	2	-	-	-	1	2	-	2	3	1	2	3	-
CO2	1	3	1	3	-	-	-	2	3	-	3	3	,	1	2	-
CO3	1	3	1	2	-	-	-	1	2	-	2	2	2	1	2	2
CO4	1	3	1	2	-	-	-	1	3	1	3	2	3	1	3	2
CO5	1	3	1	2	-	-	-	1	2	2	2	3	1	2	2	2

Course Code	Course Title		Attributes										
BOT104	FUNDAMENTALS OF	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	No.				
	OCCUPATIONAL-I	1	1	1	√		√	4	3,4				



Effective from Sessi	on: 2025-26						
Course Code	CS107	Title of the Course	COMPUTER APPLICATION IN OCCUPATIONAL THERAPY	L	T	P	C
Year	I	Semester	I	2	1	0	3
Pre-Requisite	Nil	Co-requisite	Nil				
Course Objectives	The main obje	ctive of the course is to p	rovide fundamental knowledge of computers, windows, MS word, ar	d Pow	er no	oint	

	Course Outcomes
CO1	After studying this course, the students will know –The fundamentals of computers and computer systems.
CO2	After studying this course, the students will know –Understanding the basic concepts of DOS commands.
CO3	After studying this course, the students will know –A Basic understanding of the windows.
CO4	After studying this course, the students will know –Understanding MS Word.
CO5	After studying this course, the students will know –Knowledge, understanding, and basic concepts of presentation software.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	COMPUTER FUNDAMENTALS	What is a computer? Components of a computer system. Classification of computers. Types of computers. A brief history of the evolution of computers and generation of computers. Computer hardware and software. Input/ Output devices.	6	CO1
2	DOS	Elementary knowledge of DOS commands DIR, CLS, DATE, TIME, MD, CD, RD, RENAM, DEL, BACKUP, RESTORE, COPY, SCANDISK, CHKDSK.	5	CO2
3	WINDOWS	Difference between windows and DOS. Basic Features - Date, Time, Time Zone, Display, Screen Saver, Fonts, Mouse, and mouse pointers. Using accessories such as a calculator, paintbrush, CD player, etc. Use of Windows Explorer for moving and copying files. Introduction to MS Office and its integrated nature.	6	CO3
4	MS-WORD	Starting Word, new documents, entering text, changing text, aligning, underlining, and justifying text. Use of tabs. Tables - creation, adding rows and columns, splitting, and combining cells, Borders. Saving, closing, and operating documents. Adding headers and footers. Print preview, and print a document. Mail merge: creating main document and data source. Adding and removing fields from the data source.	6	CO4
5	POWERPOINT (PRESENTATION SOFTWARE)	The basic concept of presentation software. Standard, Formatting, and drawing toolbars in PowerPoint and their use. Creating and opening a presentation. Creating, deleting, opening, and copying slides. Closing and saving a presentation. Use of slide sorter, adding header/footer. Use of master slides and color box. Use of animation features. Inserting pictures, resizing pictures. Inserting organization chart. Use of auto content wizard.	6	CO5

Reference Books:

- A First Course in Computers: Saxena, Vikas Publishing House
- Fundamentals of Computer science M. Afshar Alam
- Fundamental of Information Technology by D. S. Yadav- New age International

e-Learning Source:

- https://youtu.be/ME F9yypzsw https://youtu.be/FZqKyhfD7-E
- https://youtu.be/S4Zio60b8P8
- https://youtu.be/eEo_aacpwCw

						Cou	rse Ar	ticulati	on Mat	rix: (Ma	pping of	COs with	POs and	PSOs)			
P	O-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3	PSO4	PSO5
	CO	101	102	103	104	103	100	107	100	10)	1010	1011	1501	1502	1505	1504	1505
	CO1	1	2	2	2	-	-	-	1	2	1	2	-	2	2	1	-
	CO2	1	-	1	3	-	-	-	2	3	-	3	-	1	1	1	-
	CO3	1	3	1	2	-	-	-	1	2	2	2	-	1	1	1	-
	CO4	1	2	1	2	-	-	-	1	3	-	3	-	1	2	1	-
	CO5	1	2	1	2	-	-	-	1	2	1	2	-	1	1	1	-

Course Code	Course Title		Attributes								
CS107	Computer Application in Occupational	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	No.		
CD107	Therapy			4					3,4, 11		



Effective from Sessi	on: 2025-26												
Course Code	LN101	Title of the Course	BASICS OF PROFESSIONAL COMMUNICATION	L	T	P	C						
Year	I	Semester	I	2	1	0	3						
Pre-Requisite	Nil	Co-requisite Nil											
Course Objectives	The major	e major objective of the course is to develop professional communication skills among the students.											

	Course Outcomes												
CO1	After studying this course, the students will know -The meaning & importance of professional communication as well as effective												
	professional communication.												
CO2	After studying this course, the students will know –Understanding the language through literature like essays and short stories.												
CO3	After studying this course, the students will know –Basic concepts and knowledge of vocabulary.												
CO4	After studying this course, the students will know –Understanding and practice of basic grammar.												
CO5	After studying this course, the students will know –Knowledge, understanding, and skills in report writing & business letter writing.												

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
	PROFESSIONAL	a. Professional Communication: Meaning & importance		
1	COMMUNICATION	b. Essentials of Effective Communication	6	CO1
		c. Barriers to Effective Communication		
		a. Essays:		
		"The Effect of the Scientific Temper on Man" by Bertrand Russell		
2	LANGUAGE	"The Aims of Science and Humanities" by Moody E. Prior	5	CO2
2	THROUGH LITERATURE	b. Short Stories:	3	CO2
	ETERTIONE	"The Meeting Pool" by Ruskin Bond		
		"The Portrait of a Lady" by Khushwant Singh		
	D. L. G. T. G.	a. Euphemism, One-word Substitution, Synonyms, Antonyms		
3	BASIC VOCABULARY	b. Homophones, Idioms and Phrases, Common mistakes	6	CO3
	VOCABULART	c. Confusable words and expressions		
		a. Articles, Prepositions, Tenses		
4	BASIC GRAMMAR	b. Concord (Subject-Verb agreement), Verbs: kinds & uses	6	CO4
		c. Degrees of Comparison		
		a. Report writing: What is a report? Kinds and objectives of reports, writing		
5	BASIC COMPOSITION	reports	6	CO5
)	DASIC CUMPUSITION	b. Business Letter Writing: Introduction to business letters, types of business	U	(03
		letters, Layout of business letters, Letter of Enquiry / Complaint		

Reference Books:

- 1. Lata, Pushp& Kumar, Sanjay. Communication Skills, Oxford University Press-2012
- 2. Quintanilla, Kelly M. & Wahl, Shawn T. Business and Professional Communication, Sage Publications India Pvt. Ltd-2011
- 3. Juneja, Om P & Mujumdar, Aarati.Business Communication: Techniques and Methods, Orient Black Swan-2010
- 4. Arora, V. N. & Chandra, Lakshmi. Improve Your Writing: From Comprehensive to Effective Writing, Oxford University Press-2010 (For the prescribed essays- "The Effect of the Scientific Temper on Man" by Bertrand Russell & "The Aims of Science and Humanities" by Moody E. Prior)

e-Learning Source:

- 1. https://www.youtube.com/watch?v=jQx_jZxdCbs
- $2. \ \underline{https://www.sciencedirect.com/topics/psychology/linguistictheory\#:\sim:text=Linguistic\%20Theory\%20was\%20formed\%20by,to\%20all\%20typically\%20developing\%20humans}$
- 3. https://linguistics.ucla.edu/undergraduate/what-is-linguistics/
- 4. https://www.thoughtco.com/noam-chomsky-4769113

					Cou	ırse Ar	ticulati	on Matr	ix: (Maj	ping of (COs with	POs and	PSOs)			
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3	PSO4	PSO5
CO	101	102	103	104	103	100	107	100	10)	1010	1011	1501	1502	1503	1507	1503
CO1	-	-	-	-	-	2	-	2	1	-	2	-	-	-	-	-
CO2	-	-	-	-	-	2	-	-	1	-	2	-	-	-	-	-
CO3	-	-	-	-	-	2	-	1	-	1	2	-	-	-	-	-
CO4	-	-	-	-	-	2	2	-	1	1	2	-	-	-	-	-
CO5	-	-	-	-	-	2	1	1	ı	ı	2	-	-	-	1	1

Course Code	Course Title	Attributes									
	BASICS OF	Employability	Entroproposabio	Skill	Gender	Environment &	Human	Professional	No.		
LN101	PROFESSIONAL COMMUNICATION	Employability	Entrepreneurship	Development	Equality	Sustainability	Value	Ethics			
21(101				√					3,4, 11		



Effective from Session: 2	2025-26									
Course Code	BOT105	Title of the Course	HUMAN ANATOMY-I LAB	L	T	P	C			
Year	I	Semester	I	0	0	2	1			
Pre-Requisite	Nil	Co-requisite	Nil							
Course Objectives	The student will be able to demonstrate knowledge in human anatomy as needed for the study and practice of Occupational									

	Course Outcomes
CO1	To identify anatomical aspect of the level of organization of the human body practically & its application in practice of Occupational Therapy.
CO2	To identify anatomical and functional aspect of muscles, bones and joints of the various regions practically& its application in practice of
	Occupational Therapy.
CO3	To identify and practically apply various terms related to human different system of the body & its application in practice of Occupational
	Therapy.
CO4	To identify anatomical and functional aspect of neuromusculoskeletal structure of superior extremity& its application in practice of
	Occupational Therapy.
CO5	To identify anatomical and functional aspect of neuromusculoskeletal structure of inferior extremity & its application in practice of
	Occupational Therapy.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	GENERAL ANATOMY	 Practical demonstration of human body on model with using different anatomical terms. Demonstration of Anatomical position and movement of joint with anatomical terms. Practical demonstration of various type of tissue and their location on human body. Practical demonstration of skin and fascia. 	4	CO1
2	OSTEOLOGY & ARTHROLOGY	 Practical demonstration and classification of axial and appendicular skeleton on model. Identification and orientation of bones and joints in an articulated skeleton. Demonstration of types of bone on models. Practical demonstration of various type of cartilage on models. Practical demonstration of various type of joint and their function on human models. Practical demonstration of movement of various type of synovial joint on human body. 	4	CO2
3	SYSTEMIC ANATOMY	 Demonstrate different terms related to skeletal muscles on human body. Demonstrate different shape of skeletal muscle and action of different group of muscle on human body. Demonstrate location of fascia and fascial line on human body. 	4	CO3
4	SYSTEMIC ANATOMY	 Practical demonstration and identification, side determination, parts, and different bony. land marks and its attachment on non-articular bones of superior extremity. Visual estimation and palpation of different vascular and Neuromusculoskeletal structure of superior extremity on human body. Practical demonstration of action of different muscle of superior extremity. Visual estimation and palpation of the joint line and structure around the joints. Demonstration of Radio imaging anatomy of superior extremity. 	4	CO4
5	INFERIOR EXTREMITY	 Practical demonstration and identification, side determination, parts, and different bony. land marks and its attachment on non-articular bones of inferior extremity. Visual estimation and palpation of different vascular and neuro musculoskeletal structure. of inferior extremity on human body. Practical demonstration of action of different muscle of inferior extremity. Visual estimation and palpation of the joint line and structure around the inferior extremity joints. Demonstration of Radio imaging anatomy of inferior extremity. 	4	CO5

Reference Books:

- 1 B.D. Chaurasia's, Human Anatomy-Volume 1, 2, 3 CBS Publishers & Distributors.
- 2 Inderbir Singh, Textbook of Anatomy with Colour Atlas-Vol. 1, 2, 3 Jaypee Brothers.
- 3 Snell-Clinical Anatomy by regions -Lippincott.
- 4 McMinn's Last's Anatomy-Regional and applied, Churchill Livingstone.
- 5 Cunningham Manual of Practical Anatomy Vol. I, II, III, Churchill Livingstone.
- 6 Williams & Warwick, Gray's Anatomy-Churchill Livingstone.
- 7 Basic Anatomy & Physiology by Smout and McDowell

e-Learning Source:

- 4. https://youtu.be/X5RUFXZZBH4
- 5. https://youtu.be/06o_XNKwuOE
- 6. https://youtu.be/4Sab-2E4ZDI

		Course Articulation Matrix: (Mapping of COs with POs and PSOs)														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3	PSO4	PSO5
CO																
CO1	1	3	1	2	-	-	-	1	2	1	-	-	1	2	-	3
CO2	2	3	2	2	-	-	-	1	3	1	-	-	2	1	-	2
CO3	1	3	1	2	-	-	-	1	2	-	-	-	1	2	-	3
CO4	2	3	1	2	-	-	-	1	3	-	-	-	2	3	-	3
CO5	1	3	1	2	-	-	-	1	2	1	-	_	1	2	-	3

1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

	Attributes & SDGs														
Course Code	Course Title		Attributes												
BOT105	HUMAN ANATOMY-I	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	No.						
D 01103	LAB	1	V	1	√		√	√	3.4						



Effective from Session	on: 2025-26		·									
Course Code	BOT106	Title of the Course	HUMAN PHYSIOLOGY-I LAB	L	T	P	C					
Year	I	Semester	I	0	0	2	1					
Pre-Requisite	Nil	Co-requisite	Nil									
Course Objectives		he student will be able to demonstrate the practical knowledge in human anatomy as needed for the study and practice of ccupational Therapy.										

	Course Outcomes
CO1	To understand about general physiology& its application in practice of Occupational Therapy.
CO2	To understand the nerve, muscle physiology& its application in practice of Occupational Therapy.
CO3	To understand about basics of hematology& its application in practice of Occupational Therapy.
CO4	To understand about respiratory system & its application in practice of Occupational Therapy.
CO5	To understand about cardiovascular system and its application in practice of Occupational Therapy.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	GENERAL PHYSIOLOGY	Learning through chart and models	4	CO1
2	NERVE PHYSIOLOGY & MUSCLES PHYSIOLOGY	 NCV Skeletal muscle-properties-pre / after Load-Fatigue-Starling's law Cardiac muscle-properties-effect of Ach &Adrenaline Ergography 	4	CO2
3	BLOODS	 Hb, RBC WBC, Blood Groups BT, CT 	4	CO3
4	RESPIRATION	 Spirometry Lungs volume Timed vital capacity Respiratory sounds 	4	CO4
5	CARDIOVASCUL AR SYSTEM & EXERCISE PHYSIOLOGY	 Blood Pressure – Effects of change in posture & exercise Examination of Pulse Heart sound ECG 	4	CO5

Reference Books:

- Concise Medical Physiology by Chaudhuri, 4th Edition; New Central Book Agency.
- Human Physiology, Sembulingam; 4th ed, Jaypee Brothers.
- A Textbook of Practical Physiology, Ghai C L, Jaypee Brothers.
- Practical physiology by Vijaya Joshi; Vora Medical Publication.
- Human Physiology, Chatterjee. Vol: 1&2; 10th Edition; Medical & Allied Agency
- Textbook of Medical Physiology by Guyton & Hall, 11th Edition; Elsevier Publication
- Samson Wright's Applied Physiology 13th ed, Keele CA, Neil E & Joels N, Oxford Medical Pub.
- Principles of Anatomy & Physiology, Tortora, 8th Edition; Harper & Row Publication.
- 9. Textbook of Physiology: Ganong

e-Learning Source:

- https://youtu.be/X5RUFXZZBH4
- https://youtu.be/06o XNKwuOE https://youtu.be/4Sab-2E4ZDI
- https://youtu.be/uYm4l_alVV0
- https://youtu.be/VWamhZ8vTL4

					C	ourse A	rticula	tion Ma	trix: (M	apping of	COs witl	n POs and	PSOs)			
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3	PSO4	PSO5
CO	101	1 02	103	104	103	100	107	108	109	1010	1011	1301	1302	1303	1304	1303
CO1	1	3	1	2	-	-	-	1	2	-	2	-	1	-	1	-
CO2	1	3	1	3	-	-	-	1	3	-	3	-	2	-	2	-
CO3	1	3	1	2	-	-	-	1	2	-	2	-	1	-	1	-
CO4	1	3	1	2	-	-	-	1	3	-	3	-	1	-	1	-
CO5	1	3	1	2	-	-	-	1	2	-	2	-	1	-	1	-

Course Code	Course Title		Attributes							
	HUMAN PHYSIOLOGY-I	Employability	Entrapropaurchin	Skill	Gender	Environment &	Human	Professional	No.	
BOT106	LAB	Employability	Entrepreneurship	Development	Equality	Sustainability	Value	Ethics		
		7	1	√	√		1	√	3,4	



Effective from Session: 202	Effective from Session: 2025-26											
Course Code	BOT107	Title of the Course	BIOCHEMISTRY LAB	L	T	P	C					
Year	I	Semester	I	0	0	2	1					
Pre-Requisite	Nil	Co-requisite	Nil									
Course Objectives	The student will be able to demonstrate knowledge in clinical as needed for the study and practice of Occupational											
Course Objectives	Therapy.											

	Course Outcomes
CO1	To understand about carbohydrate& its application in therapeutic exercises and rehabilitation of sport injury.
CO2	To understand about protein& its application in practice of Occupational Therapy during rehab of various disease, trauma and fitness training.
CO3	To understand about lipid and nucleic acid& its application in practice of Occupational Therapyduring rehab of various disease, trauma and
	fitness training.
CO4	To understand about vitamin and enzyme and hormones & its application in practice of Occupational Therapy during rehab of various disease,
	trauma and fitness training.
CO5	To understand about Nutrition and its application in practice of Occupational Therapy during rehab of various disease, trauma and fitness
	training.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	CARBO HYDRATE	Practical aspect of followings: 1. Glycolysis. 2. TCA cycle. 3. Hormonal regulation of blood glucose, HbA1C and GTT.	4	CO1
2	PROTEIN	Practical aspect of followings: 1. Amino acids-protein structure 2. Effect of temperature on proteins- denaturation-coagulation; isoelectric pH & its importance 3. Decarboxylation- De-amination 4. Trans methylation transamination & their importance-Detoxification of ammonia including urea cycle. 5. Clinical biochemistry: Relevance of blood levels of, urea, & uric acid, Protein in urine.	4	CO2
3	LIPIDS AND NUCLIC ACID	 Practical aspect of followings: 1. Fatty acids 2. lipids—β oxidation of saturated fatty acids and its energetics and regulation of fat metabolism in adipose tissue Ketone bodies formation & utilization., cholesterol/HDL/LDL/VLDL etc, Liver function test & Renal function test. 3. Genetic code-catabolism of purine –gout. 	4	CO3
4	VITAMINS & ENZYMES & HORMONES	Practical aspect of followings: 1. Enzymes, properties, mechanism of action, Clinical importance & regulation of activity 2. Hormones. 3. Mechanism of hormone action, Effects of hormones on various metabolism & hormonal disorders.	4	CO4
5	NUTRITION & SPECIAL TOPICS	Practical aspect of followings: 1. Balance diet, Nutritional disorder, SDA (special dynamic action) 3. Respiratory quotient (RQ) & Basal Metabolism rate (BMR) 4. Water electrolyte balance & acid base balance.	4	CO5

Reference Books:

- 1. Fundamentals of Biochemistry-by Dr. Deb Jyoti Das,
- Essentials of Bio-chemistry by U. Satyanarayan, 1st Edition, Books and Allied Publications.
- Textbook of Biochemistry Chatterje and Shinde
- Text book of Medical Bio-Chemistry Dr. M.N. Chettergee, 5th Edition, Jaypee Publication.
 Fundamental of Bio-Chemistry Dr. A. C. Deb, 5th Edition, Central Publication.

e-Learning Source:

- 1. https://youtu.be/t5DvF5OVr1Y
- 2. https://youtu.be/gggC9vctvBQ
- 3. https://youtu.be/ufvZ8bYtyO8
- 4. https://youtu.be/Q6R4o-oECxs

		Course Articulation Matrix: (Mapping of COs with POs and PSOs)														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3	PSO4	PSO5
CO																
CO1	1	3	2	2	-	-	-	1	2	1	-	-	2	2	1	-
CO2	1	3	1	3	-	-	-	2	3	1	-	-	1	1	1	•
CO3	1	3	1	2	-	-	-	1	2	2	-	-	1	1	1	•
CO4	1	3	1	2	-	-	-	1	3	ı	-	-	1	2	1	-
CO5	1	3	1	2	-	-	-	1	2	1	-	-	1	1	1	-

1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

			Attribu	tes & SDGs								
Course Code	Course Title		Attributes S									
		Employability	Entropropourchin	Skill	Gender	Environment &	Human	Professional	No.			
BOT107	BIOCHEMISTRY LAB	Employability	Entrepreneurship	Development	Equality	Sustainability	Value	Ethics				
		√	√	√ V	J		7	- √	3.4			



Effective from Session	Effective from Session: 2025-26											
Course Code	BOT108	Title of the Course	FUNDAMENTALS OF OCCUPATIONAL-I LAB	L	T	P	C					
Year	I	Semester	I	0	0	2	1					
Pre-Requisite	Nil	Co-requisite	Nil									
Course Objectives	The student will be able to demonstrate the practical knowledge in human anatomy as needed for the study and practice of Occupational Therapy.											

	Course Outcomes
CO1	To understand Practical aspect of Occupational Therapy, To understand the history to established the profession.
CO2	To understand Practical aspect & importance of the history and philosophical base of the profession of occupational therapy.
CO3	To understand Practical aspect T& apply the occupational therapy foundations and concepts in assessment and interventional various
	occupational practice settings and across lifespan within a broad continuum of care
CO4	To understand Practical aspect & evaluate and assess occupation and its determinants as well as use occupation as a means to improve health
	and well-being of communities.
CO5	To create the use meaningful activities in promotion of health & lessen disabilities.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	History and Scope of OT		4	CO1
2	Occupational Science		4	CO2
3	Principles and methods of Assessment	Knowledge of various assessment methods and their demonstrations on models for the topics covered in theory.	4	CO3
4	Assessment and diagnostic tools in OT		4	CO4
5	ADL and Return to Work	o l		CO5

Reference Books:

- 1. Helen S. Willard (Editor), Clare S. Spackman (Editor), H.L. Hopkins H.D. Smith (1993), Willard & Speckman Occupational Therapy, 8th edition, Lippincott Williams and Wilkins; USA, 976 pages.
- 2. Turner, Ann; Foster, Margaret, (1992), Occupational Therapy and Physical Dysfunction: Principles, Skills and Practice, Third Edition, Churchill Livingstone Publications, UK
- 3. Lorraine Williams Pedretti, (1996) Occupational Therapy: Practice Skills for Physical Dysfunction, 4th edition, Mosby Publications, UK, 896 pages
- 4. GARDINER M.D. (2005), THE PRINCIPLES OF EXERCISE THERAPY DENA GARDINER, 4TH EDITION, Ss venture Publications
- 5. Catherine Anne Trombly ,1983, Occupational therapy for physical dysfunction, 2nd edition, Williams & Wilkins; (January 1, 1983), USA, 512 pages 6. Carolyn Kisner PT MS, Lynn Allen Colby PT MS, John Borstad PT PhD, Therapeutic Exercise: Foundations and Techniques (Therapeutic Exercise: Foundations and Techniques) Seventh Edition.

e-Learning Source:

- https://youtu.be/P_RQuRzp7SE
- https://youtu.be/G7UccfwRvwY
- https://youtu.be/dNnTubgY2gs
- https://youtu.be/70kyTUZelpw
- https://youtu.be/4WX0cp0fn5c

					C	ourse A	Articula	tion M	atrix: (M	apping of	f COs wit	th POs an	d PSOs)			
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3	PSO4	PSO5
CO	101	102	103	104	103	100	107	100	10)	1010	1011	1501	1502	1505	1504	1503
CO1	2	3	2	2	-	-	-	1	2	-	-	3	3	3	3	-
CO2	1	3	1	2	-	-	-	2	3	-	-	3	3	2	2	-
CO3	1	3	2	1	-	-	-	1	2	-	-	2	2	1	2	-
CO4	1	3	1	2	-	-	-	1	3	2	-	2	3	1	3	-
CO5	1	3	1	2	-	-	-	1	2	2	-	3	1	2	2	2

			11001100	**************************************					
Course Code	Course Title			Att	ributes				SDGs
BOT108	FUNDAMENTALS OF	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	No.
	OCCUPATIONAL-I LAB	√	√	√	√		1	1	3,4



INTEGRAL UNIVERSITY, LUCKNOW

INTEGRAL INSTITUTE OF ALLIED HEALTH SCIENCES & RESEARCH

DEPARTMENT OF OCCUPATIONAL THERAPY

BACHELOR OF OCCUPATIONAL THERAPY (BOT) SYLLABUS YEAR/ SEMESTER: I/II



Effective from Session: 2	025-26						
Course Code	BOT109	Title of the Course	HUMAN ANATOMY-II	L	T	P	C
Year	I	Semester	II	3	1	0	4
Pre-Requisite	Nil	Co-requisite	Nil				
Course Objectives	To understand the loca	ation, structural configurati	II 3 1 0 4				
Course Objectives	Therapy.						

	Course Outcomes
CO1	To understand about the structure of thoracic wall& its application in practice of Occupational Therapy.
CO2	To understand about the Viscera of thoracic cavity& its application in practice of Occupational Therapy.
CO3	To understand about the Abdomen and Pelvis& its application in practice of Occupational Therapy.
CO4	To understand about the Head and Neck & its application in practice of Occupational Therapy.
CO5	To understand about the Neuro Anatomy and its application in practice of Occupational Therapy.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	THORACIC WALL	 Skeleton of thoracic wall, Thoracic outlets and inlets Joints of thoracic wall, Movements of thoracic wall Muscles of thoracic wall, Fascia of Thoracic wall Nerves of Thoracic wall, Vasculature of Thoracic wall, Breast Relevant applied anatomy 	8	CO1
2	VISCERA OF THORACIC CAVITY	 Pleura, Lungs, and Tracheobronchial Tree Overview of mediastinum, superior mediastinum, Posterior mediastinum, anterior mediastinum Diaphragm: Attachments, action and nerve supply of diaphragm. Layer of pericardium, Introduction to heart, External feature and blood supply of heart Location and branches of ascending arch of aorta and descending aorta, Location and tributaries of Brachiocephalic veins and superior vena cava. Azygos system of veins 	8	CO2
3	ABDOMEN & PELVIS	 Introduction to abdomen, its regions and quadrants, Abdominal wall, layers of abdominal wall Muscles of anterior and posterior abdominal wall their origin insertion, action and nerve supply, Rectus sheath. Overview of abdominal viscera and digestive tract. Components of urinary system, their location and orientation in abdomino-pelvic cavity. Brief account of kidneys. Reproductive system: Components of male & female reproductive system and their location. Relevant clinical anatomy 	8	CO3
4	HEAD AND NECK	1 Overview of different aspect of cranium 2 Scalp and muscles of facial expression, Layers of scalp, nerve and blood supply 3 Muscles of mastication, their origin, insertion action and nerve supply 4 Layers of deep cervical fascia, extent and attachment of investing layer, Sternocleidomastoid, digastric and strap muscles of neck. 5 Triangles of neck: Subdivision of anterior and posterior triangle and their contents. 6 Common carotid & external carotid artery & Internal Jugular vein. 7 Joints: Details of temporomandibular joint, atlantoaxial and atlanto-occipital joint.	8	CO4
5	NEURO-ANATOMY	1 General organization of C.N.S and brief outline of CNS structures, Blood supply of brain 2 Cranial nerves -Peripheral nervous system, Autonomic Nervous System -Sensory system 3 Neuro-muscular junction, nuro-muscular integration 4 Important ascending and descending tracts. Cranial nerves 5 Brief account of visual and auditory path way 6 CSF – Formation, absorption and circulation in the ventricular system.	8	CO5

Reference Books:

- B.D. Chaurasia's, Human Anatomy-Volume 1, 2, 3 CBS Publishers & Distributors.
- Inderbir Singh, Textbook of Anatomy with Colour Atlas-Vol. 1, 2, 3 Jaypee Brothers.
- 3 Snell-Clinical Anatomy by regions -Lippincott.
- McMinn's Last's Anatomy-Regional and applied, Churchill Livingstone.
- Cunningham Manual of Practical Anatomy Vol. I, II, III, Churchill Livingstone.
- 6 Williams & Warwick, Gray's Anatomy-Churchill Livingstone.
- Extremities by Quining Wasb
- Basic Anatomy & Physiology by Smout and McDowell

e-Learning Source:

- 1 https://youtu.be/X5RUFXZZBH4
 2 https://youtu.be/06o_XNKwuOE
 3 https://youtu.be/4Sab-2E4ZDI

						Cou	rse Art	iculatio	n Matrix:	(Mapping	of COs with	POs and P	SOs)			
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3	PSO4	PSO5
CO	101	102	103	10.	103	100	107	100	10)	1010	1011	1501	1502	1505	1501	1503
CO1	1	3	1	2	-	-	-	1	1	1	3	2	2	1	1	1
CO2	1	3	2	2	-	-	-	1	1	1	3	2	2	1	1	1
CO3	1	3	1	2	-	-	-	1	1	1	3	2	1	1	1	1
CO4	2	3	1	2	-	-	-	1	1	1	3	2	2	1	1	1
CO5	1	3	1	2	-	-	-	1	1	1	3	2	1	1	1	1

Course Code	Course Title			Att	ributes				SDGs
		Employability	Enteroperation	Skill	Gender	Environment &	Human	Professional	No.
BOT109	HUMAN ANATOMY-II	Employability	Entrepreneurship	Development	Equality	Sustainability	Value	Ethics	
		1	1	1	1		1	1	3,4



Effective from Session	on: 2025-26						
Course Code	BOT110	Title of the Course	HUMAN PHYSIOLOGY-II	L	T	P	C
Year	I	Semester	II	3	1	0	4
Pre-Requisite	Nil	Co-requisite	Nil				
Course Objectives		able to demonstrate kno	owledge in human physiology as needed for the study and	MAN PHYSIOLOGY-II II 3 1 0 physiology as needed for the study and practice of Occupation	onal		
Course Objectives	Therapy.						

	Course Outcomes
CO1	To understand about excretory function& its application in practice of Occupational Therapy.
CO2	To understand about gastro intestinal tract& its application in practice of Occupational Therapy.
CO3	To understand about Nervous system and special senses& its application in practice of Occupational Therapy.
CO4	To understand about Endocrine system & its application in practice of Occupational Therapy.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	EXCRETORY FUNCTION	 General introduction, structure and functions of kidney, Formation of urine- filtration, reabsorption and secretion Physiology of micturition, Renal circulation, Plasma clearance test Neurogenic bladder, Automatic bladder Relevant applied physiology 	8	CO1
2	GASTRO INTESTINALTRACT (GIT)	 1 Motility nervous control, blood circulation 2 Composition, secretary function of saliva gastric juices 3 HCL secretion, pancreas gall bladder and small intestine 4 Digestion and absorption of food, Defecation and swallowing reflex 5 Relevant applied physiology 	8	CO2
3	NERVOUS SYSTEM & SPECIALSENSES	 Receptor physiology, synaptic structure, reflexes, physiology of touch, pain, temperature and Proprioception, labyrinth. Function of sensory and motor cortex, ascending and descending tracts, motor function of spinal cord and reflexes, spinal cord transaction and spinal shock Hypothalamus, thalamus, basal ganglia, cerebellum, limbic system, RAI system, learning memory and condition reflex Posture, equilibrium and sleep, cerebral blood flow, CSF and brain metabolism Eye, Ear, Olfaction, Taste. Relevant applied physiology 	8	CO3
4	ENDOCRINE SYSTEM	1 General organization of endocrine glands 2 Releasing hormones from hypothalamus, Anterior & Posterior pituitary hormones — physiological actions, regulation & disorders 3 Thyroid Hormones, Parathyroid Hormones — physiological actions, regulation & disorders 4 Pancreatic hormones, Adrenal cortex & medulla—physiological actions, regulation& disorders 5 Mechanism of hormone action, Relevant applied physiology	8	CO4
5	REPRODUCTIVE SYSTEM	1 Female menstrual cycle and related hormone puberty and menopause 2 Function of oestrogens, progesterone and testosterone 3 Male spermatogenesis and function of testosterone, 4 Sucking reflex- pregnancy and lactation. 5 Relevant applied physiology	8	CO5

Reference Books:

- 1. Concise Medical Physiology by Chaudhuri, 4th Edition; New Central Book Agency
- 2. Human Physiology, Sembulingam; 4th ed, Jaypee Brothers.
- 3. A Textbook of Practical Physiology, Ghai C L, Jaypee Brothers.
- 4. Human Physiology, Chatterjee. Vol: 1&2; 10th Edition; Medical & Allied Agency
- 5. Textbook of Medical Physiology by Guyton & Hall, 11th Edition; Elsevier Publication
- 6. Samson Wright's Applied Physiology 13th ed, Keele CA, Neil E & Joels N, Oxford Medical Pub.
- 7. Principles of Anatomy & Physiology, Tortora, 8th Edition; Harper & Row Publication.
- 8. Textbook of Physiology : Ganong

e-Learning Source:

- 1. https://youtu.be/_jagVY0XMVk
- 2. https://youtu.be/cXPuW6ZwcFE
- 3. https://youtu.be/VAEmxt78bBI

4. https://youtu.be/vLdNX5Te1Xo

					Cour	se Artio	culation	Matri	x: (Map	ping of (COs with	POs and	l PSOs)			
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3	PSO4	PSO5
CO	101	102	103	104	103	100	107	100	10)	1010	1011	1501	1502	1505	1504	1503
CO1	1	3	1	2	-	-	-	1	2	ı	2	2	1	•	1	1
CO2	1	3	1	3	-	-	-	1	3	ı	3	3	2	•	1	1
CO3	1	3	1	2	-	-	-	1	2	-	2	3	1	-	1	1
CO4	1	3	1	2	-	-	-	1	3	1	3	2	1	-	1	1
CO5	1	3	1	2	-	-	-	1	2	-	2	2	1	-	1	1

1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation

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			11tt110ti	ites et ob os								
Course Code	Course Title		Attributes Si									
	HUMAN PHYSIOLOGY-	Employability	Entrepreneurship	Skill	Gender	Environment &	Human	Professional	No.			
BOT110	HOMAN HITSIOLOGI-	Employability	Entrepreneursnip	Development	Equality	Sustainability	Value	Ethics				
	11	√	1	√	√		√	1	3,4			



Effective from Session	n: 2025-26						
Course Code	BOT111	Title of the Course	FUNDAMENTALS OF OCCUPATIONAL-II	L	T	P	C
Year	I	Semester	II	3	1	0	4
Pre-Requisite	Nil	Co-requisite	Nil				
Course Objectives	The student will be	able to learn, analyze a	and explore the knowledge of basics of Fundamentals of	Occur	ational		

	Course Outcomes
CO1	To understand the meaning and role of occupations and impact of health and environmental conditions on occupational performance of
	persons, groups, and populations.
CO2	To understand & explain the meaning and dynamics of occupation and activity, including the interaction of areas of occupation, performance
	skills, performance patterns, activity demands, context(s) and environments, and client factors.
CO3	To apply and demonstrate basic skill in activity analysis and its role in therapeutic activity selection and implementation.
CO4	To apply and acquire knowledge in using therapeutic techniques in training ADL (activities of daily living) to help them to line independently.
CO5	To analyze and demonstrate task analysis in the areas of occupation, performance skills, performance patterns, activity demands, context(s),
	and environments, and client factors to formulate an intervention plan.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	Application of Occupational Therapy in	1. General Medical & Surgical Conditions. 2. Psychiatric conditions 3. Mentally backward &subnormal 4. Orthopaedics condition/disorders 5. Paediatrics 6. Geriatrics 7. Hearing & Visual Impairment 8. Cardiopulmonary conditions 9. Neurological conditions 10. Leprosy	8	CO1
2	Environments for Practice	 Acute Care Rehabilitation Center 2. Occupational Therapy in the School System Adult Day Care 4. Long - Term Care 5. Home care & Private Practice 6. Wellness Program 7. Hospice Care 	8	CO2
3	Basic concepts of human development	 Aspects of human development: physical, motor, sensory cognitive, emotional, cultural, social. Factors influencing human development: Biological environment. Principles of Maturation. 	8	CO3
4	Human Development Process	 Posture and movements Spatiotemporal adaptation Sensory - motor - sensory Integration Reflex and reaction maturation o Stability & mobility development Theories • Learning Theory • Behavioral Theory • Social learning Theory • Maturation Theory of Arnold Gesell • Psychoanalytic theory of Freud, Erik Erikson • Cognitive Theory of Jean Piaget • Humanistic Self-Theory 	8	CO4
5	Definitions, Classification / Components, Assessments / Evaluations	Performance Areas o 1. ADL, Personal care, medication routine & health maintenance, Functional & community mobility, Functional communication, Sexual expression (15 hrs.) 2. Work and Productive Activities (15 hrs.) • FCE, WCE, PCE – work assessments Driving evaluation home management educational activities. • Play / Leisure Activities (15 hrs.) 3. Functions of Play • Social • Physical • Sensory • Emotional • Perceptual • Cognitive o 4. Content and structure of play 5. Theories of play • Erikson • Freud • Piaget • Reilly 6. Role of play in Occupational Therapy process	8	CO5

Reference Books:

- 1. Helen S. Willard (Editor), Clare S. Spackman (Editor), H.L. Hopkins H.D. Smith (1993), Willard & Speckman Occupational Therapy, 8th edition, Lippincott Williams and Wilkins; USA, 976 pages
- 2. Turner, Ann; Foster, Margaret, (1992), Occupational Therapy and Physical Dysfunction: Principles, Skills and Practice, Third Edition, Churchill Livingstone Publications, UK
- 3. Lorraine Williams Pedretti, (1996) Occupational Therapy: Practice Skills for Physical Dysfunction, 4th edition, Mosby Publications, UK, 896 pages
 4. Catherine Anne Trombly, 1983, Occupational therapy for physical dysfunction, 2nd edition, Williams & Wilkins; (January 1, 1983), USA, 512 pages
- 5. Margarett Hollis, Massage for therapist: Margarett Hollis

e-Learning Source:

- https://youtu.be/X5RUFXZZBH4 1.
- https://youtu.be/06o_XNKwuOE
- https://youtu.be/4Sab-2E4ZDI

		Course Articulation Matrix: (Mapping of COs with POs and PSOs)														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3	PSO4	PSO5
CO	101	1 02	103	104	103	100	107	108	109	1010	1011	1301	1302	1303	1504	1303
CO1	2	3	-	2	1	-	-	-	1	1	1	2	1	n3	2	1
CO2	1	3	-	2	-	-	-	-	1	-	1	2	1	3	2	1
CO3	2	3	-	2	-	-	-	-	1	1	1	2	1	3	2	1
CO4	1	3	-	1	-	-	-	-	1	-	1	2	1	3	2	1
CO5	2	3	-	1	-	-	-	-	1	-	1	2	1	3	2	1

Course Code	Course Title			Att	ributes				SDGs
BOT111	FUNDAMENTALS OF	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	No.
	OCCUPATIONAL-II	√	1	√	√		√	1	3,4



Effective from Sessio	on: 2025-26						
Course Code	BOT112	Title of the Course	GENERAL PSYCHOLOGY AND SOCIOLOGY	L	T	P	C
Year	I	Semester	II	2	1	0	3
Pre-Requisite	Nil	Co-requisite	Nil				
Course Objectives	The student will be	able to demonstrate	knowledge in clinical as needed for the study and prac	tice o	f Occu	pation	al
Course Objectives	Therapy.						

	Course Outcomes
CO1	To understand about psychology& its application in Occupational Therapy practice.
CO2	To understand about arousal, emotion & awareness, perception & its application in Occupational Therapy practice.
CO3	To understand about testing, personality and behaviour, attitude & its application in Occupational Therapy practice.
CO4	To understand about basics of sociology and social factors in health & disease & its application in Occupational Therapy practice.
CO5	To understand about social group, family, culture and health, social problems& its application in Occupational Therapy practice.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	BASICS OF PSYCHOLOGY	 Beginning the study of psychology & Subfields and methods of psychology, Genetics and behaviour, Nature and nurture Development of behavior and principle of learning Thinking and problem solving Drives and motivation 	6	CO1
2	AROUSAL, EMOTION & AWARENESS, PERCEBOTION	Psychological basis of arousal & emotion Emotional feelings & Situations Objective Perception, Perceptual Constancies DeBOTh Perception, Influences on Perception	6	CO2
3	TESTING, PERSONALITY AND BEHAVIOR, ATTITUDE	 What is Personality, Theories of Personality, Shaping of Personality, Coping Behaviour The Nature of Attitudes, Prejudice & Discrimination, Development of Attitudes, Social Movements Behavior Disorders, Personality disorders Uses of Psychological Tests, Intelligence & Aptitude Tests, Personality tests 	6	CO3
4	BASICS OF SOCIOLOGY AND SOCIAL FACTORS IN HEALTH & DISEASE	 Definition and scope of sociology Importance of sociology to health care professionals. The meaning and nature of socialization The role of social factors in health and illness 	6	CO4
5	SOCIAL GROUP, FAMILY, CULTURE AND HEALTH, SOCIAL PROBLEMS	 Concept of culture, Culture and behaviour, Culture and Health Disorders Population explosion, Poverty and unemployment Beggary, Juvenile delinquency Alcoholism, Problems of women in employment 	6	CO5

Reference Books:

- 1. Fundamentals of Biochemistry-by Dr. Deb Jyoti Das,
- 2. Essentials of Bio-chemistry by U. Satyanarayan, 1st Edition, Books and Allied Publications.
- 3. Textbook of Biochemistry Chatterje and Shinde
- 4. Text book of Medical Bio-Chemistry Dr. M.N.Chettergee, 5th Edition, Jaypee Publication.
- 5. Fundamental of Bio-Chemistry Dr.Dr.A.C.Deb, 5th Edition, Central Publication.
- 6. Bio-Chemistry introduction Mekee, 2nd Edition, McGraw-Hill Publication

e-Learning Source:

- 1. https://youtu.be/PqRvnUofNCU
- 2. https://youtu.be/a1oHRj t Bw
- 3. https://youtu.be/ghMjJRIksp0
- 4. https://youtu.be/PI1Awx--KtM

		Course Articulation Matrix: (Mapping of COs with POs and PSOs)														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3	PSO4	PSO5
CO	101	102	103	104	103	100	107	100	10)	1010	1011	1501	1502	1505	1504	1505
CO1	2	-	-	1	-	3	3	2	2	-	2	-	-	-	1	1
CO2	2	-	-	2	-	3	2	2	1	1	2	-	-	•	ı	2
CO3	2	-	-	1	-	3	3	1	2	-	1	-	-	-	-	1
CO4	2	-	-	1	-	3	3	2	1	-	2	-	-	-	-	1
CO5	2	-	-	2	-	3	2	2	1	-	2	-	-	-	1	1

Course Code	Course Title		Attributes									
BOT112	GENERAL PSYCHOLOGY AND	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	No.			
DO1112	SOCIOLOGY	٧	4	v.	1	j	√	4	3,4			



	Integral University, Lucknow											
Effectiv	e from Ses	sion: 2025-	26									
Course	Code	E	S101	Title of the Course	ENVIRONMENTAL STUDIES	L	T	P				
Year			I	Semester	II	2	1	0				
Pre-Rec	quisite		Nil	Co-requisite	Nil							
Course (Objectives	To study a To study a To study B	bout the Natura bout Biodiversi nvironmental p	ty and Conservation. collution, its policies and pra on and Environmental Ethic	S.							
	ı				Outcomes							
CO1			nvironment and e									
CO2					ntal impacts of human activities on natural resource.							
CO3				f biodiversity and its importance								
CO4				nmental pollution, its impact on lation growth and its impact on	human and ecosystem and control measures.							
CO5	Students w	rill learn about	environment.									
Unit No.	Title of	the Unit	ontent of Unit	Contact Hrs.		pped CO						
1	Environ	action to ment and system	studies, Conc Ecosystem, S	Environment, its components and segments, Multidisciplinary nature of Environmental studies, Concept of Sustainability and sustainable development, Environmental movements, Ecosystem, Structure & Function, Energy flow in the Ecosystem, Ecological Pyramids and Ecological Succession.								
2	Natural 1	Resources		nd non-renewable, Soil ero oitation, Impacts of large D	sion and desertification, Deforestation, Water: Use ams, Case studies	6	C	CO2				
3		ersity and ervation	Endangered		of biodiversity, India as a Mega Diversity Nation, India, Threats to Biodiversity, Conservation of services.	6	C	CO3				
4	Pollution	onmental n, Policies ractices	Ozone layer Environmenta	depletion, acid rain and in al Laws: Environment P	tion, Solid waste management, Ill effects of fireworks, Climate change on, acid rain and impacts on human communities and Environment vs: Environment Protection Act, Wildlife protection Act, Forest onvention on Biological Diversity (CBD), Tribal rights, Human wildlife							
5	and	Population d the onment	Resettlement		on environment, human health and welfare, project affected persons, Environmental ethics, c awareness, case studies.	6	C	CO5				

Reference Books:

- 1) Agarwal, K.C. 2001 Environmental; Biology, Nidi Pub. Ltd. Bikaner.
- 2) Bharucha Erach, The Biodiversity of India, Mapin Pub. Pvt. Ltd., Ahemdabad-380, India.
- 3) Brunner R.C. 1989. Hazardous waste incineration, Mc Graw Hill
- 4) Clark R.S. Marine Pollution, Clanderon Press Oxford (TB)
- 5) Cunningham W.P.2001.Cooper, T.H. Gorhani, E & Hepworth, Environmental encyclopedia, Jacob Publication House, Mumbai.
- 6) De. A.K. Environmental chemistry Willey Eastern Limited.
- 7) Glick, H.P.1993 water in crisis, Pacific Institute for studies in dev, Environment & security, Stockholm Env, Institute, Oxford Univ, Press 473 p.
- 8) Hawkins R.E. Encyclopedia of Indian Natural History, Bombay Natural History Society, Bombay.
- 9) Heywood, V.H. & Watson, R. T.1995.Global biodiversity Assessment. Cambridge Univ. Press 1140 p.
- 10) Jadhave, H. and Bhosale, V. M. 1995 Environmental protection and laws, Himalaya pub, house, Delhi.284 p.
- 11) Mckinnery, M.L. and School, R. M.1996 Environmental science systems and solutions, web enhanced edition 639 p.
- 12) Mhaskar A.K. Matter Hazardous, Techno Science Pub (TM)
- 13) Miller T.G. Jr, Environmental Ecology, W. B. Saunders Co.USA,574 p. 16
- 14) Odum, E.P.1997.Fundamental chemistry, Goel Pub House Meerut.
- 15) Survey of the Environment, The Hindu (M).
- 16) Sharma B.K.2001.Environmental Chemistry, Goel Pub House Meerut

e-Learning Source:

https://byjus.com/biology/difference-between-environment-and-eCO system.

https://www.youtube.com/watch?v=dRPl4TB8w7k

https://www.youtube.com/watch?v=3fbEVytyJCk

https://www.vedantu.com/biology/conservation-of-biodiversity

https://you matter.world/en/definition/soil-erosion-degradation-definition/

https://byjus.com/biology/difference-between-environment-and-eCOsystem.

	Course Articulation Matrix: (Mapping of COs with POs and PSOs)																
PO- PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
CO1	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-
CO2	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-
CO3	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-
CO4	-	-	-	-	-	-	2	-	-	1	2	-	-	-	-	-	-
CO5	-	-	-	-	-	-	1	1	-	1	2	-	-	-	1	1	-

1- Low Correlation; 2- Moderate Correlation; 3- Substantial Correlation Attributes & SDGs Common for all branches/Disciplines

Course Code	Course Title			Att	ributes				
ES01	Environmental	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	SDGs No.
	Studies	Studies					V		



Effecti	fective from Session: 2025-26												
Course	e Code	LN131	Title of the Course	EFFECTIVE COMMUNICATION AND MEDIA STUDIES IN ENGLISH	L	Т	P	С					
Year		I	Semester	II	2	1	0	3					
Pre-Re	equisite	10+2	Co-requisite	UG									
Course Object ives		The students will be able to: Developing the art of communication and learning basic skills of conversation along with knowledge of Professional and Media Skill Development, Career enhancement tips and goal-oriented learning.											
				Course Outcomes									
CO1	Students	will be able t	o develop Formal	and Informal Spoken skills, learn career development skills and learn to have c	lear ide	ea of go	oal setti	ng.					
CO2	Students	will learn abo	out the importance	and usage of mass media and ways to develop their media skills.									
CO3		emic Writing will help students to format and structure the content they create which will help them to be professional writers and bloggers.											
CO4	The unit will help students to learn and develop better conversation skills in formal and informal setup. They will learn the proper usage and pronunciation in various accent enabling them to converse in competitive environment.												
CO5	The unit	unit enables students to put all the theoretical knowledge to practice, assuring complete learning and implementation											

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	COMMUNICATI ON INPRACTICE	 1. Do's and Don'ts of Formal and Informal Communication 2. Tips on Career Management- Setting Clear Goals, Skill Development, Network Building and Professional Relationship Etiquette, Knowing Aptitude and Values. 3. Classroom Practice- 4. JAM (Just A Minute) 5. Extempore, Rebuttal, Forum, Role Play. 	7	CO1
2	MASS COMMUNICATI ONAND JOURNALISM	 Introduction to Mass Communication. Types of Mass Communication/ Mass Media Impact of Globalization on Mass Media Socio Political Impact of Digital Media Advertisement- Ethical and Unethical Advertisement, Jingles, Tag Lines, Punch Lines, MediaWriting. 	7	CO2
3	FUNDAMENTALS OF ACADEMIC WRITING	 The four main types of academic writing- Descriptive, Analytical, Persuasive and Critical. Writing Book Review, Introduction to Descriptive Writing Techniques and Features of Descriptive Writing - Character, Place and Travel Description, Event, Movie and Food description. 	7	CO3
4	CONVERSATION SKILLS	Phonetics- Learning Speech Mechanism (Voice and Accent) A. Introduction- Self and Other-Guest Speaker / Colleague	7	CO4
5	ACADEMIC PROJECT	1. Creating News Bytes 2. Writing News Report 3. Creating Jingles and Tag Lines for Famous Brands. 4. Writing Editorial on a Topical Subject 5. Writing Film Reviews 6. Travelogue	4	CO5

Reference Books:

- 1. Kumar, Sanjay and Pushpalata. Communication Skills. Oxford University Press, Oxford 2011.
- 2. Raman, Meenakshi, and Sangeeta Sharma. Technical Communication: Principals and Practice. Second Edition, Oxford University Press, 2012.
- 3. Raina, Roshan Lal, Iftikhar Alam, and Faizia Siddiqui. Professional Communication. Himalaya PublicationHouse2012.
- 4. Agarwal, Malti. Professional Communication. Krishna's Educational Publishers. 2016.
- 5. Carnegie, Dale. How to Win Friends and Influence People in the Digital Age. Simonand Schuster. 2012.
- 6. Covey, Stephen R. The Seven Habits of Highly Successful People. Free Press. 1989.
- 7. Verma, KC. The Art of Communication. Kalpaz. 2013.
- 8. Alred, G. J., Brusaw, C. T., & Oliu, W. E. (2011). Handbook of Technical Writing, Tenth Edition (10th ed.). St. Martin's Press
- 9. Sherman, Barbara. (2014). Skimming and Scanning Techniques. Liberty University Press.
- 10. Barker, Alan. (2011). Improve Your Communication Skills. Kogan Page Pub. [later edited version to be added if any]11Seely, John. (1998). The Oxford Guide to Effective Writing and Speaking. Oxford UP.

e-Learning Source:

- 1. http://www.uBOTunotes.com/notes-professional-communication-unit-i-nas-104...
- 2. https://www.docsity.com/en/subjects/professional-communication/
- $3. \ \underline{https://lecturenotes.in/download/note/22690-note-for-communication-skills-for-profession...}$
- 4. https://www.files.ethz.ch/isn/125396/1154_trystnehru.pdf
- 5. https://kr.usembassy.gov/martin-luther-king-jr-dream-speech-1963/#:~:text=I%20have%20a%20dream%20that,skin%20but%20by%20their%20.

		Course Articulation Matrix: (Mapping of COs with POs and PSOs)															
PO-PSO CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO4	PSO5	PSO6	PSO7
CO1	3	1	1	2	2	1	2	3	3	1	2	3	2	2	3	2	3
CO2	3	3	2	2	2	2	2	1	2	2	2	2	2	3	3	3	3
CO3	3	2	2	3	2	3	3	2	2	3	2	2	3	3	3	3	3
CO4	2	3	1	2	3	1	2	2	3	3	3	3	3	2	2	2	2
CO5	3	2	2	1	2	3	3	3	2	3	2	3	2	2	3	3	2

Course Code	Course Title		Attributes						SDGs
LN131	Effective Communication and Media Studies in	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	No.
	English	ı	1	l				1	3,4,6



Effective from Session	Effective from Session: 2025-26												
Course Code	BOT113	Title of the Course	HUMAN ANATOMY-II LAB	L	T	P	C						
Year	I	Semester	II	0	0	2	1						
Pre-Requisite	NIL	Co-requisite	Nil										
Course Objectives	The student will be	e student will be able to demonstrate knowledge in human anatomy as needed for the study and practice of Occupational											
Course Objectives	Therapy.												

	Course Outcomes
CO1	To understand about the structure of thoracic wall& its application in practice of Occupational Therapy.
CO2	To understand about the Viscera of thoracic cavity& its application in practice of Occupational Therapy.
CO3	To understand about the Abdomen and Pelvis& its application in practice of Occupational Therapy.
CO4	To understand about the Head and Neck & its application in practice of Occupational Therapy.
CO5	To understand about the Neuro Anatomy and its application in practice of Occupational Therapy.

Unit No.	Title of the Unit		Content of Unit	Contact Hrs.	Mapped CO
		1.	Practical demonstration of skeleton of thoracic wall		
1	THORACIC WALL	2.	Practical demonstration of movement of thoracic wall	4	CO1
		3.	Practical demonstration of surface land marks of thoracic wall		
	VISCERA OF	1.	Practical demonstration of surface anatomy of lung and heart		
2	THORACIC	2.	Auscultatory land marks for heart and lungs	4	CO2
	CAVITY	3.	Surface land marks and functional demonstration of diaphragm		
	ADDOMENI 0	1.	Functional demonstration of abdominal muscle		
3	ABDOMEN & PELVIS	2.	Practical demonstration of region of abdomen	4	CO3
3	PELVIS	3.	Practical demonstration of pelvic floor muscle	4	COS
		4.	Surface and palpatory landmarks for pelvis		
		1.	Functional demonstration of muscles responsible for facial expression		
		2.	Palpation of muscle responsible for facial expression		
		3.	Functional demonstration of muscles of mastication		
4	HEAD AND NECK	4.	Palpation of muscles of mastication	4	CO4
		5.	Functional demonstration and palpation of cervical muscles		
		6.	Demonstration of movement and palpatory structure of TMJ and atlantoaxial,		
			Atlantooccipital joint.		
5	NEURO-	1.	Functional demonstration of CNS.	4	CO5
)	ANATOMY	2.	Functional demonstration of cranial and spinal nerve.	+	003

Reference Books:

- B.D. Chaurasia's, Human Anatomy-Volume 1, 2, 3 CBS Publishers & Distributors. Inderbir Singh, Textbook of Anatomy with Colour Atlas-Vol. 1, 2, 3 Jaypee Brothers.
- Snell-Clinical Anatomy by regions -Lippincott.
- McMinn's Last's Anatomy-Regional and applied, Churchill Livingstone.
- 5 Cunningham Manual of Practical Anatomy Vol. I, II, III, Churchill Livingstone.
- Williams & Warwick, Gray's Anatomy-Churchill Livingstone. 6
- Extremities by Quining Wasb
- Basic Anatomy & Physiology by Smout and McDowell

e-Learning Source:

- 1. https://youtu.be/X5RUFXZZBH4
- 2. https://youtu.be/06o_XNKwuOE
- https://youtu.be/4Sab-2E4ZDI

					Cor	ırse Ar	ticulati	on Mat	rix: (Ma	apping of	COs wit	h POs an	d PSOs)			
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3	PSO4	PSO5
CO	101	102	103	104	103	100	107	100	10)	1010	1011	1501	1502	1503	1504	1503
CO1	1	3	1	2	-	-	-	1	1	1	3	2	2	1	1	1
CO2	1	3	2	2	-	-	-	1	1	1	3	2	2	1	1	1
CO3	1	3	1	2	-	-	-	1	1	1	3	2	1	1	1	1
CO4	2	3	1	2	-	-	-	1	1	1	3	2	2	1	1	1
CO5	1	3	1	2	-	-	-	1	1	1	3	2	1	1	1	1

Course Code	Course Title			Att	ributes				SDGs
BOT113	HUMAN ANATOMY- II LAB	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	No.
	II LAD	1	1	1	1		1	1	3,4



Effective from Session	n: 2025-26									
Course Code	BOT114	Title of the Course	HUMAN PHYSIOLOGY-II LAB	L	T	P	C			
Year	I	Semester	II	0	0	2	1			
Pre-Requisite	Nil	Nil Co-requisite Nil								
The student will be able to demonstrate knowledge in human physiology as needed for the study and practice of Occupationa										
Course Objectives	Therapy.									

	Course Outcomes
CO1	To understand about excretory function& its application in practice of Occupational Therapy.
CO2	To understand about gastro intestinal tract& its application in practice of Occupational Therapy.
CO3	To understand about Nervous system and special senses& its application in practice of Occupational Therapy.
CO4	To understand about Endocrine system & its application in practice of Occupational Therapy.
CO5	To understand about reproductive system and its application in practice of Occupational Therapy.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	EXCRETORY FUNCTION	Practical demonstration of excretory function on models, charts and videos	4	CO1
2	GASTRO INTESTINALTRACT(GIT)	Practical demonstration of gastro intestinal tract on models, charts and videos	4	CO2
3	NERVOUS SYSTEM &SPECIALSENSES	 Practical demonstration of nervous system and special senses on models, charts and videos Practical demonstration of sensory and motor function on models, charts and videos Practical demonstration of posture and equilibrium 	4	CO3
4	ENDOCRINESYSTEM	Practical demonstration of endocrine system on models, charts and videos	4	CO4
5	REPRODUCTIVESYSTEM	Practical demonstration of reproductive system on models, charts and videos	4	CO5

Reference Books:

- 1. Concise Medical Physiology by Chaudhuri, 4th Edition; New Central Book Agency.
- 2. Human Physiology, Sembulingam; 4th ed, Jaypee Brothers.
- 3. A Textbook of Practical Physiology, Ghai C L, Jaypee Brothers.
- 4. Practical physiology by Vijaya Joshi; Vora Medical Publication.
- 5. Human Physiology, Chatterjee. Vol: 1&2; 10th Edition; Medical & Allied Agency
- 6. Textbook of Medical Physiology by Guyton & Hall, 11th Edition; Elsevier Publication
- 7. Samson Wright's Applied Physiology 13th ed, Keele CA, Neil E & Joels N, Oxford Medical Pub.
- 8. Principles of Anatomy & Physiology, Tortora, 8th Edition; Harper & Row Publication.
- 9. Textbook of Physiology : Ganong

e-Learning Source:

- 1. https://youtu.be/jagVY0XMVk
- 2. https://youtu.be/cXPuW6ZwcFE
- 3. https://youtu.be/VAEmxt78bBI
- 4. https://youtu.be/vLdNX5Te1Xo

					Cou	ırse Ar	ticulati	on Mat	rix: (Ma	apping of	COs wit	h POs an	d PSOs)			
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3	PSO4	PSO5
CO	101	102	103	104	103	100	107	100	10)	1010	1011	1501	1502	1303	1504	1303
CO1	1	3	1	2	-	-	-	1	2	-	2	2	1	-	1	1
CO2	1	3	1	3	-	-	-	1	3	-	3	3	2	-	1	1
CO3	1	3	1	2	-	-	-	1	2	-	2	3	1	-	1	1
CO4	1	3	1	2	-	-	-	1	3	1	3	2	1	- 1	1	1
CO5	1	3	1	2	-	-	-	1	2	-	2	2	1	-	1	1

Course Code	Course Title		Attributes								
BOT114	HUMAN	Employability	Entrepreneurship	Skill Development	Gender Equality	Environment & Sustainability	Human Value	Professional Ethics	No.		
	PHYSIOLOGY-II LAB	√	√	√	√		√	1	3,4		



Effective from Sessio	Effective from Session: 2025-26											
Course Code	BOT115	Title of the Course	FUNDAMENTALS OF OCCUPATIONAL-II LAB	L	T	P	C					
Year	Ι	Semester	II	0	0	2	1					
Pre-Requisite	Nil	Co-requisite	Nil									
Course Objectives	The student	ne student will be able to demonstrate the knowledge in basic of exercise therapy as needed for the study and										
Course Objectives	practice of Occupational Therapy											

	Course Outcomes: After the successful course completion, learners will develop following attributes:
CO1	To understand the meaning and role of occupations and impact of health and environmental conditions on occupational performance of
	persons, groups, and populations.
CO2	To understand & explain the meaning and dynamics of occupation and activity, including the interaction of areas of occupation, performance
	skills, performance patterns, activity demands, context(s) and environments, and client factors.
CO3	To apply and demonstrate basic skill in activity analysis and its role in therapeutic activity selection and implementation.
CO4	To apply and acquire knowledge in using therapeutic techniques in training ADL (activities of daily living) to help them to line independently.
CO5	To analyze and demonstrate task analysis in the areas of occupation, performance skills, performance patterns, activity demands, context(s),
	and environments, and client factors to formulate an intervention plan.

Unit No.	Title of the Unit	Content of Unit	Contact Hrs.	Mapped CO
1	Application of Occupational Therapy in		4	CO1
2	Environments for Practice	Knowledge of various assessment methods and their demonstration on	4	CO2
3	Basic concepts of human development	models /clients in the following areas A.D.L. Work and Productive activities Play / Leisure Performance	4	CO3
4	Human Development Process	context Environmental context Temporal aspects	4	CO4
5	Definitions, Classification / Components, Assessments / Evaluations		4	CO5

Reference Books:

- 1. Helen S. Willard (Editor), Clare S. Spackman (Editor), H.L. Hopkins H.D. Smith (1993), Willard & Speckman Occupational Therapy, 8th edition, Lippincott Williams and Wilkins; USA, 976 pages.
- 2. Turner, Ann; Foster, Margaret, (1992), Occupational Therapy and Physical Dysfunction: Principles, Skills and Practice, Third Edition, Churchill Livingstone Publications, UK
- 3. Lorraine Williams Pedretti, (1996) Occupational Therapy: Practice Skills for Physical Dysfunction, 4th edition, Mosby Publications, UK, 896 pages
- 4. Catherine Anne Trombly ,1983, Occupational therapy for physical dysfunction, 2nd edition, Williams & Wilkins; (January 1, 1983), USA, 512 pages
- 5. Margarett Hollis, Massage for therapist: Margarett Hollis

e-Learning Source:

- 1. https://youtu.be/X5RUFXZZBH4
- 2. https://youtu.be/06o_XNKwuOE
- 3. https://youtu.be/4Sab-2E4ZDI

		Course Articulation Matrix: (Mapping of COs with POs and PSOs)														
		Course Articulation Matrix: (Mapping of COs with FOs and FSOs)														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PSO1	PSO2	PSO3	PSO4	PSO5
CO	101	102	103	104	103	100	107	100	10)	1010	1011	1501	1502	1503	1504	1503
CO1	2	3	-	2	1	-	-	-	1	1	1	2	1	3	2	1
CO2	1	3	-	2	ı	-	-	-	1	ı	1	2	1	3	2	1
CO3	2	3	-	2	ı	-	-	-	1	1	1	2	1	3	2	1
CO4	1	3	-	1	-	-	-	-	1	-	1	2	1	3	2	1
CO5	2	3	-	1	-	-	-	-	1	-	1	2	1	3	2	1

Course Code	Course Title		Attributes								
	Fundamentals of	Employability	Entrapropagachin	Skill	Gender	Environment &	Human	Professional	No.		
BOT115	15 Fundamentals of Occupational-II Lab	Employability	Entrepreneurship	Development	Equality	Sustainability	Value	Ethics			
		√	1 1		√		√	4	3,4		