

Babu Banarasi Das University, Lucknow
School of Allied Health Sciences
School Code: 13
University Branch Code: 19
Evaluation Scheme (w.e.f. – 2025-26)

BACHELOR OF PHYSIOTHERAPY

SET 1

	COURSE CODE	COURSE NAME	COURSE TYPE	Periods			Total Credits	Evaluation Scheme		
				L	T	P		CIA	ESE	Subject Total
SET 1	BPT 101T	Foundations of Physiotherapy	DSC	2	1	0	4	40	60	100
	BPT 102T	Vital Signs and Management of Medical Emergencies	DSC	2	0	0	2	40	60	100
	BPT 103T	Healthcare Delivery System	MD	2	1	0	3	40	60	100
	BPT 104T	Digital Literacy	AEC	2	0	0	2	60	40	100
	BPT 105T	Communicative English	SEC	2		0	3	60	40	100
	BPT 106T	Environment and Ecological Sustainability	VAC	2	1	0	3	40	60	100
	BPT 101P	Foundations of Physiotherapy Lab	DSC	0	0	6	3	60	40	100
	BPT 102P	Vital Signs and Management of Medical Emergencies Lab	DSC	0	0	4	2	60	40	100
	Total			13	4	10	22	400	400	800

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	COURSE CODE	COURSE NAME	COURSE TYPE	Periods			Total Credits	Evaluation Scheme		
				L	T	P		CIA	ESE	Subject Total
SET 2	BPT 201T	Therapeutic Exercise, Electrotherapy, and Movement Analysis	DSC	3	1	0	4	40	60	100
	BPT 202T	Infection Control and Biomedical Waste Management	DSC	2	0	0	2	40	60	100
	BPT 203T	Medical Laboratory and Pharmacological Sciences	MD	2	1	0	3	40	60	100
	BPT 204T	Business Communication	AEC	2	1	0	3	60	40	100
	BPT 205T	Job Ready Skills I	SEC	2	0	0	2	60	40	100
	BPT 206T	AI Tools	VAC	2	1	0	3	40	60	100
	BPT 201P	Therapeutic Exercise, Electrotherapy, and Movement Analysis Lab	DSC	0	0	6	3	60	40	100
	BPT 202P	Infection Control and Biomedical Waste Management Lab	DSC	0	0	4	2	60	40	100
		Total		13	4	10	22	400	400	800

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	COURSE CODE	COURSE NAME	COURSE TYPE	Periods			Total Credits	Evaluation Scheme		
				L	T	P		CIA	ESE	Subject Total
SET 3	BPT 301T	Clinical Physiotherapy I	DSC	3	1	0	4	40	60	100
	BPT 302T	General Medicine, Surgery and Orthopedics	DSC	2	1	0	3	40	60	100
	BPT 303T	Ethics, Law, and Hospital Services	MD	2	1	0	3	40	60	100
	BPT 304T	Sales and Marketing	AEC	2	1	0	3	60	40	100
	BPT 305T	Job Ready Skills II	SEC	2	0	0	2	60	40	100
	BPT 301P	Clinical Physiotherapy I Lab	DSC	0	2	8	4	60	40	100
	BPT 302P	General Medicine, Surgery and Orthopedics Lab	DSC	0	0	6	3	60	40	100
		Total		11	4	14	22	360	340	700

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	COURSE CODE	COURSE NAME	COURSE TYPE	Periods			Total Credits	Evaluation Scheme		
				L	T	P		CIA	ESE	Subject Total
SET 4	BPT 401T	Clinical Physiotherapy II	DSC	3	1	0	4	40	60	100
	BPT 402T	Sports Physiotherapy & Exercise Prescription	DSC	3	1	0	4	40	60	100
	BPT 403T	Community Physiotherapy	DSC	2	2	0	4	40	60	100
	BPT 404T	Rehabilitation	DSC	2	0	0	2	40	60	100
	BPT 405T	Leadership Skills for Business Success	AEC	2	0	0	2	60	40	100
	BPT 401P	Clinical Physiotherapy II Lab	DSC	0	0	8	4	60	40	100
	BPT 402P	Sports Physiotherapy & Exercise Prescription Lab	DSC	0	0	4	2	60	40	100
		Total		12	4	12	22	340	360	700

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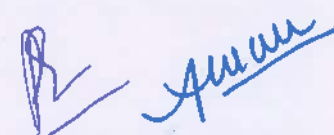
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SET 5	COURSE CODE	COURSE NAME	COURSE TYPE	Periods			Total Credits	Evaluation Scheme		
				L	T	P		CIA	ESE	Subject Total
	BPT 501P	Patient Communication and Counselling	DSC	0	0	24	12	60	40	100
	BPT 502P	Managing Medical Emergencies	DSC	0	0	12	6	60	40	100
	BPT 503P	Summer Internship	SI	0	0	4	2	60	40	100
		Total		0	0	40	20	180	120	300

SET 6	COURSE CODE	COURSE NAME	COURSE TYPE	Periods			Total Credits	Evaluation Scheme		
				L	T	P		CIA	ESE	Subject Total
	BPT 601P	Infection Control Practices	DSC	0	0	24	12	60	40	100
	BPT 602P	Exercise Therapy	DSC	0	0	12	6	60	40	100
BPT 603P	Internship	SEC	0	0	4	2	60	40	100	
				0	0	40	20	180	120	300



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	COURSE CODE	COURSE NAME	COURSE TYPE	Periods			Total Credits	Evaluation Scheme		
				L	T	P		CIA	ESE	Subject Total
SET 7	BPT 701P	Electrotherapy	DSC	0	0	24	12	60	40	100
	BPT 702P	Assessment and Documentation Skills	DSC	0	0	16	8	60	40	100
		Total		0	0	40	20	120	80	200

	COURSE CODE	COURSE NAME	COURSE TYPE	Periods			Total Credits	Evaluation Scheme		
				L	T	P		CIA	ESE	Subject Total
SET 8	BPT 801P	Clinical Physiotherapy	DSC	0	0	16	8	60	40	100
	BPT 802P	Professional Ethics and Conduct in Physiotherapy	DSC/RP	0	0	8	4	60	40	100
	BPT 803P	Community and Sports Physiotherapy	DSC/RP	0	0	8	4	60	40	100
	BPT 804P	Rehabilitation and Functional Training	DSC/RP	0	0	8	4	60	40	100
		Total		0	0	40	20	240	160	400







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LEVEL 6 (Bachelor)

1st Classroom Semester- Set 1
2nd Classroom Semester- Set 2
3rd Classroom Semester- Set 3
4th Classroom Semester- Set 4

1st Internship Semester- Set 5
2nd Internship Semester- Set 6
3rd Internship Semester- Set 7
4th Internship Semester- Set 8

LEVEL 5 (Diploma)

1st Classroom Semester- Set 1
2nd Classroom Semester- Set 2

1st Internship Semester- Set 5
2nd Internship Semester- Set 6

LEVEL 5.5 (B.Sc.)

1st Classroom Semester- Set 1
2nd Classroom Semester- Set 2
3rd Classroom Semester- Set 3

1st Internship Semester- Set 5
2nd Internship Semester- Set 6
3rd Internship Semester- Set 7

LEVEL 4.5 (Certificate)

1st Classroom Semester- Set 1

1st Internship Semester- Set 5

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BACHELOR OF SCIENCE (HONORS) (MEDICAL LABORATORY TECHNOLOGY)

Students choosing the level 4.5 exit will study set 1 in semester I and set 5 in semester II

	COURSE CODE	COURSE NAME	COURSE TYPE	CREDITS				Evaluation Scheme--		
				L	T	P	Total	CIA	ESE	Subject Total
SEMESTER-I (The student will study set 1)	BPT 101T	Foundations of Physiotherapy	DSC	3	1	0	4	40	60	100
	BPT 102T	Vital Signs and Management of Medical Emergencies	DSC	2	0	0	2	40	60	100
	BPT 103T	Healthcare Delivery System	MD	2	1	0	3	40	60	100
	BPT 104T	Digital Literacy	AEC	2	0	0	2	60	40	100
	BPT 105T	Communicative English	SEC	2	1	0	3	60	40	100
	BPT 106T	Environment and Ecological Sustainability	VAC	2	1	0	3	40	60	100
	BPT 101P	Foundations of Physiotherapy Lab	DSC	0	0	6	3	60	40	100
	BPT 102P	Vital Signs and Management of Medical Emergencies Lab	DSC	0	0	4	2	60	40	100
	Total			13	4	10	22	400	400	800

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1. An exit request for UG certificate can be raised maximum before the start of Semester II. In case a student raises a request for exit after the start of Semester II, they can only opt for the next available exit stage i.e. 2 year UG Diploma.
2. If a student does not wish to either opt for the next available exit stage or continue with the course, no certification will be provided to the student.
3. Students have to pass all the previous exams in order to be eligible for the internship semester.
4. In case a student fails in any of the exams in any semester, s/he will get another chance to reappear in the next end semester exam.
5. If a student wants to exit for a UG Certificate, after Semester I, then s/he has to complete the required credits in the internship semesters as given below.

SEMESTER -II (Student will study set 5)	COURSE CODE	COURSE NAME	COURSE TYPE	CREDITS				Evaluation Scheme--		
				L	T	P	Total	CIA	ESE	Subject Total
	BPT 501P	Patient Communication and Counselling	DSC	0	0	24	12	60	40	100
	BPT 502P	Managing Medical Emergencies	DSC	0	0	12	6	60	40	100
	BPT 503P	Summer Internship	SI	0	0	4	2	60	40	100
				0	0	40	20	180	120	300

Students exiting the programme after securing 40 credits will be awarded a UG Certificate (Physical Therapy), provided they secure 4 credits in work-based vocational courses offered during the summer term or an internship / Apprenticeship in addition to 6 credits from skill-based courses earned during the first and second semester.

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Students choosing the level 5 exit will study set 1 in semester I, set 2 in semester II, set 5 in semester III, and set 6 in semester IV

If a student wants to continue after Semester I, then this SET will be followed for Semester II.

	COURSE CODE	COURSE NAME	COURSE TYPE	CREDITS				Evaluation Scheme--		
				L	T	P	Total	CIA	ESE	Subject Total
SEMESTER -II (Student will study set 2)	BPT 201T	Therapeutic Exercise, Electrotherapy, and Movement Analysis	DSC	3	1	0	4	40	60	100
	BPT 202T	Infection Control and Biomedical Waste Management	DSC	2	0	0	2	40	60	100
	BPT 203T	Management Medical Laboratory and Pharmacological Sciences	MD	2	1	0	3	40	60	100
	BPT 204T	Business Communication	AEC	2	1	0	3	60	40	100
	BPT 205T	Job Ready Skills I	SEC	2	0	0	2	60	40	100
	BPT 206T	AI Tools	VAC	2	1	0	3	40	60	100
	BPT 201P	Therapeutic Exercise, Electrotherapy, and Movement Analysis Lab	DSC	0	0	6	3	60	40	100
	BPT 202P	Infection Control and Biomedical Waste Management Lab	DSC	0	0	4	2	60	40	100
				13	4	10	22	400	400	800

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1. An exit request for a UG diploma can be raised maximum before the start of Semester III. In case a student raises a request for exit after the start of Semester III, they can only opt for the next available exit stage i.e. 3 year UG Degree.
2. If a student does not wish to either opt for the next available exit stage or continue with the course, no certification will be provided to the student.
3. Students have to pass all the previous exams in order to be eligible for the internship semester.
4. In case a student fails in any of the exams in any semester, s/he will get another chance to reappear in the next end semester exam.
5. If a student wants to exit for a UG Diploma after Semester II, then s/he has to complete the required credits in the internship semesters as given below.

SEMESTER-III (Student will study set 5)	COURSE CODE	COURSE NAME	COURSE TYPE	CREDITS				Evaluation Scheme--		
				L	T	P	Total	CIA	ESE	Subject Total
	BPT 501P	Patient Communication and Counselling	DSC	0	0	24	12	60	40	100
	BPT 502P	Managing Medical Emergencies	DSC	0	0	12	6	60	40	100
	BPT 503P	Summer Internship	SI	0	0	4	2	60	40	100
				0	0	40	20	180	120	300

SEMESTER-IV (Student will study set 6)	COURSE CODE	COURSE NAME	COURSE TYPE	CREDITS				Evaluation Scheme--		
				L	T	P	Total	CIA	ESE	Subject Total
	BPT 601P	Infection Control Practices	DSC	0	0	24	12	60	40	100
	BPT 602P	Exercise Therapy	DSC	0	0	12	6	60	40	100
	BPT 603P	Internship	SEC	0	0	4	2	60	40	100
				0	0	40	20	180	120	300

Students exiting the programme after securing 80 credits will be awarded a UG Diploma (Physical Therapy), provided they secure an additional 4 credits in skill-based vocational courses offered during the first year or second year summer term. If a student wants to continue after Semester II, then this SET will be followed for Semester III.

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Students choosing the level 5.5 exit will study set 1 in semester 1, set 2 in semester II, set 3 in semester III, set 5 in semester IV, set 6 in semester V, and set 7 in semester VI

If a student wants to continue after Semester II, then this SET will be followed for Semester III.

	COURSE CODE	COURSE NAME	COURSE TYPE					Evaluation Scheme--		
				CREDITS				CIA	ESE	Subject Total
					T	P	Total			
SEMESTER -III (Student will study set 3)	BPT 301T	Clinical Physiotherapy I	DSC	3	1	0	4	40	60	100
	BPT 302T	General Medicine, Surgery and Orthopedics	DSC	2	1	0	3	40	60	100
	BPT 303T	Ethics, Law, and Hospital Services	MD	2	1	0	3	40	60	100
	BPT 304T	Sales and Marketing	AEC	2	1	0	3	60	40	100
	BPT 305T	Job Ready Skills II	SEC	2	0	0	2	60	40	100
	BPT 301P	Clinical Physiotherapy I Lab	DSC	4	0	8	4	60	40	100
	BPT 302P	General Medicine, Surgery and Orthopedics Lab	DSC	3	0	6	3	60	40	100
				11	4	14	22	360	340	700

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1. An exit request for 3 year UG degree can be raised maximum before the start of Semester IV. In case a student raises a request for exit after the start of Semester IV, they can only opt for the next available exit stage i.e. 4 year UG degree with honors.
2. If a student does not wish to either opt for the next available exit stage or continue with the course, no certification will be provided to the student.
3. Students have to pass all the previous exams in order to be eligible for the internship semester.
4. In case a student fails in any of the exams in any semester, s/he will get another chance to reappear in the next end semester exam.
5. If a student wants to exit for a 3 year UG Degree, after Semester III, then s/he has to complete the required credits in the internship semesters as given below.

SEMESTER -IV (Student will study set 5)	COURSE CODE	COURSE NAME	COURSE TYPE	CREDITS				Evaluation Scheme--		
				L	T	P	Total	CIA	ESE	Subject Total
	BPT 501P	Patient Communication and Counselling	DSC	0	0	24	12	60	40	100
	BPT 502P	Managing Medical Emergencies	DSC	0	0	12	6	60	40	100
	BPT 503P	Summer Internship	SI	0	0	4	2	60	40	100
				0	0	40	20	180	120	300

SEMESTER -V (Student will study set 6)	COURSE CODE	COURSE NAME	COURSE TYPE	CREDITS				Evaluation Scheme--		
				L	T	P	Total	CIA	ESE	Subject Total
	BPT 601P	Infection Control Practices	DSC	0	0	24	12	60	40	100
	BPT 602P	Exercise Therapy	DSC	0	0	12	6	60	40	100
	BPT 603P	Internship	SEC	0	0	4	2	60	40	100
				0	0	40	20	180	120	300

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SEMESTER- VI (Student will study set 7)	COURSE CODE	COURSE NAME	COURSE TYPE					Evaluation Scheme--		
				CREDITS				CIA	ESE	Subject Total
				L	T	P	Total			
	BPT 701P	Electrotherapy	DSC	0	0	24	12	60	40	100
	BPT 702P	Assessment and Documentation Skills	DSC	0	0	16	8	60	40	100
				0	0	40	20	120	80	200

Students who want to undertake a 3-year UG programme will be awarded a Bachelor of Science (Physical Therapy) degree upon securing 120 credits

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Students choosing the level 6 exit will study set 1 in semester I, set 2 in semester II, set 3 in semester III, set 4 in semester IV, set 5 in semester V, set 6 in semester VI, set 7 in semester VII, and set 8 in semester VIII

If a student wants to continue after Semester III, the SET will be followed for the remaining semesters.

	COURSE CODE	COURSE NAME	COURSE TYPE	CREDITS				Evaluation Scheme--		
				L	T	P	Total	CIA	ESE	Subject Total
SEMESTER -IV (Student will study set 4)	BPT 401T	Clinical Physiotherapy II	DSC	3	1	0	4	40	60	100
	BPT 402T	Sports Physiotherapy & Exercise Prescription	DSC	3	1	0	4	40	60	100
	BPT 403T	Community Physiotherapy	DSC	2	2	0	4	40	60	100
	BPT 404T	Rehabilitation	DSC	2	0	0	2	40	60	100
	BPT 405T	Leadership Skills for Business Success	AEC	2	0	0	2	60	40	100
	BPT 401P	Clinical Physiotherapy II Lab	DSC	0	0	8	4	60	40	100
	BPT 402P	Sports Physiotherapy & Exercise Prescription Lab	DSC	0	0	4	2	60	40	100
				12	4	12	22	340	360	700

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1. Students have to pass all the previous exams in order to be eligible for the internship semester.
2. In case a student fails in any of the exams in any semester, s/he will get another chance to reappear in the next end semester exam.

SEMESTER-V (Student will study set 5)	COURSE CODE	COURSE NAME	COURSE TYPE	CREDITS				Evaluation Scheme--		
					T	P	Total	CIA	ESE	Subject Total
	BPT 501P	Patient Communication and Counselling	DSC	0	0	24	12	60	40	100
	BPT 502P	Managing Medical Emergencies	DSC	0	0	12	6	60	40	100
	BPT 503P	Summer Internship	SI	0	0	4	2	60	40	100
				0	0	40	20	180	120	300

SEMESTER-VI (Student will study set 6)	COURSE CODE	COURSE NAME	COURSE TYPE	CREDITS				Evaluation Scheme--		
				L	T	P	Total	CIA	ESE	Subject Total
	BPT 601P	Infection Control Practices	DSC	0	0	24	12	60	40	100
	BPT 602P	Exercise Therapy	DSC	0	0	12	6	60	40	100
	BPT 603P	Internship	SEC	0	0	4	2	60	40	100
				0	0	40	20	180	120	300

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SEMESTER-VII (Student will study set 7)	COURSE CODE	COURSE NAME	COURSE TYPE	CREDITS				Evaluation Scheme--		
				L	T	P	Total	CIA	ESE	Subject Total
	BPT 701P	Electrotherapy	DSC	0	0	24	12	60	40	100
	BPT 702P	Assessment and Documentation Skills	DSC	0	0	16	8	60	40	100
				0	0	40	20	120	80	200

SEMESTER-VIII (The student will study set 8)	COURSE CODE	COURSE NAME	COURSE TYPE	CREDITS				Evaluation Scheme--		
				L	T	P	Total	CIA	ESE	Subject Total
	BPT 801P	Clinical Physiotherapy	DSC	0	0	16	8	60	40	100
	BPT 802P	Professional Ethics and Conduct in Physiotherapy	DSC/RP	0	0	8	4	60	40	100
	BPT 803P	Community and Sports Physiotherapy	DSC/RP	0	0	8	4	60	40	100
	BPT 804P	Rehabilitation and Functional Training	DSC/RP	0	0	8	4	60	40	100
				0	0	40	20	240	160	400

Students will be awarded a Bachelor of Physiotherapy degree provided they secure 160 credits

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Course Type Abbreviations:

DSC: Discipline Specific Core/Major Courses

MD: Multi-Disciplinary Courses

AEC: Ability Enhancement Courses

SEC: Skill Enhancement Courses

VAC: Common Values Added Courses

SI: Summer Internship

RP: Research Project

CIA: Continuous Internal Assessment

ESE: End Semester Examination

L: Lecture

T: Tutorial

P: Practical

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Babu Banarasi Das University, Lucknow
School of Allied Health Sciences
School Code: 13
University Branch Code: 19
Evaluation Scheme (w.e.f. – 2025-26)

PROGRAM OUTCOMES

- PSO1: Demonstrate a comprehensive understanding of human anatomy, physiology, and medical terminology to support accurate assessment, communication, and care planning in physiotherapy practice.
- PSO2: Apply principles of biomechanics and kinesiology to evaluate posture, movement patterns, and functional limitations, and design individualized physiotherapeutic interventions.
- PSO3: Implement effective infection control, emergency response, and patient safety protocols to ensure safe delivery of physiotherapy services in clinical and community settings.
- PSO4: Assess, prescribe, and interpret relevant diagnostic investigations to support evidence-based decision-making and treatment planning for patients needing physiotherapy support.
- PSO5: Demonstrate clinical proficiency in the examination, evaluation, and physiotherapeutic management of various neuromusculoskeletal, cardiopulmonary, and neurological conditions.
- PSO6: Provide comprehensive physiotherapy care in preoperative, postoperative, and rehabilitation phases to promote functional recovery in surgical and trauma patients.
- PSO7: Safely operate, calibrate, and maintain physiotherapy equipment, ensuring optimal use in therapeutic interventions across diverse patient populations.
- PSO8: Demonstrate professionalism through ethical conduct, legal awareness, cultural competence, and effective communication within healthcare teams and with patients.
- PSO9: Utilize healthcare system knowledge, sales and marketing principles, and administrative skills to contribute to physiotherapy practice in hospital and private care settings.
- PSO10: Apply critical thinking, problem-solving, and task management strategies to enhance clinical efficiency and patient outcomes.
- PSO11: Cultivate leadership qualities, emotional intelligence, and adaptability to manage challenges and foster a positive therapeutic environment.
- PSO12: Engage in lifelong learning, research activities, and community-based rehabilitation programs to continuously advance physiotherapy practice and public health outcomes.



PROGRAM SPECIFIC OUTCOMES

PSO1: Demonstrate integrated knowledge of basic medical sciences and clinical physiotherapy to assess, diagnose, and manage diverse physical impairments and functional limitations.

PSO2: Develop as competent and compassionate physiotherapy professionals capable of contributing to individual and community health through prevention, intervention, and rehabilitation strategies.



Program	Bachelor of Physiotherapy				
Year	I	Semester		I	
Course Name	Foundations of Physiotherapy				
Code	BPT 101T				
Course Type	DSC	L	T	P	Credit
Pre-Requisite		3	1	0	4
Course Objectives	Understand the anatomical planes and positions used to describe the human body, and learn the foundational structure and usage of medical terminology including prefixes, suffixes, abbreviations, and directional terms. Explore the basics of human anatomy and physiology Describe the scope, evolution, and role of physiotherapy in healthcare teams. Summarize key principles, ethics, and standards of physiotherapy practice.				
Course Outcomes					
CO1	Describe human body structures using anatomical planes, positions, and appropriate medical terminology.				
CO2	Explain the structure and functions of cells, tissues, organs, and organ systems, and explain their interrelationships and roles in maintaining homeostasis and overall health.				
CO3	Explain the scope and evolution of physiotherapy and demonstrate how physiotherapy integrates with healthcare teams in providing holistic patient care.				
CO4	Apply the key principles, ethical guidelines, and professional standards in physiotherapy practice within a clinical setting.				

Module	Course Contents	Contact Hrs.	Mapped CO
1	Anatomical Planes, Anatomical Positions and Medical Terminology: Sagittal plane, Frontal plane, Transverse plane, Supine position, Prone position, Parts of medical terminology, Rules for constructing and interpreting medical terms, Terminology related to body parts, Regional terms of the human body, Directional terms, Abbreviations & symbols, Prefixes, Suffixes	15 Hours	CO1

2	Anatomy and Physiology: Cell, Tissue, Organ, Organ system, Digestive system, Respiratory system, Integumentary system, Circulatory system, Lymphatic System, Muscular system, Skeletal System, Urinary System, Reproductive System - Male and female, Endocrine system, Nervous System, Body fluids	15 Hours	CO2
3	Introduction to Physiotherapy: Definition and scope of physiotherapy, Historical evolution and development of the profession, Roles and responsibilities of a physiotherapist in healthcare, Overview of physiotherapy as a part of multidisciplinary healthcare teams	15 Hours	CO3
4	Principles and Philosophy of Physiotherapy: Core principles: restoration of movement, pain management, prevention of disability, Patient-centered care and ethical considerations, Evidence-based practice in physiotherapy, Introduction to professional standards and regulatory bodies	15 Hours	CO4

Suggested Readings

1. Davi-Ellen Chabner, Medical Terminology: A Short Course, Saunders, 2017
2. Barbara Janson Cohen, Shirley A Jone, Medical Terminology an Illustrated Guide, Ninth edition
3. G Deepa, PR Ashalatha, Textbook of Applied Anatomy and Physiology for Nurses, Jaypee Brothers Medical Publishers
4. B.D. Chaurasia, Applied Anatomy and Physiology for BSc Nursing Students, CBS Publishers & Distributors Pvt. Ltd.
5. Shukla Y, ed. Physiotherapy Handbook 2023. Ministry of Health & Family Welfare, Government of India; 2023.
6. Pagliarulo MA. Introduction to Physical Therapy. 7th ed. St. Louis, MO: Elsevier; 2025.
7. Porter S, ed. Tidy's Physiotherapy. 15th ed. Edinburgh: Elsevier; 2022

Online Resources

1. <https://pmc.ncbi.nlm.nih.gov/articles/PMC11808882/>
2. https://www.researchgate.net/publication/335616539_Introductory_Chapter_Physiotherapy_and_Rehabilitation
3. <https://ncahp.abdm.gov.in/Curriculum/Physiotherapy.pdf>
4. <https://www.sciencedirect.com/topics/nursing-and-health-professions/physiotherapy>

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2		1	2	1	-	-	-	2	-	1	3	2

CO2	3	1	2	2	1	-	-	-	2	-	1	3	2
CO3	1	1	2	-	1	2	-	3	2	2	2	3	3
CO4	1	1	3	1	2	2	1	3	2	2	3	2	3

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Program	Bachelor of Physiotherapy				
Year	I	Semester	I		
Course Name	Vital Signs and Management of Medical Emergencies				
Code	BPT 102T				
Course Type	DSC	L	T	P	Credit
Pre-Requisite		2	0	0	2
Course Objectives	Explain the concept, types, and normal ranges of vital signs, and demonstrate accurate measurement and interpretation using appropriate clinical methods and equipment.				
	Describe and apply the step-by-step process of administering Cardiopulmonary Resuscitation (CPR) in adults and children, and manage choking incidents effectively through risk identification and appropriate first aid techniques.				
	Provide appropriate first aid for common medical emergencies such as fractures, burns, hemorrhage, stroke, and wounds, ensuring timely and effective pre-hospital care.				
Course Outcomes					
CO1	Understand, measure and interpret the various types of vital signs and their normal ranges along with their clinical significance				
CO2	Perform CPR (Cardiopulmonary resuscitation) in adults and children.				
CO3	Assist in managing medical emergencies, including choking, fractures, burns, hemorrhage, stroke, and wounds.				

Module	Course Contents	Contact Hrs.	Mapped CO
1	Vital Signs and its Measurement: Introduction to vital signs, Types of vital signs, Normal ranges of vital signs, Methods and instruments used to monitor vital signs	10 Hours	CO1
2	CPR – Adult and Child: CPR (Cardiopulmonary resuscitation), Indications of CPR, Steps in CPR, The algorithm of Adult CPR, CPR (Cardiopulmonary resuscitation) in Child	10 Hours	CO2

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3	Common Medical Emergencies and its Management Choking/Foreign body airway obstruction, Risk factors of choking, Mechanism of occurrence of choking, Signs of choking, Complications of choking, Choking management, First aid for fractures, Burns management, Haemorrhage management, Stroke management, Wound management	10 Hours	CO3
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Suggested Readings

1. Devendra Richhariya, Textbook of Emergency and Trauma Care, Jaypee Brothers Medical Publishers
2. S.P. Gupta & D.K. Gupta, Medical Emergencies in General Practice

Online Resources

1. <https://medlineplus.gov>
2. <https://cpr.heart.org>
3. <https://www.redcross.org>

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	2	2	2	-	-	-	2	-	1	3	2
CO2	1	-	3	-	2	2	-	-	-	2	2	2	2	2
CO3	2	1	3	2	2	3	1	1	-	2	2	2	3	3

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Program	Bachelor of Physiotherapy				
Year	I	Semester	I		
Course Name	Healthcare Delivery System				
Code	BPT 103T				
Course Type	MD	L	T	P	Credit
Pre-Requisite		2	1	0	3
Course Objectives	Understand the structure of the Indian healthcare delivery system, including its primary, secondary, and tertiary levels, as well as public and private sectors, while gaining knowledge about alternative healthcare systems under AYUSH and the role of hospitals in healthcare delivery. Understand National Health Programs, voluntary agencies, and foundational health concepts, including disease types and hospital roles in healthcare delivery. Comprehend the basic concepts of demography and epidemiology, including population statistics, trends, and principles of disease occurrence and distribution in the Indian context.				
Course Outcomes					
CO1	Describe the structure of the Indian healthcare system including levels of care (primary, secondary, tertiary), and differentiate the roles of public, private, and alternative systems like AYUSH.				
CO2	Explain the objectives of national health programs and voluntary health agencies, and define health and disease along with their determinants and influencing factors.				
CO3	Explain key demographic features of India and basic epidemiological concepts related to public health.				

Module	Course Contents	Contact Hrs.	Mapped CO
1	Indian Healthcare Delivery System and Alternative Medicine Introduction to Indian Health Care Delivery System, Levels of healthcare – Primary, secondary and tertiary levels, Healthcare Sectors - Public sector, Private sector, AYUSH (Ayurveda, Yoga, Unani, Siddha, and Homeopathy)	15 Hours	CO1

2	National Health Programs and Basic Concepts of Health and Disease: National Health programs, Voluntary health agencies, Basic concept of health, Basic concept of diseases, Health determinants, Types of diseases, Factors influencing health and disease, Hospital as an organization	15 Hours	CO2
3	Demography and Epidemiology: Demography of India: Population trends and statistics, Epidemiology: Basic principles, definitions	15 Hours	CO3

Suggested Readings

1. B.M. Sakarkar, Principles of Hospital Administration and Planning, Jaypee Brothers Medical Publishers
2. Caroline Curren, Meg Stacey, Concepts of Health, Illness and Disease: A Comparative

Online Resources

1. <https://lmis.nihfw.ac.in/local/course/view.php?id=734>
2. <https://ayush.gov.in/#/>
3. <https://www.india.gov.in/ministry-health-and-family-welfare-6>
4. <https://www.who.int/health-topics>

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	-	1	1	1	1	-	2	3	2	2	2	2	3
CO2	2	-	1	-	1	-	-	2	2	2	1	3	2	3
CO3	2	-	1	2	1	-	-	1	1	2	1	3	2	3

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Program	Bachelor of Physiotherapy				
Year	I	Semester	I		
Course Name	Digital Literacy				
Code	BPT 104T				
Course Type	AEC	L	T	P	Credit
Pre-Requisite		2	0	0	2
Course Objective	Describe the fundamental components of a computer, basic operations, and perform number system conversions. Explain the principles of computer networks, operating systems, and basic internet concepts. Demonstrate effective use of MS Office tools for word processing, creating spreadsheets, and preparing presentations.				
Course Outcomes					
CO1	Describe basic computer components, operations, and number system conversions.				
CO2	Explain computer networks, operating systems, and internet fundamentals.				
CO3	Utilize MS Office tools effectively for word processing, spreadsheets, and presentations.				

Module	Course Contents	Contact Hrs.	Mapped CO
1	Introduction to Computer, Operations and Number System Characteristics of computer, Application of computer, Classification of computer, Types of computers, Generation and organization, Computer languages, Input and output devices, Hardware and software, Computer memory, Number system, Different types of number systems used in computer, Number system conversion	5 Hours	CO1
2	Computer Network, Operating System and Internet: Introduction to computer networks, Networking components, Classification and types of networks, Topologies, Communication channels, Client server architecture, LAN concepts Introduction to operating system, Functions of operating system, Types of operating system, Classification of	8 Hours	CO2

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	operating system, Components of operating system, Basics of internet		
3	MS Office: MS Word, MS Excel, MS PowerPoint	17 Hours	CO3

Suggested Readings

1. The Essentials of Computer Organization and Architecture, Linda Null and Julia Lobur, 2006
2. Understanding Digital Literacies: A Practical Introduction, Rodney H. Jones and Christoph A. Hafner, 2016

Online Resources

1. <https://imis.nihfw.ac.in/local/course/view.php?id=734>
2. https://www.researchgate.net/publication/313309097_Operating_Systems#:~:text=An%20operating%20system%20is%20a,physical%20computer%20to%20execute%20applications.
3. <https://lincs.ed.gov/sites/default/files/TSTMDigitalLiteracyBrief-508.pdf>
4. <https://davpgcvns.ac.in/wp-content/uploads/2020/11/Introduction-of-MS-Office-MS-Word-PDF-eng.pdf>

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	-	-	-	-	-	2	-	2	2	-	2	1	1
CO2	2	-	-	-	-	-	2	-	2	2	-	2	1	1
CO3	2	1	-	1	1	1	2	-	3	3	2	2	2	2

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Program	Bachelor of Physiotherapy				
Year	I	Semester	I		
Course Name	Communicative English				
Code	BPT 105T				
Course Type	SEC	L	T	P	Credit
Pre-Requisite		2	1	0	3
Course Objective	Understand and differentiate between various types of communication skills, including verbal and non-verbal forms. Demonstrate effective communication using appropriate body language, posture, and context-based interactions. Apply personal hygiene and grooming etiquette to maintain a professional and presentable appearance.				
Course Outcomes					
CO1	Understand and differentiate between various types of communication skills, including verbal and non-verbal forms.				
CO2	Demonstrate effective communication using appropriate body language, posture, and context-based interactions.				
CO3	Apply personal hygiene and grooming etiquette to maintain a professional appearance.				

Module	Course Contents	Contact Hrs.	Mapped CO
1	Communication Skills and Types of Communication Communication skills, Types of communication skills, Oral communication, Written communication, Facial expressions, Tone of voice, Pitch of voice, Body language	15 Hours	CO1
2	Body Language and Posture: Components of body language, Components of posture	15 Hours	CO2
3	Personal Hygiene and Grooming Importance of personal hygiene, Components of personal hygiene, Grooming etiquette, Do's and Don'ts of Grooming	15 Hours	CO3

Suggested Readings

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1. Ahuja, B.N. and S.S. Chopra, Communication, Surjeet Publications, 2006
2. Barun K Mitra, Personality Development and Soft Skills, Oxford University Press, 2016

Online Resources

1. <https://www.skillsyouneed.com>
2. <https://www.mindtools.com>
3. <https://alison.com>

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	1	-	-	-	-	-	-	3	2	2	2	1	1	2
CO2	1	-	-	-	1	-	-	3	2	2	3	1	1	2
CO3	-	-	-	-	-	-	-	2	1	1	2	-	-	1

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Program	Bachelor of Physiotherapy				
Year	I	Semester	I		
Course Name	Environment and Ecological Sustainability				
Code	BPT 106T				
Course Type	VAC	L	T	P	Credit
Pre-Requisite		2	1	0	3
Course Objectives	To develop basic knowledge of environment, ecology and ecosystem. To impart basic and key knowledge of atmospheric and global climate change. To develop a knowledge of natural resources, conservation and sustainable use. To recognize knowledge of effects disturbance, adaptation and development in the ecosystem. To help students to acquire knowledge of pollution and environment protection.				
Course Outcomes					
CO1	Understand atmosphere and climatic change, major biome and ecosystem energy.				
CO2	Be able to conserve natural resources and to learn equity at different levels and benefits of sustainable use of natural resources.				
CO3	Develop improved understanding of environmental pollution, principles and application of environmental management tools including legislation and regulation.				

Module	Course Contents	Contact Hrs.	Mapped CO
1	Environment & Ecology Environment and its segments: Definition, Scope and importance; Atmosphere: Composition, characterization, temperature behaviour and atmospheric stability, climate change; Hydrosphere; Water distribution Lithosphere: Structure and composition. Biosphere Ecology and Ecosystem: Introduction, Concept of an Ecosystem,	15 Hours	CO1

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	Structure and function of Ecosystem, Energy flow in an Ecosystem, Food chain and food web, Types of Ecosystem; Ecological Pyramids: Definition, Types of Ecological Pyramid Material cycle: Definition and importance, Nitrogen and carbon cycle.		
2	Natural Resources: Natural resources: Definition, types of natural resource Water Resources: Drinking water quality, Water crisis and uses, Water borne and water induced diseases, Fluoride problem in drinking water, Rain water harvesting; Forest Resources: Impact of deforestation on environment Food resources: Crisis, Food adulteration and Hygiene National Policy for Food Security and Managements. Mineral Resources: Use and exploitation of minerals, Impact of mining on environment; Energy resources: Conventional and nonconventional energy sources, Solar energy, Hydropower energy, Hydrogen energy, Biomass-energy Sustainable Development: Definition, sustainable use and conservation of natural resource, Equitable use of Resources, Common Property Resources; Biodiversity and its conservation Environment Management System(EMS): Definition, stages of EMS, cost and benefits of EMS	15 Hours	CO2
3	Environmental Pollution and Protection Environmental Pollution: Definition, Pollutants, sources, causes, effects and control measures of air, water, and soil pollution; Noise: Sources of Noise pollution, Measurement of noise, Noise exposure levels and standards. Impact of noise on human health. Noise control and abatement measures. Current environmental Issues: Population growth, Logistic growth curve equation. Climate change, Global Warming, Acid rain, Ozone layer, Waste Water Treatments. Solid Waste Management, Natural disaster and its management. Environment Protection: Legal aspects of Environment Protection, Environment Protection Act, Air(Prevention and Control of Pollution) Act, Water(Prevention and control of Pollution) Act, Role of NGOs in Environment Protection. Environmental Protection and Sustainability Environmental Education and Awareness.	15 Hours	CO3

Suggested Readings

1. Daniel B. Botkin and Edward A. Keller, Environmental Science: Earth as a Living Planet
2. R. Rajagopalan, Environmental Studies
3. William P. Cunningham and Mary Ann Cunningham, Principles of Environmental Science:

Inquiry and Applications

Online Resources

1. <https://pubmed.ncbi.nlm.nih.gov/31506839/>
2. <https://ecology.edu>

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	-	-	-	-	-	-	-	-	1	1	2	1	1
CO2	1	-	1	-	-	-	-	2	-	2	2	3	1	2
CO3	2	-	2	1	-	-	-	2	-	2	2	3	2	2



Program	Bachelor of Physiotherapy				
Year	I	Semester	I		
Course Name	Foundations of Physiotherapy Lab				
Code	BPT 101P				
Course Type	DSC	L	T	P	Credit
Pre-Requisite	Foundations of Physiotherapy	0	0	6	3
Course Objectives	Observe and identify different anatomical structures, including organs, systems, and bones, to build a foundational understanding of human anatomy. Explore and demonstrate the medical terminology and physiological concepts related to major human body systems, ensuring students understand the basic physiological functions in health and disease. Understand and examine the scope, principles, and ethical standards of physiotherapy, preparing students for patient-centered, evidence-based practice within a multidisciplinary healthcare environment.				
Course Outcomes					
CO1	Observe, identify, and describe the key anatomical structures of the respiratory, digestive, circulatory, excretory, and nervous systems, as well as bones and joints, providing them with a solid foundation in human anatomy.				
CO2	Explore and demonstrate an understanding of the key medical terminology and physiological functions of major human systems, allowing them to effectively communicate in healthcare settings and understand the physiological underpinnings of physiotherapy interventions.				
CO3	Understand and apply the ethical principles, standards, and scope of physiotherapy practice, ensuring they are prepared to deliver evidence-based, patient-centered care as part of a multidisciplinary healthcare team.				

S. No.	List of Experiments	
1	Identification of different parts of the respiratory system	CO1, CO3
2	Identification of different parts of the digestive system	CO1, CO3

3	Identification of different layers of the skin	CO3
4	Identification of different parts of the circulatory system	CO1
5	Identification of different parts of the excretory system	CO1
6	Identification of different parts of the nervous system	CO1
7	Identification of different bones and joints in the human body	CO2

Suggested Readings

1. Davi-Ellen Chabner, Medical Terminology: A Short Course, Saunders, 2017
2. Barbara Janson Cohen, Shirley A Jone, Medical Terminology an Illustrated Guide, Ninth edition
3. G Deepa, PR Ashalatha, Textbook of Applied Anatomy and Physiology for Nurses, Jaypee Brothers Medical Publishers
4. B.D. Chaurasia, Applied Anatomy and Physiology for BSc Nursing Students, CBS Publishers & Distributors Pvt. Ltd.
5. Shukla Y, ed. Physiotherapy Handbook 2023. Ministry of Health & Family Welfare, Government of India; 2023.
6. Pagliarulo MA. Introduction to Physical Therapy. 7th ed. St. Louis, MO: Elsevier; 2025.
7. Porter S, ed. Tidy's Physiotherapy. 15th ed. Edinburgh: Elsevier; 2022

Online Resources

1. <https://pmc.ncbi.nlm.nih.gov/articles/PMC11808382/>
2. https://www.researchgate.net/publication/335616539_Introductory_Chapter_Physiotherapy_and_Rehabilitation
3. <https://ncahp.abdm.gov.in/Curriculum/Physiotherapy.pdf>
4. <https://www.sciencedirect.com/topics/nursing-and-health-professions/physiotherapy>

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	-	2	2	1	-	-	-	2	-	1	3	2
CO2	3	1	-	2	2	1	-	2	-	2	1	1	3	2
CO3	1	-	3	1	2	2	-	3	1	2	3	2	2	3

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Program	Bachelor of Physiotherapy				
Year	I	Semester		I	
Course Name	Vital Signs and Management of Medical Emergencies Lab				
Code	BPT 102P				
Course Type	DSC	L	T	P	Credit
Pre-Requisite		0	0	4	2
Course Objective	Measure and accurately record vital signs including temperature, respiratory rate, pulse, blood pressure, and oxygen saturation. Demonstrate the correct procedures for performing CPR and defibrillation on adults and children. Apply appropriate first aid techniques to manage emergency situations such as choking effectively.				
Course Outcomes					
CO1	Measure and record vital signs including temperature, respiratory rate, pulse, blood pressure, and oxygen saturation.				
CO2	Demonstrate the correct procedure for CPR and defibrillation in adults and children.				
CO3	Manage emergency scenarios such as choking using appropriate first aid techniques.				

S. No.	List of Experiments	
1	Determination of temperature and respiratory rate	CO1
2	Determination of pulse, blood pressure and oxygen saturation	CO1
3	Perform CPR in adults and children	CO2
4	Perform defibrillation	CO2
5	Perform choking management	CO3

Suggested Readings

1. Devendra Richhariya, Textbook of Emergency and Trauma Care, Jaypee Brothers Medical Publishers
2. S.P. Gupta & D.K. Gupta, Medical Emergencies in General Practice

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Online Resources

1. <https://medlineplus.gov>
2. <https://cpr.heart.org>
3. <https://www.redcross.org>

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	2	2	1	-	-	-	2	-	1	3	2
CO2	1	-	3	-	2	2	-	-	-	2	2	2	2	2
CO3	2	1	3	2	2	3	1	1	-	2	2	2	3	3



Program	Bachelor of Physiotherapy				
Year	I	Semester		II	
Course Name	Therapeutic Exercise, Electrotherapy, and Movement Analysis				
Code	BPT 201T				
Course Type	DSC	L	T	P	Credit
Pre-Requisite		3	1	0	4
Course Objectives	Explain the foundational concepts of human movement sciences, including biomechanics and motor control, and how they relate to physiotherapy practice.				
	Explore and describe therapeutic exercise techniques, emphasizing their role in rehabilitation and the improvement of functional outcomes in patients.				
	Understand the principles and methods of joint and muscle assessment, and how to apply them effectively in evaluating patient conditions.				
	Describe the use of electrotherapy modalities in physiotherapy, focusing on their application and effectiveness in treating various musculoskeletal and neurological conditions.				
Course Outcomes					
CO1	Describe key concepts in human movement sciences and demonstrate their application in physiotherapy assessments and treatments.				
CO2	Identify, describe, and apply various therapeutic exercise techniques in the rehabilitation of patients to optimize their functional recovery.				
CO3	Assess and evaluate joints and muscles effectively using appropriate assessment techniques, leading to accurate diagnosis and treatment planning.				
CO4	Describe and apply various electrotherapy modalities in patient care, analyzing their effectiveness in managing pain, inflammation, and muscle function.				

Module	Course Contents	Contact Hrs.	Mapped CO
1	Foundations of Human Movement and Functional Analysis: Principles of biomechanics: kinematics, kinetics, joint and muscle function, Anatomical planes, positions, and movement patterns, Assessment of patient condition and movement dysfunction; Normal and abnormal posture: assessment and	15 Hours	CO1

	contributing factors, Gait cycle: determinants, analysis, and common abnormalities, Functional movement tasks: observation, documentation, and clinical reasoning, Integration of movement analysis into physiotherapy assessment		
2	Therapeutic Exercise: Introduction to exercise therapy: goals, indications, and safety, Starting and derived positions: Starting positions; Derived positions; Muscle work, Joint range: Range of motions; Measurement of ROM; Goniometer, Muscle testing: Principles and aims; Indications and limitations; Techniques of muscle testing, Classification of exercises: Active movements; Free exercises; Active assisted exercises; Resisted exercises; Passive movements; Mobilization exercises	15 Hours	CO2
3	Joint and Muscle Assessment Techniques: Measurement of joint range of motion (ROM) using goniometry, Manual muscle testing: principles, techniques, and interpretation, Assessment of spinal, upper, and lower extremity biomechanics, Identifying and addressing movement impairments	15 Hours	CO3
4	Principles and Application of Electrotherapy: Basic principles of electricity, current, and circuits in physiotherapy, Overview of electrotherapy modalities: TENS, iontophoresis, infrared, heat therapy, Indications, contraindications, and safety in electrotherapy, Integration of electrotherapy with therapeutic exercise for rehabilitation	15 Hours	CO4

Suggested Readings

1. Nanda BK. Electrotherapy Simplified. 3rd ed. New Delhi: Jaypee Brothers Medical Publishers; 2020. Low & Reed, Electrotherapy Explained: Principles & Practice, Butterworth Heinemann
2. Sharma M. Fundamentals of Orthopedic Physiotherapy: A Simplified Approach, Rationale and Rehabilitation. 2nd ed. New Delhi: Jaypee Brothers Medical Publishers; 2025.
3. Sheth M, Singh P, Vyas N, Sharma S. Physiotherapy in General Medical and Surgical Conditions. 1st ed. New Delhi: Jaypee Brothers Medical Publishers; 2022.
4. Goyal M. Textbook of Exercise Therapy Fundamentals and Practices. New Delhi: All India Book House; 2021.
5. Gardiner, Principle of Exercise Therapy, C.B.S. Delhi
6. Kendall, Muscle testing and functions, Williams & Wilkins
7. Cynthia C, Norkin D, Pamela K. Joint structure and function. A comprehensive analysis, F.A. Davis Company
8. Houglum PA, Bertoti DB. Brunnstrom's Clinical Kinesiology, F.A. Davis Company

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Online Resources

1. <https://www.sciencedirect.com/science/article/pii/S1607551X11001835>
2. <https://www.ncbi.nlm.nih.gov/books/NBK555914/>
3. <https://www.sciencedirect.com/science/article/pii/S0004951407700570>
4. <https://wtcs.pressbooks.pub/nursingskills/chapter/13-4-musculoskeletal-assessment/>

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	-	2	3	2	-	-	-	2	-	1	3	2
CO2	2	2	-	1	3	3	-	-	-	2	1	1	3	3
CO3	3	3	-	3	3	2	-	-	-	3	2	2	3	3
CO4	2	2	2	2	2	2	3	-	-	2	1	2	3	3

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Program	Bachelor of Physiotherapy				
Year	I	Semester	II		
Course Name	Infection Control and Biomedical Waste Management				
Code	BPT 202T				
Course Type	DSC	L	T	P	Credit
Pre-Requisite		2	0	0	2
Course Objective	Apply infection control and proper PPE use. Implement sterilization and biomedical waste protocols. Understand vaccination importance for healthcare workers.				
Course Outcomes					
CO1	Understand different types of infections and apply infection control measures, including proper hand hygiene practices, utilizing PPE.				
CO2	Demonstrate knowledge of sterilization methods and BMW by implementing correct protocols				
CO3	Understand the importance of vaccination for healthcare workers.				

Module	Course Contents	Contact Hrs.	Mapped CO
1	Infection & its Types and Infection Control and Prevention Definition of infection and infectious diseases, Types of infection – Acute, Chronic, Primary, Localized, Systemic, Clinical, Subclinical and Hospital Acquired Infections, Measures of Infection Control, Importance of Hand Hygiene, Hand washing Techniques, Hand Rub Techniques, 5 moments of hand Hygiene, PPE, Importance of PPE, Types of PPE and its uses, Sequence for donning and removing – PPE, Sterilization: introduction	10 Hours	CO1
2	Sterilization and BMW Management Sterilization vs Disinfection, Different methods of sterilization, Know about hot air oven, Autoclave, Factors affecting autoclave, Process of Autoclaving, Advantages and disadvantages of autoclave, Categorization of biomedical wastes, Steps for BMW management - Segregation and colour codes for BMW, collection, storage and transportation of waste, Different methods for treatment of biomedical waste	10 Hours	CO2

3	Vaccination for Healthcare Professionals: Importance of vaccines for healthcare workers, Risk categorization, Currently recommended vaccines for healthcare workers, Post exposure prophylaxis	10 Hours	CO3
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Suggested Readings

1. S. Apruba Sastry, R. Deepashree, Essentials of Hospital Infection Control, Jaypee Brothers Medical Publishers
2. Singh Anantpreet, Kaur Sukhjit, Biomedical Waste Disposal, Jaypee Brothers Medical Publishers

Online Resources

1. <https://www.cdc.gov>
2. <https://main.icmr.nic.in>
3. <https://www.ncbi.nlm.nih.gov/books>
4. <https://www.who.int/infection-prevention>

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	-	3	-	2	2	2	2	-	2	1	2	2	2
CO2	2	-	3	-	2	1	3	2	-	2	1	2	2	2
CO3	1	-	2	-	1	-	-	1	-	1	-	2	1	1

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Program	Bachelor of Physiotherapy				
Year	I	Semester		II	
Course Name	Medical Laboratory and Pharmacological Sciences				
Code	BPT 203T				
Course Type	MD	L	T	P	Credit
Pre-Requisite		2	1	0	3
Course Objective	Explain the foundational concepts of pathology, microbiology, and biochemistry, focusing on their relevance to disease processes and physiotherapy practice.				
	Explore and describe pharmacology principles, including common medications and their effects, and understand how they interact with physiotherapy interventions.				
	Understand how to interpret laboratory findings relevant to disease processes, and apply this knowledge to support safe and evidence-based physiotherapy practice.				
Course Outcomes					
CO1	Explain key concepts in pathology, microbiology, and biochemistry, and describe how these concepts influence physiotherapy assessments and treatment decisions.				
CO2	Describe common medications used in disease management, understand their effects, and integrate this knowledge into physiotherapy practice to ensure patient safety.				
CO3	Interpret laboratory findings and integrate them into evidence-based physiotherapy care plans, ensuring a holistic approach to patient treatment.				

Module	Course Contents	Contact Hrs.	Mapped CO
1	Fundamentals of Pathology, Microbiology, and Clinical Biochemistry in Physiotherapy: Introduction to pathology and its relevance in physiotherapy, Cell injury, Inflammation and repair: acute and chronic inflammation, healing processes, Basic concepts of neoplasia and tumor classification, Common pathological conditions affecting musculoskeletal and nervous systems, Introduction to	15 Hours	CO1

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	microbiology: definitions, classification of microorganisms, Bacterial morphology, growth, and reproduction, Sterilization and disinfection, Immunity: types, mechanisms, and immunization, Overview of infectious diseases relevant to physiotherapy (e.g., tuberculosis, HIV, wound infections), Basic principles of biochemistry and its clinical relevance, Carbohydrates, proteins, and lipids: structure, function, and metabolism, Enzymes: types, functions, and clinical importance, Biochemistry of connective tissue and muscle, Laboratory investigations: blood glucose, hemoglobin, and common biochemical tests		
2	Pharmacology: Introduction to pharmacology: definitions, drug classification, sources, and routes of administration, Pharmacokinetics and pharmacodynamics: absorption, distribution, metabolism, excretion, Drugs acting on the autonomic nervous system, pain, and inflammation, Common medications in physiotherapy practice: muscle relaxants, analgesics, anti-inflammatory drugs, Adverse drug reactions, drug interactions, and safety in drug administration	15 Hours	CO2
3	Laboratory Procedures and Disease Management: Collection and handling of clinical specimens (blood, urine, sputum), Basic laboratory equipment and their uses (microscope, pipettes, etc.), Staining techniques and identification of common pathogens, Role of laboratory findings in diagnosis, prognosis, and physiotherapy management of disease	15 Hours	CO3

Suggested Readings

1. Vasudevan DM, Sreekumari S, Vaidyanathan K. Textbook of Biochemistry for Medical Students. 9th ed. New Delhi: Jaypee Brothers Medical Publishers; 2023.
2. Harsh Mohan. Textbook of Pathology. 9th ed. New Delhi: Jaypee Brothers Medical Publishers; 2022.
3. Ananthanarayan R, Paniker CKJ. Ananthanarayan and Paniker's Textbook of Microbiology. 11th ed. Hyderabad: Universities Press; 2022.
4. Tripathi KD. Essentials of Medical Pharmacology. 9th ed. New Delhi: Jaypee Brothers Medical Publishers; 2023.

Online Resources

1. <https://www.ncbi.nlm.nih.gov/books/NBK534820/>
2. <https://www.ncbi.nlm.nih.gov/books/NBK595006/>
3. <https://www.elsevier.es/en-revista-enfermedades-infecciosas-microbiologia-clinica-english-428-articulo-collection-transport-general-processing-clinical-S2529993X18302624>

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Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	-	-	-	2	2	2	2	2	2	2	1	2
CO2	2	2	-	-	-	3	1	2	2	2	2	2	1	2
CO3	1	1	-	-	-	2	1	2	3	2	2	2	1	2

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Program	Bachelor of Physiotherapy				
Year	I	Semester		II	
Course Name	Business Communication				
Code	BPT 204T				
Course Type	AEC	L	T	P	Credit
Pre-Requisite		2	1	0	3
Course Objective	Understand and apply various communication methods in healthcare settings. Demonstrate effective communication with colleagues, clients, and customers. Handle sensitive healthcare communications confidently and professionally.				
Course Outcomes					
CO1	Understand the purpose and mechanisms of communication, including verbal, non-verbal, written, intrapersonal, and group communication, and apply them effectively in healthcare settings.				
CO2	Apply effective communication techniques in workplace interactions with colleagues, clients, and customers				
CO3	Communicate effectively in healthcare settings, addressing sensitive issues with confidence and professionalism.				

Module	Course Contents	Contact Hrs.	Mapped CO
1	Communication, its Types and Methods Communication, Communication in society, How do we communicate, Non-verbal communication, Verbal communication, Forms of written communication, Intrapersonal communication, Group communication	15 Hours	CO1
2	Effective Communication at Workplace: Introduction to effective communication, Importance of effective communication, Verbal communication at workplace, Written communication at workplace	15 Hours	CO2
3	Communication in Healthcare: Types of communication in healthcare – Inter hospital and intra hospital communication, Causes and effects of poor communication in healthcare, Coping with anxiety while	15 Hours	CO2

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	communicating bad news, Effective communication checklist in healthcare, Learn how to communicate with patients and caregivers, Tips to communicate effectively		
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Suggested Readings

1. Ahuja, B.N. and S.S. Chopra, Communication, Subject Publications, 2006
2. Barun K Mitra, Personality Development and Soft Skills, Oxford University Press, 2016

Online Resources

1. <https://www.skillsyouneed.com>
2. <https://www.mindtools.com>
3. <https://alison.com>

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	-	-	1	-	1	-	-	3	2	2	2	-	1	2
CO2	-	-	-	-	-	-	-	3	3	2	3	-	-	3
CO3	-	-	1	-	1	-	-	3	2	2	3	-	1	3

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Program	Bachelor of Physiotherapy				
Year	I	Semester		II	
Course Name	Job Ready Skills I				
Code	BFT 205T				
Course Type	SEC	L	T	P	Credit
Pre-Requisite		2	0	0	2
Course Objective	Apply time management techniques to prioritize and organize tasks efficiently. Collaborate effectively in teams by building positive relationships and enhancing quality. Use critical thinking to solve problems creatively and make informed decisions.				
Course Outcomes					
CO1	Apply time management techniques to organize and prioritize tasks efficiently.				
CO2	Work effectively in teams by understanding the dynamics, building constructive relationships, and recognizing key factors contributing to quality improvement.				
CO3	Use critical thinking to solve problems systematically and creatively, and make informed decisions in work and personal settings.				

Module	Course Contents	Contact Hrs.	Mapped CO
1	Time Management: Introduction to time management, Importance of time management, Time management matrix, How to manage time	10 Hours	CO1
2	Teamwork and Quality Consciousness Introduction to teamwork, Importance of teamwork, Basic elements of teamwork, Building positive relationships, Quality, Strategies to improve quality	10 Hours	CO2
3	Problem-solving and Decision Making Skills Critical thinking, Developing critical thinking mindset, Decisions, Effective decision-making process	10 Hours	CO3

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Suggested Readings

1. S P Dhanavel, English and Soft Skills, Orient BlackSwan
2. Gupta Seema, Soft Skills - Interpersonal and Intrapersonal Skills Development, V&S Publishers

Online Resources

1. <https://www.mindtools.com>
2. <https://www.skillsyouneed.com>

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	—	—	—	—	1	—	—	2	2	3	2	2	—	2
CO2	—	—	—	—	2	—	—	3	3	2	3	2	—	3
CO3	—	—	—	—	2	—	—	2	2	3	2	2	—	2

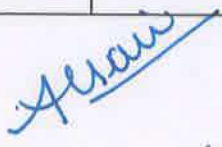
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Program	Bachelor of Physiotherapy				
Year	I	Semester		II	
Course Name	AI Tools				
Code	BI-T 206T				
Course Type	VAC	L	T	P	Credit
Pre-Requisite		2	1	0	3
Course Objective	Understand fundamental concepts of artificial intelligence and the types of AI tools available. Explore common AI tools and platforms, learning their key features and real-world applications. Apply AI tools responsibly while recognizing ethical considerations in their usage.				
Course Outcomes					
CO1	Explain the basics of AI and identify different categories of AI tools.				
CO2	Demonstrate familiarity with popular AI platforms and describe their functionalities.				
CO3	Evaluate ethical challenges in AI and practice responsible use of AI technologies.				

Module	Course Contents	Contact Hrs.	Mapped CO
1	Introduction to Artificial Intelligence and AI Tools Overview of Artificial Intelligence (AI) concepts, Types of AI tools and their applications, Basics of machine learning and data processing	15 Hours	CO1
2	Common AI Tools and Platforms Introduction to popular AI tools (e.g., chatbots, image recognition, speech recognition), Features and functionalities of AI platforms, Use cases across industries	15 Hours	CO2
3	Practical Applications and Ethical Considerations How to use AI tools effectively in everyday tasks, Benefits and challenges of AI adoption, Ethical issues and responsible AI use	15 Hours	CO3








Suggested Readings

1. Russell, Stuart, and Peter Norvig. 2021. Artificial Intelligence: A Modern Approach. 4th ed. Upper Saddle River, NJ: Pearson.
2. Nilsson, Nils J. 2014. Principles of Artificial Intelligence. San Francisco, CA: Morgan Kaufmann.
3. Marr, Bernard. 2020. Artificial Intelligence in Practice: How 50 Successful Companies Used AI and Machine Learning to Solve Problems. New York: Wiley.
4. Floridi, Luciano. 2019. The Ethics of Artificial Intelligence. Oxford: Oxford University Press.

Online Resources

1. <https://ai.google.dev/>
2. <https://github.com/microsoft/AI-For-Beginners>

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	—	—	—	2	2	—	2	—	2	2	—	2	1	2
CO2	—	—	—	2	2	—	3	—	2	2	—	2	—	2
CO3	—	—	—	—	1	—	—	3	2	2	3	2	—	2

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Program	Bachelor of Physiotherapy				
Year	I	Semester		II	
Course Name	Therapeutic Exercise, Electrotherapy, and Movement Analysis Lab				
Code	BPT 201P				
Course Type	DSC	L	T	P	Credit
Pre-Requisite		0	0	6	3
Course Objective	Explain the foundational concepts of human movement sciences, including biomechanics, motor control, and their relevance to physiotherapy practice. Explore and describe therapeutic exercise techniques, their applications, and their role in rehabilitation for various patient conditions. Understand the methods and techniques for joint and muscle assessment, focusing on how these assessments guide physiotherapy interventions. Describe the principles and applications of electrotherapy modalities, emphasizing their role in treating musculoskeletal and neurological conditions in physiotherapy.				
Course Outcomes					
CO1	Explain key concepts of human movement sciences, including biomechanics and motor control, and apply these concepts in physiotherapy assessments and treatment planning.				
CO2	Explore various therapeutic exercise techniques, describe their clinical applications, and implement these exercises in patient rehabilitation programs.				
CO3	Assess and evaluate joint and muscle function effectively using appropriate clinical techniques, leading to accurate diagnoses and informed treatment decisions.				
CO4	Describe and apply electrotherapy modalities, understanding their role in pain management, rehabilitation, and overall physiotherapy treatment plans.				

S. No.	List of Experiments	
1	Analyse posture.	CO1
2	Analyse gait.	CO1
3	Demonstrate activities of daily living (ADL) - sitting to standing, throwing, lifting, various grips and pinches etc.	CO2

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4	Demonstrate the different types of muscle contraction, muscle work, group action of muscles and co-coordinated movements on self.	CO1
5	Demonstrate various fundamental and derived positions.	CO1
6	Measure the ROM of joints using hand held goniometer.	CO3
7	Demonstrate the relaxed passive movement of joints of upper limb and lower limb.	CO3
8	Instruct the patient to perform active mobilisation exercises of joints of upper limb and lower limb.	CO2
9	Perform passive mobilisation exercises of different joints region wise.	CO2
10	Demonstrate the testing of muscle strength/ function region wise.	CO3
11	Perform soft tissue manipulative techniques region wise.	CO2
12	Locate and stimulate different motor points region wise on a human model.	CO4

Suggested Readings

1. Nanda BK. Electrotherapy Simplified. 3rd ed. New Delhi: Jaypee Brothers Medical Publishers; 2020. Low & Reed, Electrotherapy Explained: Principles & Practice, Butterworth Heinemann
2. Sharma M. Fundamentals of Orthopedic Physiotherapy: A Simplified Approach, Rationale and Rehabilitation. 2nd ed. New Delhi: Jaypee Brothers Medical Publishers; 2025.
3. Sheth M, Singh P, Vyas N, Sharma S. Physiotherapy in General Medical and Surgical Conditions. 1st ed. New Delhi: Jaypee Brothers Medical Publishers; 2022.
4. Goyal M. Textbook of Exercise Therapy Fundamentals and Practices. New Delhi: All India Book House; 2021.
5. Gardiner, Principle of Exercise Therapy, C.B.S. Delhi
6. Kendall, Muscle testing and functions, Williams & Wilkins

Online Resources

1. <https://www.ncbi.nlm.nih.gov/books/NBK534820/>
2. <https://www.ncbi.nlm.nih.gov/books/NBK595006/>
3. <https://www.elsevier.es/en-revista-enfermedades-infecciosas-microbiologia-clinica-english-428-articulo-collection-transport-general-processing-clinical-S2529993X18302624>
4. <https://accessphysiotherapy.mhmedical.com/content.aspx?bookid=333§ionid=40013177>

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	3	—	2	3	—	—	—	—	2	—	—	3	2
CO2	—	3	—	—	3	2	—	—	—	2	—	—	3	3

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CO3	2	2		3	3	-	-	-	-	2	-	-	3	2
CO4	-	-	2	2	3	-	3	-	-	2	-	-	2	2

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Program	Bachelor of Physiotherapy				
Year	I	Semester		II	
Course Name	Infection Control and Biomedical Waste Management Lab				
Code	BPT 202P				
Course Type	DSC	L	T	P	Credit
Pre-Requisite		0	0	4	2
Course Objectives	Demonstrate effective hand hygiene through proper handwashing and hand rub techniques to prevent infections. Perform correct donning and doffing of PPE to ensure safety and infection control. Apply biomedical waste segregation using appropriate color-coded bins in compliance with regulations.				
Course Outcomes					
CO1	Démonstrate proper hand hygiene techniques through effective handwashing and handrub methods to prevent healthcare-associated infections.				
CO2	Perform correct donning and doffing procedures for Personal Protective Equipment (PPE) ensuring infection control and personal safety in clinical settings.				
CO3	Apply biomedical waste segregation protocols by identifying waste categories and using appropriate color-coded bins in compliance with safety and regulatory standards.				

S. No.	List of Experiments	
1	Perform method of handwashing	CO1
2	Perform method of handrub	CO1
3	Perform donning and doffing of PPE	CO2
4	Segregation of biomedical waste	CO3

Suggested Readings

1. S. Apruba Sastry, R. Deepashree, Essentials of Hospital Infection Control, Jaypee Brothers Medical Publishers, 2019
2. Singh Anantpreet, Kaur Sukhjit, Biomedical Waste Disposal, Jaypee Brothers Medical Publishers, 2012

Online Resources

1. <https://www.cdc.gov>
2. <https://main.icmr.nic.in>
3. <https://www.ncbi.nlm.nih.gov/books>
4. <https://www.who.int/infection-prevention>

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	—	—	3	—	2	—	—	—	—	2	—	—	2	2
CO2	—	—	3	—	2	—	—	—	—	2	—	—	2	2
CO3	—	—	3	—	1	—	—	—	—	2	—	—	2	2

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Program	Bachelor of Physiotherapy				
Year	II	Semester	III		
Course Name	Clinical Physiotherapy I				
Code	BPT 301T				
Course Type	DSC	L	T	P	Credit
Pre-Requisite	Therapeutic Exercise, Electrotherapy, and Movement Analysis	3	1	0	4
Course Objectives	Explain advanced therapeutic exercise techniques. Understand specialized therapeutic exercise techniques and functional training methods. Apply motor learning principles, functional re-education, and walking aids. Demonstrate knowledge about advanced electrotherapy modalities.				
Course Outcomes					
CO1	Apply a variety of advanced therapeutic exercises and manual therapy techniques to improve flexibility, respiratory function, mobility, and overall rehabilitation outcomes for diverse patient conditions.				
CO2	Apply specialized therapeutic exercises to enhance functional performance and rehabilitation for patients with diverse needs.				
CO3	Apply motor learning principles, functional re-education techniques, including PNF, and prescribe appropriate walking aids to improve patient mobility and independence in rehabilitation.				
CO4	Design and implement evidence-based physiotherapy interventions, integrating therapeutic exercises and electrotherapy for effective rehabilitation.				

Module	Course Contents	Contact Hrs.	Mapped CO
1	Advanced Therapeutic Exercises and Manual Therapy Techniques: Relaxation techniques and their clinical applications, Stretching methods for flexibility and rehabilitation, Breathing exercises for respiratory function and relaxation, Suspension therapy: principles, equipment, and indications, Manual therapy	15 Hours	CO1







	techniques: soft tissue and joint mobilization, Peripheral joint mobilization: indications, techniques, and precautions		
2	Specialized Therapeutic Exercises and Functional Training: Hydrotherapy: principles, methods, and patient selection, Therapeutic gymnasium: equipment and exercise programming, Aerobic and coordination exercises for functional improvement	15 Hours	CO2
3	Motor Learning, Re-education, and Walking Aids: Motor learning principles in rehabilitation, Functional re-education and proprioceptive neuromuscular facilitation (PNF), Types and principles of prescribing walking aids	15 Hours	CO3
4	Advanced Electrotherapy Modalities: Therapeutic ultrasound: mechanism, uses, dosage, equipment management, indications, contraindications, precautions Therapeutic LASER: principles, production, uses, dosage, equipment management, indications, contraindications, precautions, Cryotherapy: types, uses, equipment, and safety, Intermittent compression therapy: principles, uses, equipment, and precautions, Shockwave therapy: principles, uses, equipment, and safety	15 Hours	CO4

Suggested Readings

1. Joshi LN, Kotwal PP. Essentials of Orthopaedic Physiotherapy. New Delhi: Jaypee Brothers Medical Publishers; 2016.
2. Dinesh K. Therapeutic Exercises: Foundations and Techniques. 2nd ed. New Delhi: Jaypee Brothers Medical Publishers; 2022.
3. Nanda BK. Electrotherapy Simplified. 3rd ed. New Delhi: Jaypee Brothers Medical Publishers; 2020.
4. Misra UK, Kalita J. Clinical Neurophysiology. 3rd ed. New Delhi: Elsevier; 2019.
5. Brukner P, Khan K. Brukner & Khan's Clinical Sports Medicine. 5th ed. New Delhi: McGraw Hill Education; 2017.

Online Resources

1. <https://www.ncbi.nlm.nih.gov/books/NBK513238/>
2. <https://ncahp.abdm.gov.in/Curriculum/Physiotherapy.pdf>
3. <https://pmc.ncbi.nlm.nih.gov/articles/PMC8477273/>
4. <https://www.sciencedirect.com/science/article/am/pii/S136085921630256X>
5. <https://pmc.ncbi.nlm.nih.gov/articles/PMC3031347/>

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	—	3	2	—	3	3	—	—	—	2	—	—	3	3

CO2	-	3	-	-	3	2	-	-	-	2	-	-	3	3
CO3	-	3	-	-	3	2	-	-	-	2	-	-	3	3
CO4	-	2	-	2	3	2	2	-	-	3	-	2	3	3







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Program	Bachelor of Physiotherapy				
Year	II	Semester	III		
Course Name	General Medicine, Surgery and Orthopedics				
Code	BPT 302T				
Course Type	DSC	L	T	P	Credit
Pre-Requisite		2	1	0	3
Course Objectives	Explore and identify key concepts in general medicine and surgery relevant to physiotherapy. Demonstrate understanding of musculoskeletal and neuromuscular conditions and their physiotherapy management. Explain orthopedic physiotherapy principles, focusing on rehabilitation and musculoskeletal disorders. Assess and participate in the multidisciplinary management and rehabilitation of patients across medical, surgical, and orthopedic conditions.				
Course Outcomes					
CO1	Explore and identify the foundational concepts in general medicine and surgery, understanding their impact on physiotherapy interventions and patient care.				
CO2	Demonstrate a thorough understanding of musculoskeletal and neuromuscular conditions and apply this knowledge to physiotherapy interventions that promote recovery and functional independence.				
CO3	Explain and apply orthopedic physiotherapy principles, focusing on rehabilitation post-surgery and musculoskeletal injury management, improving patient mobility and quality of life.				
CO4	Assess patients' medical conditions and participate effectively in the multidisciplinary management and rehabilitation process, coordinating physiotherapy care with other healthcare professionals to achieve optimal patient outcomes.				

Module	Course Contents	Contact Hrs.	Mapped CO
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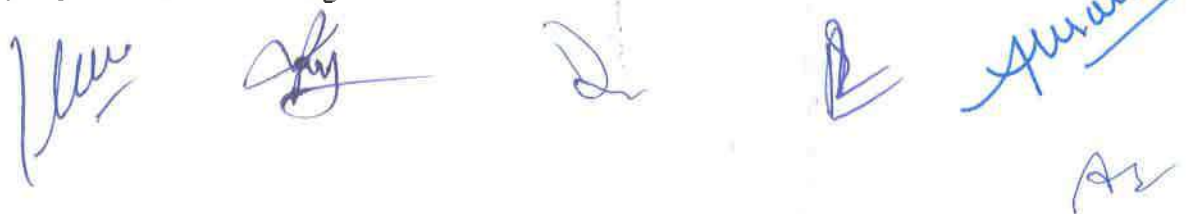
1	General Medicine, Surgery, and Orthopaedics: Nutritional disorders, metabolic diseases, pediatrics, geriatrics, Basic principles of general surgery and anesthesia, Types of surgeries and physiotherapy management in general medicine and surgery (edema, wounds, infections, pre- and post-operative care, skin grafts, reconstructive surgeries), Introduction to orthopaedics and clinical examination, Pain assessment and common investigative procedures, Types of fractures: signs, symptoms, healing, and complications, Conservative and surgical approaches to fracture management, Principles of fracture management, subluxation, and dislocations	11 Hours	CO1, CO2
2	Orthopaedic Conditions of the Spine and Limbs: Fractures and dislocations of the cervical, thoracic, lumbar vertebrae, coccyx, and rib cage, Fractures and dislocations of the upper and lower limbs, Hand injuries and their management	12 Hours	CO3
3	Other Orthopaedic and Neuromuscular Conditions: Soft tissue injuries and deformities, Diseases of bones and joints (inflammatory, degenerative, regional), Neuromuscular disorders: definitions, causes, clinical features, complications, and management	11 Hours	CO4
4	Specialized Orthopaedic and Surgical Management: Indications, classification, and types of orthopaedic surgeries, Principles of orthopaedic surgical management, Physiotherapy in specialized surgeries: oncology, obstetrics, gynecology	12 Hours	CO5

Suggested Readings

1. Maheshwari J, Mhaskar V. Essential Orthopaedics. 7th ed. New Delhi: McGraw Hill Education; 2020.
2. Kulkarni GS. Textbook of Orthopaedics and Trauma. 5th ed. New Delhi: Jaypee Brothers Medical Publishers; 2020.
3. Sriram Bhat M. SRB's Manual of Surgery. 6th ed. New Delhi: Jaypee Brothers Medical Publishers; 2019.
4. Harsh Mohan. Textbook of Pathology. 9th ed. New Delhi: Jaypee Brothers Medical Publishers; 2022.
5. Sembulingam K, Sembulingam P. Essentials of Medical Physiology. 8th ed. New Delhi: Jaypee Brothers Medical Publishers; 2023.

Online Resources:

1. <https://pmc.ncbi.nlm.nih.gov/articles/PMC6690620/>
2. <http://clinicaestablishments.gov.in/WriteReadData/8611.pdf>
3. <https://pubmed.ncbi.nlm.nih.gov/3881446/>



4. <https://www.sciencedirect.com/topics/medicine-and-dentistry/muscle-disease>
5. <https://www.ncbi.nlm.nih.gov/books/NBK585599/>

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	2	3	2	—	—	—	2	—	—	3	2
CO2	3	3	2	2	3	—	—	—	—	2	—	—	3	3
CO3	2	3	—	—	3	3	—	—	—	2	—	—	3	3
CO4	2	2	2	2	3	3	—	3	2	3	2	2	3	3

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Program	Bachelor of Physiotherapy				
Year	II	Semester		III	
Course Name	Ethics, Law, and Hospital Services				
Code	BPT 303T				
Course Type	MD	L	T	P	Credit
Pre-Requisite		2	1	0	3
Course Objectives	Explain the fundamental principles of medical ethics, including autonomy, beneficence, non-maleficence, and justice, and their application in healthcare practice.				
	Explore and describe the professional conduct and legal responsibilities of healthcare providers, with a focus on ethical decision-making, patient confidentiality, and informed consent.				
	Understand the hospital service systems, including organizational structures, policies, and the role of healthcare teams in ensuring effective and efficient patient care.				
Course Outcomes					
CO1	Explain and apply key medical ethical principles in clinical decision-making and patient care to ensure responsible practice.				
CO2	Describe the legal and professional responsibilities in healthcare settings, including maintaining patient confidentiality, obtaining informed consent, and adhering to ethical guidelines in practice.				
CO3	Understand and describe the structure of hospital systems and the role of healthcare professionals in providing effective, coordinated care within those systems.				

Module	Course Contents	Contact Hrs.	Mapped CO
1	Medical Ethics, Professional Conduct, and Patient Rights Medical ethics, Need and importance of medical ethics, Principles of medical ethics, Professionalism, Code of conduct and its importance, Attributes of code of conduct, Definition and importance of consent in healthcare, Types of consent: implied, expressed, informed, Legal and ethical significance of consent, Respect for patient autonomy and dignity	15 Hours	CO1









2	Medical Malpractice, Negligence, and Medico-Legal Cases (MLCs) Management Medical malpractice and negligence: definitions and differences, Difference between ethical and legal responsibilities, Professional accountability and prevention of malpractice, Definition and types of medico-legal cases (MLCs), When, how, who, and where to report MLCs, Consent and management protocols for MLCs, Documentation and communication in medico-legal scenarios	15 Hours	CO2
3	Hospital Services: Introduction to hospital services: classification and overview, Emergency, OPD, inpatient, ICU, operation theater, and daycare services, Support and auxiliary services: pharmacy, quality mandates, and their role in patient care	15 Hours	CO3

Suggested Readings

1. B. Sandeepa Bhat, Reflections on Medical Law and Ethics in India, Eastern Law House
2. Subrata Sharma, Medical Ethics Challenges and prospects in India
3. B.M. Sakharkar, Principles of Hospital Administration and Planning, Jaypee Brothers Medical Publishers, 2009
4. Tabish Syed Amin, Hospital and Health Services Administration: Principles and Practices, OUP India, 2001

Online Resources

1. <https://pmc.ncbi.nlm.nih.gov/articles/PMC7923912/>
2. https://qps.nhsreindia.org/sites/default/files/2022-01/medico_legal.pdf
3. https://nhm.gov.in/images/pdf/guidelines/iphs/iphs-revised-guidlines-2022/03_PHC_IPHS_Guidelines-2022.pdf

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	–	–	1	–	2	–	–	3	2	2	3	2	–	2
CO2	–	–	2	–	2	–	–	3	3	2	3	2	–	2
CO3	–	–	–	–	2	–	–	2	3	2	2	2	–	3

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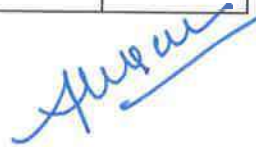
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Program	Bachelor of Physiotherapy				
Year	II	Semester		III	
Course Name	Sales and Marketing				
Code	BPT 304T				
Course Type	AEC	L	T	P	Credit
Pre-Requisite		2	1	0	3
Course Objective	Understand the key elements, types, and processes involved in marketing health services. Analyze market segmentation, targeting, and positioning strategies relevant to healthcare Practice sales techniques and address challenges within healthcare marketing scenarios.				
Course Outcomes					
CO1	Explain the elements, types, and process of marketing in health services, including market segmentation benefits and bases.				
CO2	Develop effective market targeting and positioning strategies for health services.				
CO3	Describe the sales process and apply techniques for closing sales while addressing challenges in healthcare marketing.				

Module	Course Contents	Contact Hrs.	Mapped CO
1	Fundamentals of Health Services Marketing: Marketing in health services, Elements of marketing, Types of marketing mix, Process of marketing of health services, Market segmentation principles, benefits and bases for segmentation in healthcare	15 Hours	CO1
2	Market Targeting and Positioning in Healthcare: Market targeting and targeting strategies, Marketing positioning and positioning strategies,	15 Hours	CO2
3	Sales Techniques: Introduction to sales, sales processes, closing techniques, and challenges in sales.	15 Hours	CO3








Suggested Readings

1. Marketing Management, Philip Kotler and Kevin Lane Keller
2. Sales Management: Building Customer Relationships and Partnerships, Joseph F. Hair, Rolph E. Anderson, and Rajiv Mehta

Online Resources

1. <https://www.cancer.gov/publications/dictionaries/cancer-terms/def/copy>

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	—	—	—	—	1	—	—	—	3	2	—	—	—	2
CO2	—	—	—	—	1	—	—	—	3	2	2	—	—	3
CO3	—	—	—	—	1	—	—	2	3	2	2	—	—	3

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Program	Bachelor of Physiotherapy				
Year	II	Semester		III	
Course Name	Job Ready Skills II				
Code	BPT 305T				
Course Type	SEC	L	T	P	Credit
Pre-Requisite	Job Ready Skills I	2	0	0	2
Course Objectives	Develop a positive mindset and apply emotional intelligence to manage interpersonal relationships effectively. Utilize stress management techniques and enhance negotiation skills for professional growth. Foster a result-oriented mindset to accomplish personal and organizational objectives.				
Course Outcomes					
CO1	Cultivate a positive mindset and demonstrate emotional intelligence to manage relationships effectively.				
CO2	Apply stress management techniques and develop negotiation skills for professional success.				
CO3	Adopt a result-oriented approach to achieve personal and organizational goals.				

Module	Course Contents	Contact Hrs.	Mapped CO
1	Positive Mindset and Emotional Intelligence: Introduction to positive mindset, Importance of positive mindset, Developing a positive mindset, Emotional quotient, Components of emotional intelligence	10 Hours	CO1
2	Stress Management and Negotiation Skills: Stress, Ways to manage stress, Negotiation, and its outcomes, Ways to develop effective negotiation skills	10 Hours	CO2
3	Result Orientation: Introduction to result orientation, Ways to develop result oriented mindset	10 Hours	CO3

Suggested Readings

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1. Emotional Intelligence 2.0, Travis Bradberry and Jean Greaves
2. Mindset: The New Psychology of Success, Carol S. Dweck
3. S P Dhanavel, English and Soft Skills, Orient BlackSwan
4. Gupta Seema, Soft Skills - Interpersonal and Intrapersonal Skills Development, V&S Publishers

Online Resources

1. <https://www.mindtools.com>
2. <https://www.skillsyouneed.com>

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	-	-	-	-	-	-	-	3	2	2	3	-	-	2
CO2	-	-	-	-	1	-	-	2	2	3	3	-	-	2
CO3	-	-	-	-	2	-	-	2	3	3	2	-	-	3

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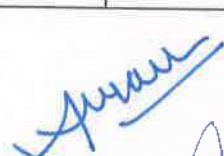
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Program	Bachelor of Physiotherapy				
Year	II	Semester		III	
Course Name	Clinical Physiotherapy I Lab				
Code	BPT 301P				
Course Type	DSC	L	T	P	Credit
Pre-Requisite	Clinical Physiotherapy I Therapeutic Exercise, Electrotherapy, and Movement Analysis	0	0	8	4
Course Objectives	Explain advanced therapeutic exercise techniques. Understand specialized therapeutic exercise techniques and functional training methods. Apply motor learning principles, functional re-education, and walking aids. Demonstrate knowledge about advanced electrotherapy modalities.				
Course Outcomes					
CO1	Conduct thorough assessments of patients' physical conditions, identifying impairments, activity limitations, and participatory restrictions to guide the selection of appropriate therapeutic interventions.				
CO2	Explore, demonstrate, and apply various therapeutic exercise techniques to improve patient mobility, strength, and functional outcomes.				
CO3	Perform and demonstrate the use of modern electrotherapy modalities, such as ultrasound and LASER therapy, to address musculoskeletal and neurological issues effectively.				
CO4	Design, implement, and adapt individualized physiotherapy management protocols using evidence-based therapeutic exercises and electrotherapy modalities to optimize rehabilitation outcomes.				

S. No.	List of Experiments	
1	Assess and train for using walking aids.	CO1
2	Measure chest expansion and demonstrate various breathing exercises.	CO2
3	Demonstrate the techniques for muscle stretching.	CO2
4	Demonstrate different types of therapeutic exercises.	CO2
5	Demonstrate ultrasound therapy.	CO3








6	Demonstrate LASER therapy.	CO3
7	Calculate dosage for different electrotherapy modalities	CO3
8	Design a management protocol for a patient with identified impairments, activity limitations and participatory restrictions	CO4

Suggested Readings

1. Joshi LN, Kotwal PP. Essentials of Orthopaedic Physiotherapy. New Delhi: Jaypee Brothers Medical Publishers; 2016.
2. Dinesh K. Therapeutic Exercises: Foundations and Techniques. 2nd ed. New Delhi: Jaypee Brothers Medical Publishers; 2022.
3. Nanda BK. Electrotherapy Simplified. 3rd ed. New Delhi: Jaypee Brothers Medical Publishers; 2020.
4. Misra UK, Kalita J. Clinical Neurophysiology. 3rd ed. New Delhi: Elsevier; 2019.
5. Brukner P, Khan K. Brukner & Khan's Clinical Sports Medicine. 5th ed. New Delhi: McGraw Hill Education; 2017.

Online Resources

1. <https://www.ncbi.nlm.nih.gov/books/NBK513238/>
2. <https://pmc.ncbi.nlm.nih.gov/articles/PMC8477273/>
3. <https://www.sciencedirect.com/science/article/am/pii/S136085921630256X>
4. <https://pmc.ncbi.nlm.nih.gov/articles/PMC3031347/>

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	3	3	2	-	-	-	2	-	-	3	3
CO2	-	3	-	-	3	2	-	-	-	2	-	-	3	3
CO3	-	2	-	-	3	-	3	-	-	2	-	-	2	2
CO4	2	3	-	2	3	2	2	-	-	3	-	2	3	3

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Program	Bachelor of Physiotherapy				
Year	II	Semester		III	
Course Name	General Medicine, Surgery and Orthopedics Lab				
Code	BPT 302P				
Course Type	DSC	L	T	P	Credit
Pre-Requisite		0	0	6	3
Course Objectives	To introduce students to fundamental clinical examination methods, including general inspection, palpation, and measurement techniques for musculoskeletal evaluation. To train students in simulating and practicing essential assessment tools such as range of motion (ROM) measurement, manual muscle testing (MMT), and limb girth measurement for evaluating functional limitations. To familiarize students with the selection and application of orthotic devices like splints, slings, and walking aids used in musculoskeletal rehabilitation. To develop understanding of common musculoskeletal injuries including fractures and dislocations, and introduce appropriate physiotherapeutic rehabilitation and basic wound management techniques.				
Course Outcomes					
CO1	Observe and demonstrate basic clinical examination skills, such as general inspection, palpation, and measurement techniques, to assess musculoskeletal deformities and other clinical signs effectively.				
CO2	Simulate and measure key assessment techniques like ROM measurement, manual muscle testing, and limb girth measurement, using these techniques to assess functional limitations in musculoskeletal conditions.				
CO3	Explore and perform orthotic applications, including splints, slings, and walking aids, to immobilize or assist in the rehabilitation of patients with musculoskeletal impairments.				
CO4	Identify and classify common musculoskeletal injuries, including fractures and dislocations, and demonstrate the appropriate rehabilitation techniques, including wound management and patient mobility strategies.				

S. No.	List of Experiments	
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1	Demonstrate general inspection, palpation, and measurement techniques for assessing swelling, tenderness, and deformity in joints.	CO1
2	Observe and record normal and abnormal posture in peers.	CO1
3	Perform basic gait observation and identify deviations.	CO1
4	Measure joint range of motion (ROM) for major joints using a goniometer.	CO2
5	Perform manual muscle testing for selected muscle groups.	CO2
6	Measure limb girth to assess edema using a measuring tape.	CO2
7	Demonstrate the Correct Use and Fitting of Walking Aids (Crutches, Canes, Walkers).	CO3
8	Demonstrate the Application of Simple Splints or Slings for Immobilization.	CO3
9	Identify and Classify Types of Fractures and Dislocations Using Bone Models or Diagrams.	CO4
10	Simulate Wound Inspection and Basic Dressing Techniques on Mannequins or Models.	CO4

Suggested Readings

1. Maheshwari J, Mhaskar V. Essential Orthopaedics. 7th ed. New Delhi: McGraw Hill Education; 2020.
2. Kulkarni GS. Textbook of Orthopaedics and Trauma. 5th ed. New Delhi: Jaypee Brothers Medical Publishers; 2020.
3. Sriram Bhat M. SRB's Manual of Surgery. 6th ed. New Delhi: Jaypee Brothers Medical Publishers; 2019.
4. Harsh Mohan. Textbook of Pathology. 9th ed. New Delhi: Jaypee Brothers Medical Publishers; 2022.
5. Sembulingam K, Sembulingam P. Essentials of Medical Physiology. 8th ed. New Delhi: Jaypee Brothers Medical Publishers; 2023.

Online Resources

1. <https://pmc.ncbi.nlm.nih.gov/articles/PMC6690620/>
2. <http://clinicaestablishments.gov.in/WriteReadData/8611.pdf>
3. <https://pubmed.ncbi.nlm.nih.gov/3881446/>
4. <https://www.sciencedirect.com/topics/medicine-and-dentistry/muscle-disease>
5. <https://www.ncbi.nlm.nih.gov/books/NBK585599/>

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	—	3	3	—	—	—	—	2	—	—	3	2

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CO2	3	3	-	3	3	-	-	-	-	2	-	-	3	2
CO3	2	3	-	-	3	2	3	-	-	2	-	-	3	3
CO4	3	2	1	2	3	3	2	-	-	2	-	-	3	3

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Program	Bachelor of Physiotherapy				
Year	II	Semester		IV	
Course Name	Clinical Physiotherapy II				
Code	BPT 401T				
Course Type	DSC	L	T	P	Credit
Pre-Requisite		3	1	0	4
Course Objectives	Identify the key physiotherapy approaches used in neurology, focusing on the treatment of common neurological conditions. Demonstrate the application of physiotherapy techniques in the cardiorespiratory field. Understand the physiotherapy interventions used in cardiac rehabilitation. Explain the principles and techniques of physiotherapy in orthopaedics.				
Course Outcomes					
CO1	Identify appropriate physiotherapy approaches for neurological conditions and demonstrate the use of various techniques to enhance motor function and independence in patients with neurological impairments.				
CO2	Demonstrate the application of physiotherapy techniques aimed at improving respiratory function, mobility, and overall quality of life in patients with cardiorespiratory conditions.				
CO3	Understand and apply physiotherapy interventions in cardiac rehabilitation, focusing on promoting recovery, improving cardiovascular fitness, and reducing complications after heart surgery or cardiac events.				
CO4	Explain the principles behind orthopaedic physiotherapy interventions, including rehabilitation following fractures, joint replacements, and other musculoskeletal injuries or surgeries.				

Module	Course Contents	Contact Hrs.	Mapped CO
1	Physiotherapy in Neurology and Psychiatry: Overview of common neurological conditions (e.g., stroke, Parkinson's disease, spinal cord injury, cerebral palsy), Principles and techniques of physiotherapy management in neurological disorders, Post-surgical physiotherapy for neurological surgeries (e.g., decompression, tumor excision), Functional training, neuro-rehabilitation, and use of assistive devices, Introduction to psychiatric conditions relevant to physiotherapy (e.g., depression,	15 Hours	CO1

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	anxiety, schizophrenia), Physiotherapy approaches in mental health: relaxation, exercise, and behavioral activation, Stress management techniques and their application in clinical practice		
2	Physiotherapy in Cardiorespiratory Conditions: Cardiorespiratory assessment and evaluation techniques, Management of cardiorespiratory dysfunctions (e.g., COPD, asthma, post-COVID rehabilitation), Airway clearance, breathing exercises, and chest physiotherapy	15 Hours	CO2
3	Physiotherapy in Cardiology: Assessment and physiotherapy management of cardiothoracic diseases (e.g., coronary artery disease, heart failure), Post-operative rehabilitation after cardiothoracic surgeries (e.g., CABG, valve replacement), Exercise prescription and monitoring in cardiac rehabilitation	15 Hours	CO3
4	Physiotherapy in Orthopaedics: Assessment and management of common orthopedic conditions (e.g., fractures, arthritis, soft tissue injuries), Post-operative physiotherapy for orthopedic surgeries (e.g., joint replacement, fixation), Functional restoration, gait training, and use of orthoses	15 Hours	CO4

Suggested Readings

1. O'Sullivan SB, Schmitz TJ, Fulk GD. Physical Rehabilitation. 7th ed. New Delhi: Jaypee Brothers Medical Publishers; 2020.
2. Braddom RL. Braddom's Physical Medicine and Rehabilitation. 6th ed. New Delhi: Elsevier; 2022.
3. Dinesh K. Therapeutic Exercises: Foundations and Techniques. 2nd ed. New Delhi: Jaypee Brothers Medical Publishers; 2022.
4. Maheshwari J, Mhaskar V. Essential Orthopaedics. 7th ed. New Delhi: McGraw Hill Education; 2020.
5. Sharma S, Kaur M. Textbook of Cardiorespiratory Physiotherapy. 2nd ed. New Delhi: Jaypee Brothers Medical Publishers; 2021.

Online Resources

1. <https://www.sciencedirect.com/science/article/pii/S0004951414609491/pdf?md5=620396fff5e8494282bc92a88d2a70ea&pid=1-s2.0-S0004951414609491-main.pdf>
2. <https://pmc.ncbi.nlm.nih.gov/articles/PMC8045983/>
3. <https://pubmed.ncbi.nlm.nih.gov/29376440/>
4. <https://www.nhcs.com.sg/patient-care/specialties-and-services/pages/cardiology/cardiac-physiotherapy-and-rehabilitation-services.aspx>

Course Articulation Matrix

[Handwritten signatures and initials are present below the Course Articulation Matrix header.]

PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	2	3	2	—	—	—	2	—	—	3	3
CO2	2	3	2	2	3	2	—	—	—	2	—	—	3	3
CO3	2	2	2	2	3	3	—	—	—	2	—	—	3	3
CO4	3	3	—	2	3	3	2	—	—	2	—	—	3	3

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Program	Bachelor of Physiotherapy				
Year	II	Semester	IV		
Course Name	Sports Physiotherapy & Exercise Prescription				
Code	BPT 402T				
Course Type	DSC	L	T	P	Credit
Pre-Requisite		3	1	0	4
Course Objectives	To introduce students to the fundamentals of sports physiotherapy, including common injuries and prevention strategies. To provide basic knowledge of injury management and care in sports scenarios. To introduce students to structured exercise planning for fitness and rehabilitation. To help students understand how to tailor exercise and physiotherapy care for diverse athletic and general populations.				
Course Outcomes					
CO1	Describe the role of physiotherapists in sports and identify basic types of sports injuries and their prevention.				
CO2	Explain general approaches to managing common sports injuries and outline steps for athlete recovery and return.				
CO3	Implement simple exercise prescriptions based on fitness principles and individual goals.				
CO4	Recognize the needs of different populations and apply foundational training principles to support fitness and performance.				

Module	Course Contents	Contact Hrs.	Mapped CO
1	Introduction to Sports Physiotherapy: Scope and role of physiotherapy in sports, Classification of sports injuries (acute vs chronic), Risk factors and prevention strategies, Common sports injuries (sprains, strains, dislocations, fractures), Importance of warm-up and cool-down, Overview of injury assessment process	15 Hours	CO1
2	Management of Sports Injuries: General principles of injury management (RICE, PRICE), Acute vs chronic injury care, Introduction to on-field and post-match	15 Hours	CO2







	management, Basic taping and support techniques (introductory), Modalities used in sports injury management, Return-to-sport criteria (basic concept)		
3	Introduction to Exercise Prescription: Definition and goals of exercise prescription, Components: frequency, intensity, time, and type (FITT principle), Principles of training: overload, progression, specificity, General exercise prescription for endurance, strength, flexibility, and balance	15 Hours	CO3
4	Fitness, Performance, and Special Populations: Basic fitness assessments and performance testing, Functional training principles, Guidelines for training adolescents, elderly, and injured athletes, Role of physiotherapists in sports teams and events, Psychological aspects of training and rehabilitation	15 Hours	CO4

Suggested Readings

1. Mandal, A., and R. Vyas. 2020. Basics of Sports Physiotherapy. New Delhi: CBS Publishers & Distributors.
2. Brukner, Peter, and Karim Khan. 2017. Brukner & Khan's Clinical Sports Medicine. 5th ed. New Delhi: McGraw Hill Education (Indian reprint).
3. Kumar, R. 2021. Exercise Prescription for Physiotherapists: A Clinical Guide. New Delhi: Jaypee Brothers Medical Publishers.
4. Joshi, L. D. 2018. Textbook of Sports and Exercise Therapy. Mumbai: B. I. Publications Pvt. Ltd.
5. ACSM (American College of Sports Medicine). 2018. ACSM's Guidelines for Exercise Testing and Prescription. 10th ed. Philadelphia: Wolters Kluwer India Pvt. Ltd.

Online Resources

1. <https://www.physiotherapyindia.org>
2. <https://bjsm.bmj.com>
3. <https://world.physio>
4. <https://www.acsm.org>

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	3	2	—	3	2	—	—	—	2	—	—	3	2
CO2	2	3	4	2	3	2	—	—	—	2	—	—	3	3

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C03	-	3	-	-	3	-	-	-	-	2	-	-	2	3
C04	-	3	-	-	3	-	-	-	-	2	-	-	2	3

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Program	Bachelor of Physiotherapy				
Year	II	Semester	IV		
Course Name	Community Physiotherapy				
Code	BPT 403T				
Course Type	DSC	L	T	P	Credit
Pre-Requisite		2	2	0	4
Course Objectives	To introduce students to the principles of physiotherapy in community settings and public health contexts. To familiarize students with the framework and functioning of CBR programs in India. To expose students to physiotherapy needs across different population groups in a community setting. To build awareness about real-world community engagement and documentation practices in physiotherapy.				
Course Outcomes					
CO1	Explain the concept and scope of community physiotherapy and identify basic strategies for community rehabilitation.				
CO2	Describe the components of CBR and explain the physiotherapist's role in its planning and implementation.				
CO3	Identify key physiotherapy approaches for diverse community groups including elderly, children, and women.				
CO4	Demonstrate basic community physiotherapy practices including patient education, documentation, and follow-up strategies.				

Module	Course Contents	Contact Hrs.	Mapped CO
1	Introduction to Community-Based Physiotherapy: Definition, scope, and goals of community physiotherapy, Differences between hospital-based and community-based care, Roles and responsibilities of physiotherapists in the community, Common community health issues and disability patterns, Levels	15 Hours	CO1

	of prevention (primary, secondary, tertiary), Community participation and rehabilitation needs assessment		
2	Community-Based Rehabilitation (CBR): Definition, principles, and objectives of CBR, Stakeholders in CBR: family, NGOs, government, professionals, Physiotherapist's role in CBR programs, Identifying and prioritizing community needs, Functional training and home-based care, Introduction to national programs related to rehabilitation	15 Hours	CO2
3	Physiotherapy in Special Community Groups: Geriatric care and fall prevention in communities, Rehabilitation of children with disabilities, Women's health and physiotherapy at the community level, Worksite physiotherapy and occupational health, Rehabilitation in rural and urban low-resource areas, Health camps, awareness programs, and screenings	15 Hours	CO3
4	Documentation, and Health Promotion: Planning and conducting a community physiotherapy visit, Introduction to survey methods and need assessment tools, Basics of health education and promotion, Documentation of patient progress in home/community settings, Role of communication and counseling in community health, Preventive physiotherapy and lifestyle guidance	15 Hours	CO4

Suggested Readings

1. Joshi, L. D., and A. S. Pathak. 2018. Textbook of Community Health Physiotherapy. Mumbai: B. I. Publications Pvt. Ltd.
2. Kumar, R. 2020. Community-Based Rehabilitation: Principles and Practice. New Delhi: Jaypee Brothers Medical Publishers.
3. Park, K. 2023. Park's Textbook of Preventive and Social Medicine. 27th ed. Jabalpur: Banarsidas Bhanot Publishers.
4. WHO. 2004. Training in Community-Based Rehabilitation (CBR) for Health Professionals. Geneva: World Health Organization.
5. <https://apps.who.int/iris/handle/10665/43075>
6. Naik, B. M. 2018. Community Health Nursing and Rehabilitation. Hyderabad: Neelkamal Publications.

Online Resources

1. <https://www.who.int/teams/noncommunicable-diseases/sensory-functions-disability-and-rehabilitation>

[Handwritten signatures and initials in blue ink]

2. <https://rehabcouncil.nic.in>
3. <https://www.physiotherapyindia.org>
4. <https://www.cbrglobalnetwork.org>

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	2	—	—	3	3	—	2	—	2	—	3	2	3
CO2	—	2	—	—	3	3	—	2	—	2	—	3	2	3
CO3	2	3	—	—	3	2	—	2	—	2	—	3	3	3
CO4	—	2	—	—	3	2	—	3	—	2	—	3	2	3

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Program	Bachelor of Physiotherapy				
Year	II	Semester		IV	
Course Name	Rehabilitation				
Code	BPT 404T				
Course Type	DSC	L	T	P	Credit
Pre-Requisite		2	0	0	2
Course Objectives	To introduce students to the foundational concepts and objectives of rehabilitation in physiotherapy. To familiarize students with rehabilitation approaches used in common clinical conditions across different patient populations. To provide students with knowledge of functional training and reintegration strategies that support independent living.				
Course Outcomes					
CO1	Explain the principles and scope of rehabilitation and identify the physiotherapist's role in promoting functional recovery.				
CO2	Describe basic rehabilitation strategies for orthopedic, neurological, and geriatric conditions				
CO3	Demonstrate an understanding of functional training techniques and the importance of community reintegration in rehabilitation.				

Module	Course Contents	Contact Hrs.	Mapped CO
1	Principles and Scope of Rehabilitation: Definition and goals of rehabilitation, Principles of physical rehabilitation, Role of physiotherapists in a rehabilitation team, Multidisciplinary approach to rehabilitation, Functional limitations and impairments, Importance of early rehabilitation	10 Hours	CO1
2	Rehabilitation in Common Conditions: Overview of orthopedic rehabilitation (fractures, joint replacements), Basics of neurological rehabilitation (stroke, spinal cord injuries), Geriatric rehabilitation: mobility aids, fall prevention, Cardiopulmonary rehabilitation (introductory concepts), Functional retraining and mobility support	10 Hours	CO2
3	Functional Training and Community Reintegration: Activities of Daily Living (ADL) training, Use of assistive devices (canes, walkers, wheelchairs), Vocational rehabilitation	10 Hours	CO3

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A2

	(basic awareness), Community-based rehabilitation overview, Role of caregiver training and home exercise programs		
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Suggested Readings

1. Kumar, R. 2021. Clinical Rehabilitation in Physiotherapy. New Delhi: Jaypee Brothers Medical Publishers.
2. O'Sullivan, Susan B., Thomas J. Schmitz, and George D. Fulk. 2019. Physical Rehabilitation, 7th ed. New Delhi: Jaypee Brothers (Indian reprint).
3. Pande, R., and R. Vyas. 2018. Rehabilitation and Functional Training in Physiotherapy. New Delhi: CBS Publishers & Distributors.
4. Joseph, M. 2020. Essentials of Rehabilitation and Disability Management. Chennai: Oxford University Press India.
5. Braddom, Randall L. 2022. Braddom's Physical Medicine and Rehabilitation, 6th ed. New Delhi: Elsevier India (Student Edition).

Online Resources

1. <https://www.who.int/rehabilitation>
2. <https://www.physiotherapyindia.org>
3. <https://rehabcouncil.nic.in>
4. <https://www.cbrglobalnetwork.org>

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	3	2	—	3	3	—	2	—	2	—	3	3	3
CO2	2	3	—	2	3	3	—	—	—	2	—	3	3	3
CO3	—	2	—	—	3	2	—	3	—	2	2	3	2	3

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Program	Bachelor of Physiotherapy				
Year	II	Semester		IV	
Course Name	Leadership Skills for Business Success				
Code	BPT 405T				
Course Type	AEC	L	T	P	Credit
Pre-Requisite		2	0	0	2
Course Objectives	To develop a strong sense of ownership and responsibility, encouraging learners to be accountable and proactive in both personal and professional settings while promoting adaptability through a growth mindset. To equip learners with interpersonal and leadership skills, including conflict resolution, openness to feedback, initiative-taking, strategic thinking, and mentoring in diverse environments. To foster an entrepreneurial mindset, nurturing a bias for action and enhancing creative problem-solving abilities needed for innovation and success in dynamic contexts.				
Course Outcomes					
CO1	Demonstrate ownership and a growth mindset by taking initiative, embracing challenges, adapting to change, and being accountable for tasks.				
CO2	Apply effective interpersonal and leadership skills by managing conflicts constructively, showing openness to feedback, mentoring others, and thinking strategically.				
CO3	Exhibit entrepreneurial thinking by taking proactive action and solving problems innovatively in personal and professional contexts.				

Module	Course Contents	Contact Hrs.	Mapped CO
1	Personal Ownership and Growth Mindset: Ownership, Taking ownership, Ways to develop ownership, Fixed mindset vs Growth mindset, Ways to develop a growth mindset, Adaptability	10 Hours	CO1
2	Conflict and Leadership Skills: Conflict, Types of conflicts, Ways to manage conflicts, Openness to feedback, Taking initiative, Strategic thinking skills, Mentoring skills	10 Hours	CO2

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3	Entrepreneurial Mindset and Problem Solving Entrepreneurial mindset: bias for action, Importance of problem-solving in leadership and innovation, Integrating ownership and growth mindset into entrepreneurial thinking	10 Hours	CO3
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Suggested Readings

1. The Five Dysfunctions of a Team: A Leadership Fable, Patrick Lencioni
2. Getting Things Done: The Art of Stress-Free Productivity, David Allen

Online Resources

1. <https://www.mindtools.com>
2. <https://www.skillsyouneed.com>

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	—	—	—	—	1	—	—	2	2	3	3	3	—	2
CO2	—	—	—	—	1	—	—	3	2	3	3	2	—	3
CO3	—	—	—	—	1	—	—	2	3	3	2	2	—	3

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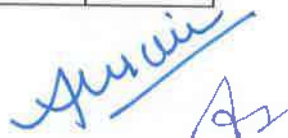
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Program	Bachelor of Physiotherapy				
Year	II	Semester	IV		
Course Name	Clinical Physiotherapy II Lab				
Code	BPT 401P				
Course Type	DSC	L	T	P	Credit
Pre-Requisite		0	0	8	4
Course Objectives	Observe and perform disability screenings in patients with neurological conditions. Explore and demonstrate the process of designing individualized rehabilitation plans based on assessment results for patients with cardiorespiratory conditions. Simulate and train patients in the application of different rehabilitation plans to improve cardiac conditions. Conduct and monitor the progress of rehabilitation plans of patients with various orthopaedic conditions.				
Course Outcomes					
CO1	Observe and perform comprehensive disability screenings for patients with neurological conditions, identifying functional impairments and assisting in the design of appropriate rehabilitation interventions.				
CO2	Explore and demonstrate the process of designing individualized rehabilitation plans for patients with cardiorespiratory conditions, using the results from their initial assessments to tailor interventions effectively.				
CO3	Simulate and train patients on the application of cardiac rehabilitation plans, focusing on exercises and strategies that improve cardiovascular health, strength, and endurance.				
CO4	Conduct and monitor the progress of rehabilitation plans for patients with orthopaedic conditions, adjusting interventions as needed to promote healing, restore mobility, and improve functional outcomes.				

S. No.	List of Experiments	
1	Disability screening	CO1
2	Designing rehabilitation plans for various health conditions	CO2
3	Training for different rehabilitation plans	CO3







4	Preparing community education program on various health and disability related issue for awareness, prevention and care	CO4
5	Case presentations and case discussions for neurology, cardiorespiratory, cardiac and orthopaedics cases	CO1
6	Designing plan for physiotherapy for different health conditions related to the above	CO2
7	Training patients for the designed plans	CO3
8	Monitoring progress of the designed plans	CO4

Suggested Readings

1. O'Sullivan SB, Schmitz TJ, Fulk GD. Physical Rehabilitation. 7th ed. New Delhi: Jaypee Brothers Medical Publishers; 2020.
2. Braddom RL. Braddom's Physical Medicine and Rehabilitation. 6th ed. New Delhi: Elsevier; 2022.
3. Dinesh K. Therapeutic Exercises: Foundations and Techniques. 2nd ed. New Delhi: Jaypee Brothers Medical Publishers; 2022.
4. Maheshwari J, Mhaskar V. Essential Orthopaedics. 7th ed. New Delhi: McGraw Hill Education; 2020.
5. Sharma S, Kaur M. Textbook of Cardiorespiratory Physiotherapy. 2nd ed. New Delhi: Jaypee Brothers Medical Publishers; 2021.

Online Resources

1. <https://www.sciencedirect.com/science/article/pii/S0004951414609491/pdf?md5=620396fff5e8494282bc92a88d2a70ea&pid=1-s2.0-S0004951414609491-main.pdf>
2. <https://pmc.ncbi.nlm.nih.gov/articles/PMC8045983/>
3. <https://pubmed.ncbi.nlm.nih.gov/29376440/>
4. <https://www.nhcs.com.sg/patient-care/specialties-and-services/pages/cardiology/cardiac-physiotherapy-and-rehabilitation-services.aspx>

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	2	3	2	—	—	—	3	—	2	3	3
CO2	3	3	2	2	3	2	—	—	—	3	—	2	3	3
CO3	2	3	—	2	3	3	—	—	—	3	—	2	3	3
CO4	3	3	2	2	3	3	2	—	—	3	—	2	3	3

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Program	Bachelor of Physiotherapy				
Year	II	Semester		IV	
Course Name	Sports Physiotherapy & Exercise Prescription Lab				
Code	BPT 402P				
Course Type	DSC	L	T	P	Credit
Pre-Requisite		0	0	4	2
Course Objectives	To introduce students to the fundamentals of sports physiotherapy, including common injuries and prevention strategies. To provide basic knowledge of injury management and care in sports scenarios. To introduce students to structured exercise planning for fitness and rehabilitation. To help students understand how to tailor exercise and physiotherapy care for diverse athletic and general populations.				
Course Outcomes					
CO1	Demonstrate the ability to plan and perform warm-up and cool-down routines appropriate for different fitness levels and physical activities, emphasizing injury prevention and recovery.				
CO2	Conduct basic fitness assessments and interpret results related to endurance, flexibility, and muscular strength using minimal equipment and field-based tools.				
CO3	Design and demonstrate safe and individualized exercise prescriptions using the FITT principle and apply introductory joint taping or strapping techniques for basic injury support.				

S. No.	List of Experiments	
1	Warm-Up and Cool-Down Demonstration	CO1
2	Basic Fitness Assessment Practical	CO2
3	Exercise Prescription Planning	CO3
4	Basic Taping and Joint Support Techniques	CO3

Suggested Readings

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1. Mandal, A., and R. Vyas. 2020. Basics of Sports Physiotherapy. New Delhi: CBS Publishers & Distributors.
2. Brukner, Peter, and Karim Khan. 2017. Brukner & Khan's Clinical Sports Medicine. 5th ed. New Delhi: McGraw Hill Education (Indian reprint).
3. Kumar, R. 2021. Exercise Prescription for Physiotherapists: A Clinical Guide. New Delhi: Jaypee Brothers Medical Publishers.
4. Joshi, L. D. 2018. Textbook of Sports and Exercise Therapy. Mumbai: B. I. Publications Pvt. Ltd.
5. ACSM (American College of Sports Medicine). 2018. ACSM's Guidelines for Exercise Testing and Prescription. 10th ed. Philadelphia: Wolters Kluwer India Pvt. Ltd.

Online Resources

1. <https://www.physiotherapyindia.org>
2. <https://bjsm.bmj.com>
3. <https://world.physio>
4. <https://www.acsm.org>

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	3	2	—	3	2	—	—	—	2	—	—	3	3
CO2	2	3	—	—	3	—	—	—	—	2	—	—	3	3
CO3	2	3	—	—	3	—	3	—	—	2	—	—	3	3

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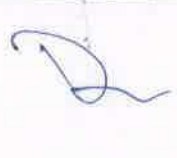
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Program	Bachelor of Physiotherapy				
Year	III	Semester	V		
Course Name	Patient Communication and Counselling				
Code	BPT 501P				
Course Type	DSC	L	T	P	Credit
Pre-Requisite		0	0	24	12
Course Objectives	To introduce students to the foundational concepts and types of communication used in healthcare To equip students with skills for effective communication with patients and their caregivers, including strategies for different age groups and special populations. To develop awareness of safety protocols, documentation, and communication. To develop professional communication skills required for documentation, teamwork, teleconsultations, and ethical interactions in clinical practice.				
Course Outcomes					
CO1	Explain the types, components, and importance of effective communication in physiotherapy practice and demonstrate awareness of barriers to communication.				
CO2	Demonstrate appropriate communication strategies tailored to diverse patient populations, including those with impairments or in sensitive situations.				
CO3	Describe the stages and principles of patient counselling and apply them to common physiotherapy scenarios involving behavior change and rehabilitation.				
CO4	Use professional communication techniques in written, verbal, and digital formats while adhering to legal and ethical standards in physiotherapy practice.				

Module	Course Contents	Contact Hrs.	Mapped CO
1	Communication in Healthcare:	90 Hours	CO1







	Definition and importance of communication in physiotherapy. Elements and types of communication (verbal, non-verbal, written). The communication process and barriers. Patient-centered communication, Role of empathy and active listening, Basic interpersonal skills for physiotherapists		
2	Communication with Patients and Caregivers: Communication across age groups (pediatric, adult, geriatric), Communicating with patients having sensory, cognitive, or speech impairments, Handling difficult conversations (bad news, non-compliance, denial), Educating and involving caregivers in physiotherapy, Patient motivation and empowerment strategies	90 Hours	CO2
3	Counselling in Physiotherapy Practice: Definition and scope of counselling in healthcare, Difference between counselling and advising, Stages and principles of patient counselling, Counselling for lifestyle modification and chronic illness, Counselling for rehabilitation and pain management, Counselling ethics and confidentiality	90 Hours	CO3
4	Communication Skills in Professional Practice: Interprofessional communication and teamwork, Written communication: patient records, referral letters, discharge summaries, Communication in telehealth/remote physiotherapy consultations, Public speaking and group education sessions, Managing conflicts and giving feedback, Legal and ethical aspects of patient communication	90 Hours	CO4

Suggested Readings

1. Bhatia, Vikas. 2022. Communication Skills for Health Professionals. 2nd ed. New Delhi: CBS Publishers & Distributors.
2. Kumar, A., and R. Singh. 2021. Counselling and Communication Skills for Physiotherapists and Nurses. New Delhi: Jaypee Brothers Medical Publishers.
3. Gupta, Piyush. 2020. Doctor-Patient Communication: A Holistic Approach. New Delhi: CBS Publishers & Distributors.
4. Neeraja, K. P. 2011. Communication and Educational Technology for Nurses. New Delhi: Jaypee Brothers Medical Publishers.
5. Rao, M. 2014. Effective Communication in Nursing and Healthcare. Hyderabad: Paras Medical Publishers.
6. Balasubramaniam, S. 2019. Health Communication in India: Principles and Practices. Chennai: Notion Press.
7. Baruah, T. C. 2013. Essentials of Communication. New Delhi: S. Chand Publishing.
8. Kumar, R. 2013. Counselling Skills for Health Professionals. New Delhi: Elsevier India.
9. Deshpande, Sudhakar. 2010. Communication Skills for Professionals. Pune: Orient Blackswan.

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	—	2	3	—	2	—	—	3	—	2	—	—	2	3
CO2	—	2	3	—	2	—	—	3	—	2	—	—	2	3
CO3	—	—	3	—	2	—	—	3	—	2	2	—	2	3
CO4	—	—	3	—	2	—	—	3	—	2	—	2	2	3

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Program	Bachelor of Physiotherapy				
Year	III	Semester		V	
Course Name	Managing Medical Emergencies				
Code	BPT 502P				
Course Type	DSC	L	T	P	Credit
Pre-Requisite		0	0	12	6
Course Objectives	Understand the importance of timely response in medical emergencies. Learn basic resuscitation and life support techniques. Identify signs of critical medical conditions. Explain first aid for common injuries.				
Course Outcomes					
CO1	Explain the basic principles of emergency medical response.				
CO2	Demonstrate understanding of CPR and life-saving protocols.				
CO3	Identify signs of common emergency conditions.				
CO4	Describe appropriate first aid interventions.				

Module	Course Contents	Contact Hrs.	Mapped CO
1	Introduction to Emergency Medical Services: Definition and types of medical emergencies, assessment and prioritization, basic life support principle	45 Hours	CO1
2	CPR, Defibrillation, and Basic Life Support: Recognition and management of cardiac arrest, respiratory distress, airway obstruction.	45 Hours	CO2
3	Emergency Response to Bleeding and Shock: Types of trauma, hemorrhage control, types and stages of shock, initial stabilization.	45 Hours	CO3
4	Management of Burns, Fractures: Types of fractures and burns, principles of fracture immobilization and first aid, burn classification and treatment, pain management, infection prevention, and wound care.	45 Hours	CO4








Suggested Readings

1. American Heart Association, BLS Provider Manual
2. First Aid Manual, Indian Red Cross Society
3. Satish Chandra, Essentials of Emergency Medicine, Jaypee Brothers

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	—	3	2	3	3	—	—	—	2	—	—	3	2
CO2	3	—	3	—	3	3	—	—	—	2	—	—	3	2
CO3	3	—	2	—	3	2	—	—	—	2	—	—	3	2
CO4	3	—	3	—	3	2	—	—	—	2	—	—	3	2

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Program	Bachelor of Physiotherapy				
Year	III	Semester		V	
Course Name	Summer Internship				
Code	BPT 503P				
Course Type	DSC	L	T	P	Credit
Pre-Requisite		0	0	4	2
Course Objectives	Apply theoretical knowledge in a real-world work environment to develop practical skills and professional competence.				
	Enhance communication, teamwork, and problem-solving abilities through active participation in organizational tasks and projects.				
	Understand workplace culture, ethics, and professional responsibilities to prepare for future career opportunities.				
Course Outcomes					
CO1	Demonstrate the ability to perform job-related tasks effectively by applying academic concepts to practical scenarios.				
CO2	Exhibit improved interpersonal and professional skills, including communication, collaboration, and adaptability in a work setting.				
CO3	Reflect on the internship experience to identify personal strengths, areas for improvement, and career goals.				

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Program	Bachelor of Physiotherapy				
Year	III	Semester		VI	
Course Name	Infection Control Practices				
Code	BPT 601P				
Course Type	DSC	L	T	P	Credit
Pre-Requisite		0	0	24	12
Course Objectives	Understand the types of infectious agents, their modes of transmission, and the significance of standard precautions in healthcare. Apply sterilization and disinfection methods appropriately to ensure infection-free clinical environments. Demonstrate correct usage of PPE, including donning, doffing, and disposal, as part of infection prevention practices. Identify hospital-acquired infections (HAIs) and implement biomedical waste management techniques following regulatory standards.				
Course Outcomes					
CO1	Describe infectious agents and implement standard precautions such as hand hygiene and respiratory etiquette.				
CO2	Apply suitable sterilization and disinfection methods based on the type of equipment and setting.				
CO3	Demonstrate the correct selection, usage, and disposal of PPE in clinical situations.				
CO4	Identify common HAIs and manage biomedical waste using color-coded segregation and safe disposal practices.				

Module	Course Contents	Contact Hrs.	Mapped CO
1	Introduction to Infection and Standard Precautions: Overview of infectious agents (bacteria, viruses, fungi, parasites), modes of transmission (contact, droplet, airborne), and the significance of infection control in healthcare settings., Principles of standard precautions, handwashing techniques, hand sanitizers, respiratory hygiene, and cough etiquette.	90 Hours	CO1

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2	Sterilization and Disinfection: Methods of sterilization (autoclaving, dry heat, chemical sterilants), disinfection techniques, and selection of appropriate disinfectants.	90 Hours	CO2
3	Use of Personal Protective Equipment (PPE): Types of PPE (gloves, gowns, masks, eye protection), proper donning and doffing procedures, and disposal protocols.	90 Hours	CO3
4	Hospital-Acquired Infections and Waste Management: Common HAI, prevention strategies, biomedical waste segregation, handling, and disposal in compliance with regulatory guidelines.	90 Hours	CO4

Suggested Readings

1. Kamaluddin A. et al., Infection Control in Healthcare Settings, 3rd Edition, Jaypee Publications
2. Shrivastava P.S., Textbook of Infection Control and Hospital Hygiene, 2nd Edition, Elsevier India
3. Parikh C.R., Infection Control in Clinical Laboratories, 1st Edition, CBS Publishers
4. WHO Guidelines on Hand Hygiene in Healthcare, 2009

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	—	3	—	2	—	—	—	—	2	—	—	3	2
CO2	3	—	3	—	2	—	2	—	—	2	—	—	3	2
CO3	3	—	3	—	2	—	3	—	—	2	—	—	3	2
CO4	3	—	3	—	2	—	2	—	—	2	—	—	3	2

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Program	Bachelor of Physiotherapy				
Year	III	Semester		VI	
Course Name	Exercise Therapy				
Code	BLT 602P				
Course Type	DSC	L	T	P	Credit
Pre-Requisite		0	0	12	06
Course Objectives	To introduce students to the foundational concepts, principles, and physiological effects of exercise therapy. To familiarize students with various types and techniques of therapeutic exercises used to improve function and mobility. To train students in positioning, movement facilitation, gait analysis, and functional rehabilitation techniques. To enable students to apply exercise therapy principles to clinical cases and learn proper documentation and progression methods.				
Course Outcomes					
CO1	Explain the principles, types, indications, and systemic effects of therapeutic exercises and demonstrate understanding of safe practice guidelines.				
CO2	Select and perform appropriate therapeutic exercises including strengthening, stretching, breathing, and mobility exercises for different functional goals.				
CO3	Demonstrate correct positioning, assistive gait training, and functional re-education strategies to improve mobility and patient independence.				
CO4	Apply therapeutic exercises in selected clinical scenarios and document treatment plans, progress, and outcomes effectively.				

Module	Course Contents	Contact Hrs.	Mapped CO
1	Introduction to Exercise Therapy: Definition, scope, and goals of exercise therapy, Principles and classification of therapeutic exercises, Effects of exercise on body systems (musculoskeletal, cardiovascular, respiratory, neurological), General safety precautions and contraindications.	45 Hours	CO1

	Indications of therapeutic exercises in clinical practice, Patient preparation and exercise prescription basics		
2	Types and Techniques of Therapeutic Exercises: Active, passive, active-assisted, resisted, and isometric exercises, Free exercises vs. assisted or mechanical exercises, Stretching and strengthening techniques, Breathing exercises: diaphragmatic, segmental, pursed lip breathing, Mobilization and range of motion exercises (ROM), Endurance and aerobic conditioning, Postural correction and relaxation techniques	45 Hours	CO2
3	Positioning, Gait Training, and Functional Re-education: Types and principles of positioning: supine, prone, side-lying, sitting, standing, Importance of correct positioning in therapy and prevention of complications, Bed mobility and transfer training techniques, Gait analysis and training: types of gait, gait deviations, assistive devices, Balance and coordination exercises, Functional re-education: ADL training and progression, Role of therapy in posture, stability, and movement control	45 Hours	CO3
4	Application in Clinical Conditions and Documentation: Exercise therapy in orthopedic, neurological, and cardiopulmonary conditions, Case-based applications and therapy planning, Progression and modification of exercise plans, Outcome measurement tools (ROM, MMT, VAS, Barthel Index, etc.), Documentation and reporting in exercise therapy, Precautions in special populations (pediatrics, geriatrics, pregnancy)	45 Hours	CO4

Suggested Readings

1. Misra, D. K. 2021. Principles of Exercise Therapy. 5th ed. New Delhi: Jaypee Brothers Medical Publishers.
2. Sullivan, Debasis. 2022. Therapeutic Exercises: Techniques for Intervention. 2nd ed. New Delhi: CBS Publishers & Distributors.
3. Joshi, L. D., and P. K. Joshi. 2018. Basics of Exercise Therapy. 3rd ed. New Delhi: B. I. Publications Pvt. Ltd.
4. Dena Gardiner. 2020. The Principles of Exercise Therapy. 4th ed. Reprint. New Delhi: CBS Publishers.
5. Kisner, Carolyn, and Lynn Allen Colby. 2017. Therapeutic Exercise: Foundations and Techniques. 6th ed. New Delhi: Jaypee Brothers Medical Publishers (Indian reprint edition).
6. Bessy, P. K., and S. Selvam. 2019. Manual of Therapeutic Exercises. Chennai: Tamil Nadu Dr. MGR Medical University Publications.
7. Maheshwari, J., and R. S. Mehta. 2015. Essential Orthopaedics and Physiotherapy. 5th

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- ed. New Delhi: Jaypee Brothers Medical Publishers.
8. Paliwal, R. 2021. Textbook of Therapeutic Exercises for Physiotherapy Students. New Delhi: AITBS Publishers.

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	—	3	2	—	—	—	2	—	—	3	3
CO2	3	3	2	—	3	3	—	—	—	2	—	—	3	3
CO3	2	3	2	—	3	3	2	—	—	2	—	—	3	3
CO4	3	3	2	2	3	3	2	2	—	3	—	2	3	3

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Program	Bachelor of Physiotherapy				
Year	III	Semester	VI		
Course Name	Internship				
Code	BFT 603P				
Course Type	DSC	L	T	P	Credit
Pre-Requisite		0	0	4	2
Course Objectives	Apply theoretical knowledge in a real-world work environment to develop practical skills and professional competence. Enhance communication, teamwork, and problem-solving abilities through active participation in organizational tasks and projects. Understand workplace culture, ethics, and professional responsibilities to prepare for future career opportunities.				
Course Outcomes					
CO1	Demonstrate the ability to perform job-related tasks effectively by applying academic concepts to practical scenarios.				
CO2	Exhibit improved interpersonal and professional skills, including communication, collaboration, and adaptability in a work setting.				
CO3	Reflect on the internship experience to identify personal strengths, areas for improvement, and career goals.				

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Program	Bachelor of Physiotherapy				
Year	IV	Semester		VII	
Course Name	Electrotherapy				
Code	BPT 701P				
Course Type	DSC	L	T	P	Credit
Pre-Requisite		0	0	24	12
Course Objectives	To introduce students to the basic concepts, applications, and safety considerations of electrotherapy in physiotherapy practice. To familiarize students with low-frequency electrical modalities and their use in treating nerve and muscle dysfunctions. To introduce students to medium and high-frequency modalities used in physiotherapy for pain relief and tissue healing. To enable students to integrate electrotherapy into physiotherapy management plans and maintain proper clinical documentation.				
Course Outcomes					
CO1	Describe the fundamentals of electrotherapy and demonstrate understanding of the effects, types, and precautions associated with its clinical use.				
CO2	Identify and apply appropriate low-frequency electrical currents for specific neuromuscular conditions, ensuring safe and effective practice.				
CO3	Explain and demonstrate the use of medium and high-frequency modalities in clinical scenarios, considering indications and precautions.				
CO4	Document safe and effective electrotherapy treatment plans for selected clinical conditions, ensuring proper use of equipment and records.				

Module	Course Contents	Contact Hrs.	Mapped CO
I	Introduction to Electrotherapy: Definition, scope, and goals of electrotherapy, Physiological effects of electrical stimulation, Classification of electrotherapy modalities, Principles of dosage and safety precautions, Types of currents used in physiotherapy, Contraindications and general patient preparation	90 Hours	CO1

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2	Low-Frequency Currents and Applications: Direct current (DC) and its therapeutic uses, Faradic and galvanic stimulation, Nerve and muscle stimulation techniques, Iontophoresis and pain modulation, Application techniques and electrode placement, Clinical indications and treatment planning	90 Hours	CO2
3	Medium and High-Frequency Modalities Interferential therapy (IFT): mechanism and clinical use, Transcutaneous Electrical Nerve Stimulation (TENS), Russian currents and their application, High-Voltage Pulsed Current (HVPC), Diathermy: Shortwave, microwave, and ultrasonic therapy basics, Electromagnetic field-based therapies (introductory concepts)	90 Hours	CO3
4	Clinical Integration and Documentation: Electrotherapy in orthopedic, neurological, and soft tissue conditions, Electrotherapy in pain management and rehabilitation, Patient assessment for electrotherapy use, Treatment charting and clinical documentation, Maintenance and safety checks of equipment, Role of electrotherapy in integrated care	90 Hours	CO4

Suggested Readings

1. Jagmohan, Singh. 2022. Textbook of Electrotherapy. 3rd ed. New Delhi: Jaypee Brothers Medical Publishers.
2. Clayton, L. A., and E. W. Kellett. 2021. Clayton's Electrotherapy: Theory and Practice. 11th ed. New Delhi: Elsevier India.
3. Khatri, K. R. 2019. Basics of Electrotherapy. 2nd ed. New Delhi: CBS Publishers & Distributors.
4. Joseph, M. 2020. Principles and Practice of Electrotherapy. Chennai: Oxford University Press India.

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	3	—	3	2	—	—	—	2	—	—	3	2
CO2	3	3	3	—	3	3	3	—	—	2	—	—	3	2
CO3	3	3	3	—	3	3	3	—	—	2	—	—	3	2
CO4	3	3	3	2	3	3	3	2	—	3	—	2	3	2

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Program	Bachelor of Physiotherapy				
Year	IV	Semester		VII	
Course Name	Assessment and Documentation Skills				
Code	BPT 702P				
Course Type	DSC	L	T	P	Credit
Pre-Requisite		0	0	16	08
Course Objectives	To introduce students to the foundational principles, process, and ethical considerations in physiotherapy assessment. To equip students with skills to conduct system-specific assessments using standardized tools and techniques. To introduce students to functional and outcome-based assessment tools for planning and evaluating physiotherapy interventions. To promote best practices in To train students in professional documentation techniques used in clinical physiotherapy practice, ensuring legal and ethical compliance.				
Course Outcomes					
CO1	Describe the purpose and structure of clinical assessments in physiotherapy and demonstrate the ability to conduct effective patient interviews and observations.				
CO2	Perform appropriate system-based assessments using validated techniques and tools to gather relevant clinical data.				
CO3	Demonstrate the ability to assess and interpret a patient's functional capabilities				
CO4	Create clear, structured, and legally compliant physiotherapy documentation using accepted formats				

Module	Course Contents	Contact Hrs.	Mapped CO
1	Introduction to Clinical Assessment in Physiotherapy: Definition and scope of assessment in physiotherapy, Purpose and components of physiotherapy assessment, Subjective and objective assessment, Stages of patient interaction; history	60 Hours	CO1

	taking, observation, palpation, Patient interview techniques and clinical reasoning, Importance of consent and rapport building		
2	Systems-Based Assessment Techniques: Musculoskeletal assessment (posture, ROM, MMT, functional testing), Neurological assessment (tone, reflexes, coordination, balance, sensation), Cardiopulmonary assessment (vital signs, chest expansion, breath sounds, endurance testing), Pediatric and geriatric-specific assessments, Pain assessment and scales (VAS, NPRS, McGill), Special tests and screening tools	60 Hours	CO2
3	Functional and Outcome-Based Assessment: Functional assessment: ADLs, mobility, transfers, gait, Functional Independence Measure (FIM)	60 Hours	CO3
4	Documentation and Reporting in Physiotherapy: Principles and purpose of documentation, Types of documentation: Initial evaluation, SOAP notes, progress notes, discharge summary, Legal and ethical aspects of documentation, Electronic health records (EHRs), Common errors and best practices in documentation	60 Hours	CO4

Suggested Readings

1. Sivaraman, R. 2021. Physiotherapy Assessment and Documentation. Chennai: CBS Publishers & Distributors.
2. Natarajan, M. 2017. Manual of Practical Physiotherapy. 3rd ed. New Delhi: Jaypee Brothers Medical Publishers.
3. Kumar, V., and R. Bansal. 2020. Essentials of Physiotherapeutic Assessment. 2nd ed. New Delhi: Jaypee Brothers Medical Publishers.
4. O'Sullivan, Susan B., Thomas J. Schmitz, and George D. Fulk. 2019. Physical Rehabilitation. 7th ed. New Delhi: Jaypee Brothers (Indian reprint).
5. Kisner, Carolyn, and Lynn Allen Colby. 2017. Therapeutic Exercise: Foundations and Techniques. 6th ed. New Delhi: Jaypee Brothers Medical Publishers.
6. Bandy, William D., and Barbara M. Sanders. 2022. Therapeutic Exercise for Physical Therapist Assistants: Techniques for Intervention. 5th ed. New Delhi: Wolters Kluwer India.
7. Sharma, Ruchi. 2020. Documentation in Healthcare: A Guide for Physiotherapists and Allied Health Professionals. New Delhi: AITBS Publishers.

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	—	3	2	—	3	—	2	—	—	3	2

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CO2	3	3	2	2	3	3	-	-	-	2	-	-	3	2
CO3	3	3	2	2	3	3	-	-	-	3	-	-	3	2
CO4	2	-	3	-	2	-	-	3	-	2	-	2	2	2

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Program	Bachelor of Physiotherapy				
Year	IV	Semester	VIII		
Course Name	Clinical Physiotherapy				
Code	BPT 801P				
Course Type	DSC	L	T	P	Credit
Pre-Requisite		0	0	16	08
Course Objectives	To introduce students to the basic structure of clinical physiotherapy practice and patient care. To introduce physiotherapy interventions in commonly encountered orthopedic conditions. To familiarize students with simple physiotherapy approaches used in neurological and pediatric care. To guide students through supervised clinical exposure and build confidence through observation and case-based discussions.				
Course Outcomes					
CO1	Demonstrate basic clinical assessment and planning skills while understanding the physiotherapist's role in a healthcare team.				
CO2	Identify and apply appropriate physiotherapy techniques for basic orthopedic conditions within a clinical framework.				
CO3	Describe physiotherapy approaches used for basic neurological and pediatric conditions in clinical settings.				
CO4	Observe, document, and reflect on physiotherapy practice during supervised clinical exposure, demonstrating professional behavior.				

Module	Course Contents	Contact Hrs.	Mapped CO
1	Introduction to Clinical Practice: Role of physiotherapy in clinical settings, Patient assessment overview (history, observation, palpation, functional tests), Setting short and long-term goals, Safety, infection control, and patient handling basics, Clinical documentation and treatment planning, Introduction to multidisciplinary collaboration	60 Hours	CO1

2	Clinical Management in Orthopedic Conditions: Common orthopedic conditions (fractures, joint pain, post-surgery rehab), Pain management, ROM exercises, and strengthening techniques, Use of supports, splints, and assistive devices, Basic protocol for joint replacements, sprains, back pain, Clinical precautions and follow-up care	60 Hours	CO2
3	Clinical Management in Neurological and Pediatric Conditions: Introduction to stroke, spinal cord injury, and cerebral palsy, Positioning, ROM, facilitation techniques, Pediatric milestones and developmental delays, Functional retraining and basic balance exercises, Communication with families and caregivers	60 Hours	CO3
4	Clinical Integration and Case-Based Learning: Observation and participation in supervised physiotherapy sessions, Documentation of assessment and interventions, Case-based learning and discussion, Reflective practice and clinical reasoning, Professional behavior and ethics in clinical environments, Feedback and improvement strategies	60 Hours	CO4

Suggested Readings

1. Kumar, R. 2021. Clinical Physiotherapy: A Case-Based Approach. New Delhi: Jaypee Brothers Medical Publishers
2. Joseph, M. 2020. Essentials of Clinical Physiotherapy. Chennai: Oxford University Press India.
3. Dinesh, S. 2019. Manual of Practical Physiotherapy. 2nd ed. New Delhi: CBS Publishers & Distributors.
4. O'Sullivan, Susan B., and Thomas J. Schmitz. 2019. Physical Rehabilitation. 7th ed. New Delhi: Jaypee Brothers (Indian reprint).

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	1	3	—	—	—	1	2	—	2	2	2	2	1
CO2	2	2	3	3	1	1	—	1	—	1	2	1	3	1
CO3	2	2	3	2	3	3	1	2	—	2	3	2	3	2
CO4	2	2	3	2	2	2	1	2	—	2	2	2	3	2

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Program	Bachelor of Physiotherapy				
Year	IV	Semester		VIII	
Course Name	Professional Ethics and Conduct in Physiotherapy				
Code	BPT 802P				
Course Type	DSC/RP	L	T	P	Credit
Pre-Requisite		0	0	8	4
Course Objectives	To introduce students to the foundational principles of ethics and professionalism in physiotherapy. To familiarize students with the professional code of conduct and basic legal responsibilities in clinical practice. To help students apply ethical principles in real-life clinical and communication scenarios. To develop awareness about ethical growth, professional behavior as a healthcare provider.				
Course Outcomes					
CO1	Define ethical principles and explain the importance of professionalism in physiotherapy practice.				
CO2	Interpret professional codes and describe key legal obligations of physiotherapists in healthcare settings.				
CO3	Apply ethical reasoning to solve common challenges in clinical decision-making and patient interaction.				
CO4	Recognize the importance of ethical leadership, professional conduct personal and professional development.				

Module	Course Contents	Contact Hrs.	Mapped CO
1	Introduction to Ethics and Professionalism: Definition and principles of ethics, Need for ethics in healthcare and physiotherapy. Concepts of professionalism and accountability; Values, duties, and responsibilities of a physiotherapist, Ethical decision-making: basic steps, Respect, empathy, and compassion in patient care	30 Hours	CO1

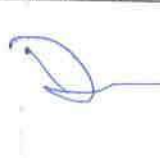
2	Code of Conduct and Legal Aspects: Overview of codes of conduct (e.g., IAP, WCPT guidelines) Rights and responsibilities of patients and physiotherapists, Informed consent and confidentiality, Negligence, malpractice, and patient safety, Legal documentation and medical records	30 Hours	CO2
3	Ethics in Clinical Decision-Making and Communication Ethics in clinical reasoning and treatment planning, Handling ethical dilemmas and conflicts of interest, Culturally sensitive and ethical communication, Dealing with uncooperative patients and families, Teamwork ethics and interprofessional respect, Confidentiality in verbal, written, and digital format	30 Hours	CO3
4	Professional Growth, Responsibility: Lifelong learning and continuing education ethics, Professional image and behavior in workplace, Leadership, integrity, and respect for peers	30 Hours	CO4

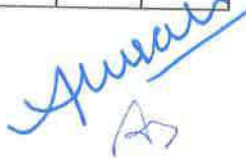
Suggested Readings

1. Kumar, R. 2021. Professional Ethics and Laws in Physiotherapy Practice. New Delhi: Jaypee Brothers Medical Publishers.
2. Pandya, S. K. 2019. Medical Ethics. 3rd ed. Mumbai: Oxford University Press India.
3. Sharma, Ruchi. 2020. Legal and Ethical Aspects of Physiotherapy. New Delhi: AITBS Publishers.
4. Beauchamp, Tom L., and James F. Childress. 2019. Principles of Biomedical Ethics. 8th ed. New York: Oxford University Press.
5. Indian Association of Physiotherapists (IAP). 2022. Code of Ethics and Professional Conduct for Physiotherapists. New Delhi: IAP Publications.

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	3	2	2	3	2	—	3	—	2	2	2	3	3
CO2	3	3	2	2	3	3	—	—	—	2	—	—	3	2
CO3	3	2	—	2	3	2	—	—	—	2	—	—	3	2
CO4	2	—	3	—	2	—	—	3	—	2	3	3	2	3







Program	Bachelor of Physiotherapy				
Year	IV	Semester		VIII	
Course Name	Community and Sports Physiotherapy				
Code	BPT 863P				
Course Type	DSC/RP	L	T	P	Credit
Pre-Requisite		0	0	8	04
Course Objectives	To introduce students to the role and responsibilities of physiotherapists in community health and rehabilitation. To make students aware of preventive physiotherapy strategies and lifestyle interventions at the community level. To familiarize students with the basic roles of physiotherapists in sports injury prevention, fitness, and performance support. To expose students to fundamental functional rehabilitation and training techniques used in community and sports settings.				
Course Outcomes					
CO1	Describe the scope of physiotherapy in community settings and outline basic approaches to public health and rehabilitation.				
CO2	Explain physiotherapy-led health promotion activities and preventive care strategies in different community environments.				
CO3	Identify common sports injuries and describe the basic physiotherapy strategies for prevention and performance management.				
CO4	Demonstrate understanding of basic functional rehab approaches and outline key components of safe fitness and sports reintegration.				

Module	Course Contents	Contact Hrs.	Mapped CO
1	Introduction to Community Physiotherapy: Concept and scope of community physiotherapy, Role of physiotherapists in public health, Common conditions in the community setting, Health education and awareness programs, Basics of community-based rehabilitation (CBR), Working with primary healthcare teams	30 Hours	CO1

2	Health Promotion and Preventive Care: Principles of health promotion and disease prevention, Lifestyle modification and exercise prescription, Screening and awareness camps, School and workplace physiotherapy initiatives, Home-based physiotherapy programs	30 Hours	CO2
3	Introduction to Sports Physiotherapy: Scope and importance of sports physiotherapy, Common sports injuries: overview and prevention, Warm up, cool-down, and fitness principles, Introduction to on-field injury management, Role of physiotherapists in sports teams and events, Basics of return-to-play decisions	30 Hours	CO3
4	Functional Rehabilitation and Fitness Training: Basic rehabilitation principles for injured athletes, Functional training and reconditioning, Taping and bracing (introductory concepts), Role of exercise in post-injury recovery, Fitness testing and monitoring basics, Safe return-to-activity guidelines	30 Hours	CO4

Suggested Readings

1. Kumar, R. 2021. Essentials of Community Physiotherapy. New Delhi: Jaypee Brothers Medical Publishers.
2. Mandal, A., and R. Vyas. 2020. Basics of Sports Physiotherapy. New Delhi: CBS Publishers & Distributors.
3. Joshi, L. D., and A. S. Pathak. 2018. Textbook of Community Health Physiotherapy. Mumbai: B. I. Publications Pvt. Ltd.
4. Sharma, V. 2019. Fundamentals of Sports Injuries and Rehabilitation. New Delhi: AITBS Publishers.

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	—	2	2	—	—	—	2	—	3	3	3
CO2	3	2	2	—	2	2	—	2	—	2	—	3	3	3
CO3	2	3	—	—	3	2	—	—	—	2	—	2	3	3
CO4	2	3	—	—	3	2	—	—	—	2	—	2	3	3

Program	Bachelor of Physiotherapy				
Year	IV	Semester	VIII		
Course Name	Rehabilitation and Functional Training				
Code	BPT 804P				
Course Type	DSC/RP	L	T	P	Credit
Pre-Requisite		0	0	8	04
Course Objectives	To introduce students to the principles, goals, and multidisciplinary nature of rehabilitation in physiotherapy. To equip students with knowledge and skills to train patients in mobility and daily living activities for independent function. To develop understanding of condition-specific rehabilitation protocols and functional recovery planning. To enable students to implement strategies that support independent living and reintegration into the community.				
Course Outcomes					
CO1	Explain the phases and principles of rehabilitation and identify the roles of healthcare professionals in functional recovery				
CO2	Demonstrate techniques in mobility training and ADL retraining using appropriate assistive devices and safety considerations				
CO3	Apply rehabilitation principles to various clinical conditions with focus on functional improvement and patient-centered care.				
CO4	Perform functional rehabilitation programs that promote independence, social participation, and quality of life in various populations.				

Module	Course Contents	Contact Hrs.	Mapped CO
1	Introduction to Rehabilitation: Definition, aims, and principles of rehabilitation, Phases of rehabilitation: acute, subacute, chronic, Multidisciplinary rehabilitation team and roles, Functional limitations and impairments, Psychological aspects in rehabilitation	30 Hours	CO1

2	Functional Training for Mobility and ADLs: Functional training concepts and progression, Gait training and locomotor training, Bed mobility, transfer training, and stair climbing, Activities of Daily Living (ADLs) and Instrumental ADLs, Use of assistive devices (crutches, walkers, canes, orthoses), Wheelchair mobility and positioning techniques	30 Hours	CO2
3	Condition-Specific Rehabilitation: Rehabilitation in orthopedic conditions (fractures, joint replacements), Neurological rehabilitation, Cardiopulmonary rehabilitation, Pediatric and geriatric rehabilitation	30 Hours	CO3
4	Functional Independence and Community Reintegration Vocational rehabilitation and community based rehab (CBR), Home exercise programs and caregiver training, Environmental modifications, Quality of life and psychosocial factors, Patient and family education	30 Hours	CO4

Suggested Readings

1. Kumar, S., and M. S. Puri. 2020. Rehabilitation in Physical Therapy. 2nd ed. New Delhi: Jaypee Brothers Medical Publishers.
2. O'Sullivan, Susan B., Thomas J. Schmitz, and George D. Fulk. 2019. Physical Rehabilitation. 7th ed. New Delhi: Jaypee Brothers (Indian reprint).
3. Pande, R., and R. Vyas. 2018. Functional Training and Therapeutic Exercise in Rehabilitation. New Delhi: CBS Publishers & Distributors.
4. Joseph, M. 2021. Essentials of Rehabilitation and Disability Management. Chennai: Oxford University Press India.
5. Gorgey, Ashraf. 2022. Rehabilitation in Movement Disorders and Neurological Conditions. New Delhi: Elsevier India.

Course Articulation Matrix														
PO-PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3	2	2	2	3	2	—	2	—	2	2	2	3	3
CO2	2	3	2	—	3	3	2	—	—	2	—	—	3	3
CO3	3	3	2	2	3	3	2	—	—	3	2	2	3	3
CO4	2	3	2	—	3	3	2	2	—	3	3	3	3	3

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