GANDHI INSTITUTE OF TECHNOLOGY AND MANAGEMENT
(GITAM)
(Deemed to be University, Estd. u/s 3 of UGC Act 1956)
VISAKHAPATNAM *HYDERABAD *BENGALURU
Accredited by NAAC with 'A+' Grade

REGULATIONS AND SYLLABUS
of
Bachelor of Physiotherapy
(w.e.f. 2021 Admitted batch)

(Approved in 22nd Academic Council)

Website: vspgspt.gitam.edu

VISION:

To be the global destination of choice for Physiotherapy education for students, faculty, and researchers.

MISSION:

To enable a culture of research, innovation, and collaborations for the advancement of skills and knowledge in the field of Physiotherapy by imparting quality education and an environment of lifelong learning.

To serve society by achieving the goal of optimal physical performance and mobility for all by producing competent, skilled and evidence-informed Physiotherapists practicing with a high sense of ethics and integrity.

ABOUT GITAM UNIVERSITY:

Gandhi Institute of Technology and Management, popularly known as GITAM, was founded in 1980 by an inspired group of eminent intellectuals and industrialists of Andhra Pradesh led by Dr. M. V. V. S. Murthi, former Member of Parliament and popular philanthropist.

The vision of MAHATMA, the Father of the Nation was to see India as a socially and economically resurgent country and he looked upon education as an important means to achieve this goal. Gandhiji envisaged universities as institutions of higher learning that transcend all linguistic, racial, and other barriers. GITAM is committed to imbibe his values and abide by his philosophy:

To achieve global standards and excellence in teaching, research, and consultancy by creating an environment in which the faculty and students share a passion for creating, sharing, and applying knowledge to continuously improve the quality of education.

GITAM SCHOOL OF PHYSIOTHERAPY (GSPT):

With the right to practice independently, in different countries and many states in India, Physiotherapy requires a high level of clinical competency, critical thinking and ability to be abreast with current and latest advances in the field. This puts a pressing need for higher quality education and commitment of capable institutes to guide and groom the aspiring physiotherapists to meet the need.

The Bachelors of Physiotherapy (B.P.T.) Program is under the faculty of GITAM School of Physiotherapy. The framework and syllabus of the B.P.T. has been adopted from the Model Curriculum Handbook of Physiotherapy by Allied and Healthcare Professionals with minor changes. The base model curriculum was developed by experts from across the country who constituted the National Curricula Redesign Taskforce. This competency based, self-directed and integrated curriculum was developed based on the skill and competency framework formulated by consulting different hospitals and healthcare settings and reviewing different curricula across the country. The learning methodologies, learning goals and objectives, and performance outcomes including the assessment methodologies have been formulated after a

thorough revision and feedback from many consultants. The final model curriculum has been reviewed and approved by the National Curricula Review Committee (NCRC), constituted by the Ministry of Health and Family Welfare, and was developed for adoption and incorporation by different institutes as a minimum standard syllabus. The additions are reviewed and approved by the Board of Studies of GITAM School of Physiotherapy and Academic Council.

1. ADMISSION

Admission to the B.P.T program of GITAM (Deemed to be University) is governed by GITAM admission regulations.

1.1 Prerequisites

1.1.1 Physical and emotional Fitness to be self-declared as part of application.

1.1.2 Motivation and communication skills to be demonstrated by essay as part of application.

1.2 Eligibility Criteria

1.2.1 Candidate should have attained 17 years as of that current year.

1.2.2 Candidate should have passed Intermediate Education/ +2 with subjects in Biology, Physics and Chemistry with a minimum aggregate of 60%.

1.2.3 Should be qualified in NEET or GAT-PT or SAT (or any other comparable national test abroad).

1.3 Admission Criteria

1.3.1 Ranking for counseling will be based on percentile in Intermediate/ 10+2, and qualifying exam.

1.3.2 Admission will be based on interview of candidates called for counseling thru notification of above ranking.

2 CHOICE BASED CREDIT SYSTEM

2.1 Choice Based Credit System (CBCS) based on UGC guidelines to promote:

- Student Centered Learning.
- Cafeteria approach.
- Interdisciplinary learning.

2.2 Learning goals/ objectives and outcomes are specified leading to what a student should be able to do by the end of the program.

3 STRUCTURE OF THE PROGRAM:

3.1 The Program Consists of

- Foundation Courses (compulsory) which give general exposure to a student in communication and subject related areas.
- Core Courses (compulsory).

- Discipline centric electives which a) are supportive to the discipline b) give expanded scope of the subject c) give interdisciplinary exposure d) Nurture the student skills.
- Open electives are of general nature either related or unrelated to the discipline.
- Practical Proficiency Courses Laboratory and Project work.

3.2 Each course is assigned a certain number of credits depending upon the number of contact hours (Lectures/Practical/Clinical Education) per week for a minimum of 15 weeks per semester.

3.3 In general, credits are assigned to the courses based on the following contact hours per week per semester.

- One credit for each Lecture / Tutorial hour per week.
- One credit for two hours of Practical per week.
- One credit for three hours of Clinical or Project-based Learning per week

3.4 The curriculum, with 8 semesters of the Bachelor of Physiotherapy program is designed to have a total of 191 credits (translated to 4320 contact hours) of theory, practical and clinical and an additional 24 credits (translated to 1080 hours) towards internship to be completed in a duration of 6 months.

4. MEDIUM OF INSTRUCTION:
The medium of instruction (including examinations and project reports) shall be English.

5. REGISTRATION:
Every student must register himself/herself for courses each semester individually at the time specified by the Institute / University in the academic calendar.

6. ATTENDANCE REQUIREMENTS:

6.1 A student whose attendance is less than 75% in all the courses put together in any semester will not be permitted to attend that end - semester examination and he/she will not be allowed to register for subsequent semester of study. He/she must repeat the semester along with his / her juniors.

- 75% attendance in theoretical.
- 85% in Skills training (practical) for qualifying to appear for the final examination.
- Attendance requirements must be followed strictly by all students.

6.2 However, the Vice-Chancellor on the recommendation of the Principal / Director of the Institute/School may condone the shortage of attendance to the students whose attendance is between 65% and 74% on genuine grounds.

7. EVALUATION

7.1 The assessment of the student's performance in a course shall be based on two components: Continuous Evaluation (50 % weightage) and Semester-end

examination (50 % weightage).

7.2 The student is required to secure a minimum of 40% marks in continuous evaluation.

7.3 A student has to secure an aggregate of 45% in the two components of the course put together to be declared to have passed the course, subject to the condition that the student must have secured a minimum of 45% in the Semester-end Examination component of the respective course. The student must secure 45% in foundation courses with only continuous evaluation components and no semester-end examinations.

7.4 University core courses are assessed through continuous evaluation for satisfactory or not satisfactory only and credits will be assigned. However, specific grades (quantitative), if assigned by the faculty will be considered for CGPA calculation.

Table 1: Assessment Procedure

S.No.	Component if Assessment	Marks Allotted	Type of Assessment	Evaluation Components
1	Theory*	50 % 50 %	Continuous Evaluation And Semester End Evaluations	Continuous evaluation: (As applicable for individual course) ● Participation ● Quiz ● Assignments/Project/ Seminar ● Sessional Examinations (Refer to scheme of marks for weightage in Appendix A) End Semester Evaluation ● Theory Examination (Paper evaluation will be performed by one Internal examiner and one external Examiner)

2	Practical*	50 % 50%	Continuous Evaluation And Semester End Evaluations	Continuous evaluation: ● Participation ● Lab work/ Log book ● Sessional Examination (Skill demonstration/ Presentation and Viva voce) (Refer to scheme of marks for weightage in Appendix A) End Semester Evaluation ● Skill demonstration/ Presentation ● Viva voce (Evaluation in practical examinations will be performed by one Internal examiner and one external Examiner)

3	Project	100%	Continuous Evaluation	Continuous evaluation: (As applicable for individual course) ● Participation ● Report submission ● Viva-voce ● Presentation (Refer to the scheme of marks for weightage in Appendix A)
4	Clinical*	50% or 100%	Continuous Evaluation And Semester End Evaluations	Continuous evaluation: ● Participation ● Logbook ● Case Presentation/ Clinical Performance Evaluation ● Sessional Examination (Case Presentation, Viva-voce, and Spotters) (Refer to the scheme of marks for weightage in Appendix A) End Semester Evaluation: ● Case Presentation ● Viva-voce ● Spotters (Evaluation of clinical course will be performed by one Internal and one external Examiner)
5	University Core	100%	Continuous Evaluation	As per University Norms
6	Internship/ Comprehens-ive	NA	Continuous Formative Evaluation	Participation, Clinical Performance Evaluations & Comprehensive Viva-voce and should attain satisfactory grade.

* Percentage of weightage for continuous evaluation will be 100 % for foundation courses (Theory, Practical and Clinical).

For Semester-end examination evaluations, a 3rd evaluator will be considered if there is a difference of 20% marks between the two evaluators.

8. PROMOTION CRITERIA:

8.1 The student will be promoted from the fourth semester to the fifth semester if he or she attains all credits of the first year (first and second semester) and a cumulative minimum of 70% of the credits at the end of the second year.

8.2 The student will be promoted from the sixth semester to the seventh semester if he or she attains all credits of the second year (third and fourth semester).

8.3 The Student will be eligible for internship only after successful completion (100 percent credits) of the entire course work through eight semesters.

8.4 Supplementary Examinations: The student who fails to meet the criteria for passing a course will be allowed to appear for the supplementary examinations of that course.

9. ACADEMIC PROBATION AND READMISSION AFTER A BREAK:

The student will be put on academic probation for the next academic year if a student fails to earn the required credits as per the promotion criteria to the next higher semesters. The student can rejoin the program upon meeting the required criteria at the end of the academic probation period. If a student is on academic probation for more than TWO continuous years, shall apply for readmission to the Registrar of this University. The candidates shall be granted exemption in the subjects they have already passed. All readmissions of candidates are subjected to the approval of the Vice-Chancellor.

10. THE MAXIMUM DURATION OF THE PROGRAM -

Candidates should complete the Bachelor of Physiotherapy degree course within a period of eight years from the date of joining the course.

11. GRADING SYSTEM

11.1 Based on the student performance during a given semester, a final letter grade will be awarded at the end of the semester in each course. The letter grades and the corresponding grade points are as given below:

Table 2: Grades and Grade Points

Sl. No	Grade	Grade Points	Absolute Marks
1	O (outstanding)	10	90 and above
2	A+ (Excellent)	9	80 to 89
3	A (Very Good)	8	70 to 79
4	B+ (Good)	7	60 to 69
5	B (Above Average)	6	55 to 59
6	C (Average)	5.5	50 to 54
7	P (Pass)	5	45 to 49
8	F (Fail)	0	Less than 45
9	Ab (Absent)	0	-
10	S	NA	Satisfactory for Non-graded courses
11	U	NA	Unsatisfactory for Non-graded courses
12	I	NA	Incomplete (Only for Project)
13	R	0	Insufficient attendance in the course

A student who earns a minimum of 5 grade points (P grade) in a course is declared to have successfully completed the course, and is deemed to have earned the credits assigned to that course, subject to securing a GPA of 5.5 for a Pass in the semester.

12. GRADE POINT AVERAGE

12.1 A Grade Point Average (GPA) for the semester will be calculated according to the formula:

$$GPA = \frac{\Sigma [C \times G]}{\Sigma C}$$

where, C = number of credits for the course,
G = grade points obtained by the student in the course.

12.2 The Cumulative Grade Point Average (CGPA), is calculated using the above formula considering the grades obtained in all the courses, in all the semesters up to that particular semester.

12.3 CGPA required for classification of class after the successful completion of the program is shown below:

Table 3: CGPA required for award of Class

Class	CGPA Required
First Class with Distinction	≥ 8.0*
First Class	≥ 7.0
Second Class	≥ 6.0
Pass Class	≥ 5.5

* In addition to the required CGPA of 8.0 or more the student must have necessarily passed all the courses of every semester in the first attempt.

13. ELIGIBILITY FOR AWARD OF THE B.P.T DEGREE

13.1 A student shall be eligible for award of the B. P.T Degree if he / she fulfills all the following conditions.

a. Registered and successfully completed all the courses, projects and mandatory six months of internship.
b. Successfully acquired the required credits as specified in the curriculum corresponding to his/her study within the stipulated time.
c. Has no dues to the Institute, hostels, Libraries, NCC / NSS etc, and
d. No disciplinary action is pending against him / her.

The degree shall be awarded after approval by the Academic Council.

14. DISCRETIONARY POWER

Notwithstanding anything contained in the above sections, the Vice-Chancellor may review all exceptional cases, and give his decision, which will be final and binding.

BACHELOR OF PHYSIOTHERAPY (B.P.T)

PROGRAM EDUCATIONAL OBJECTIVES

On completion of the Bachelor of Physiotherapy Program at GITAM School of Physiotherapy, graduates will:

PEO 01: Demonstrate the required skills, knowledge, and attitude to practice evidence-informed physiotherapy services in any setting as an entry-level Physiotherapy professional providing high standards of patient care.

PEO 02: Contribute to the advancement of the profession through research, innovation, and leadership skills through lifelong learning and engagement in professional societies and organizations.

PEO 03: Demonstrate the ability to practice in any setting with a high sense of ethics, integrity, critical thinking, and problem-solving skills.

PEO 04: Demonstrate an understanding of global citizenship education (GCED) and contribute to society's local and global needs through research and practice.

PROGRAM SPECIFIC OUTCOMES

PSO 01: In addition to processing the standard skill set and knowledge required to practice as an entry level Physiotherapist, Students are further strengthened in developing creative and critical thinking abilities for problem solving and industry readiness, and developing research acumen.

PSO 02: Students are fine-tuned to demonstrate effective communication skills across all platforms, use of advanced technology and work in health care teams utilising lifelong learning abilities to implement evidence-informed practice and advocate for the Profession.

Bachelor of Physiotherapy (B.P.T)

PROGRAM OUTCOMES (PO)

On completion of the Bachelor of Physiotherapy program, the graduate at entry-level will be able to:

PO 01 **Physiotherapeutic Knowledge and Skills**: Demonstrate scientific knowledge and skills needed to work as a physiotherapy professional to deliver high standards of care, including assessment, diagnosis, and creating and executing an effective care plan.

PO 02 **Teamwork and Effective Communication:** Effectively communicate utilizing available contemporary technological resources with all stakeholders, and demonstrate teamwork skills to achieve the collective goals in an interdisciplinary healthcare team.

PO 03 **Ethical Practice and Professionalism:** Integrate ethical values and professionalism in delivering high standards of Physiotherapy treatment within the scope of practice defined by the regulating bodies and framework of the society.

PO 04 **Clinical Reasoning and Problem Solving**: Demonstrate the capacity to extrapolate the acquired knowledge, critical analysis, evidence, and reflective thought to provide solutions for common and non-familiar clinical situations.

PO 05 **Multicultural Competencies**: Display sensitivity to socio-cultural values, attitudes, and beliefs relevant to society and diverse groups to set appropriate goals and deliver physiotherapy services through appropriate technology.

PO 06 **Research, Evidence-Informed Practice, and Lifelong Learning:** Demonstrate the sense of critical thinking and analytical reasoning to deliver evidence-based physiotherapy and strive for continuous development of the profession and the consequent responsibilities relevant to the professional practice.

PO 07 **Entrepreneurship and Leadership:** Display entrepreneurship and leadership skills to practice independently and in collaboration with the interdisciplinary health care team or industry.

Program Outcomes (PO) and Program Educational Objectives (PEO) Mapping:

	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7
PEO 1	✔	✔		✔	✔	✔	
PEO 2	✔	✔		✔		✔	✔

PEO 3	✔	✔	✔		✔		✔
PEO 4	✔		✔		✔	✔	✔

CURRICULUM OUTLINE

Semester I

C Code	Sl.No	Course Title	Credits			Contact Hours			Hours	
			Theory	Practical	Clinical P	Theory	Practical	Clinical P	Total	Weekly
	1	Human Anatomy - I	4	2	0	60	60	0	120	8
	2	Human Physiology - I	4	0	0	60	0	0	60	4
	3	Biochemistry	2	1	0	30	30	0	60	4
	4	Sociology	2	0	0	30	0	0	30	2
		Foundation courses with internal Examination								
	5	Introduction to Physiotherapy and Health care delivery system in India	1	1	0	15	30	0	45	3
	6	Introduction to Research and Evidence, learning and teaching methods	1	0	0	15	0	0	15	1
	7	IT Productivity Tools**(University Core)**	0	2	0	0	60	0	60	4
	8	English/ Foreign Language **(University Core)**	0	2	0	0	60	0	60	4
	9	Community orientation and clinical visit	0	0	1	0	0	45	45	3
		Total	14	8	1	210	240	45	495	33
		Semester Total	**23**			**495**				**33**

Semester II

C Code		Course Title	Credits			Contact Hours			Hours	
			Theory	Practical	Clinical P	Theory	Practical	Clinical P	Total	Weekly
	1	Human Anatomy - II	3	2	0	45	60	0	105	7
	2	Human Physiology - II	4	1	0	60	30	0	90	6
	3	General Psychology and Clinical Psychology	3	0	0	45	0	0	45	3
	4	Biophysics	1	1	0	15	30	0	45	3
		Foundation courses with internal Examination								
	5	Foundations of Exercise Therapy	2	2	0	30	60	0	90	6
	6	Venture Discovery **(University Core)**	2	0	0	30	0	0	30	2
	7	Environmental sciences and sustainability **(University Core)**	2	0	0	30	0	0	30	2
	8	Clinical Observation	0	0	1	0	0	45	45	3
		Total	17	6	1	255	180	45	480	32
		Semester Total	**24**			**480**				**32**

Semester III

C Code		Course Title	Credits			Contact Hours			Hours	
			Theory	Practical	Clinical P	Theory	Practical	Clinical P	Total	Weekly
		1. Pathology and Microbiology	4	1	0	60	30	0	90	6
		2. Pharmacology	3	0	0	45	0	0	45	3
		3. Biomechanics and Kinesiology	4	0	0	60	0	0	60	4
		4. Practical in Biomechanics and Kinesiology	0	1	0	0	30	0	30	2
		5. Theoretical concepts in Exercise Therapy -I	3	0	0	45	0	0	45	3
		6. Practical in Exercise Therapy -I	0	3	0	0	90	0	90	6
		Foundation courses with internal Examination								
		7. Health Informatics and Clinical Observation	1	0	2	15	0	90	105	7
		8. Open elective	2	0	0	30	0	0	30	2
		9. Gandhian values/ Ethics **(University Core)**	2	0	0	30	0	0	30	2
		Total	19	5	2	285	150	90	525	35
		Semester Total	**26**			**525**				**35**

Semester IV

C Code		Course Title	Credits			Contact Hours			Hours	
			Theory	Practical	Clinical P	Theory	Practical	Clinical P	Total	Weekly
	1	Basics in Patient Handling Techniques and Theoretical concepts in Exercise Therapy -II	3	0	0	45	0	0	45	3
	2	Practical in Patient Handling Techniques and Exercise Therapy - II	0	2	0	0	60	0	60	4
	3	Theoretical concepts in Electrotherapy	3	0	0	45	0	0	45	3
	4	Practical in Electrotherapy	0	4	0	0	120	0	120	8
	5	Theoretical Concepts in Physical and Functional Diagnosis and outcome measures	3	0	0	45	0	0	45	3
	6	Practical in Physical and Functional Diagnosis	0	3	0	0	90	0	90	6
		Foundation courses with internal Examination								
	7	Ethics and Professionalism	1	0	0	15	0	0	15	1
	8	Introduction to Evidence Based Practice	2	0	0	30	0	0	30	2
	9	Project	0	1	0	0	30	0	30	2
	10	Clinical observation and Practice	0	0	2	0	0	90	90	6
		Total	12	10	2	180	300	90	570	38
		Semester Total	**24**			**570**				**38**

Semester V

C Code		Course Tiltle	Credits			Contact Hours			Hours	
			Theory	Practical	Clinical P	Theory	Practical	Clinical P	Total	Weekly
	1	Clinical Orthopaedics and Traumatology	4	0	0	60	0	0	60	4
	2	Clinical Neurology and Neurosurgery	4	0	0	60	0	0	60	4
	3	General Medicine and Psychiatry	4	0	0	60	0	0	60	4
	4	General Surgery, Burns and Plastic Surgery	4	0	0	60	0	0	60	4
		Foundation courses with internal Examination								
	5	Clinical Investigations and Radio Diagnosis	2	0	0	30	0	0	30	2
	6	Evaluative Clinical Practice and Clinical Reasoning	0	0	6	0	0	270	270	18
	7	**Open elective 1 (Open Elective)**	1	0	0	15	0	0	15	1
		Total	19	0	6	285	0	270	555	37
		Semester Total	**25**			**555**				**37**

Semester VI

	C Code		Course Title	Credits			Contact Hours			Hours	
				Theory	Practical	Clinical P	Theory	Practical	Clinical P	Total	Weekly
		1	Physiotherapy in Musculoskeletal Sciences -I	3	0	0	45	0	0	45	3
		2	Physiotherapy in Neurological Sciences and Pediatrics -I	3	0	0	45	0	0	45	3
		3	Cardiopulmonary Physiotherapy in Medical and Surgical conditions -I	3	0	0	45	0	0	45	3
		4	Physiotherapy Clinical Practice in Musculoskeletal Sciences -I	0	0	2	0	0	90	90	6
		5	Physiotherapy Clinical Practice in Neurosciences and Pediatrics -I	0	0	2	0	0	90	90	6
		6	Clinical Practice in Cardio vascular and Pulmonary Physiotherapy -I	0	0	2	0	0	90	90	6
			Foundation courses with internal Examination								
		7	Patient Safety and Qualty in Health care	1	1	0	15	30	0	45	3
		8	Introduction to Research Methods, Biostatistics and Research protocol	4	0	0	60	0	0	60	4
		9	Program elective -I: Pain Sciences/ Balance Rehabilitation	1	1	0	15	30	0	45	3
			Total	15	2	6	225	60	270	555	37
			Semester Total	**23**			**555**				**37**

Semester VII

	C Code		Course Title	Credits			Contact Hours			Hours	
				Theory	Practical	Clinical P	Theory	Practical	Clinical P	Total	Weekly
		1	Physiotherapy in Musculoskeletal Sciences -II	3	0	0	45	0	0	45	3
		2	Physiotherapy in Neurological Sciences and Pediatrics -II	3	0	0	45	0	0	45	3
		3	Cardiopulmonary Physiotherapy in Medical and Surgical conditions -II	3	0	0	45	0	0	45	3
		4	Physiotherapy Clinical Practice in Musculoskeletal Sciences -II	0	0	2	0	0	90	90	6
		5	Physiotherapy Clinical Practice in Neurosciences and Paediatrics -II	0	0	2	0	0	90	90	6
		6	Clinical Practice in Cardiovascular and Pulmonary Physiotherapy -II	0	0	2	0	0	90	90	6
			Foundation courses with internal Examination								
		7	Fundamentals of Yoga - Theory & Practice	1	1	0	15	30	0	45	3
		8	Differential diagnosis and clinical reasoning	2	0	0	30	0	0	30	2
		9	Research data collection	0	2	1	0	60	45	105	7
			Total	12	3	7	180	90	315	585	39
			Semester Total	**22**			**585**				**39**

Semester VIII

C Code		Course Title	Credits			Contact Hours			Hours	
			Theory	Practical	Clinical P	Theory	Practical	Clinical P	Total	Weekly
	1.	Community Medicine	3	0	0	45	0	0	45	3
	2.	Physiotherapy in Community	3	0	0	45	0	0	45	3
	3.	Physiotherapy Practice in Community	0	0	2	0	0	90	90	6
	4.	Physiotherapy in Women's Health	1	0	0	15	0	0	15	1
	5.	Clinical Practice in Women's Health	0	0	1	0	0	45	45	3
	6.	Exercise Physiology	2	0	0	30	0	0	30	2
	7.	Physiotherapy in Sport, Health promotion and Fitness	2	0	0	30	0	0	30	2
	8.	Physiotherapy Practice in Sport, Health Promotion and Fitness	0	0	2	0	0	90	90	6
		Foundation courses with internal Examination								
	9.	Administration, Management and Leadership skills	3	0	0	45	0	0	45	3
	10.	program Electives: Technology in rehabilitation/ Geriatric Physiotherapy	1	1	0	15	30	0	45	3
	11.	Research Report	1	2	0	15	60	0	75	5
		Total	16	3	5	240	90	225	555	37
		Semester Total	**24**			**555**				**37**

CLINICAL INTERNSHIP

C Code		Course Title	Credits			Contact Hours			Hours	
			Theory	Practical	Clinical P	Theory	Practical	Clinical P	Total	Weekly
	1	**Clinical Internship**	0	0	24	0	0	1080	1080	42
		Semester Total	**24**			**1080**				**42**

7 Hrs/Day x 6 Days/Week x 26 weeks (6 mnths) = 1092 Hrs (Subt 1080)

First Semester-B.P.T.

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Human Anatomy - I
Course Code	PHTY 1001
Semester / Academic year	Semester 1 / Year 1
Number of Credits	6 (4 theory + 2 Practical)
Course Prerequisite	Basic Knowledge (Pre-University level) of Biology, Physics and Chemistry
Course Synopsis	The course in Anatomy over the first year is designed to give the student an in- depth knowledge of the structure of Human body. This module provides a comprehensive knowledge about various tissues and organs present in the human body to understand the anatomical basis of health and disease. The major topics for this course include General Histology, Musculoskeletal Anatomy, detailed anatomy of the Upper Extremity, Thorax including lungs and heart, Anatomy of the Head and Neck including the Central Nervous system.
Course Objective	1. To introduce the terminologies for structure of the human body, and familiarize the various anatomical structures, their relations in the body. 2. To impart knowledge about musculoskeletal structures including anatomy of Upperlimb, Thorax, Head and Neck.
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Know the basic terminologies and structures of Human Anatomy (C1)
CO2	Describe the normal structure of various tissues in Human body (C2)
CO3	Describe the basis of human movement (C2)
CO4	Outline the anatomy of bones, Joints and connective tissues in the human body (C2)
CO5	Describe the normal structure of Upper extremity, Thorax, Head and Neck. (C2)

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**			**X**			
CO2	**X**			**X**			
CO3	**X**			**X**			
CO4	**X**			**X**			
CO5	**X**			**X**			

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Human Physiology I
Course Code	PHTY1011
Semester / Academic year	Semester I; Year I
Number of Credits	4
Course Prerequisite	Basic Knowledge (Pre-University level) of Biology, Physics, and Chemistry
Course Synopsis	The course in Physiology over the first year is designed to give the student an in-depth knowledge of fundamental reactions of living organisms, particularly in the human body. This module provides comprehensive knowledge about normal functions of the organ systems of the body to understand the physiological basis of health and disease The major topics for this course include the cell; primary tissue; connective tissue; blood, muscle, and nerve; cardio-vascular and respiratory system, nervous system, and special senses.
Course Objective	To provide comprehensive knowledge to physiotherapists about normal functions of the organ systems of the human body and to understand the physiological basis of health and disease.
Course Outcomes (COs): **At the end of the course students shall be able to:**	
CO1	Know the basic facts and concepts of Physiology (C1)
CO2	Explain the normal functions of the Blood, Neuromuscular, Cardiovascular, and Respiratory systems of the body. (C2)
CO3	Describe the relative contribution of the Blood, Neuromuscular, Cardiovascular, and Respiratory systems in maintaining homeostasis.(C2)
CO4	Describe abnormal physiology in disease processes. (C2)

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**						
CO2	**X**			**X**			
CO3	**X**			**X**			
CO4	**X**			**X**			

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Biochemistry
Course Code	PHTY 1021
Semester / Academic year	Semester 1 / Year 1
Number of Credits	3 (2 theory + 1 practical)
Course Prerequisite	The student should have basic knowledge regarding bodily functions and be aware of basic terminologies used in biology and chemistry.
Course Synopsis	● The course will enable the student to understand the composition, pathways of digestion, metabolism and absorption of various constituents in the body at cellular level. ● The course will also educate the student on normal levels of important bodily components, their sources, functions and disorders related to them. ● The student will also be able to understand and interpret related tests and their results which will enhance their treatment planning.
Course Objective	1.To impart detailed knowledge about biochemical compositions in the human body alongwith their production, functions, digestion, metabolism and fate. 2. To familiarize the learner with normal levels of various metabolic substances, interpretations of various test results and disorders related to them that will help them further scrutinize and plan treatment protocols much efficiently.
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Describe nutrition with emphasis on importance of nutritional calorific values, balanced diet and calculate energy requirement of a person.(C3)
CO2	Understand the chemical composition of carbohydrates, lipids, proteins, enzymes, nucleotides and nucleic acids along with their classification and functions.(C2)
CO3	Know the concepts of digestion, absorption and understand the various pathways concerned with metabolism of carbohydrates, lipids, proteins, vitamins and minerals along with their applications in clinical scenarios.(C3)
CO4	List various components of the cell with their functions, contractile elements in muscles and process of muscle contraction. Also, able to explain biochemistry of connective tissue and hormone action.(C2)
CO5	Understand concepts of acid-base balance, water and electrolyte balance, their normal levels, tests to check these functions and interpretation. (C3, P2)

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**						
CO2	**X**						
CO3	**X**						
CO4	**X**						
CO5	**X**						

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Sociology
Course Code	PHTY1031
Semester / Academic year	Semester 1 / Year 1
Number of Credits	2
Course Prerequisite	Basic knowledge regarding human interactions and orientation regarding the social values
Course Synopsis	This course will help the student to introduce basic sociology concepts, principles and social process, social institutions in relation to the individual, family and community and the various social factors affecting the family in rural and urban communities in India will be studied
Course Objective	1) To impart knowledge on basic principles and concept of sociology 2) To make learners understand the basic relation between individual, family and communities
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Understand the basic sociology concept including principles, social processes and various social factors affecting the health and diseases domains (C2)
CO2	Explain socialization, social groups and concept of social groups in relation with disability of the people (C2)
CO3	Describe social change, social security and role of medical social worker (C2)
CO4	Outline the concept of family, community, culture and health (C3)

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

Cos	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**						
CO2	**X**	**X**					
CO3	**X**						
CO4	**X**				**X**		

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Introduction To Physiotherapy And Healthcare Delivery System In India
Course Code	PHTY1041
Semester / Academic year	Semester 1 / Year 1
Number of Credits	2
Course Prerequisite	Basic Knowledge (Pre-University level) of Biology, Physics and Chemistry
Course Synopsis	The course provides students the knowledge of basic physiotherapy evaluation methods and a basic insight into the main features of the Indian health care delivery system and how Physiotherapy as a profession compares with the other health care systems of India.
Course Objective	To impart knowledge about the physiotherapy profession, create understanding about the basic evaluative methods used in physiotherapy and familiaroze about the various healthcare delivery systems in india apart from physiotherapy.
Course Outcomes (COs): At the end of the course student shall be able to:	
CO1	Know the basic methods of physiotherapy evaluation
CO2	Know the methods of health care delivery at national and international level
CO3	Describe the AYUSH system of medicine
CO4	Know the importance of demography and epidemiology in health care delivery

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**						
CO2	**X**						
CO3	**X**	**X**					
CO4	**X**	**X**					

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Introduction to Research and Evidence; Learning and Teaching Methods
Course Code	PHTY1051
Semester / Academic year	Semester I / Year I
Number of Credits	1
Course Prerequisite	Basic Knowledge (Pre-University level) of Biology, Physics, Chemistry and English
Course Synopsis	This course introduces terminologies related to research and evidence. In addition, the course offers hands-on learning experience to imbibe different learning and teaching methods that will be adapted in the curriculum.
Course Objective	1. To introduce the terminologies and common methods used in research. 2. To provide exposure to different learning and teaching methods that will be adopted through the process of Physiotherapy curriculum delivery.
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Outline research and evidence (C2, P2)
CO2	Summarize the research methods and the scope of study designs (C2)
CO3	Interpret domains and levels of learning (C3)
CO4	Understand learning and teaching methods (C2, P4)

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**					**X**	
CO2	**X**					**X**	
CO3	**X**	**X**					
CO4	**X**	**X**					

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Community Orientation and Clinical Visit
Course Code	PHTY1071
Semester / Academic year	Semester 1/ year 1
Number of Credits	1
Course Prerequisite	Basic Knowledge (Pre-University level) of Biology, Physics and Chemistry
Course Synopsis	This course will help students understand the web of the healthcare system and open the gateway to their first community and clinical visit as they aspire to be a healthcare professional
Course Objective	To familiarize the students with the physiotherapy healthcare delivery scenario, and to make them understand the importance of clinical observation in evaluation of a patient.
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Identifies Physiotherapist's role in various clinical and community settings (C2,P2)
CO2	Explain the importance and necessity of interacting with the village panchayat and frontline health care workers. (C2, P2)

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**	**X**	**X**				
CO2	**X**	**X**	**X**		**X**		

Second Semester-B.P.T

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Human Anatomy - II
Course Code	PHTY-1081
Semester / Academic year	2nd Semester / 1st Year
Number of Credits	5 (3 theory + 2 Practical)
Course Prerequisite	Basic Knowledge (Pre-University level) of Biology, Physics and Chemistry
Course Synopsis	The course in Anatomy over the first year is designed to give the student an in- depth knowledge of the structure of Human body. This module provides comprehensive knowledge about various tissues and organs present in the human body to understand the anatomical basis of health and disease. The major topics for this course include Embryology, Endocrine Glands, Abdomen, Pelvis, Trunk and detailed anatomy of the Lower Extremity.
Course Objective	In continuation to the learning and understanding of the contents of first semester, in this semester the learner will be provided a comprehensive knowledge of Embryology, Endocrine Glands, Abdomen, Pelvis, Trunk and detailed anatomy of the Lower Extremity.
Course Outcomes (COs): **At the end of the course students shall be able to:**	
CO1	Describe the structure of lower extremity, trunk, pelvis, abdomen, endocrine glands. Mention the formation and development of the embryo and fetus. (C2)
CO2	Explain the anatomical relationship of various structures present in lower extremity, trunk, pelvis and abdomen. (C2)
CO3	Outline the applied anatomy of lower extremity, trunk, pelvis and abdomen (C2)

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**			**X**			
CO2	**X**			**X**			
CO3	**X**			**X**			

GITAM School of Physiotherapy							
Name of the Program	Bachelor of Physiotherapy						
Course Title	Human Physiology II						
Course Code							
Semester / Academic year	Semester II; Year I						
Number of Credits	Theory 4 Credits; Practical 1 Credit						
Course Prerequisite	Basic Knowledge (Pre-University level) of Biology, Physics and Chemistry						
Course Synopsis	The course in Physiology over the first year is designed to give the student an in-depth knowledge of fundamental reactions of living organisms, particularly in the human body. This module provides a comprehensive knowledge about normal functions of the organ systems of the body to understand the physiological basis of health and disease The major topics for this course include the digestive system, endocrine system, renal System, reproductive system, and physiology of exercise. Applied physiology on pulmonary functions, cardiovascular functions, muscles and nervous system functions, blood functions and metabolic functions are included. In addition to the theoretical classes, the course will include practical topics related to hematology, clinical examinations, and amphibian experiments with recommended demonstrations						
Course Objective	To provide comprehensive knowledge to physiotherapists about normal functions of the organ systems of the human body and to understand the physiological basis of health and disease						
Course Outcomes (COs): **At the end of the course students shall be able to:**							
CO1	Outline the normal functions of the digestive system, endocrine system, renal system, reproductive system of the body to facilitate an understanding of the physiological basis of health (C2).						
CO2	Interpret the integrated function of various organ systems and their adaptations in response to exercise (C2)						
CO3	Explain the physiological basis of disease processes (C2).						
CO4	Display selected procedures that enhance understanding of human physiology (C1, P3)						
Mapping of Course Outcomes (COs) to Program Outcomes (POs):							
COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**
CO1	**X**			**X**			
CO2	**X**			**X**			
CO3	**X**			**X**			
CO4	**X**			**X**			

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	General Psychology & Clinical Psychology
Course Code	
Semester / Academic year	2nd Semester / 1st Year
Number of Credits	3 (T)
Course Prerequisite	Basic Knowledge (Pre-University level) of English
Course Synopsis	This course enables students to understand the various psychological domains of human behavior and how to interpret them. This will in turn assist them to perceive the behavior of the patient and plan treatment methods accordingly.
Course Objective	To give a comprehensive understanding of human behaviour and various emotions they might come across while encountering a patient.
Course Outcomes (COs): **At the end of the course students shall be able to:**	
CO1	Explain the various theories of psychology, methods of studying human behavior. (C2, A3)
CO2	Describe the concepts of Growth & Development, Sensation, Attention & Perception, motivation, frustration & conflict, emotions, intelligence, thinking, learning and personality and social psychology in shaping human behavior (C2, A3)
CO3	Explain the concept of social psychology with emphasis on leadership qualities. (C2, A3)
CO4	Outline the models of training in clinical psychology, psychotherapy, and their implications to physiotherapy practice. (C2, A3)

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**			**X**			
CO2	**X**	**X**		**X**			
CO3	**X**	**X**			**X**		**X**
CO4	**X**	**X**	**X**	**X**			

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Biophysics
Course Code	
Semester / Academic year	II semester/ Ist year
Number of Credits	2 credits (1P,1T)
Course Prerequisite	Basic Knowledge (Pre-University level) of Biology, Physics and Chemistry
Course Synopsis	In this course the students would be introduced to the basic concepts in biophysics. This would lay the principal foundation to understand electrotherapy and biomechanical principles of exercise. The major topics which would be covered in this course are biomechanical physics, electric supply, bioelectronics, radiation physics, heat cold and sound.
Course Objective	1.To introduce the basic concepts of biophysics in physiotherapy. 2.To lay the principal foundation to understand electrotherapy and biomechanical principles of exercise.
Course Outcomes (COs): **At the end of the course students shall be able to:**	
CO1	Recall the principles of physics and apply it to the human movement (C3, P3)
CO2	Extend the knowledge of physics for the use of electrophysical therapeutic modalities (C2)
CO3	Begins to test the working condition of the electrotherapy modalities (P2)

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**			**X**			
CO2	**X**			**X**			
CO3	**X**			**X**			

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Foundations of Exercise therapy
Course Code	
Semester / Academic year	Semester II; Year I
Number of Credits	Credits 4 (2T + 2P)
Course Prerequisite	Basic Knowledge of Human Anatomy, Human Physiology, Starting & Derived positions, Passive and Active movements.
Course Synopsis	In this course, the students will learn the principles and effects of exercise as a therapeutic modality and will learn the techniques in the restoration of physical functions. The major topics for this course include relaxation techniques, breathing exercises, massage and soft tissue manipulation, postural drainage, Goniometry, principles of home program and group exercises.
Course Objective	1)To familiarize learners about the basic terminlogies and concepts in exercise therapy 2) To impart knowledge on various techniques of exercise therapy
Course Outcomes (COs): **At the end of the course students shall be able to:**	
CO1	Outlines the indications and explain the principles of relaxation techniques, breathing exercises, soft tissue manipulations, postural drainage, home exercise and group exercise program (C2)
CO2	Performs and records the goniometry measurements of a joint in the human body (C2, P4)
CO3	Displays the techniques of relaxation, breathing exercises, soft tissue manipulations, postural drainage, home exercise and group exercise program (C2, P4)

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**			**X**			
CO2	**X**	**X**	**X**				
CO3	**X**	**X**	**X**	**X**	**X**		

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Clinical observation
Course Code	
Semester / Academic year	Semester II; Year 1
Number of Credits	1 (Clinical Practice)
Course Prerequisite	Basic knowledge of clinical layout of a hospital, client registration process flow and working model of physiotherapy out patient department.
Course Synopsis	Through this course, the students will observe the client interaction with clinicians, delivery of health care and physiotherapeutic skills in different clinical units of a hospital and in the community. Students will also learn the process of clinical documentation.
Course Objective	To provide comprehensive knowledge about basic obsevational skills ,documentation skills and implementation of learned skills.
Course Outcomes (COs): **At the end of the course students shall be able to:**	
CO1	Describes observation of client interaction with the clinician (P1, A1)
CO2	Organizes the documentation of an observed clinical scenario and patient records in the Log book (P4).
CO3	Explains the use of learned skills in clinical practice (P2)

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**						
CO2	**X**						
CO3	**X**			**X**			

Third Semester-B.P.T

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Pathology and Microbiology
Course Code	
Semester / Academic year	3rd Sem / 2nd Year
Number of Credits	4 (T) + 1(P) = 5 credits
Course Prerequisite	Knowledge of Human Anatomy and Human Physiology
Course Synopsis	Pathology and Microbiology form an important link between preclinical and clinical courses. Pathology involves the study of causes and mechanisms of a disease and microbiology involves the study of common organisms causing diseases including nosocomial infections and precautionary measures to protect one from acquiring infections. This course offers knowledge and understanding of Microbiology & Pathology of diseases that is essential for a physiotherapist to institute appropriate treatment or suggest preventive measures to the patient.
Course Objective	To impart the knowledge and understanding about the study of causes and mechanisms of a disease in pathology and knowledge and understanding of common organisms causing diseases in microbiology.
Course Outcomes (COs): **At the end of the course students shall be able to:**	
CO1	Demonstrate knowledge of causes, mechanisms, types and effects of cell injury and cell death (C2)
CO2	Describe the Etio – pathogenesis, the pathological effects & the clinico – pathological correlation of common infections & non-infectious diseases. (C2)
CO3	Describe normal & altered morphology of different organ systems in different diseases and describe the disease process & their clinical significance. (C2)
CO4	Explain the morphology of common microbial organisms and related pathogenesis for diseases in humans. (C2)
CO5	Explain common lab techniques, and recognize selected microbial and histo-pathological specimens. (C2, P1)

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**			**X**			
CO2	**X**			**X**			
CO3	**X**			**X**			
CO4	**X**			**X**			
CO5	**X**			**X**			

GITAM School of Physiotherapy							
Name of the Program	Bachelor of Physiotherapy						
Course Title	Pharmacology						
Course Code							
Semester / Academic year	3rd Semester / 2nd Year						
Number of Credits	3 (Theory)						
Course Prerequisite	Basic Knowledge of Anatomy & Physiology of various systems of the human body.						
Course Synopsis	This course introduces pharmacology with emphasis on drug interaction with organ function. The students will be able to relate the effects of pharmacotherapy on human function.						
Course Objective	To educate the students regarding various categories of drugs, their reactions and effects and applications in various conditions.This will help the student accordingly plan proper treatment protoocols.						
Course Outcomes (COs): **At the end of the course students shall be able to:**							
CO1	Relates the pharmacological drugs used in various clinical conditions to Physiotherapy Practice (C2)						
CO2	Explain the therapeutic indications, dosage, routes of administration, pharmacological action and adverse effects of drugs used in various clinical conditions affecting the human body. (C2)						
Mapping of Course Outcomes (COs) to Program Outcomes (POs):							
COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**
CO1	**X**			**X**			
CO2	**X**						

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Biomechanics and Kinesiology
Course Code	
Semester / Academic year	Semester 3; Year 2
Number of Credits	4
Course Prerequisite	The students should have the knowledge of Anatomy and principles of mechanics influencing human movement
Course Synopsis	This course aids in understanding and applying basic principles of biophysics in describing the structural integrity and functions of the human musculoskeletal system. The students will learn about the biomechanics of various joints, posture and gait.
Course Objective	To understand and apply the principles of biophysics in describing the structural integrity and functions of human musculoskeletal system in Physiotherapy practice.
Course Outcomes (COs): **At the end of the course students shall be able to:**	
CO1	Summarize human movements using the concepts of kinematics and kinetics (C2)
CO2	Explain the principles of biomechanics in describing and analyzing common functional activities and recognize altered movement patterns (C2)

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**			**X**			
CO2	**X**			**X**			

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Practical in Biomechanics and Kinesiology
Course Code	
Semester / Academic year	Semester 3; Year 2
Number of Credits	1(Practical)
Course Prerequisite	The students should have the knowledge of Anatomy and principles of mechanics influencing human movement
Course Synopsis	The students will apply basic principles of biophysics and kinesiology in describing the structural integrity and functions of human musculoskeletal system. They will perform movement and function evaluation under guidance.
Course Objective	1. To apply basic principles of biophysics and kinesiology in describing the structural integrity and functions of human musculoskeletal system. 2.To provide hands on experience for performing movement and functional evaluation through Physiotherapy practice.
Course Outcomes (COs): **At the end of the course students shall be able to:**	
CO1	Explain and display human movements using the concepts of kinematics and kinetics (C2, P2)
CO2	Explain and perform evaluation of posture, gait, alignment of human body segments and their integrated function using principles of biomechanics and recognize altered movement patterns (C2, P4, A2)

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**	**X**		**X**			
CO2	**X**	**X**		**X**			

GITAM School of Physiotherapy							
Name of the Program	Bachelor of Physiotherapy						
Course Title	Theoretical concepts in Exercise therapy-I						
Course Code							
Semester / Academic year	Semester III; Year 2						
Number of Credits	Credits 3 (Theory)						
Course Prerequisite	Knowledge of anatomy, physiology, and foundational knowledge in exercise therapy.						
Course Synopsis	In this course, the students will learn the principles for application of therapeutic exercise, to restore physical function. The major topics for this course include Muscle Testing, Trick movements, Suspension therapy, Hydrotherapy, Therapeutic Gymnasium, Mobilization, Spinal traction, Stretching, and Proprioceptive Neuromuscular Facilitation (PNF)						
Course Objective	To impart knowledge on theortical concepts of exercise therapy and understand the application of principles of exercise in various clinical conditions						
Course Outcomes (COs): **At the end of the course students shall be able to:**							
CO1	Describe Muscle Testing and Trick movement for the evaluation of muscle function (C2)						
CO2	Explain the principles, indications, contraindication and techniques for application of use of Suspension therapy, Hydrotherapy, Therapeutic Gymnasium, Mobilization techniques, Spinal traction, Stretching techniques, and Proprioceptive Neuromuscular Facilitation (PNF). (C2)						
Mapping of Course Outcomes (COs) to Program Outcomes (POs):							
COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**
CO1	X			X			
CO2	X			X			

GITAM School of Physiotherapy							
Name of the Program	Bachelor of Physiotherapy						
Course Title	Practical in Exercise therapy - I						
Course Code							
Semester / Academic year	Semester IIl; Year 2						
Number of Credits	3 (practical)						
Course Prerequisite	Knowledge of anatomy, physiology, and foundational knowledge in exercise therapy.						
Course Synopsis	In this course, the students will learn the principles and hands on techniques for application of therapeutic exercise, to restore physical function. The major topics for this course include Muscle Testing, Trick movements, Suspension therapy, Hydrotherapy, Therapeutic Gymnasium, Mobilization, Spinal traction, Stretching, and Proprioceptive Neuromuscular Facilitation (PNF)						
Course Objective	1)To implement the basic theortical concepts of exercise therapy. 2) To provide in depth hands on knowledge in performing joint movement evaluation and also to impart various skills that helps in physical rehabilitation						
Course Outcomes (COs): **At the end of the course students shall be able to:**							
CO1	Performs evaluation of Muscle function and Imitates Trick movements (C2, P4)						
CO2	Explain the principles, indications, contraindication and displays the techniques for application of use of Suspension therapy, Hydrotherapy, Therapeutic Gymnasium, Mobilization techniques, Spinal traction, Stretching techniques, and Proprioceptive Neuromuscular Facilitation (PNF). (C2, P4)						
Mapping of Course Outcomes (COs) to Program Outcomes (POs):							
COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**
CO1	**X**	**X**	**X**	**X**			
CO2	**X**	**X**	**X**	**X**			

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Health Informatics and Clinical Observation
Course Code	
Semester / Academic year	IIIrd semester/IInd year)
Number of Credits	1 (T) , 2(Clinical Practice)
Course Prerequisite	Basic Knowledge of a hospital and physiotherapy OPD layout and patient care process flow
Course Synopsis	Through this course, the students will learn Bioinformatics and medical documentation algorithms used in Hospital setups. They will observe the client interaction with clinicians, delivery of health care and physiotherapeutic skills in different clinical units of a hospital.
Course Objective	1. To familiarize the student with the basic definitions, key concepts and terminology in Health Informatics. 2. To make the student understand the fundemental charecteristics of data, information and knowledge in health iformatics. 3. Equip the students to volunteer for setting and winding up therapy, maintaining clinical notes and activity logs.
Course Outcomes (COs): **At the end of the course students shall be able to:**	
CO1	Interpret definitions, key concepts and terminology in the context of Health Informatics (C2)
CO2	Explain client's interaction with clinician, begins to document clinical information as dictated by the clinical therapist (A3, P2)
CO3	Explains the use of learned skills in clinical practice (P2)
CO4	Displays documentation of an observed clinical scenario and patient records in the Log book (A3, P2).

COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**
CO1	**X**	**X**					
CO2	**X**	**X**					
CO3	**X**			**X**			
CO4	**X**	**X**					

Fourth Semester-B.P.T

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Basics in Patient Handling Techniques and Theoretical Concepts in Exercise Therapy-II
Course Code	
Semester / Academic year	Semester IV; Year 2
Number of Credits	Credits 3(theory)
Course Prerequisite	The student must have knowledge of Anatomy, Physiology, Biomechanics and exercise therapy methods and techniques learned in 1st, 2nd and 3rd semesters.
Course Synopsis	In this course, the students will learn the principles and techniques for handling the patients in a rehabilitation setup and application of therapeutic exercise to restore physical function The major topics for this course include Strengthening exercises, balance, and Coordination exercises, Posture reeducation, Mobility aids (walking aids and wheelchairs), Functional re-education and gait rehabilitation exercises.
Course Objective	To provide an indepth knowledge of handling a patient and implementation of an exercise program in different clinical conditions.
Course Outcomes (COs): **At the end of the course students shall be able to:**	
CO1	Apply the principles of biomechanics for patient handling and transitions ensuring safety through movement rehabilitation (C3)
CO2	Explain the principles, indications, contraindication and techniques for application and use of Mobility aids, Strengthening Exercises, Balance and Coordination exercises, Posture Re-education, Functional re-education and Gait re-education (C2)

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**			**X**			
CO2	**X**			**X**			

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Practical in Patient Handling Techniques and Exercise therapy-II
Course Code	
Semester / Academic year	Semester IV; Year 2
Number of Credits	Credits 2(practical)
Course Prerequisite	The student must have knowledge of Anatomy, Physiology, Biomechanics and exercise therapy methods and techniques learned in 1st, 2nd and 3rd semesters.
Course Synopsis	In this course, the students will learn to apply hands-on principles and techniques for handling the patients in a rehabilitation setup and application of therapeutic exercise to restore physical function. The major practical topics for this course include Strengthening exercises, balance, and Coordination exercises, Posture reeducation, Mobility aids (walking aids and wheelchairs), Functional re-education and gait rehabilitation exercises.
Course Objective	To provide extensive hands on knowledge of different tecnhniques and skills of exercise therapy
Course Outcomes (COs): **At the end of the course students shall be able to:**	
CO1	Displays and practices the principles of biomechanics for patient handling and transitions ensuring safety through movement rehabilitation (C3, P4, A2)
CO2	Explain the principles, indications, contraindication and techniques for application and use of Mobility aids, Strengthening Exercises, Balance and Coordination exercises, Posture Re-education, Functional re-education and Gait re-education (C2, P4, A3)

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**	**X**	**X**	**X**			
CO2	**X**	**X**	**X**	**X**			

GITAM School of Physiotherapy							
Name of the Program	Bachelor of Physiotherapy						
Course Title	Theoretical Concepts in Electrotherapy						
Course Code							
Semester / Academic year	4th semester/ II year						
Number of Credits	3						
Course Prerequisite	Knowledge of anatomy, physiology, pathology and biophysics						
Course Synopsis	This course will enable the students to understand the principles and concepts in implementing the evidence informed electro therapeutic interventions with sound clinical reasoning. The major topics for this course include neuromuscular electrical stimulation, transcutaneous electrical nerve stimulation, functional electrical stimulation, interferential currents, russian currents, thermal, microthermal, non-thermal and light based electrotherapy modalities.						
Course Objective	1. To discribe the basic models of eletrotherapy and electrotherapeutic windows 2. To understand apply the concept of treating various dysfunctions using electrotherapeutic modalities.						
Course Outcomes (COs): **At the end of the course students shall be able to:**							
CO1	Describe the working principles and application of electrophysical modalities (C2)						
CO2	Explain the clinical reasoning for choice of electrotherapeutic modalities in clinical practice (C2) .						
Mapping of Course Outcomes (COs) to Program Outcomes (POs):							
COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**
CO1	**X**			**X**			
CO2	**X**			**X**			

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Practical in Electrotherapy
Course Code	
Semester / Academic year	4th semester/ IInd academic year
Number of Credits	4 credits
Course Prerequisite	Knowledge of anatomy, physiology, pathology and biophysics
Course Synopsis	This course will enable the students to practice the principles and concepts of electrotherapeutic interventions with sound clinical reasoning. The major topics for this course include neuromuscular electrical stimulation, transcutaneous electrical nerve stimulation, functional electrical stimulation, interferential currents, russian currents, thermal, microthermal, non-thermal and light based electrotherapy modalities.
Course Objective	To apply therapeutic skill of positioning the patient for electrotherapy and using various electrotherapeutic modalities of high, medium and low frequency.
Course Outcomes (COs): **At the end of the course students shall be able to:**	
CO1	Display and practice the safe methods to prepare the patients, give instruction, apply the intervention and effectively winds up the procedure for the electrotherapeutic session. (C3, P4, A2)
CO2	Explain the principles, indications, contraindication and techniques for application and use of neuromuscular electrical stimulation, transcutaneous electrical nerve stimulation, functional electrical stimulation, interferential currents, russian currents, thermal, microthermal, non-thermal and light based electrotherapy modalities. (C2, P4, A3)

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**	**X**	**X**	**X**			
CO2	**X**	**X**	**X**	**X**			

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Theoretical concepts in Physical and Functional Diagnosis and outcome measures
Course Code	
Semester / Academic year	4th Semester / 2nd Year
Number of Credits	3
Course Prerequisite	Knowledge of Anatomy, Physiology, Biochemistry, Exercise Therapy and Biomechanics
Course Synopsis	The course, Theoretical concepts in Physical and Functional Diagnosis is designed to give the student knowledge of various physical and functional methods used for diagnosis and planning a physiotherapy program. The major topics for this course include clinical examination, special tests for diagnosis, useful Investigations for diagnosis and various outcome measures in rehabilitation.
Course Objective	To impart the knowledge of different physical and functional methods used to diagnose and plan physiotherapy treatment for a patient, familiarize with the common outcome tools used in rehabilitation and understand the common investigative reports of a clinical condition
Course Outcomes (COs): **At the end of the course students shall be able to:**	
CO1	Describe clinical reasoning to interpret the evaluation process in Physiotherapy rehabilitation (C2)
CO2	Describe the general methods to evaluate various systems and functions of the human body (C2)
CO3	Describe the methods of performing special tests for various systems and functions of the human body (C2)
CO4	Read and interpret common Investigation reports (C2)
CO5	Use appropriate outcome measures for structure and function of human body (C2)

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**			**X**		**X**	
CO2	**X**			**X**		**X**	
CO3	**X**			**X**		**X**	
CO4	**X**			**X**		**X**	
CO5	**X**			**X**		**X**	

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Practical in Physical and Functional Diagnosis
Course Code	
Semester / Academic year	4th Semester / 2nd Year
Number of Credits	3 (Practical)
Course Prerequisite	Knowledge of Anatomy, Physiology, Biochemistry, Exercise Therapy and Biomechanics
Course Synopsis	The course, Practical in Physical and Functional Diagnosis is designed to develop skill in performing various physical and functional evaluation methods used for diagnosis and planning a physiotherapy program. The major topics for this course include hands-on training for clinical examination, special tests for diagnosis, Interpretation of Investigations for diagnosis and various outcome measures in rehabilitation.
Course Objective	To impart the hands on skill to perform the various clinical tests for the diagnosis of a clinical condition, utilize the theorietical knowledge to practice implementation of outcome measures and interpret the common investigative reports of a clinical condition.
Course Outcomes (COs): **At the end of the course students shall be able to:**	
CO1	Make use of the skills of clinical reasoning to interpret the evaluation process in Physiotherapy rehabilitation (C3, P2)
CO2	Performs evaluation of various systems and functions of the human body (P4, A2)
CO3	Performs special tests for various systems and functions of the human body (P4, A2)
CO4	Read and interpret common Investigation reports (C2)
CO5	Selects appropriate outcome measures to evaluate structure and function of human body (C1)

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**		**X**	**X**		**X**	
CO2	**X**	**X**	**X**	**X**		**X**	
CO3	**X**	**X**	**X**	**X**		**X**	
CO4	**X**		**X**	**X**		**X**	
CO5	**X**		**X**	**X**		**X**	

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Ethics and Professionalism
Course Code	
Semester / Academic year	4th Semester / 2nd Year
Number of Credits	1(Theory)
Course Prerequisite	The student must have an inclination to be a professional in Physiotherapy following ethical principles
Course Synopsis	Physiotherapy ethics acts as a "bridge" between theoretical bioethics and the bedside Professional standards. The goal is to improve the quality of patient care by identifying, analyzing, and attempting to resolve the ethical problems that arise in practice. Physiotherapists are bound by, not just moral obligations, but also by laws and official regulations that form the legal framework to regulate professional practice. Hence, this course aims at instilling the virtues which a physiotherapist is expected to follow so as to conduct ethically as well as professionally while practicing patient care.
Course Objective	1. Imparts knowledge regarding different governing bodies of the profession in India as well as abroad, their guidelines and rules. 2. Familiarizes students about the different laws and rights as a physiotherapist. 3. Educates the student about the ethical values and professionism that needs to be instilled to be a successful physiotherapist.
Course Outcomes (COs): At the end of the course students shall be able to:	
CO1	Explain the concepts and principles for ethical practice and mention the regulatory bodies governing physiotherapy profession (C2)
CO2	Explain professionalism in physiotherapy practice and mention the various determinants for an ideal physiotherapy professional (C2)

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**
CO1	**X**		**X**		**X**		**X**
CO2	**X**		**X**		**X**		**X**

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Introduction to Evidence Based Practice
Course Code	
Semester / Academic year	Semester 4; Year 2
Number of Credits	2
Course Prerequisite	The students should have knowledge of search strategies and common study designs used for research
Course Synopsis	This course introduces the concept of evidence-based practice and dwells on procedures for evidence synthesis and rationale for its utilization in Physiotherapy practice. The students will get an opportunity to work on a short review project to summarize the evidence for a clinical case scenario.
Course Objective	To introduce the concept of evidence-based Physiotherapy practice and enable the students to be a life long learner to implement evidence informed Physiotherapy practitioner.
Course Outcomes (COs): **At the end of the course students shall be able to:**	
CO1	Explain the scope of evidence-based practice (C2)
CO2	Describe the process of evidence synthesis and utilization in clinical practice (C2)
CO3	Applies steps for evidence synthesis (C3, P1)

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**					**X**	
CO2	**X**					**X**	
CO3		**X**		**X**		**X**	

GITAM School of Physiotherapy							
Name of the Program	Bachelor of Physiotherapy						
Course Title	Clinical observation and practice						
Course Code							
Semester / Academic year	Semester 4; Year 2						
Number of Credits	Credits 1 (Clinical Practice)						
Course Prerequisite	Knowledge of the patient care process in a hospital set up.						
Course Synopsis	In this course, the students will begin to document the observed skills and will actively take part in evaluation of a patient under supervision. The student will have the opportunity to try therapeutic skills with clients under supervision.						
Course Objective	To provide hands of knowledge of physiotherapy documentation, and impart hands on skill to demonstrate the learned therapeutic techniques.						
Course Outcomes (COs): **At the end of the course student shall be able to:**							
CO1	Begins to evaluate and document patient findings under supervision (C2, P2, A3)						
CO2	Tries to practice the therapeutic skills under supervision (C2, P2, A3)						
Mapping of Course Outcomes (COs) to Program Outcomes (POs):							
COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**
CO1	**X**	**X**	**X**	**X**	**X**		
CO2	**X**	**X**	**X**	**X**	**X**		

Fifth Semester-B.P.T

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Clinical Orthopedics &Traumatology
Course Code	
Semester / Academic year	Semester 5; Year 3
Number of Credits	4
Course Prerequisite	Knowledge of Anatomy, Physiology, Microbiology and Pathology
Course Synopsis	This course deals with injuries, pathological basis, evaluation, treatment planning, conservative and surgical management strategies for common neuro-musculoskeletal disorders.
Course Objective	To enhance knowledge on musculoskeletal pathologies, their medical and surgical management options and facilitate Physiotherapist's treatment planning for common neuro-musculoskeletal disorders as a rehabilitation team member.
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Outline causes, clinical features, and evaluation of common musculoskeletal disorders. (C2)
CO2	Explain the clinical decision-making process for conservative and surgical management of common musculoskeletal conditions (C2)
CO2	Describe the conservative, surgical and post-surgical management of musculoskeletal conditions (C2)
Mapping of Course Outcomes (COs) to Program Outcomes (POs):	

COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**
CO1	**X**			**X**			
CO2	**X**			**X**			
CO3	**X**			**X**			
CO4							

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Clinical Neurology & Neurosurgery
Course Code	
Semester / Academic year	Semester V; Year 3
Number of Credits	4 Credits (Theory)
Course Prerequisite	Basic Knowledge of Neuroanatomy, Neurophysiology and Neuropathology
Course Synopsis	The course in Neurosciences over the Third year is designed to give the student an in-depth knowledge about various disorders of the Nervous system, their clinical conditions, etiopathogenesis, clinical symptomatology, differential diagnosis, and their clinical management. The major topics for this course include Infectious disorders, Trauma, Cerebrovascular accidents, demyelinating diseases, peripheral neuropathies, disorders of Neuromuscular junction, Muscle diseases, Degenerative disease and other miscellaneous conditions affecting the Nervous system.
Course Objective	To provide knowledge and understanding of the various disorders of the nervous system requiring neurological and neurosurgical interventions.
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Understand and apply the knowledge for diagnosis of common Neurological conditions
CO2	Understand and interpret the various clinical signs and symptoms of a neurological disease
CO3	Differentially diagnose a neurological condition
CO4	Develop strategies for health promotion and prevention of neurological damage
CO5	clinically apply the basic knowledge of the nervous system.

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	General Medicine & Psychiatry
Course Code	
Semester / Academic year	Semester V / Year 3
Number of Credits	4 Credits (Theory)
Course Prerequisite	Thorough knowledge of anatomy & physiology of various systems of the human body and basic knowledge of basic pathology, microbiology & pharmacology.
Course Synopsis	This course gives extensive knowledge about various medical conditions of the human body including general medicine, dermatology, paediatrics and psychiatry.
Course Objective	To impart extensive knowledge regarding various general medical conditions including dermatology, pediatrics and psychiatry to enhance the planning of physiotherapy treatment protocol.
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Describe Etiology, Pathophysiology, Signs &Symptoms & Management of the various Endocrinal, Metabolic, Geriatric& Nutrition Deficiency conditions.
CO2	Describe Etiology, Pathophysiology, Signs & Symptoms, Clinical, Evaluation& Management of the various Rheumatological, Cardiovascular and Respiratory Conditions.
CO3	Interpret Chest X-ray, Blood gas analysis, P.F.T. findings, Blood investigations done for various medical and Rheumatological conditions
CO4	Describe the Pathophysiology, Signs & Symptoms, Clinical Features, Examination & Management of Common Skin Conditions
CO5	Describe the principles of Management at the Medical Intensive Care Unit.

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**	**X**	**X**	**X**	**X**	**X**	**X**
CO2	**X**	**X**	**X**	**X**	**X**	**X**	**X**
CO3	**X**		**X**	**X**	**X**	**X**	**X**
CO4	**X**			**X**	**X**	**X**	**X**
CO5	**X**		**X**	**X**	**X**	**X**	**X**

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	General Surgery , Burns and Plastic Surgery
Course Code	
Semester / Academic year	Semester 5; Year 3
Number of Credits	4
Course Prerequisite	The students should have the knowledge of Anatomy, Physiology, and Pathology
Course Synopsis	This course helps the student to have a general understanding of the surgical conditions, the physiotherapist would encounter in their practice. This knowledge helps the therapist to plan an appropriate pre-operate and post-operative therapeutic interventions.
Course Objective	To enhance knowledge of surgical procedures and facilitate Physiotherapist's treatment planning through team work in surgical conditions.
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Explain the common indications and lists the common investigations used for the surgical procedures (C2)
CO2	Explain the surgical management of common surgical conditions and post-surgical care (C2)
CO3	Explain the complications of common surgical procedures (C2)
CO4	Outline the prevention strategies and precautions to be taken for common surgical complications (C2)

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**			**X**			
CO2	**X**			**X**			
CO3	**X**			**X**			
CO4	**X**			**X**			

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Clinical Investigations and Radiodiagnosis
Course Code	
Semester / Academic year	Semester V; Year 3
Number of Credits	2 Credits (Theory)
Course Prerequisite	Comprehensive knowledge of Human Anatomy, Human Physiology, Biochemistry and Physical and Functional Diagnosis
Course Synopsis	The course, Clinical Investigations and Radiodiagnosis, over the Third year is designed to give the student an in-depth knowledge about interpretation of various diagnostic tests used in clinical practice. The major topics for this course are Cellular and Chemical Analysis, Physical and visual examination, Electrodiagnostic tests and Radio diagnostic tests used in physiotherapy.
Course Objective	To introduce learners about the the various diagnostic tests used in clinical practice and their interpretation in a clinical condition.
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Understand and conceptualize the process of clinical diagnosis
CO2	Understand and interpret the findings of common Blood analysis tests used in physiotherapy
CO3	Perform and interpret various Physical and Visual examination tests
CO4	Understand and interpret the findings of common electro diagnostic tests used in physiotherapy
CO5	Understand and interpret the findings of common Radio diagnostic tests used in physiotherapy

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**			**X**			
CO2	**X**			**X**			
CO3	**X**			**X**			
CO4	**X**			**X**			
CO5	**X**			**X**			

GITAM School of Physiotherapy							
Name of the Program	Bachelor of Physiotherapy						
Course Title	Evaluative clinical practice and clinical reasoning						
Course Code							
Semester / Academic year	Semester VI; Year 3						
Number of Credits	Credits 5						
Course Prerequisite	.						
Course Synopsis	- In this course, the students will learn about in-depth hands-on knowledge about various medical departments and their referral systems . The Major topics of this course are general observation regarding the assessment ,procedures and equipments they use in different departments at different scenarios.						
Course Objective	To provide knowledge regarding different medical departments and their refferal systems for better understanding of multi -displinary approach in health care system						
Course Outcomes (COs): **At the end of the course student shall be able to:**							
CO1	Understand the basic concept of functioning of a medical department (C2).						
CO2	Infer the basics of assessment, interpretation of investigations (C2)						
CO3	Understand the basic concept of diagnosis, management and different strategies used in respective medical departments						
Mapping of Course Outcomes (COs) to Program Outcomes (POs):							
COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**
CO1	**X**			**X**			
CO2	**X**			**X**			
CO3	**X**			**X**			

Sixth Semester-B.P.T

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Physiotherapy in Musculoskeletal Sciences-I
Course Code	
Semester / Academic year	Semester VI; Year 3
Number of Credits	3 Credits (Theory)
Course Prerequisite	Comprehensive Knowledge of Clinical Orthopedics
Course Synopsis	The course "Physiotherapy in Musculoskeletal Sciences I", over the third year, is designed to give a student an in-depth knowledge about physiotherapy management and various disorders of the musculoskeletal system. Here the students integrate the knowledge gained in Clinical Orthopedics.
Course Objective	To impart knowledge and understanding of various physiotherapeutic evaluations and interventions in musculoskeletal rehabilitation
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Explain the Physiotherapy management following elective surgeries and post-traumatic musculoskeletal conditions (C2)
Mapping of Course Outcomes (COs) to Program Outcomes (POs):	

COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**
CO1	**X**			**X**			

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Physiotherapy in Neurological Sciences and Paediatrics- I
Course Code	
Semester / Academic year	Semester VI; Year 3
Number of Credits	3 Credits (Theory)
Course Prerequisite	Comprehensive knowledge of Clinical Neurosciences
Course Synopsis	The course, Physiotherapy in Neurological Sciences and Paediatrics- I, over the Third year is designed to give the student an in-depth knowledge about Physiotherapy assessment and physiotherapy management of various disorders of the Nervous system. The major topics for this course are Physiotherapy assessment and management of Demyelinating disorders of CNS, infectious disorders of CNS, Traumatic disorders of CNS, Neoplasms, Epilepsy disorders and Developmental disorders of a child and other miscellaneous conditions affecting the Nervous system.
Course Objective	1. To educate students about detailed neurological physiotherapy assessment in various neurological conditions 2. To impart knowledge regarding various treatment approaches and treatment plans in specific neurological conditions
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Perform a comprehensive Physiotherapy assessment of Neurological Patient
CO2	Plan appropriate goals for physiotherapy treatment for various neurological conditions
CO3	Understand the concepts of basic neuro-rehabilitative approaches including PNF, Brunnstrom and Roods.
CO4	Understand and implement the physiotherapy approaches based on theories of neuronal plasticity
CO5	Perform a comprehensive developmental screening of a child

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**	**X**	**X**	**X**	**X**	**X**	**X**
CO2	**X**	**X**	**X**	**X**	**X**	**X**	**X**
CO3	**X**		**X**	**X**	**X**	**X**	**X**
CO4	**X**			**X**	**X**	**X**	**X**
CO5	**X**		**X**	**X**	**X**	**X**	**X**

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Cardio-pulmonary physiotherapy in medical and surgical conditions- 1
Course Code	
Semester / Academic year	Semester 6 / 3rd year
Number of Credits	Theory - 3 credits
Course Prerequisite	A basic knowledge about anatomy,physiology,biomechanics,exercise therapy and clinical cardio pulmonary sciences
Course Synopsis	The course in Cardio respiratory physiotherapy is a comprehensive course that includes but is not limited to physical and breathing exercises,risk factor modification and psychological condition of individuals with cardio respiratory conditions This course involves advanced studies in physiotherapy practice related to the pulmonary,cardiac and vascular systems,including ICU management and surgical care
Course Objective	To impart basic theorictical knowledge on cardio-pulmonary assessments in various medical and surgical conditions
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Understand the clinical aspects of respiratory conditions and chest physiotherapy techniques
CO2	Enlist the impairments and plan therapy accordingly
CO3	Explain physiotherapeutic techniques in the management of respiratory conditions and critical care
CO4	Demonstrate chest physiotherapy techniques in various clinical conditions
CO5	Demonstrate the skills of evaluation and management in various respiratory conditions and critical care unit

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1				**X**			
CO2	**X**			**X**			
CO3		**X**		**X**			**X**
CO4		**X**		**X**		**X**	**X**
CO5		**X**		**X**		**X**	**X**

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Physiotherapy Clinical Practice in Musculoskeletal Sciences-I
Course Code	
Semester / Academic year	Semester VI; Year 3
Number of Credits	2 Credits (Practical)
Course Prerequisite	Comprehensive Knowledge of Clinical Orthopedics
Course Synopsis	The course “Physiotherapy clinical practice in Musculoskeletal Sciences I”, over the third year, is designed to give a student an in-depth hands on experience about physiotherapy management and various disorders of the musculoskeletal system.
Course Objective	To gain in-depth practical knowledge and hands on training for physiotherapy management of various musculoskeletal disorfders
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Display the comprehensive evaluation and plan physiotherapy management in musculoskeletal conditions (Post-traumatic and elective orthopedic surgeries) (C2, P3, A2)

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**			**X**			

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Physiotherapy Clinical Practice in Neurological Sciences and Paediatrics- I
Course Code	
Semester / Academic year	Semester VI; Year 3
Number of Credits	2 Credits (Practical)
Course Prerequisite	Comprehensive knowledge of Clinical Neurosciences
Course Synopsis	The course, Physiotherapy Clinical Practice in Neurological Sciences and Paediatrics- I, over the Third year is designed to give the student an in-depth Hands on knowledge about methods of Physiotherapy assessment and physiotherapy management of various disorders of the Nervous system. The major topics for this course are Physiotherapy assessment and management of Demyelinating disorders of CNS, infectious disorders of CNS, Traumatic disorders of CNS, Neoplasms, Epilepsy disorders and Developmental disorders of a child and other miscellaneous conditions affecting the Nervous system.
Course Objective	- To give hands on practice on how to access a neurological condition and appropriately plan a detailed physiotherapy treatment protocol.
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Perform a comprehensive Physiotherapy assessment of Neurological Patient
CO2	Plan and design appropriate goals for physiotherapy treatment in various neurological conditions
CO3	Demonstrate the basic neuro-rehabilitative approaches including PNF, Brunnstrom and Roods.
CO4	Implement the physiotherapy approaches based on theories of neuronal plasticity
CO5	Perform a comprehensive developmental screening of a child

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**		**X**	**X**	**X**	**X**	
CO2	**X**	**X**	**X**	**X**	**X**	**X**	**X**
CO3	**X**		**X**	**X**	**X**	**X**	**X**
CO4	**X**			**X**	**X**	**X**	**X**
CO5	**X**			**X**	**X**	**X**	**X**

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Clinical Practice in Cardiovascular and Pulmonary Physiotherapy -I
Course Code	
Semester / Academic year	Semester VI; Year 3
Number of Credits	Credits 2(practical)
Course Prerequisite	Comprehensive Knowledge of Medical and Surgical Conditions.
Course Synopsis	- In this course, the students will learn about in-depth hands-on knowledge about methods of cardio-respiratory physiotherapy assessment and physiotherapy management of various disorders in medical and surgical conditions. The Major topics of this course are Cardio-Respiratory Physiotherapy assessment and management of respiratory disorders of lungs, infectious disorders of heart and lungs and other miscellaneous conditions affecting the cardio-respiratory systems.
Course Objective	To impart basic practical knowledge and skill in cardio-pulmonary assessments and therapeutic intervention in various medical and surgical conditions
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Perform a comprehensive cardio-respiratory physiotherapy assessment for medical and surgical conditions.
CO2	Plan and design appropriate goals for cardio-respiratory physiotherapy treatment in various medical and surgical conditions.
CO3	Demonstrate basic cardio-respiratory rehabilitative approaches which includes techniques to increase lung volume, airway clearance techniques and physiotherapy techniques to decrease the work of breathing.

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**			**X**			
CO2	**X**			**X**			
CO3	**X**			**X**			

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	PATIENT SAFETY AND QUALITY IN HEALTHCARE
Course Code	
Semester / Academic year	VI Semester/Academic year III
Number of Credits	2
Course Prerequisite	Students should have acquired knowledge on Human anatomy, physiology, Biomechanics, Exercise therapy and Electrotherapy both theoretically and practically and speciality subjects like General medicine, General surgery, Pediatrics, OBG etc.
Course Synopsis	This course helps students learn the following basics on: - Quality and healthcare - Emergency care and life support manoeuvres. - Biomedical waste and its management and how to protect the environment. - Infection prevention and control and risks of antibiotic resistance and how to minimise it. - Concepts on disaster management and its importance.
Course Objective	To create understanding about the methods to deliver quality healthcare, familiarize the learner on emergency care including life support manoeuvres, Biomedical waste management, infection prevention and control and disater management.
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Define the basic concepts, standards, norms and tools used to provide quality in healthcare and the role of NABH in it.
CO2	Describe their understanding with the basics of emergency care and present their skills on life support manoeuvres.
CO3	Identify the various types of Biomedical waste and its management, and learn the appropriate measures to protect oneself and the environment.
CO4	Gained knowledge on the importance of infection prevention and control, the various tools incorporated to achieve and also understand the details on antibiotic resistance and the tools developed in hospitals to minimize it.
CO5	Define what disaster management is and categorize the various concepts covered under disaster management.

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**	**X**		**X**		**X**	
CO2	**X**	**X**					
CO3	**X**						
CO4	**X**	**X**		**X**			
CO5	**X**						

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Introduction to Research Methods, Biostatistics and Research Protocol
Course Code	
Semester / Academic year	Semester 6; Year 3
Number of Credits	4
Course Prerequisite	The student should have basic knowledge on search strategies in databases and Evidence Based Practice
Course Synopsis	This course introduces common terminologies used in health care research and biostatistics. The student will be guided to identify a research question relevant to the field of physiotherapy, formulate a research protocol and apply for approval from relevant regulatory authorities based on research questions and methods adopted.
Course Objective	1. To introduce common terminologies used in health care research and biostatistics 2. To provide hands on experience opportunities in preparing a research protocol.
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Outline research methods suitable for a research question (C2)
CO2	Relates statistical methods and interprets the result analysis (C2)
CO3	Identifies a research question and prepares a research protocol (C3, P2)

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**			**X**			
CO2	**X**					**X**	
CO3		**X**	**X**				

GITAM School of Physiotherapy							
Name of the Program	Bachelor of Physiotherapy						
Course Title	Pain Sciences						
Course Code							
Semester / Academic year	Semester 6; Year 3						
Number of Credits	1 (Theory), 1 (Practical)						
Course Prerequisite	Basic knowledge on applied anatomy and physiology, skill in principles of exercise therapy and electro-physical modalities.						
Course Synopsis	This course will help the student to understand the mechanisms, assessment, and management strategies for acute and chronic pain						
Course Objective	To provide theoritical basis and hands on experience to begin managing pain in physiotherapy practice.						
Course Outcomes (COs): **At the end of the course student shall be able to:**							
CO1	Explains the peripheral and central mechanisms of Pain (C2)						
CO2	Identifies outcome measures for the assessment of chronic pain (C2, A3)						
CO3	Plans comprehensive treatment plan for the management of chronic pain (C3, A3)						
Mapping of Course Outcomes (COs) to Program Outcomes (POs):							
COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**
CO1	**X**						
CO2	**X**						
CO3	**X**						

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Balance Rehabilitation
Course Code	
Semester / Academic year	Semester VI; Year 3
Number of Credits	2 Credits (1-Theory + 1- Practical)
Course Prerequisite	Comprehensive Knowledge of Neuroanatomy, Neurophysiology and Neuropathology
Course Synopsis	The course, Balance Rehabilitation over the Third year is designed to give the student an in-depth knowledge about the understanding of Balance, its assessment and preparing goals for retraining of balance in various conditions with balance dysfunction.
Course Objective	To provide theoretical and hands on knowledgge to understand and perform balance assessment and balance training in various conditions with balance dysfunction.
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Describe both central and peripheral sensory and motor components of the postural control system.
CO2	List commonly used balance tests, and distinguish which are appropriate for clients at low, moderate, and high levels of function
CO3	Analyze the interaction of individual, task, and environmental factors that affect balance.
CO4	Describe how to plan and progress balance exercise programs
CO5	Describe how to facilitate adaptation and central nervous system reorganization to regain control of balance and decrease dizziness.

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**						
CO2	**X**			**X**			
CO3	**X**			**X**			
CO4	**X**			**X**			
CO5	**X**			**X**			

Seventh Semester-B.P.T

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Physiotherapy in Musculoskeletal Sciences -II
Course Code	
Semester / Academic year	Semester VII; Year 4
Number of Credits	3 Credits (Theory)
Course Prerequisite	Comprehensive Knowledge of "Clinical Orthopedics" and "PT in Musculoskeletal Sciences I" learnt in the previous years
Course Synopsis	The course "Physiotherapy in Musculoskeletal Sciences II", over the fourth year, is designed to give a student an in-depth knowledge about physiotherapy management and various disorders of the musculoskeletal system. Here the students integrate the knowledge gained in Clinical Orthopedics and PT in Musculoskeletal Sciences I learnt in the previous years.
Course Objective	To gain in-depth theoretical knowledge about physiotherapy assessment and management of various musculoskeletal conditions
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Explain the physiotherapy management for soft tissue conditions, infectious conditions, metabolic condition of the musculoskeletal system (C2)
Mapping of Course Outcomes (COs) to Program Outcomes (POs):	

COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**
CO1	**X**			**X**			

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Physiotherapy in Neurological Sciences and Paediatrics- II
Course Code	
Semester / Academic year	Semester VII; Year 4
Number of Credits	3
Course Prerequisite	Comprehensive knowledge of Clinical Neurosciences and basic Physiotherapy assessment formats of Neurological conditions.
Course Synopsis	This course is in continuation with the previous semester course Physiotherapy in Neurological Sciences and pediatrics – I. The student learns about further more theories & approaches of neuro-rehabilitation and application of technology in neuro-rehab. Also the couse gives knowledge regarding physiotherapeutic treatment in various neurological conditions.
Course Objective	1.To educate students about detailed neurological physiotherapy assessment in various neurological conditions 2. To impart knowledge regarding various treatment approaches and treatment plans in specific neurological conditions
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Understand the various theories of motor control & motor learning
CO2	Understand the concepts of basic neuro-rehabilitative approaches including NDT and Motor relearning Programme.
CO3	Understand the various advanced physiotherapeutic applications in neuro-rehabilitation
CO4	Plan appropriate goals for physiotherapy treatment for various neurological conditions
CO5	Plan appropriate goals for physiotherapy treatment for various paediatric neurological conditions

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	X	X	X	X	X	X	X
CO2	X	X	X	X	X	X	X
CO3	X		X	X	X	X	X
CO4	X			X	X	X	X
CO5	X		X	X	X	X	X

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Cardio-pulmonary physiotherapy in medical and surgical conditions- 2
Course Code	
Semester / Academic year	Semester 7 / 4th year
Number of Credits	Theory - 3 credits
Course Prerequisite	A basic knowledge about anatomy,physiology,biomechanics,exercise therapy and clinical cardio pulmonary sciences
Course Synopsis	The course in Cardio respiratory physiotherapy is a comprehensive course that includes but is not limited to physical and breathing exercises,risk factor modification and psychological condition of individuals with cardio respiratory conditions. This course involves advanced studies in physiotherapy practice related to the pulmonary,cardiac and vascular systems,including ICU management and surgical care
Course Objective	To provide theorictical knowledge on cardio-pulmonary intervention protocols in various medical and surgical conditions
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Understand the clinical aspects of cardio vascular and chronic diseases
CO2	Enlist the impairments and plan therapy accordingly
CO3	Explain physiotherapeutic techniques in the management cardio vascular and chronic conditions
CO4	Demonstrate the physiotherapy assessment and treatment techniques in various cardio vascular impairments
CO5	Demonstrate the skills of evaluation and management in specific chronic diseases

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1				X			
CO2		X		X		X	
CO3	X	X					X
CO4	X	X		X		X	X
CO5		X		X		X	X

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	PT CLINICAL PRACTICE IN MUSCULOSKELETAL SCIENCES-II
Course Code	
Semester / Academic year	Semester VII; Year 4
Number of Credits	2 Credits (clinical)
Course Prerequisite	Comprehensive Knowledge of "Clinical Orthopedics" and "PT in Musculoskeletal Sciences I" learnt in the previous years
Course Synopsis	The course "Physiotherapy in Musculoskeletal Sciences II", over the fourth year, is designed to give a student an in-depth knowledge about physiotherapy management and various disorders of the musculoskeletal system. Here the students integrate the knowledge gained in Clinical Orthopedics and PT in Musculoskeletal Sciences I learnt in the previous years.
Course Objective	To gain in-depth practical knowledge about physiotherapy management of various disorders of the musculoskeletal system.
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Perform comprehensive evaluation and physiotherapy management for musculoskeletal conditions (C2, P4, A2)
Mapping of Course Outcomes (COs) to Program Outcomes (POs):	

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	X	X	X	X		X	

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Physiotherapy Clinical Practice in Neurological Sciences and Paediatrics- II
Course Code	
Semester / Academic year	Semester VII; Year 4
Number of Credits	2 Credits (Practical)
Course Prerequisite	Comprehensive knowledge of Clinical Neurosciences and basic Physiotherapy assessment formats of Neurological conditions.
Course Synopsis	This course gives the student the knowledge to plan physiotherapy treatment in various neurological conditions by applying various neurological rehabilitative approaches.
Course Objective	To give hands on practice on assessing a neurological condition and develop an appropriate physiotherapy treatment plan.
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Perform a comprehensive Physiotherapy assessment of Neurological Patient
CO2	Plan and design appropriate goals for physiotherapy treatment in various neurological conditions
CO3	Demonstrate the basic neuro-rehabilitative approaches including PNF, Brunnstrom and Roods.
CO4	Implement the physiotherapy approaches based on theories of neuronal plasticity
CO5	Perform a comprehensive developmental screening of a child

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	X		X	X	X	X	
CO2	X	X	X	X	X	X	X
CO3	X		X	X	X	X	X
CO4	X			X	X	X	X
CO5	X			X	X	X	X

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Clinical Practice in Cardio-Pulmonary Physiotherapy for Medical and Surgical Conditions-2
Course Code	
Semester / Academic year	Semester VII; Year 4
Number of Credits	Credits 2(practical)
Course Prerequisite	Comprehensive Knowledge of Medical and Surgical Conditions.
Course Synopsis	- In this course, the students will learn about in-depth hands-on knowledge about methods of cardio-respiratory physiotherapy assessment and physiotherapy management of various disorders in medical and surgical conditions. The Major topics of this course are Cardio-Respiratory Physiotherapy assessment and management of respiratory disorders of lungs, infectious disorders of heart and lungs and other miscellaneous conditions affecting the cardio-respiratory systems.
Course Objective	To enhance practical knowledge and hands on skills for cardio-pulmonary interventions in various medical and surgical conditions
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Perform a comprehensive cardio-respiratory physiotherapy assessment for medical and surgical conditions.
CO2	Plan and design appropriate goals for cardio-respiratory physiotherapy treatment in various medical and surgical conditions.
CO3	Demonstrate basic cardio-respiratory rehabilitative approaches which includes techniques to increase lung volume, airway clearance techniques and physiotherapy techniques to decrease the work of breathing.

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**			**X**			
CO2	**X**			**X**			
CO3	**X**			**X**			

GITAM School of Physiotherapy							
Name of the Program	Bachelor of Physiotherapy						
Course Title	Fundamentals of Yoga – Theory and Practice						
Course Code							
Semester / Academic year	Semester 6; Year 3						
Number of Credits	Theory -1; Practical - 1						
Course Prerequisite	Basic knowledge on Anatomy and Physiology and Exercise Therapy						
Course Synopsis	This course will provide the student the understanding of fundamentals of yoga therapy and help them to relate the principles of Yoga with exercise therapy						
Course Objective	To impart knowledge and understanding of YOGA and its application in exercise prescription.						
Course Outcomes (COs): **At the end of the course student shall be able to:**							
CO1	Explain philosophy and concepts of Yoga (C2)						
CO2	Display Yoga Postures and explain their benefits, precautions and contraindications (C2, P4)						
Mapping of Course Outcomes (COs) to Program Outcomes (POs):							
COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**
CO1	**X**						
CO2	**X**						

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Differential Diagnosis and Clinical Reasoning
Course Code	
Semester / Academic year	Semester VII; Year 4
Number of Credits	2 Credits (Theory)
Course Prerequisite	Comprehensive knowledge of Clinical Neurosciences, Clinical Orthopaedics, General Medicine and General Surgery
Course Synopsis	The course, Differential Diagnosis and Clinical Reasoning, over the fourth year is designed to give the student an in-depth knowledge about Differential diagnosis of neurological and musculoskeletal system.
Course Objective	To impart knowledge, understanding and hands on practice to perform various tests to differentially diagnose common neurological and musculoskeletal system disorders.
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Understand the importance of differential diagnosis in the clinical assessment
CO2	Incorporate differential diagnosis in Neurological evaluation
CO3	Incorporate differential diagnosis in Musculoskeletal evaluation
CO4	utilize the knowledge of differential diagnosis in diagnosis and plan of management in Neurological conditions
CO5	utilize the knowledge of differential diagnosis in diagnosis and plan of management in Musculoskeletal conditions

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**			**X**			
CO2	**X**			**X**			
CO3	**X**			**X**			
CO4	**X**			**X**			
CO5	**X**			**X**			

GITAM School of Physiotherapy							
Name of the Program		Bachelor of Physiotherapy					
Course Title		Research data collection					
Course Code							
Semester / Academic year		Semester 7; Year 4					
Number of Credits		2 (Practical), 1 (Clinical)					
Course Prerequisite		The student should have basic knowledge on search strategies in databases, research methods and should have proposed a research protocol					
Course Synopsis		This course introduces common terminologies used in health care research and biostatistics. The student will be guided to identify a research question relevant to the field of physiotherapy, formulate a research protocol and apply for approval from relevant regulatory authorities based on research questions and methods adopted.					
Course Objective		To provide opportunity and hands on experience for research data collection methods.					
Course Outcomes (COs): **At the end of the course student shall be able to:**							
CO1		Displays data collection and organizes the data for future purposes (C3, P4, A3)					
Mapping of Course Outcomes (COs) to Program Outcomes (POs):							
COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**
CO1		**X**	**X**	**X**	**X**		

Eighth Semester-B.P.T

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Community medicine
Course Code	
Semester / Academic year	Semester viii; Year 4
Number of Credits	Credits 3(theory)
Course Prerequisite	Basic Knowledge (Pre-University level) of Biology, Physics and Chemistry
Course Synopsis	- In this course, the students will learn to demonstrate an understanding of various aspects of health and disease, list the methods of health administration, health education and disease preventive measures
Course Objective	1)To familiarize the learner with basic principles of health and disease 2) To make learner understand about various peventive measures of disesases for overall golbal health
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Understand the basic concept of Health & Disease, Epidemiology, Socio-Economic & Cultural Issues related to Morbidity owing to the Physical Disability , (C2).
CO2	Infer the basics of Demography and Family Planning, Occupational Health, Hospital waste management (C2)
CO3	Elaborate on Disaster Management, Health Education, Mental Health, Nutrition and Health, Health programmes in India (C2).

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**			**X**			
CO2	**X**			**X**			

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Physiotherapy in Community
Course Code	
Semester / Academic year	Semester VIII; Year 4
Number of Credits	Credits 3(theory)
Course Prerequisite	Basic Knowledge (Pre-University level) of Biology, Physics and Chemistry
Course Synopsis	- In this course, the students will learn the general concepts about health, disease and physical fitness, physiology of aging process and its influence on physical fitness, national policies for the rehabilitation of disabled – role of PT. The strategies to access prevalence and incidence of various conditions responsible for increasing morbidity in the specific community – role of PT in improving morbidity, expected clinical and functional recovery, reasons for non-compliance in specific community environment solution for the same. .
Course Objective	To impart theoritical knowledge on health care delivery systems, global health parameters and community health rehabilitation in terms of reintegration into society
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Understand the basic concept of CBR, Geriatrics, Industrial Health(C2).
CO2	Infer the basics of Fitness and Health Promotions, Principles of Community based Rehabilitation, Disability(C2)
CO3	Demonstrate disability evaluation, physiotherapy prescription techniques for musculoskeletal, neuromuscular, cardio- respiratory, pediatric, gynecological and geriatric problems in community (C2, P1).
CO4	Demonstration of evaluation and prescription techniques for ambulatory and assistive devices, Fabrication of low-cost assistive devices with locally available materials (C1, P3)

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**			**X**			
CO2	**X**			**X**			
CO3	**X**			**X**			
CO4	**X**			**X**			

GITAM School of Physiotherapy							
Name of the Program	Bachelor of Physiotherapy						
Course Title	Physiotherapy Practice in Community						
Course Code							
Semester / Academic year	Semester VIII; Year 4						
Number of Credits	Credits 2(practical)						
Course Prerequisite	Basic Knowledge (Pre-University level) of Biology, Physics and Chemistry						
Course Synopsis	- In this course, the student will be able to identify rehabilitation methods to prevent disabilities and dysfunctions due to various disease conditions and plan and set treatment goals and apply the skills gained in rehabilitating and restoring functions in a community setup. The major topics for this course are physiotherapy assessment and management in terms of community health which may include musculoskeletal, neuromuscular, cardio-respiratory, pediatric, gynecological and geriatric problems in community setup.						
Course Objective	To provide in depth hands on experience for formulation of holistic rehabilitation protocols related to disability eradication and various treatment strategies for better quality of life keeping community reintergation as one of the major goal						
Course Outcomes (COs): **At the end of the course student shall be able to:**							
CO1	Perform a comprehensive physiotherapy assessment for various conditions in a community.						
CO2	Plan a design appropriate goals for physiotherapy treatment in various conditions in a community.						
CO3	Demonstrate disability evaluation, physiotherapy prescription techniques for musculoskeletal, neuromuscular, cardio- respiratory, pediatric, gynecological and geriatric problems in community.						
CO4	Implement physiotherapy approaches based on the concept of CBR.						
CO5	Perform a comprehensive developmental screening of a child in a community setup.						
Mapping of Course Outcomes (COs) to Program Outcomes (POs):							
COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**
CO1	**X**			**X**			
CO2	**X**			**X**			
CO3	**X**			**X**			
CO4	**X**			**X**			
CO5	**X**			**X**			

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Physiotherapy in Women's Health
Course Code	
Semester / Academic year	Semester VIII/ Year 4
Number of Credits	1 Credit (Theory)
Course Prerequisite	Knowledge of medical and surgical conditions specific to females
Course Synopsis	In this course , the students will be able to learn and understand the various physiotherapy techniques designed to treat conditions related to women's health.
Course Objective	1. To educate students about detailed physiotherapy assessment in various Gynaecological & obstetric conditions 2. To impart knowledge regarding various physiotherapy treatments in specific Gynaecological & obstetric conditions
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Explain the physiotherapy treatment of various obstetric and gynaecological conditions affecting females (C2)
Mapping of Course Outcomes (COs) to Program Outcomes (POs):	

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	X	X	X	X		X	

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Physiotherapy Clinical Practice in Women's health
Course Code	
Semester / Academic year	Semester VIII/ Year 4
Number of Credits	1 Credits (Practical)
Course Prerequisite	Knowledge of medical and surgical conditions specific to females
Course Synopsis	In this course , the students will be able to perform various physiotherapy techniques designed to treat conditions related to women's health.
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Performs comprehensive evaluation and Physiotherapy treatment for f conditions related to women's health. (C2, P4, A2)
Mapping of Course Outcomes (COs) to Program Outcomes (POs):	

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	X	X	X	X		X	

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	EXERCISE PHYSIOLOGY
Course Code	
Semester / Academic year	8th semester, 4th year
Number of Credits	2 Theory credits
Course Prerequisite	Prior knowledge of biochemistry and exercise therapy
Course Synopsis	The purpose of this course is to increase the student's knowledge and understanding about human physiology and the adaptations that occur during exercise. In this course the student gains understanding of how the body responds to acute and chronic exercise. Emphasis is placed on bioenergetics as well as circulatory, respiratory and neuromuscular responses to the physical stress of exercise.The effects of environmental factors and ergogenic aids on athletic performance are also discussed in this course.
Course Objective	To increase the student's knowledge and understanding about human physiology and the adaptations that occur during exercise.
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Discuss the bioenergetics of exercise training
CO2	Discuss the endocrine responses to resistance training
CO3	Summarize the adaptations to aerobic endurance training programs
CO4	Discuss the age and sex related differences and their implications for resistance training
CO5	Discuss the nutritional factors which improve performance and also discuss on other performance enhancing substances

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	X	X		X		X	
CO2	X	X		X		X	
CO3	X	X		X		X	
CO4	X	X		X		X	
CO5	X	X		X		X	

GITAM School of Physiotherapy							
Name of the Program	Bachelor of Physiotherapy						
Course Title	PT IN SPORT, HEALTH PROMOTION AND FITNESS						
Course Code							
Semester / Academic year	8th semester, 4th year						
Number of Credits	2						
Course Prerequisite	Prior knowledge in biochemistry, exercise therapy, clinical orthopedics and musculoskeletal sciences						
Course Synopsis	The students will be able to plan the sport specific rehabilitation strategies for athletes and therapeutic interventions for prevention of non communicable diseases						
Course Objective	To improve understanding of prevention & treating sport injuries and promoting health and fitness						
Course Outcomes (COs): **At the end of the course student shall be able to:**							
CO1	Explain the sport specific rehabilitation strategies for athletes and therapeutic interventions for prevention of non communicable diseases (C2)						
Mapping of Course Outcomes (COs) to Program Outcomes (POs):							
COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**
CO1	**X**			**X**			

GITAM School of Physiotherapy							
Name of the Program	Bachelor of Physiotherapy						
Course Title	Physiotherapy practice IN SPORT, HEALTH PROMOTION AND FITNESS						
Course Code							
Semester / Academic year	8th semester, 4th year						
Number of Credits	2 (P)						
Course Prerequisite	Prior knowledge in biochemistry, exercise therapy, clinical orthopedics and musculoskeletal sciences						
Course Synopsis	The students will be able to perform sport specific rehabilitation strategies for athletes and hands on therapeutic interventions for prevention of non communicable diseases						
Course Objective	To implement hands on skill in preventing & treating sport injuries and promoting health and fitness						
Course Outcomes (COs): **At the end of the course student shall be able to:**							
CO1	Performs techniques for sports specific rehabilitation and prevention of non communicable diseases (C2, P4, A2)						
Mapping of Course Outcomes (COs) to Program Outcomes (POs):							
COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**
CO1	**X**	**X**	**X**	**X**		**X**	

GITAM School of Physiotherapy							
Name of the Program	Bachelor of Physiotherapy						
Course Title	Administration, Management & Leadership Skills						
Course Code							
Semester / Academic year	8th Semester / 4th year						
Number of Credits	3 Credits (Theory)						
Course Prerequisite	comprehensive knowledge about physiotherapy, Ethics and Professionalism in physiotherapy and health informatics						
Course Synopsis	The students will learn the methods to administer and manage a rehabilitation team and facilitate effective delivery of physiotherapy health care in an interdisciplinary approach.						
Course Objective	To familiarize the students on different aspects of management and leadership						
Course Outcomes (COs): **At the end of the course student shall be able to:**							
CO1	Explains the various approaches for effective administration of a rehabilitation team. (C2)						
CO2	Describe the roles of Effective leader and manager for a rehabilitation team (C2)						
Mapping of Course Outcomes (COs) to Program Outcomes (POs):							
COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**
CO1	**X**	**X**	**X**	**X**	**X**		**X**
CO2	**X**	**X**	**X**	**X**	**X**		**X**

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Technology in Rehabilitation
Course Code	
Semester / Academic year	VIII / IV
Number of Credits	2
Course Prerequisite	students should have had comprehensive knowledge on Biomechanics, Exercise therapy, General medicine, general surgery, orthopaedics, neurology clinical and physiotherapy management.
Course Synopsis	This course Technology in Rehabilitation gives an insight to students on how the evolving technology can be utilised in physiotherapy and rehabilitation.
Course Objective	To acquaint learner on the current technology available for diagnosis and treatment of various neurological,musculoskeletal, medical and surgical conditions in rehabilitation.
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Define technology and recall its evolution and its advantages in rehabilitation. Also students should be able to apply the few available technologies and demonstrate the understanding of the remaining.
CO2	Develop the implementation of the available technology in musculoskeletal conditions.
CO3	Develop the implementation of the available technology in neurological conditions.
CO4	Utilise the available technology in rehabilitation of various post general surgical conditions, post cardiac and pulmonary invasive procedures, post burns, cancer, psychiatric conditions like PTSD, dementia, psychosomatic conditions etc..

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	X	X	X			X	
CO2	X	X	X			X	
CO3	X	X	X			X	
CO4	X	X	X			X	

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Geriatric Physiotherapy
Course Code	
Semester / Academic year	Semester VIII; Year 4
Number of Credits	2 Credits (Theory)
Course Prerequisite	Comprehensive knowledge of Clinical Neurosciences, Clinical Orthopaedics, General Medicine and General Surgery
Course Synopsis	The course, Geriatric Rehabilitation, over the Fourth year is designed to give the student an in-depth knowledge about Physiotherapy assessment and physiotherapy Goal setting for the management of a Geriatric Patient. These will include the impact of aging on different systems e.g. (the cardiovascular, pulmonary, the Musculoskeletal, and the central and peripheral nervous systems). This course will provide the student with the components of a patient medical history and principle of geriatric assessment according to the International Classification of Functioning, Disability and Health (ICF).
Course Objective	To introduce learner to the effects of ageing on various structures and functions of the human body, physiotherapy evaluation of common geriatric conditions and physiotherapy goal setting for the treatment of a geriatric patient.
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Identify the demographic trends affecting mortality and morbidity in the aging population.
CO2	Discuss the physiological changes that occur with aging on different systems.
CO3	Explain principle and concept of geriatric assessment including the International Classification of Functioning, Disability and Health (ICF).
CO4	Design a therapeutic plan for any selected case among elderly with prioritized problem (s), prioritized SMART goals, justified physical therapy modalities, and rational outcome measure (s) and suitable time frame according to relevant articles.
CO5	Select the precautions and modifications that are necessary for exercise and the use of modalities for the geriatric patient.

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	X						
CO2	X						
CO3	X			X			
CO4	X		X			X	
CO5	X		X			X	

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Research report
Course Code	
Semester / Academic year	Semester 8; Year 4
Number of Credits	1 (Theory), 2 (Practical)
Course Prerequisite	The student should have been collecting the research data
Course Synopsis	This course provides an opportunity for the students to analyse the research data collected and prepare a research report for dissemination.
Course Objective	To prepare the Physiotherapy students with aptitude to critically appraise the scientific literature before implementation in clinical practice through experience of data analysis and scientific reporting process.
Course Outcomes (COs): **At the end of the course student shall be able to:**	
CO1	Apply principles of scientific writing while making a research report for dissemination (C3, P4)
CO2	Perform data collection, organize, and analyse to summarize the research findings (C4, P4, A3)

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	PO1	PO2	PO3	PO4	PO5	PO6	PO7
CO1	**X**	**X**					
CO2		**X**		**X**		**X**	

GITAM School of Physiotherapy	
Name of the Program	Bachelor of Physiotherapy
Course Title	Clinical Internship
Course Code	
Semester / Academic year	Semester 9; Year 5
Number of Credits	24
Course Prerequisite	The student must have acquired all credits from previous eight semesters to be eligible to enrol for the Internship.
Course Synopsis	This course will be conducted through various clinical postings in different health care settings. The students will have rotatory clinical postings, evenly distributed through different areas of physiotherapy for practice under supervision of qualified faculty. The key skills nurtured through the course will include ethical practice, effective professional communication, evidence based Physiotherapeutic assessments and interventions, ensuring safety of clients and therapist (self).
Course Objective	To provide opportunity for implementing gained knowledge, skill and attitudes relevant to physiotherapists through the curriculum under minimum supervision
Course Outcomes (COs): **At the end of the course, student shall be able to:**	
CO1	Demonstrate assessment of patients with critical thinking for problem solving in various medical and surgical conditions while ensuring safety of clients and self (C4, P4, A3)
CO2	Develop and perform evidence-based treatment for patient with different abilities, medical and surgical conditions while ensuring safety of clients and self (C3, P4, A2)
CO3	Demonstrate cultural sensitivity through ethical practice, and professional etiquettes (C3, P4, A3)
CO4	Display leadership qualities, teamwork with the healthcare professionals, clients, and caregivers (C3, P4, A3)

Mapping of Course Outcomes (COs) to Program Outcomes (POs):

COs	**PO1**	**PO2**	**PO3**	**PO4**	**PO5**	**PO6**	**PO7**
CO1	**X**			**X**			
CO2	**X**					**X**	
CO3			**X**		**X**		
CO4		**X**					**X**

FACULTY OF PHYSIOTHERAPY			Scheme						Theory						Practical								
B.P.T (2021-25)									Internal					End Sem	Internal					End Sem			
Semester/ Year	Subject Code	COURSE TITLE	Credits	course type	Max. Marks Continuous Evaluation	Max. marks Semester end Examination	Cumulative Maximum for compilation of result	Passing marks for cumulative maximum (45%)	Participation	Midterm	Assignment	Quiz	Project/Seminar	Max	Participation	Lab Work/Log Book	Midterm	Case presentation/viva-voce	Max	Demonstration/Presentation	Viva-voce	Max
Semester I	PHTY1001	Human Anatomy - I	4	T	50	50	150	68	5	25	5	10	5	50	-	-	-	-	-	-	-	-
	PHTY1001P	Human Anatomy - I (P)	2	P	25	25									5	0	15	5	25	20	5	25
	PHTY1011	Human Physiology - I	4	T	50	50	100	45	5	25	5	10	5	50	-	-	-	-	-	-	-	-
	PHTY1021	Biochemistry	2	T	50	50	150	68	5	25	5	10	5	50	-	-	-	-	-	-	-	-
	PHTY1021P	Biochemistry (P)	1	P	25	25			-	-	-	-	-	-	5	0	15	5	25	20	5	25
	PHTY1031	Sociology	2	T	50	25	75	34	5	25	5	10	5	50	-	-	-	-	-	-	-	-
	PHTY1041	Introduction to Physiotherapy and Healthcare	2	TP	100	NA	100	45	5	25	5	10	5	-	10	0	30	10	50	-	-	-
	PHTY1051	Introduction to Research and Evidence; Learning	1	T	50	NA	50	23	5	25	5	10	5	-	-	-	-	-	-	-	-	-
	CSEN1001	IT Productivity Tools	1	P	100	NA	100	45														
	LANG1011	English / Foreign language	1	P	100	NA	100	45														
	PHTY1071	Community Orientation & Clinical Visit	1	P	50	NA	50	23	-	-	-	-	-	-	20	10	0	20	50	-	-	-
Semester II	PHTY1081	Human Anatomy - II	3	T	50	50	150	68	5	25	5	10	5	50	-	-	-	-	-	-	-	-
	PHTY1081P	Human Anatomy-II P	2	P	25	25			-	-	-	-	-	-	5	0	15	5	25	20	5	25
	PHTY1091	Human Physiology - II	4	T	50	50	150	68	5	25	5	10	5	50	-	-	-	-	-	-	-	-
	PHTY1091P	Human Physiology - II P	1	P	25	25			-	-	-	-	-	-	5	0	15	5	25	20	5	25
	PHTY1101	General Psychology and Clinical Psychology	3	T	50	50	100	45	5	25	5	10	5	50	-	-	-	-	-	-	-	-
	PHTY1111	Biophysics	1	T	50	50	150	68	5	25	5	10	5	50	-	-	-	-	-	-	-	-
	PHTY1111P	Biophysics (P)	1	P	25	25			-	-	-	-	-	-	5	0	15	5	25	20	5	25
	PHTY1121	Foundations of Exercise Therapy	4	TP	100	NA	100	NA	5	25	5	10	5	NA	10	0	30	10	50	-	-	-
	VEDC1001	Venture Discovery	1	T	100	NA	100	NA						NA								
	PHTY1131	Clinical Observation	1	P	50	NA	50	NA	-	-	-	-	-	NA	20	10	0	20	50	-	-	-
	ENVS1001	Environmental Sciences and Sustainability	1	T	100	NA	100	NA						NA								
Semester III		Pathology and Microbiology	4	T	50	50	150	68	5	25	5	10	5	50	-	-	-	-	-	-	-	-
		Pathology and Microbiology (P)	1	P	25	25			-	-	-	-	-	-	5	0	15	5	25	20	5	25
		Pharmacology	3	T	50	50	100	45	5	25	5	10	5	50	-	-	-	-	-			
		Biomechanics and Kinesiology	4	T	50	50	100	45	5	25	5	10	5	50	-	-	-	-	-			
		Practical in Biomechanics and Kinesiology	1	P	50	50	100	45	-	-	-	-	-	-	10	0	30	10	50	40	10	50
		Theoretical concepts in Exercise Therapy -I	3	T	50	50	100	45	5	25	5	10	5	50	-	-	-	-	-	-	-	-
		Practical in Exercise Therapy - I	2	P	50	50	100	45	-	-	-	-	-	-	10	0	30	10	50	40	10	50
		Health Informatics and Clinical Observation	2	T	100	NA	100	45	5	25	5	10	5	-	20	10	0	20	50	-	-	-
		Gandhian Studies and Constitution	1	T	100	NA	100	45														
Semester IV		Basics in Patient Handling Techniques and	3	T	50	50	100	45	5	25	5	10	5	50	-	-	-	-	-	-	-	-
		Practical in Patient Handling Techniques and	2	P	50	50	100	45	-	-	-	-	-	-	10	0	30	10	50	40	10	50
		Theoretical concepts in Electrotherapy	3	T	50	50	100	45	5	25	5	10	5	50	-	-	-	-	-			
		Practical in Electrotherapy	4	P	50	50	100	45	-	-	-	-	-	-	10	0	30	10	50	40	10	50
		Theoretical concepts in Physical and Functional Diagnosis and Outcome Measures	3	T	50	50	100	45	5	25	5	10	5	50	-	-	-	-	-	-	-	-
		Practical in Physical and Functional Diagnosis	3	P	50	50	100	45	-	-	-	-	-	-	10	0	30	10	50	40	10	50
		Ethics and Professionalism	1	T	100	NA	100	45	5	25	5	10	5	50	-	-	-	-	-	-	-	-
		Introduction to Evidence Based Practice	2	T	100	NA	100	45	5	25	5	10	5	50	-	-	-	-	-	-	-	-
		Clinical observation and Practice	2	P	50	NA	50	23	-	-	-	-	-		20	10	0	20	50			
semester V		Clinical Orthopedics &Traumatology	4	T	50	50	100	45	5	25	5	10	5	50	-	-	-	-	-	-	-	-
		Clinical Neurology & Neurosurgery	4	T	50	50	100	45	5	25	5	10	5	50	-	-	-	-	-	-	-	-
		General Medicine & Psychiatry	4	T	50	50	100	45	5	25	5	10	5	50	-	-	-	-	-	-	-	-
		General Surgery , Burns and Plastic Surgery	4	T	50	50	100	45	5	25	5	10	5	50	-	-	-	-	-	-	-	-
		Clinical Investigations and Radio Diagnosis	50	T	100	NA	100	45	5	25	5	10	5	-	-	-	-	-	-	-	-	-
		Evaluative Clinical Practice and Clinical	6	P	50	NA	50	23	-	-	-	-	-	-	10	0	30	10	50	-	-	-
		Open elective -1	1	T	100	NA	100	45														

SEMESTER VII		Physiotherapy in Musculoskeletal Sciences -I	3	T	50	50	100	45	5	25	5	10	5	50	-	-	-	-	-	-	-	-
		Physiotherapy in Neurological Sciences and	3	T	50	50	100	45	5	25	5	10	5	50	-	-	-	-	-	-	-	-
		Cardioplumonary Physiotherapy in Medical and	3	T	50	50	100	45	5	25	5	10	5	50	-	-	-	-	-	-	-	-
		Physiotherapy Clinical Practice in	2	P	50	50	100	45	-	-	-	-	-	-	10	0	30	10	50	40	10	50
		Physiotherapy Clinical Practice in Neurological	2	P	50	50	100	45	-	-	-	-	-	-	10	0	30	10	50	40	10	50
		Clinical Practice in Cardio vascular and	2	P	50	50	100	45	-	-	-	-	-	-	10	0	30	10	50	40	10	50
		Patient Safety and Qualty in Health care	2	TP	100	NA	100	45	5	25	5	10	5	-	10	0	30	10	50	-	-	-
		Introduction to Research Methods, Biostatistics	4	T	100	NA	100	45	10	50	10	20	10	-	-	-	-	-	-	-	-	-
		Program elective -I: Pain Sciences/ Balance	2	TP	100	NA	100	45	5	25	5	10	5	-	10	0	30	10	50	-	-	-
Semester VIII		Physiotherapy in Musculoskeletal Sciences -II	3	T	50	50	100	45	5	25	5	10	5	50	-	-	-	-	-	-	-	-
		Physiotherapy in Neurological Sciences and	3	T	50	50	100	45	5	25	5	10	5	50	-	-	-	-	-	-	-	-
		Cardioplumonary Physiotherapy in Medical and	3	T	50	50	100	45	5	25	5	10	5	50	-	-	-	-	-	-	-	-
		Physiotherapy Clinical Practice in	2	P	50	50	100	45	-	-	-	-	-	-	10	0	30	10	50	40	10	50
		Physiotherapy Clinical Practice in Neurological	2	P	50	50	100	45	-	-	-	-	-	-	10	0	30	10	50	40	10	50
		Clinical Practice in Cardio vascular and	2	P	50	50	100	45	-	-	-	-	-	-	10	0	30	10	50	40	10	50
		Fundamentals of Yoga - Theory & Practice	2	TP	100	NA	100	45	5	25	5	10	5	-	10	0	30	10	50	-	-	-
		Differential dignosis and clinical reasoning	2	T	100	NA	100	45	10	50	10	20	10	-	-	-	-	-	-	-	-	-
		Research data collection	3	TP	100	NA	100	45	5	25	5	10	5	-	10	0	30	10	50	-	-	-
Semester VIII		Community Medicine	3	T	50	50	100	45	5	25	5	10	5	50	-	-	-	-	-	-	-	-
		Physiotherapy in Community	3	T	50	50	100	45	5	25	5	10	5	50	-	-	-	-	-	-	-	-
		Physiotherapy Practice in Community	2	P	50	50	100	45							10	0	30	10	50	40	10	50
		Physiotherapy in Womens Health	1	T	50	50	100	45	5	25	5	10	5	50								
		Clinical Practice in Women's Health	1	P	50	50	100	45							10	0	30	10	50	40	10	50
		Exercise Physiology	2	T	50	50	100	45	5	25	5	10	5	50	-	-	-	-	-	-	-	-
		Physiotherapy in Sport, Health promotion and	2	T	50	50	100	45	5	25	5	10	5	50	-	-	-	-	-	-	-	-
		Physiotherapy Practice in Sport, Health	2	P	50	50	100	45	-	-	-	-	-	-	10	0	30	10	50	40	10	50
		Administration, Management and Leadership	3	T	100	NA	100	45	10	50	10	20	10	-	-	-	-	-	-	-	-	-
		Program Electives: Technology in rehabilitation/	2	TP	100	NA	100	45	5	25	5	10	5	-	10	0	30	10	50	-	-	-
		Research Report	3	TP	100	NA	100	45	5	25	5	10	5	-	10	0	30	10	50	-	-	-