

Program Structure Template

School of Allied Health Sciences Master of Physiotherapy (Orthopaedics)

Batch - (2019-21)

Program Code – SAH0112



1. Standard Structure of the Program at University Level

1.1 Vision, Mission and Core Values of the University

Vision of the University

To serve the society by being a global University of higher learning in pursuit of academic excellence, innovation and nurturing entrepreneurship.

Mission of the University

- 1. Transformative educational experience
- 2. Enrichment by educational initiatives that encourage global outlook
- **3.** Develop research, support disruptive innovations and accelerate entrepreneurship
- 4. Seeking beyond boundaries

Core Values

- Integrity
- Leadership
- Diversity
- Community



1.2 Vision and Mission of the School

Vision of the School

To steer the School of Allied Health Sciences towards excellence in academics, innovation and entrepreneurship by constant endeavors

Mission of the School

- To create the state of the art facility for quality teaching learning, research & innovation
- 2. To incorporate the contemporary standards in teaching & learning

3. To inculcate in the students values of integrity and compassion towards the care of patients and society.

Core Values

- **1.Critical Thinking and Observation**
- 2. Analytical Skills
- 3. Creativity
- 4. Skilled professional
- 5. Multidimensional
- 6. Compassion
- 7. Management



1.3 Programme Educational Objectives (PEO)

- PEO1: To gain knowledge of the human body related basic medical and physiotherapeutic sciences relevant to orthopaedics.
- PEO 2: To acquire the knowledge of movement dysfunction of human body and evidence based Physiotherapeutic management for the same.
- PEO 3: To develop skills in musculoskeletal physiotherapy assessment by relevant and current physiotherapeutic concepts.
- PEO4: To plan and implement appropriate Physiotherapeutic interventions for musculoskeletal conditions in acute and chronic phases, critical care, indoor and outdoor institutional care and independent practice.
- PEO 5: To develop skills as a self-directed learner, recognize continuous education needs, select and use appropriate learning resources.
- PEO 6: To develop ability to undertake research and teach undergraduate physiotherapy students.



1.3.2 Map PEOs with Mission Statements:

PEO Statements	School	School	School
	Mission 1	Mission 2	Mission 3
PEO1:	3	3	3
PEO2:	2	3	2
PEO3:	3	3	3
PEO4:	3	3	3
PEO5:	3	3	2
PEO6:	2	2	3

1. Slight (Low) 2. Moderate (Medium) 3. Substantial (High)



1.3.3 Program Outcomes (PO's)

- PO1. **Physiotherapy Knowledge:** The students will be able to possess knowledge and comprehension of the basic medicine and physiotherapeutic sciences relevant to orthopaedics.
- PO2. **Understanding**: Students will be able to understand the core concepts in Physiotherapy techniques.
- PO3. **Thinking ability:** Students will be able to develop the skills for musculoskeletal assessment in order to identify, examine and distinguish between various musculoskeletal conditions.
- PO4. **Application:** Students will be able to demonstrate and apply the technical skills to integrate the core areas of physiotherapy practice.
- PO5. **Planning:** Students will be able to design and formulate the treatment plan to address to the needs of patients safely and with appropriate regard to professional and ethical guidelines.
- PO6. Research: Students will be able to formulate and test a hypothesis.
- PO7. Communication: Graduates will have good leadership qualities and entrepreneur skills by

working and communicating effectively in interdisciplinary environment, either

independently or with a team.

Program Specific Outcomes (PSo's):

- PSO1: Students will be able to assess and design a treatment plan for patients with musculoskeletal conditions.
- PSO2: Students will be able to identify, select and apply advanced physiotherapy techniques for treatment purpose.
- PSO3: Students will be able to design and formulate research which will be beneficial for the advancement in higher studies.



	PEO1	PEO2	PEO3	PEO4	PEO5	PEO6
PO1	3	3	3	3	3	3
PO2	3	3	3	3	3	3
PO3	3	3	3	3	3	3
	3	3	3	3	3	3
PO4						
PO5	3	3	3	3	3	3
PO6	3	3	3	3	3	3
PO7	3	3	3	3	3	3
PSO1	3	3	3	3	3	3
PSO2	3	3	3	3	3	3
PSO3	3	3	3	3	3	3

1.3.4 Mapping of Program Outcome Vs Program Educational Objectives

1. Slight (Low)

2. Moderate (Medium)

3. Substantial (High)



1.3.5 Program Outcome Vs Courses Mapping Table¹:

Progra											
m Outco me Course	Course Name	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PSO 1	PSO 2	PSO 3
S 1 st Year											
Course 1.1	Research Methodology and Evidence Based Practice	2	2	2	2	2	3	2	2	2	3
Course 1.2	Basic Sciences and Biomechanics	3	3	2	2	2	2	2	2	2	2
Course 1.3	Physiotherapy Assessment and Clinical Decision Making (Theory)	3	3	3	3	2	2	3	3	2	3
Course 1.4	Advanced Physiotherapeutics(The ory)	3	3	3	3	3	2	3	2	3	3
Course 1.5	Physiotherapy Assessment and Clinical Decision Making (Practical)	3	3	3	3	2	2	3	3	2	3
Course 1.6	Advanced Physiotherapeutics(Prac tical)	3	3	3	3	3	2	3	2	3	3
Course 1.7	Journal Club and Clinical Case Presentation	3	2	2	3	2	3	2	2	2	3
2 ND Year											
Course 2.1	Pedagogy in Physiotherapy Education	2	2	2	2	1	2	3	2	2	2
Course 2.2	Administration, Management and Ethical Issues	1	1	2	2	2	3	3	2	2	3
Course 2.3	Musculoskeletal Physiotherapy I (Medical) Theory	3	3	2	2	3	2	3	2	3	3
Course 2.4	Musculoskeletal Physiotherapy	3	3	2	2	3	2	3	2	2	2

¹ Cel value will contain the correlation value of respective course with PO.

									S U	HAR	
	II (Surgical) Theory										
Course 2.5	Musculoskeletal Physiotherapy I (Medical) Practical	3	3	2	2	3	2	3	2	3	3
Course 2.6	Musculoskeletal Physiotherapy II (Surgical) Practical	3	3	2	2	3	2	3	2	2	2
Course 2.7	Journal Club and Clinical Case Presentation	3	2	2	3	2	3	2	2	2	3
Course 2.8	Dissertation	3	3	3	3	3	3	3	3	3	3



1.3.5.2COURSE ARTICULATION MATRIX²

Program													
Outcome Courses	Course code	Course Name		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO 1	PSO2	PSO3
Year-1													
Theory													
Course 1.1	MPT 111	Research Methodology and Evidence	G Q 1										
		Based Practice	CO1	3	3	3	3	3	3	3	3	3	3
			CO2	2	3	3	3	3	3	2	2	3	2
			CO3	2	2	3	3	3	3	3	3	3	3
			CO4	2	1	2	2	2	3	2	2	1	3
			CO5	1	2	2	2	2	3	3	1	2	3
Course 1.2	MPT 102	Basic Sciences and	601										
		Biomechanics	CO1	3	3	3	3	3	2	3	3	3	2
			CO2	3	3	3	2	3	3	3	3	2	3
			CO3	3	3	3	3	3	3	3	3	3	3
			CO4	3	2	3	3	3	2	2	3	2	2
			CO5	2	3	2	3	3	2	2	3	2	1
Course 1.3	MPT 103	Physiotherapy assessment and clinical decision											
		making (Theory)	CO1	3	3	2	3	3	3	2	3	3	3
			CO2	2	3	2	3	2	3	2	2	3	2
			CO3	2	2	3	3	2	3	2	3	3	2

² Each course outcome (Based on Blooms Taxanomy-CO1, CO2, CO3, CO4, CO5, and CO6) of the course needs to map with PO. This table evolves once faculty has mapped each course outcomes of their respective course with PO's.

												SHAR UNIVERS	DA SITY deries
			CO4	3	3	2	3	3	2	3	3	3	2
			CO5	3	3	3	3	3	2	3	3	3	2
Course 1.4		Advanced											
	MPT 104	Physiotherapeuti											
		cs	CO1	3	3	3	3	3	3	3	2	3	2
			CO2	3	3	3	3	3	3	3	3	3	3
			CO3	2	3	2	3	3	2	3	3	3	2
			CO4	3	2	3	3	3	2	2	3	3	2
Practical													
Course 2.1		Advanced											
	MPT 107	Physiotherapeuti											
		cs	CO1	3	3	3	3	3	3	3	2	3	2
			CO2	3	3	3	3	3	3	3	3	3	3
			CO3	2	3	2	3	3	2	3	3	3	2
			CO4	3	2	3	3	3	2	2	3	3	2
Course 2.2	MPT 106	Physiotherapy assessment and clinical decision											
		making	CO1	3	3	2	3	3	3	2	3	3	3
			CO2	2	3	2	3	2	3	2	2	3	2
			CO3	2	2	3	3	2	3	2	3	3	2
			CO4	3	3	2	3	3	2	3	3	3	2
			CO5	3	3	3	3	3	2	3	3	3	2
Course 2.3	MPT 105	Journal Club and Clinical Case											
		Presentation	CO1	3	3	3	3	3	3	3	3	3	3
			CO2	3	3	3	3	3	3	3	3	3	3
			CO3	3	3	3	3	3	3	3	3	3	3
			CO4	3	3	3	3	3	3	3	3	3	3
			CO5	3	3	3	3	3	3	3	3	3	3
Year 2													
Theory													
J		1		1	1	1	1		1	1	1	1	1

												SHAR UNIVERS	DA SITY daries
Course 3.1		Pedagogy in											
	MPT 221	Physiotherapy											
		Education	CO1	2	3	3	3	3	2	2	2	3	2
			CO2	3	3	3	3	3	2	2	3	3	3
			CO3	1	1	2	2	2	1	3	1	1	2
			CO4	1	1	2	2	2	1	3	1	1	2
			CO5	1	1	2	2	2	1	3	1	1	2
Course 3.2		Administration,											
	MPT 202	Management and Ethical											
		Issues	CO1	3	3	3	3	2	2	3	2	3	3
			CO2	3	3	3	2	3	3	3	3	3	3
			CO3	2	2	3	2	2	2	3	2	1	2
			CO4	2	2	3	2	2	2	3	2	1	3
			CO5	2	2	3	2	2	2	3	2	1	3
Course 3.3	MPT 237	Musculoskeletal Physiotherapy I											
		(Medical)	CO1	3	3	3	3	3	3	3	2	3	2
			CO2	3	3	3	3	3	3	2	3	3	3
			CO3	3	3	2	3	3	3	3	3	3	3
			CO4	2	2	3	3	3	2	3	3	3	2
			CO5	3	1	3	3	2	2	2	3	3	2
Course 3.4	MPT 238	Musculoskeletal Physiotherapy II											
		(Surgical)	CO1	3	3	3	3	3	3	3	2	3	2
			CO2	3	3	3	3	3	3	2	3	3	3
			CO3	3	3	2	3	3	2	3	3	3	2
			CO4	3	3	2	3	3	2	3	3	3	2
			CO5	3	3	2	3	3	2	3	3	3	2
Practical						-			-				
Course 4.1	MPT 205	Journal Club and	CO1	3	3	3	3	3	3	3	3	3	3

												SHAR UNIVERS	DA SITY daries
		Clinical Case											
		Presentation											
			CO2	3	3	3	3	3	3	3	3	3	3
			CO3	3	3	3	3	3	3	3	3	3	3
			CO4	3	3	3	3	3	3	3	3	3	3
			CO5	3	3	3	3	3	3	3	3	3	3
Course 4.2	MPT 206	Dissertation	CO1	3	3	3	3	3	3	3	3	3	3
			CO2	3	3	3	3	3	3	3	3	3	3
			CO3	3	3	3	3	3	3	3	3	3	3
			CO4	3	3	3	3	3	3	3	3	3	3
			CO5	3	3	3	3	3	3	3	3	3	3
Course 4.3	MPT 207	Musculoskeletal Physiotherapy I											
	WIF 1 207	(Medical)	CO1	3	3	3	3	3	3	3	2	3	2
		(Medical)	CO1 CO2	3	3	3	3	3	3	2	3	3	3
			CO2 CO3	3	3	2	3	3	3	3	3	3	3
			CO3	2	2	3	3	3	2	3	3	3	2
			C04	3	1	3	3	2	2	2	3	3	2
Course 4.4		Musculoskeletal	05	5	1	5	5	2	2	2	5	5	
	MPT 208	Physiotherapy II											
		(Surgical)	CO1	3	3	3	3	3	3	3	2	3	2
			CO2	3	3	3	3	3	3	2	3	3	3
			CO3	3	3	2	3	3	2	3	3	3	2
			CO4	3	3	2	3	3	2	3	3	3	2
			CO5	3	3	2	3	3	2	3	3	3	2

1. Slight (Low)

2. Moderate (Medium)

3. Substantial (High)



Program Structure Template School of Allied Health Sciences MPT(Orthopaedics) Batch: 2019-21 YEAR: I Year

S.	Paper ID	Subject	Subjects]	eaching	Load		Core/Elective	Type of Course ³ :
No.		Code		L	Т	Р	Hours/Week	Pre-Requisite/ Co Requisite	1. CC 2. AECC 3. SEC 4. DSE
THE	ORY SUBJ	ECTS							
1.	35395	MPT 111	Research Methodology and Evidence Based Practice	2	0	0	2	Core	CC
2.	7926	MPT 102	Basic Sciences and Biomechanics	2	0	0	2	Core	CC
3.	7928	MPT 103	Physiotherapy Assessment and Clinical Decision Making	2	0	0	2	Core	CC, AECC
4.	7929	MPT 104	Advanced Physiotherapeutics	2	0	0	2	Core	CC, AECC, SEC
Practi	cal/Viva-V	oce/Jury							
5.	7930	MPT 105	Journal Club and Clinical Case Presentation	0	0	4	4	Core	CC, AECC
6.	35396	MPT 106	Physiotherapy Assessment and Clinical Decision Making	0	0	2	2	Core	CC, SEC
7.	35397	MPT 107	Advanced Physiotherapeutics	0	0	2	2	Core	CC, SEC
8.	35398	MPT 108	Clinical Training	0	0	24	24	Co-requisite	SEC
			TOTAL HOURS/WEEK				40		

³ CC: Core Course, AECC: Ability Enhancement Compulsory Courses, SEC: Skill Enhancement Courses, DSE: Discipline Specific Courses



Program Structure Template School of Allied Health Sciences MPT(Orthopaedics) Batch: 2019-21 YEAR: II Year

S.	Paper ID	Subject	Subjects	Т	eaching	Load		Core/Elective	Type of Course ⁴ :
No.		Code		L	Т	Р	Hours/ Week	co requisite	1. CC 2. AECC 3. SEC 4. DSE
THEC	ORY SUBJI	ECTS							
1.	35399	MPT 221	Pedagogy in Physiotherapy Education	1	0	0	1	Core	CC
2.	35400	MPT 202	Administration, Management and Ethical Issues	1	0	0	1	Core	CC, AECC
3.	35401	MPT 237	Musculoskeletal Physiotherapy I (Medical)	3	0	0	3	Core	CC, AECC
4.	35402	MPT 238	Musculoskeletal Physiotherapy II (Surgical)	3	0	0	3	Core	CC, AECC
Praction	cal/Viva-Voc	ce/Jury	•					·	
1.	35405	MPT 207	Musculoskeletal Physiotherapy I (Medical)	0	0	2	2	Core	CC, AECC, SEC
2.	35406	MPT 208	Musculoskeletal Physiotherapy II (Surgical)	0	0	2	2	Core	CC, AECC, SEC
3.	7939	MPT 205	Journal Club and Clinical case Presentation	0	0	4	4	Core	CC, AECC
4.	7940	MPT 206	Dissertation	0	0	4	4	Core	CC
8.	35407	MPT 230	Clinical Training	0	0	20	20	Co-requisite	SEC
	ıl		TOTAL HOURS/WEEK	1		1	40		

⁴ CC: Core Course, AECC: Ability Enhancement Compulsory Courses, SEC: Skill Enhancement Courses, DSE: Discipline Specific Courses



Table 1. Evaluation Scheme for MPT (Orthopaedics)-I year University examination

S. No.	Paper ID	Subject Code	Subjects	Internal Assessment	Oral (Viva voce)	University examination	Total marks
THEOR	Y SUBJI	ECTS				-	
1	35395	MPT 111	Research Methodology and Evidence Based Practice	20	N/A	80	100
2	7926	MPT 102	Basic Sciences and Biomechanics	20	N/A	80	100
3	7928	MPT 103	Physiotherapy Assessment and Clinical Decision Making	20	N/A	80	100
4	7929	MPT 104	Advanced Physiotherapeutics	20	N/A	80	100
PRACT	ICAL SU	BJECTS					
1	7930	MPT 105	Journal Club and Clinical Case Presentation	50	N/A	N/A	50
2	35396	MPT 106	Physiotherapy Assessment and Clinical Decision Making	20	N/A	80	100
3	35397	MPT 107	Advanced Physiotherapeutics	20	N/A	80	100
4	35398	MPT 108	Clinical Training	N/A	N/A	N/A	N/A



Table 2. Evaluation Scheme for MPT (Orthopaedics)-II year University examination

S. No.	Paper ID	Subject Code	Subjects	Internal Assessment	Oral (Viva voce)	University examination	Total marks
THEOR	AY SUBJ	ECTS					
1	35399	MPT 221	Pedagogy in Physiotherapy Education	20	N/A	80	100
2	35400	MPT 202	Administration, Management and Ethical Issues	20	N/A	80	100
3	35401	MPT 237	Musculoskeletal Physiotherapy I (Medical)	20	N/A	80	100
4	35402	MPT 238	Musculoskeletal Physiotherapy II (Surgical)	20	N/A	80	100
PRACT	ICAL SU	JBJECTS					
1	35405	MPT 207	Musculoskeletal Physiotherapy I (Medical)	20	N/A	80	100
2	35406	MPT 208	Musculoskeletal Physiotherapy II (Surgical)	20	N/A	80	100
3	7939	MPT 205	Journal Club and Clinical case Presentation	50	N/A	N/A	50
4	7940	MPT 206	Dissertation	30	N/A	70	100
5	35407	MPT 230	Clinical Training	N/A	N/A	N/A	N/A



C. Course Templates



2.1 Template A1	Syllabus for Theory	Subjects (SAMPLE)
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-	ool: SAHS	Batch: 2019-21						
Prog	gram:	Current Academic Year: 2019-20						
MP	T(Orthopaedics)							
Bra	nch:							
1	Course Code	MPT 111						
2	Course Title	Research Methodology and Evidence Based Practice						
3	Hours/Week	2						
4	Contact Hours	2-0-0						
	(L-T-P)							
	Course Type	Compulsory						
5	Course Objective	1. To explain the basic concepts, terms and definitions used in health research.						
		2. To understand various types of research and formulate a question, hypothesis and related objectives.	a research					
		3. To understand the concepts of Biostatistics and its use in	n					
		Physiotherapy research and select best sampling method						
		chosen design and estimate sample size \cdot						
		4. Carry out simple analysis of collected data and interpret findings						
		appropriately ·						
6	Course	The student will be able to:						
	Outcomes	CO1. Understand the basic concepts, terms and definitions used in hea						
		research methodology						
		CO2. To acquire the skills of reviewing literature, formula						
		hypothesis, collecting data, writing research proposa						
		CO3. Describe the importance and use of Biostatistics for	research					
		work.	nagaanah					
		CO4: To identify different scales of measurement used in 1 CO5: To read published research critically and to know ho						
		Paper	w to publish a					
7	Course							
,	Description	This course is designed to develop the basic knowledge of resea	urch,					
	r	biostatistics which can be used to understand its special needs in						
		interventions in physiotherapy. The course will provide a cor						
		introduction to research proposal writing, research method	ologies, and					
		foundational research theories and protocols						
8	Outline syllabus		CO Mapping					
	Unit 1							
	А	Research in physiotherapy – Introduction,	CO1, CO2					
		Research for Physiotherapist: Why? How? And						
		When? Research – Definition, concept, purpose,						
		approaches, Internet sites for Physiotherapist						
		approaches, internet sites for i hystotherapist						
	В	Research Fundamentals, define measurement,	CO1, CO2,					
		······································	,,					

		SHARDA
	Measurement framework, Scales of measurement, Pilot Study, Types of variables, Reliability & Validity, Drawing Tables, graphs, master chart etc	CO4
С	Writing a Research Proposal, critiquing a research article, Defining a problem	CO1, CO2, CO5
Unit 2		
A	Review of Literature, formulating a question, Operational Definition, Inclusion & Exclusion criteria, Forming groups, Data collection & analysis, Results, Interpretation, conclusion, discussion, Informed Consent, Limitations	CO1, CO2
В	Research Design- Principle of Designing, Design, instrumentation & analysis for qualitative research, Design, instrumentation & analysis for quantitative research Design, instrumentation & analysis for quasi-experimental research, Design models utilized in Physiotherapy	CO1, CO2, CO3, CO4
С	Research Ethics- Importance of Ethics in Research, Main ethical issues in human subjects' research,Main ethical principles that govern research with human subjects Components of an ethically valid informed consent for research	CO1, CO2

		ethical principles that govern research with human subjects Components of an ethically valid informed consent for research	
	Unit 3		
	А	Biostatistics- Introduction, Definition, Types,	CO1, CO3,
		Application in Physiotherapy; Data –Definition, Types,	CO4
		Presentation, Collection methods	
	В	Measures of central value- Arithmetic mean, median,	CO1, CO3,
		mode. Relationship between them, Partitioned values-	CO4
		Quatertiles, Deciles, Percentiles, Graphical	
		determination	



		eyond Boundarie
С	Measures of Dispersion- Range, Mean Deviation, Standard Deviation, Normal Distribution Curve, Properties of normal distribution, Standard normal distribution, Transformation of normal random variables. Inverse transformation, Normal approximation of Bioaxial distribution.	CO1, CO2, CO3, CO4
Unit 4		
A	Correlation analysis- Bivariate distribution: Scatter Diagram, Coefficient of correlation, Calculation & interpretation of correlational coefficient, T-test, Z- test, P-value; Regression analysis- Lines of regression, Calculation of Regression coefficient	CO1, CO3, CO4
В	Sampling- Methods of Sampling, Sampling distribution, Standard error, Types I & II error, Probability (in Brief), Hypothesis Testing, Null Hypothesis, Alternative hypothesis, Acceptance & rejection of null Hypothesis, Level of significance	CO1, CO3, CO4
С	Parametric & non parametric tests- Chi square test, Mann-Whitney U test, Wilcoxon Signed test, Kruskal-Wallis test, Friednam test, T- test/student T test, Analysis of variance	CO1, CO3, CO4
Unit 5		
A	Evidence-based health care, evidence-based practices	CO1, CO2
В	evidence-based decision making and management	CO1, CO2
С	Types of evidence - Definition of evidence, Forms of evidence, randomized controlled trials, Case–control studies, Cohort studies	,
Mode of examination	Theory	
Weightage	CA ETE	
Distribution	20% 80%	
Text book/s*	 Recent Methods for Clinical Therapists: applied Project Design and analysis by Carolyn Hicks Elements of Research in Physical Therapy: Dean P. Currier Physical therapy Research: Principles and 	



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	Applications- Elizabeth Domholdt	
	4. Research Methology: Kothari, C.P.	
	5. Methods in Biostatistics: Mahajan B.K.	
	6. Martin Dawes, Philip Davies, and Alistair Gray,	
	Evidence–Based Practice: A Primer for Health Care	
	Professionals. Elsevier Publication	
Other	1. Albert R. Roberts and Kenneth R. Yeager, Evidence-	
References	Based Practice Manual: Research and Outcome	
	Measures in Health and Human Services, Oxford	
	University Press	
	2. Allen Rubin, Practitioner's Guide to Using Research	
	for Evidence–Based Practice. John Willey & Sons	
	Publication	

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
COs										
CO1	3	3	3	3	3	3	3	3	3	3
CO2	2	3	3	3	3	3	2	2	3	2
CO3	2	2	3	3	3	3	3	3	3	3
CO4	2	1	2	2	2	3	2	2	1	3
CO5	1	2	2	2	2	3	3	1	2	3

1-Slight (Low) 2-Moderate (Medium) 3-Substantial (High)



Sch	ool: SAHS	Batch: 2019-21	eyond Boundaries					
Pro	gram:	Current Academic Year: 2019-20						
MP	T(Orthopaedics)							
	nch:	I Year						
1	Course Code	MPT 102						
2	Course Title	Basic Sciences and Biomechanics						
3	Hours/Week	2						
4	Contact Hours	2-0-0						
	(L-T-P)							
	Course Type	Compulsory						
5	Course	1. To provide a detailed introduction on basic anatomy, phy	ysiology,					
	Objective	structure and function of the musculoskeletal system.						
	2. To educate the students about the concept of exercise phy							
	its applications.							
	3. To encourage the students to apply the exercise physiolog							
	in training and Physiotherapy.							
		4. To educate the students about the concepts of Biomechanic						
		use in Physiotherapy.						
6	Course	The student will be able to:						
	Outcomes	CO1: Knowledge on basic anatomy, physiology, structure a	and function of					
		the musculoskeletal systems.						
		CO2: Better understanding of physiology of exercise and e	nergy transfer					
		that allows humans to engage in physical activity.						
		CO3: Knowledge about basic concepts of biomechanics of						
		musculoskeletal structures with respect to physiother	1.0					
		CO4: To understand the physiological needs of training and	d					
		conditioning.						
		CO5: Assessment of biomechanical aspect of various dysfu	inctions					
7	Course	This course is designed to develop a anatomical knowledge	and clinical					
/	Description	application of Anatomy in Physiotherapy treatment. It also						
	Description	student to have a better understanding of the principles of t						
		and their application in musculoskeletal and various other						
		as well as knowledge of basic and applied exercise physiol						
			-81					
8	Outline syllabus		CO Mapping					
	Unit 1	Structure & function of the various components of						
		musculoskeletal system						
	А	•	CO1					
		Bone structure, blood supply, and growth; Cartilage,						
		Ligament, Muscle structure, functional & classification.						
		Origin, insertion, action and nerve supply, Major nerves						
		– Course, branches & distribution. Implication of nerve						



	injuries.	eyond Boundaries
	injuries.	
В	Joints – classification, structure of joints, movements, range, limiting factors, stability, blood supply, nerve supply, its applied anatomy.	CO1
С	Spine – Vertebral column development, structure, joints, muscles of back, applied and functional anatomy, brief description of Upper & lower extremity, abdomen, pelvis, head, neck and brain.	CO1
Unit 2		
A	Introduction to exercise physiology, Nutrition and Performance	CO2
В	Energy transfer, Measurement of human energy expenditure	CO2
C	Systems of energy delivery and utilization in Pulmonary system, Cardiovascular system, Musculoskeletal, Nervous System and Endocrine system	CO2
Unit 3	Applied Exercise Physiology	CO2
А	Aerobic power training, Anaerobic power training, Special aids in performance and conditioning	CO2
В	Exercise at different altitudes, Exercise at various climatic conditions, Sport diving	CO2
С	Obesity and weight control, Exercise and aging, Clinical exercise physiology	CO2
Unit 4	Kinematics and Kinetics	
A	Types of motion (accessory and joint play of axial and peripheral skeletal), Location of motion (instantaneous axis of movement, shifting axis of movement), Magnitude of motion (factors determining it), Direction of motion, Angular motion and its various parameters, Linear motion and its various parameters, Projectile motions	CO3
В	Kinetics, Definition of forces, Force vectors (composition, resolution, magnitude), Naming of Force (gravity and anti-gravity force,JFR), Force of gravity and COG, Stability, Reaction forces, Equilibrium &	CO3

		SHARDA
	balance, Linear forces system, Friction and its various parameters, Parallel force systems, Concurrent force systems, Work power and energy, Moment arms of force & its application, Force components, Equilibrium of force	eyona soundari
С	Mechanical energy, work and power, Definitions, Positive and Negative work of muscles, Muscle mechanical power, causes of inefficient movement: Co- contractions, Isometric contraction against gravity jerky movement, Energy generation at one joint and absorption at another, Energy flow and Energy system used by the body, Energy storage	CO3
Unit 5	Muscle, Joint, Ligament mechanics	
A	Structure and composition of muscle. Physiology of musculoskeletal systems, Fiber length and cross section area, Mechanical properties of various muscles, EMG changes during fatigue and contraction, Changes in mechanical and physiological properties because of ageing, exercise and immobilization, dystrophies and pathological conditions. Ligament & Tendon mechanics: -Structure and composition, Mechanical properties and physiological properties, Cross sectional area measurements, Muscle tendon properties, Temperature sensitivity, Changes in physical and mechanical properties because of aging, exercise and Immobilization and position, Mechanoreceptors, its types, distribution with respect to joint, structure and function, Clinical applications	CO3
В	Joint mechanics, Joint design, Joint categories, Joint function, Arthrokinematics, Osteokinematics, Kinematic chains , Open, Closed, Joint forces, equilibrium and distribution of these forces, Degenerative changes in weight bearing joints and compensatory actions, Joint stability and its mechanics, Clinical applications	CO3
С	Gait:- Normal gait and its parameters, Kinetics, Kinematics, Time-Space, Pathological gait	CO3

			SHARDA UNIVERSITY
	-	sis on polio, cerebral palsy,	
	• •	hemi paresis, Para paresis	
	-	r climbing, Changes in gait	
	-	arious surgeries/ diseases/	
	,	asic wheelchair skills and	
	assessment trai	ning, Transfer skill training	
Mode of examination	Theory		
Weightage	CA	ETE	
Distribution	20%	80%	
Text book/s*	1. Clinical Bime	echanics of the spine: White, Augus	tus
	2. Exercise Phy	ysiology by Mc Ardle, Katch &	Katch
	(Lippincott Will	liams and Wilkins,	
	-	siology:Exercise, Performance and	
		tions by A Roberts	
		omy for Medical Students	
		Medical Physiology	
		re and Function - A Comprehensive	
	Analysis 7 Clinical kines	siology by Brunnstrom	
Other		sology by bruilistion	
References			

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
COs										
CO1	2	2	2	3	2	2	З	2	2	2
	3	3	3	3	3	Z	3	3	3	Ζ
CO2	2	2	3	2	3	2	2	2	2	2
	5	5	5	Ζ	5	5	5	5	Ζ	3
CO3	3	3	3	3	3	3	3	3	3	3
CO4	3	2	3	3	3	2	2	3	2	2
CO5	2	3	2	3	3	2	2	3	2	1

1-Slight (Low) 2-Moderate (Medium) 3-Substantial (High)



Sch	ool: SAHS	Batch: 2019-21	Beyond Boundaries						
Pro	gram:	Current Academic Year: 2019-20							
	T(Orthopaedics)								
	nch:	I Year							
1	Course Code	MPT 103							
2	Course Title	Physiotherapy Assessment and Clinical Decision Makin	g (Theory)						
3	Hours/Week	2							
4	Contact Hours	2-0-0							
	(L-T-P)								
	Course Type	Compulsory							
5	Course	1. To provide the knowledge and skills about musculosk	eletal system						
	Objective	assessment and evaluation of patients.							
		2. To provide skills to develop clinical decision making	for						
		musculoskeletal conditions.	<u> </u>						
		3. To provide knowledge and skills to rationalise the out assessment.	comes of						
		4. To train the students to accurately record the assessme	ent and design						
		individualized goals for patient.							
6	Course	CO1. Perform thorough physiotherapy assessment and list deficiencies							
	Outcomes	CO2. Design individualized goal for patients							
		CO3. Rationalize the outcome of assessment							
		CO4. Document systematic, meaningful, accurate written	n records of						
		patients							
-		CO5: To use assessment methods in designing treatment							
7	Course	This Course Sugglaments the Vnewladge of assessment	and diagnosis in						
	Description	This Course Supplements the Knowledge of assessment Orthopaedic conditions. This will help form base of prof							
		with the evidence-based practice and enables the student							
		understanding of the subject along with their application							
		and various other dysfunctions.	in orthopaedie						
8	Outline syllabus		CO Mapping						
	Unit 1	Musculoskeletal assessment							
	A	Review of General assessment: Patient's history,	CO1, CO2						
		observation, palpation, examination, Sensory							
		assessment, Motor assessment, Assessment of Tone,							
		flexibility, tightness of musculoskeletal tissues, -							
		Muscle Length Testing and special tests for the same,							
		Reflex testing							
	В	Limb length measurement, Range of Motion, Various	CO1, CO4						
		disease specific and functional outcome measures and							
		their administration.							
	С	Evaluation methods, Special tests and Scales used in	CO1, CO2,						
	I		, ,						

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	UNIVERSITY Beyond Boundaries

Unit 2	musculoskele	etal disorders	CO3				
Unit 2							
A	Recent methapplication	hods for assessment and its clinical	CO1, CO2				
В	Electrodiagno Evoked poter	osis: Use of Electromyography and ntial studies	CO3				
C	Assessment of and disability	of locomotor impairments, disabilities y evaluation.	CO1, CO4				
Unit 3							
А	Balance asses	ssment	CO1, CO2, CO3				
В		essment methods and common deviations mal, examination of movements	CO1, CO2, CO3				
С	Clinical Gait EMG gait and	assessment (observational methods and alysis)	CO1, CO2, CO3				
Unit 4							
A	Pain assessm chronic pain	Pain assessment and scales for evaluation in acute and chronic pain					
В		Clinical assessment and rationale of laboratory investigations along with differential diagnoses.					
С		Clinical decision making in Electrotherapeutics.					
Unit 5							
Α	Functional as ADL, Occupa	sessment (Hand function, Gait, Posture, tional work)	CO1, CO2				
В	X-Ray, MRI	, CT report reading and analysis	CO1				
С		ability evaluation in detail. ICF	CO1, CO3				
Mode of examination							
Weightage	CA	ETE					
Distribution	20%	80%					
Text book/s*	 Orthopaedia Essential of Ebnezar Orthopaedia 	c physical assessment by David J. Magee c Rehabilitation by Brokman f Orthopaedic for physiotherapists by c Physical therapy by Donatteli, London Livingstone					
Other References							



POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
COs										
CO1	3	2	2	2	2	2	2	2	2	2
	5	3	2	3	3	3	Z	3	3	
CO2	2	3	2	3	2	3	2	2	3	2
	2	5	2	5	2	5	2	2	5	2
CO3	2	2	3	3	2	3	2	3	3	2
CO4	3	3	2	3	3	2	3	3	3	2
CO5	3	3	3	3	3	2	3	3	3	2

1-Slight (Low) 2-Moderate (Medium) 3-Substantial (High)

Sch	ool: SAHS	Batch: 2019-21				
Program: MPT(Orthopaedics)		Current Academic Year: 2019-20				
Bra	nch:	I Year				
1	Course Code	MPT 106				
2	Course Title	Physiotherapy Assessment and Clinical Decision Making (Practical)				
3	Hours/Week	2				
4	Contact Hours	0-0-2				
	(L-T-P)					
	Course Type	Compulsory				
5	Course Objective	 To provide the knowledge and skills about musculoskeletal system assessment and evaluation of patients. To provide skills to develop clinical decision making for musculoskeletal conditions. To provide knowledge and skills to rationalise the outcomes of assessment. To train the students to accurately record the assessment and design individualized goals for patient. 				
6	Course Outcomes	 CO1. Perform thorough physiotherapy assessment and list deficiencies CO2. Design individualized goal for patients CO3. Rationalize the outcome of assessment CO4. Document systematic, meaningful, accurate written records of patients CO5: To use assessment methods in designing treatment. 				
7	Course					



			Beyond Boundaries			
	Description	This Course Supplements the Knowledge of assessment and diagnosis in Orthopaedic conditions. This will help form base of professional practice with the evidence-based practice and enables the student to have a better understanding of the subject along with their application in Orthopaedic and various other dysfunctions.				
8	Outline syllabus		CO Mapping			
	Unit 1	Musculoskeletal assessment				
	A	Review of General assessment: Patient's history, observation, palpation, examination, Sensory assessment, Motor assessment, Assessment of Tone, flexibility, tightness of musculoskeletal tissues, - Muscle Length Testing and special tests for the same, Reflex testing	CO1, CO2			
	В	Technique to assess limb length, Range of Motion, to teach various disease specific and functional outcome measures and their administration.	CO1, CO4			
	С	Evaluation methods, Special tests and Scales used in musculoskeletal disorders	CO1, CO2,CO3			
	Unit 2					
	А	Training for recent methods for assessment and its clinical application	CO1, CO2			
	В	Interpretation and use of electromyography and Evoked potential studies	CO3			
	С	Assessment of locomotor impairments, disabilities and disability evaluation.	CO1, CO4			
	Unit 3		<i></i>			
	A	Demonstration of balance assessment	CO1, CO2, CO3			
	В	Demonstration of postural assessment methods and common deviations from the normal, examination of movements	CO1, CO2, CO3			
	С	Clinical Gait assessment (observational methods and EMG gait analysis)	CO1, CO2, CO3			
	Unit 4					
	А	Pain assessment and scales for evaluation in acute and chronic pain	CO1, CO3			
	В	Clinical assessment and rationale of laboratory investigations along with differential diagnoses.	CO1, CO3			



				Beyond Boundaries	
С	Clinical decis	ion making in	Electrotherapeutics.	CO2	
Unit 5					
А	Functional as	Functional assessment (Hand function, Gait, Posture, ADL, Occupational work)			
	ADL, Occupa				
В	X-Ray, MRI,	, CT report rea	ading and analysis	CO1	
С	Physical Disa	ability evaluat	ion	CO1, CO3	
Mode of examination	Practical				
Weightage	CA		ETE		
Distribution	20%		80%		
Text book/s*	 Orthopaedie Essential of Ebnezar Orthopaedie 	c Rehabilitatic f Orthopaedic	essment by David J. Magee on by Brokman for physiotherapists by rapy by Donatteli, London		
Other					
References					



Sch	ool: SAHS	Batch: 2019-21	Seyond Boundaries					
	gram:	Current Academic Year: 2019-20						
MPT (Orthopaedics)								
	nch:	I Year						
1	Course Code	MPT 104						
2	Course Title	Advanced Physiotherapeutics (Theory)						
3	Hours/Week							
4	Contact Hours	2-0-0						
	(L-T-P)	2-0-0						
	Course Type	Compulsory						
5	Course	1. To provide knowledge about various techniques used in						
	Objective	musculoskeletal Physiotherapy.						
	5	2. To analyse and classify various sports injuries and their						
		management.						
		3. Compare & contrast the outcome of various physiotherapy treatment approaches.						
		treatment approaches.						
6	Course	CO1. Learn various techniques of Physiotherapy.						
	Outcomes	CO2. To formulate a rationalized physiotherapy treatment	plan for the					
		patient.						
		CO3. Use various skills for rehabilitation of the individuals.						
		CO4: Compare & contrast the outcome of various physiotherapy						
		treatment approaches						
	~							
7	Course							
	Description	The course will enable the students to learn skills and tech	1					
0	Or (1)	used in Physiotherapy management of musculoskeletal con						
8	Outline syllabus		CO Mapping					
	Unit 1		CO1 CO2					
	А	Manual therapies: different schools of thought	CO1, CO2,					
	D		CO3, CO4					
	В	Soft tissue manipulations and mobilizations	CO1, CO2,					
	С	Neural mobilization	CO3 CO1, CO2,					
			CO1, CO2, CO3					
	Unit 2		05					
	A		CO1, CO2,					
	A	Joint manipulation – Peripheral joints and vertebral	CO3, CO4					
		joints.	005, 004					
	В	Mobilization techniques like Cyriax, Maitland, Butler,	CO1, CO2,					
		1 0 1	CO3, CO4					
		Mc Kenzie, Kaltenborn, Mulligan						
	С	Myofascial release technique, Muscle energy technique	CO1,CO2,CO					
		and Neuromuscular taping technique	3,CO4					
	Unit 3							
	A	Analysis and classification of sports and sports specific	CO2, CO3					
		- in ports and endomentation of sports and sports specific						



		Beyond Boundari
	injuries and it management	
В	Principles of injury prevention, environmental modifications	CO2, CO3
С	Exercise planning and prescription, Recent advances in Musculoskeletal disorders and Sports Physiotherapy	CO2, CO3
Unit 4		
A	Electrodiagnosis: Electromyography and evoked potential studies	CO2
В	Gait Training, Biofeedback, Hydrotherapy, Patient & family education, Relaxation Techniques, massage therapy	CO2, CO3
С	Pain (neurobiology, various theories, modulation and management of pain)	CO2
Unit 5		
А	Wheelchair skills- Basic & Advanced	CO1, CO2, CO3
В	Prosthetics and Orthotics, External aids, appliances, adaptive self-help devices, prescription, biomechanical compatibility, check out and training.	CO2, CO3
С	Community Based Rehabilitation in musculo-skeletal disorders, Rehabilitation of hand, Industrial health and ergonomics	CO2, CO3
Mode of examination	Theory	
Weightage	CA ETE	
Distribution	20% 80%	
Text book/s*	 Management Principles for Physiotherapist by Nosse, Lorry J Myofascial and pain dysfunction by Travell, Villimans and Wilkins, Baltimore 1983 Vertebral Manipulation by Matiland G.D. Boston, Butterworth & Co. Boston, 1997 Peripheral Manipulation Matiland G.D. Boston, Butterworth & Co. Boston, 1997 Hand Rehabilitation by Christine, Churchcill, Livingstone London 1995 	
Other References		



POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
COs										
CO1	3	3	3	3	3	3	3	2	3	2
CO2	3	3	3	3	3	3	3	3	3	3
CO3	2	3	2	3	3	2	3	3	3	2
CO4	3	2	3	3	3	2	2	3	3	2

Sch	ool: SAHS	Batch: 2019-21				
	gram: T(Orthopaedics)	Current Academic Year: 2019-20				
-	nch:	I Year				
1	Course Code	MPT 107				
2	Course Title	Advanced Physiotherapeutics (Practical)				
3	Hours/Week	2				
4	Contact Hours (L-T-P)	0-0-2				
	Course Type	Compulsory				
5	Course Objective	 To provide knowledge about various techniques used in musculoskeletal Physiotherapy. To analyse and classify various sports injuries and their management. Compare & contrast the outcome of various physiotherapy treatment approaches. 				
6	Course Outcomes	 CO1. Learn various techniques of Physiotherapy. CO2. To formulate a rationalized physiotherapy treatment plan for the patient. CO3. Use various skills for rehabilitation of the individuals. CO4: Compare & contrast the outcome of various physiotherapy treatment approaches 				
7Course DescriptionThe course will enable the students to learn skil used in Physiotherapy management of musculo			etal conditions			
8	Outline syllabus	I	CO Mapping			
	Unit 1					
	A Demonstration of Manual therapies: different CO1, CO schools of thought CO4		CO1, CO2, CO3, CO4			
	В	Demonstration of soft tissue manipulations and mobilizations	CO1, CO2, CO3			



		UNIVERSII. Beyond Boundarie
C	Demonstration of Neural mobilization	CO1, CO2, CO3
Unit 2		
A	Demonstration of Joint manipulation – Peripheral joints and vertebral joints.	CO1, CO2, CO3, CO4
В	Demonstration of Mobilization techniques like Cyriax, Maitland, Butler, Mc Kenzie, Kaltenborn , Mulligan	CO1, CO2, CO3, CO4
С	Demonstration of Myofascial release technique, Muscle energy technique and Neuromuscular taping technique	CO1, CO2, CO3, CO4
Unit 3		
Α	Assessment of sports and sports specific injuries and it management	CO2, CO3
В	Training for principles of injury prevention, environmental modifications	CO2, CO3
С	Demonstration of Exercise planning and prescription	CO2, CO3
Unit 4		
A	Demonstration of electromyography and evoked potential studies	CO2
В	Demonstration of Gait Training, Biofeedback, Hydrotherapy	CO2, CO3
С	Demonstration of Relaxation Techniques, massage therapy	CO2
Unit 5		
А	Demonstration of Wheelchair skills- Basic & Advanced	CO1,CO2,CO3
В	Training for use of Prosthetics and Orthotics, External aids, appliances, adaptive self-help devices, prescription, biomechanical compatibility, check out and training.	CO2,CO3
С	Training for rehabilitation of hand, Industrial health and ergonomics	CO2,CO3
Mode of examination	Practical	
Weightage	CA ETE	



			🥿 🌽 Beyond Boundaries	
Distribution	20%	80%		
Text book/s*	1. Manageme			
	Nosse, Lo	Nosse, Lorry J		
	2.Myofascial	and pain dysfunction by Travell,		
	Villimans a	and Wilkins, Baltimore 1983		
	3. Vertebral	Manipulation by Matiland G.D.		
	Boston, B	utterworth & Co. Boston, 1997		
	4. Peripheral	Manipulation Matiland G.D.		
	Boston, B	utterworth & Co. Boston, 1997		
	5. Hand Reha	abilitation by Christine, Churchcill,		
	Livingstor	ne London 1995		
Other				
References				

1-Slight (Low) 2-Moderate (Medium) 3-Substantial (High)

School: SAHS Program:		Batch : 2019-21 Current Academic Year: 2019-20		
Branch:		I Year		
1	Course Cod	MPT 105		
	e			
2	Course Title	Journal Club and Clinical Case Presentation		
3	Hours/Week	4		
4	Contact Hours	0-0-4		
	(L-T-P)			
	Course Type	Compulsory		
5	Course	The objective of the course is that, the student will be able to		
	Objective	1. To develop confidence and presentation skill.		
		2. To develop decision making and reasoning skills in patient		
		management.		
		3. To develop efficient methods of study of research journals.		
6	Course	After completion of the course, the students will be able to;		
	Outcomes	CO1: Assess the patient and document their records.		
		CO2. Present the latest research in journal presentation.		
		CO3. Present the various cases and design the treatment programme for		
		the patients		
		CO4. Understand Evidence based implementation of various research protocols.		
		CO5.Reasoning and decision making regarding diagnosis, treatment and		
		follow-up of patients		



					Beyond Boundaries			
7	Course	This course is to design and develop the in-depth thinking ability,						
	Description	presentation s	kill, reasoning	and decision making, analyt	ical skills and			
		deep explorat	deep exploration of various topics and cases among the students. It will					
		enhance the research ability of the students hence will help in uplifting						
		the new rays of therapeutic skills.						
	Mode of	Practical						
	examination							
	Weightage	CA						
	Distribution	50			50			

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
COs										
CO1	3	3	3	3	3	3	3	3	3	3
CO2	3	3	3	3	3	3	3	3	3	3
CO3	2	2	3	3	3	3	3	3	3	3
CO4	3	3	3	3	3	3	3	3	3	3
CO5	3	3	3	3	3	3	3	3	3	3

Scho	ool: SAHS	Batch : 2019-21
Prog	gram:	Current Academic Year: 2020-21
MPT	(Orthopaedics)	
Bran	nch:	II Year
1	Course Cod	MPT 221
	e	
2	Course Title	Pedagogy in Physiotherapy Education
3	Hours/Week	1
4	Contact Hours	1-0-0
	(L-T-P)	
	Course Type	Compulsory



5 Course Objective 1. To educate the students about the concepts of teaching and learning. 2. To enable them to learn about the philosophies of education. 3. To provide knowledge about curriculum, techniques, and reaching. 6 Course CO1. Understand the dynamics of teaching and learning. CO2. Plan effective teaching sessions in Physiotherapy. CO3: Learn method and techniques of teaching CO4: Learn meaning and concept, basis of curriculum formulation CO5:To know the use of various teaching aids	-
3. To provide knowledge about curriculum, techniques, and r teaching.6Course OutcomesCO1. Understand the dynamics of teaching and learning. CO2. Plan effective teaching sessions in Physiotherapy. CO3: Learn method and techniques of teaching CO4: Learn meaning and concept, basis of curriculum formulation	methods of
6CourseCO1. Understand the dynamics of teaching and learning.0OutcomesCO2. Plan effective teaching sessions in Physiotherapy.CO3: Learn method and techniques of teachingCO4: Learn meaning and concept, basis of curriculum formulation	methods of
6CourseCO1. Understand the dynamics of teaching and learning.OutcomesCO2. Plan effective teaching sessions in Physiotherapy.CO3: Learn method and techniques of teachingCO4: Learn meaning and concept, basis of curriculum formulation	
OutcomesCO2. Plan effective teaching sessions in Physiotherapy. CO3: Learn method and techniques of teaching CO4: Learn meaning and concept, basis of curriculum formulation	
CO3: Learn method and techniques of teaching CO4: Learn meaning and concept, basis of curriculum formulation	
CO4: Learn meaning and concept, basis of curriculum formulation	
CO5:To know the use of various teaching aids	
7 Course This course presents knowledge and application of different teaching	
Description methodology to the students. The course begins with core topics of	
Teaching and learning, Curriculum, various teaching methods and con	ncept of
guidance and counselling etc	
:8 Outline syllabus CO Mappin	ng
Unit 1	
A Education: - Introduction, Educational Philosophy-	
Idealism Naturalism, Pragmatism	
B (01 CO2	
Aims of Education, Functions of	
Education, Formal, informal and non-	
formal Education, Agencies of Education	
C Current issues and Trends in Higher Education, Issue CO1,CO2	
of quality in Higher Education	
Unit 2	
A Meaning and scope of Educational Psychology CO1,CO2	
BDynamics of behavior, Individual differencesCO1,CO2	
C Method and techniques of teaching: - Lecture, CO1,CO2,	CO3
Demonstration, Discussion, Seminar, Assignment,	
Project, Case Study	
Unit 3	<u> </u>
A Curriculum: - Meaning and concept, Basis of CO1,CO2,	CO4
curriculum formulation, Process of curriculum	
development and factors involved, Evaluation of	
curriculum	
B Framing objectives for curriculum, Bloom's CO1,CO2,	03,004
taxonomy of instructional objectives, Writing	
instructionalobjectives in behavioral terms	
C Unit planning, Lesson planning CO1,CO2,	CO3
Unit 4	

									SHARI UNIVERS	DA ITY arles	
	A		Teaching at of selection aides,					C01,0	CO2,CO4,0	CO5	
	В			nt: mean	ing, pro	cess, type	f educationa es of tests its analysis,	1	CO2,CO3		
	С			rtant tests	of intell	igence, ap	tandardized otitude, and oprehensive	CO1,0	CO2		
	Unit 5										
	A		Guidance and counseling, Meaning & concepts of guidance and counseling, Principles of guidance and counseling Awareness Programme, awareness and guidance to the common people about health and disease						CO1,CO2 CO1,CO2		
	В										
	С		Autonomy and Accountability, Privatization of Education Theory					f CO1,C	C01,C02		
	Mode of examination										
	Weightage		CA		E	TE					
	Distribution		20		80)		100			
	Text book/s*										
	Other References										
_	- Pot			DO 1	DOT	DC 1		Dac i	DCCC	D 207	
Pos COs	s	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3	

100										
COs										
CO1										
	2	3	3	3	3	2	2	2	3	2
CO2										
	3	3	3	3	3	2	2	3	3	3
CO3										
	1	1	2	2	2	1	3	1	1	2
CO4										
	1	1	2	2	2	1	3	1	1	2
CO5										
	1	1	2	2	2	1	3	1	1	2



1-Slight (Low)2-Moderate (Medium)3-Substantial (High)

Sch	ool: SAHS	Batch: 2019-21					
Prog	gram:	Current Academic Year: 2020-21					
	T(Orthopaedics)						
	nch:	II Year					
1	Course Cod	MPT 202					
	e						
2	Course Title	Administration, Management and Ethical Issues					
3	Hours/Week	1					
4	Contact Hours (L-T-P)	1-0-0					
	Course Type	Compulsory					
5	Course Objective	 To provide knowledge about the management process and its functions. To educate about the marketing and total quality management. To educate the students about the role of hospital as an organisation To educate about the rules of professional conduct, code of ethics and legal ethical issues in Physiotherapy and the standards of practice for physiotherapists. 					
6	Course Outcomes	 CO1. Understand the basic issues of management and administration. CO2. Practice as an informed professional on legal and ethical issues Physiotherapy. CO3 To understand the basic principle of Management and its importance. CO4:To understand the importance of hospital and how it works in different departments. CO5: To understand the role of Physiotherapy and its benefits to the society. 					
7	Course Description	The course will enable the students about the rules conduct, code of ethics and legal ethical issues in Physi standards of practice for physiotherapists. It will help the an informed professional on management process and its	otherapy and the em to Practice as				
8	Outline syllabus		CO Mapping				
	Unit 1						
	А	Management: Introduction, Evolution of management, Functions of management	CO1,CO3				
	В	Management process – planning, organization,	CO1,CO3				



			🥟 Beyond Boundaries
		direction, controlling, Decision-making.	
С		Personnel management: Staffing, Recruitment selection, Performance appraisal, Collective bargaining, Job satisfaction.	CO1,CO3
U	nit 2		
A		Marketing: Market segmentation, Channels o distribution, Promotion, Consumer behavior	f CO1,CO2,CO3
В		Total Quality Management: Basics of quality management, Quality control, Quality assurance Programme in hospitals	CO1,CO2,CO3
C		Medical audit, International quality system.	CO1,CO2
U	nit 3		
A		Hospital as an organization - Functions and types of hospitals	C01,C02,C04
В		Roles of Physical therapist, Physical therapy Director, Physiotherapy supervisor, Physiotherapy assistant, Physiotherapy aide, Home health aide, Volunteer.	CO1,CO2,C5
C		Rules of Professional Conduct.	CO1,CO2
U	nit 4		
A		Legal responsibility, Code of ethics	CO1,CO2
В		Functions of Physiotherapy associations	C01,C02
C		Role of the International Health Agencies	CO1,CO2
U	nit 5		
A		Standards of practice for physiotherapists	CO1,CO2
В		Liability and obligations in the case of medical legal action, Law of disability & discrimination	C01,C02
C		Confidentially of the Patient's status, Consumer protection law, health law, MCI, DCP	CO1,CO2



		Sector 10 (1997)	Beyond Boundaries
examination			
Weightage	CA	ETE	
Distribution	20%	80%	
Text book/s*			
	1. Healthcare	System and management: Goel, S.L.	
	2. Documenti	ng physical therapy: Baeten, Angla	
	3. Physical Th	nerapy Administration & Management by	
	Hickik		
	4. Manageme	nt Principles for physiotherapists by	
	Nosse Lor	ry J.	
	5. Textbook o	of Healthcare ethics: Loeuy, Erich H	
Other			
References			

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
COs										
CO1	_		_			_	_		_	
	3	3	3	3	2	2	3	2	3	3
CO2										
	3	3	3	2	3	3	3	3	3	3
CO3										
	2	2	3	2	2	2	3	2	1	2
CO4		2								
	2		3	2	2	2	3	2	1	3
CO5		2								
	2	_	3	2	2	2	3	2	1	3

1-Slight (Low)2-Moderate (Medium)3-Substantial (High)

Scho	ool: SAHS	Batch: 2019-21
	gram:	Current Academic Year: 2020-21
MP.	Γ(Orthopaedics)	
Brai	nch:	II Year
1	Course Cod	MPT 237
	e	
2	Course Title	Musculoskeletal Physiotherapy I (Medical) Theory
3	Hours/Week	3
4	Contact Hours	3-0-01



	(L-T-P)		"Beyond Boundaries				
	Course Type	Compulsory					
5	Course1. To educate students about etiology, pathophysiology, clinical presentation and physiotherapy manangement of general musculoskeletal disorders.2. To provide knowledge about epidemiology, patho physiology and clinical conditions affecting various joints of body.3. To educate students about physiotherapy management for various musculoskeletal disorders.						
6	Course Outcomes	 CO1. Understand about etiology, pathophysiology, clinic and physiotherapy management of general muscule disorders. CO2. Understand about epidemiology, patho physiology conditions affecting various joints of body CO3. Plan physiotherapy management for various muscu disorders. CO4: To learn about various regional orthopaedic conditions CO5: To learn about various investigative procedures used in disorders 	oskeletal and clinical Iloskeletal				
7	Course Description	This course is designed to develop and enhance the know Medical management for various musculoskeletal disord Physiotherapy for the same.					
8	Outline syllabus		CO Mapping				
	Unit 1						
	A	Congenital malformations	C01,C02,C05				
	В	Rheumatic disorders: - Rheumatoid arthritis, Ankylosis Spondylosis, Reiter's disease, Polymyalgia rheumatica, Psoriasis	CO1,CO2, CO5				
	С	Infections of musculoskeletal system, Acute, Chronic	CO1,CO2, CO5				
	Unit 2						
	A	Metabolic and endocrine disorders, Calcium metabolism, Osteoporosis, Osteomalacia and ricket, Hyper parathyrodism	CO1,CO2, CO5				
	В	Tumors of the musculoskeletal system, Classification, Benign, Malignant	CO1, CO2, CO5				

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С	Neuromuscular disorders, Poliomyelitis, Cerebral palsy, Arthrogryposis multiplex Congenita, Muscular dystrophy, Osteoarthritis and crystal deposition diseases	CO1, CO2, CO5
Unit 3		
A	Investigations, Orientation and Introduction, physical basis, normal result & common abnormal response of the procedures done for musculoskeletal conditions (in brief)	CO1, CO2, CO5
В	X- ray, Computerized Tomography, Magnetic Resonance Imaging	CO1, CO2 CO5
С	Bone Scan, Laboratory tests, FNAC, Bone biopsy	CO1, CO2, CO5
Unit 4		
A	The shoulder, rotator cuff lesions, Instability, Rheumatoid disease of shoulder, Tuberculosis. The Elbow, Tennis elbow, Golfer's elbow, Myositis ossificans	CO1, CO2,CO3,CO
В	The Wrist, Carpal tunnel syndrome, Ganglion, Wrist instabilities and special tests, The Hand, Peripheral nerve injuries, Tendon lesions and transfer surgeries, Deformity in rheumatoid arthritis, peripheral nerve injuries, Hemiplegia, SCI and leprosy	CO1, CO2, CO4
C	Cervical Spine, Discogenic pain, Whiplash injuries, Thoracic outlet syndrome, Brachial plexus injury and plexopathies, Torticollis and wry neck in pathologies of cervical spine; Back, Intervertebral disc, Discogenic pain, Spondylolysis & listhesis, Scoliosis & kyphosis, Tuberculosis, Musculoskeletal causes of low back pain	CO1, CO2,CO3, CO4
Unit 5		
A	The Hip- Avascular necrosis of femoral head., Osteoarthritis; Knee, Osteoarthritis, Meniscal / ligament injuries, Genu valgum / varum	CO1, CO2, CO4

D	Seyond Bound
В	Ankle and foot, Metatarsalgia, Flat foot, Carsus CO1,
	foot, Hallax valgus, CTEV, Ankle sprains CO2,CO4
С	Fractures and joint injuries, Principles of acute CO1,
	fracture care, Conservative management of the CO2,CO4
	following: Pediatric fractures, Injuries of
	shoulder, upper arm and elbow, Injuries of
	forearm and wrist, Injuries of Spine, Injuries of
	Pelvis, Injuries of Hip and Femur, Injuries of
	Knee, Leg Injuries, Injuries of ankle and foot
Mode of	Theory
examination	
Weightage	CA ETE
Distribution	20% 80%
Text book/s*	1.Essential of Orthopaedic for Physiotherapist by
	Ebnezar
	2.Cash'TB for Ortho and rheumatology for
	physiotherapist by Downie
	3. Principles and Practice of orthopedics and sports
	medicine by Garret
	4. Orthopaedic rehabilitation by Brokmen
	5. Treatment and rehabilitation fractures by
	Hoppenfield
Other	1.Recent advances in Orthopaedic
References	2. Musculoskeletal Trauma
	3. Textbook of Orthopaedic & Trauma
	4. Watson Jones fracture join & injuries

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
Cos										
CO1	2	2	2	2	2	2	2	2	2	2
	3	3	3	3	3	3	3	2	3	2
CO2										
	3	3	3	3	3	3	2	3	3	3
CO3	-	-	-	-		-	-	-	-	-
	3	3	2	3	3	3	3	3	3	3
CO4										
	2	2	3	3	3	2	3	3	3	2
CO5										
	3	1	3	3	2	2	2	3	3	2



Sch	ool: SAHS	Batch: 2019-21	Beyond Boundaries				
Pro	gram:	Current Academic Year: 2020-21					
MP	T(Orthopaedics)						
Bra	nch:	II Year					
1	Course Cod e	MPT 207					
2	Course Title	Musculoskeletal Physiotherapy I (Medical) Practical					
3	Hours/Week	2					
4	Contact Hours (L-T-P)	0-0-2					
	Course Type	Compulsory					
5	Course Objective	 To educate students about etiology, pathophysiology, clinical presentation and physiotherapy manangement of general musculoskeletal disorders. To provide knowledge about epidemiology, patho physiology and clinical conditions affecting various joints of body. To educate students about physiotherapy management for various musculoskeletal disorders. 					
6	Course Outcomes	 CO1. Understand about etiology, pathophysiology, clinical presentation and physiotherapy management of general musculoskeletal disorders. CO2. Understand about epidemiology, patho physiology and clinical conditions affecting various joints of body CO3. Plan physiotherapy management for various musculoskeletal disorders. CO4: To learn about various regional orthopaedic conditions CO5: To learn about various investigative procedures used in musculoskeletal disorders 					
7	Course Description	This course is designed to develop and enhance the know Medical management for various musculoskeletal disord Physiotherapy for the same.					
8	Outline syllabus		CO Mapping				
	Unit 1		······································				
	A	Demonstration of physiotherapy management for Congenital malformations	CO1,CO2,CO5				
	В	Demonstration of physiotherapy management in Rheumatic disorders: - Rheumatoid arthritis, Ankylosis Spondylosis, Reiter's disease, Polymyalgia rheumatica, Psoriasis	CO1,CO2, CO5				
	С	Demonstration of physiotherapy management for	CO1,CO2, CO5				



	Infections of musculoskeletal system, Acute, Chronic	Beyond Boundaries
Unit 2		
A	Demonstration of physiotherapy management for metabolic and endocrine disorders, Calcium metabolism, Osteoporosis, Osteomalacia and ricket, Hyper parathyrodism	CO1,CO2, CO5
В	Demonstration of physiotherapy management in tumors of the musculoskeletal system, Classification, Benign, Malignant	CO1, CO2, CO5
C	Demonstration of physiotherapy management in neuromuscular disorders, Poliomyelitis, Cerebral palsy, Arthrogryposis multiplex Congenita, Muscular dystrophy, Osteoarthritis and crystal deposition diseases	CO1, CO2, CO5
Unit 3		
A	Investigations, Orientation and Introduction, physical basis, normal result & common abnormal response of the procedures done for musculoskeletal conditions (in brief)	CO1, CO2, CO5
В	Interpretation of X- ray, Computerized Tomography, Magnetic Resonance Imaging	CO1, CO2 CO5
С	Interpretation of Bone Scan, Laboratory tests, FNAC, Bone biopsy	CO1, CO2, CO5
Unit 4		
A	Demonstration of physiotherapy management in shoulder, rotator cuff lesions, Instability, Rheumatoid disease of shoulder, Tuberculosis. The Elbow, Tennis elbow, Golfer's elbow, Myositis	CO1, CO2,CO3,CO4
	ossificans	
В	Demonstration of physiotherapy management for injuries of Wrist, Carpal tunnel syndrome, Ganglion, Wrist instabilities and special tests, The Hand, Peripheral nerve injuries, Tendon lesions and transfer	CO1, CO2, CO4

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	surgeries, Deformity in rheum peripheral nerve injuries, Hemiplegia,	,	
C	Use of Physiotherapy in Cervica Discogenic pain, Whiplash injuries, outlet syndrome, Brachial plexus in plexopathies, Torticollis and wry pathologies of cervical spine; Intervertebral disc, Discogenic Spondylolysis & listhesis, Scol	l Spine, CO1, Thoracic CO2, njury and CO4 neck in Back, pain,	
Unit 5			
A	Demonstration of physiotherapy man in Avascular necrosis of femora Osteoarthritis; Knee, Osteoarthritis, M ligament injuries, Genu valgum / va	l head., CO4 eniscal /	CO2,
В	Demonstration of physiotherapy ma Ankle and foot, Metatarsalgia, Flat foot, Hallax valgus, CTEV, Ankle spra	foot, Carsus CO2,	
C	Demonstration of physiotherapy mana Fractures and joint injuries, Principle fracture care, Conservative managem following: Pediatric fractures, In shoulder, upper arm and elbow, I forearm and wrist, Injuries of Spine, Pelvis, Injuries of Hip and Femur, I Knee, Leg Injuries, Injuries of ankle	s of acute CO2, ent of the juries of njuries of Injuries of Injuries of	
Mode of examination	Practical		
Weightage	CA ETE		
Distribution Text book/s*	20%80%1.Essential of Orthopaedic for PhyEbnezar2.Cash'TB for Ortho and rhephysiotherapist by Downie	umatology for	
	3.Principles and Practice of orthope medicine by Garret4. Orthopaedic rehabilitation by Brokm	-	



 					 <th>Beyond Boundaries</th>	Beyond Boundaries		
	5.Treatment	and	rehabilitation	fractures	by			
	Hoppenfield							
Other	1.Recent advan	Recent advances in Orthopaedic						
References	2. Musculoske	2. Musculoskeletal Trauma						
	3. Textbook of	3. Textbook of Orthopaedic & Trauma						
	4. Watson Jone	. Watson Jones fracture join & injuries						

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
Cos										
CO1	3	3	3	3	3	3	3	2	3	2
CO2		3						-		
CO2	3	3	3	3	3	3	2	3	3	3
CO3	3	3	2	3	3	3	3	3	3	3
CO4	2	2	3	3	3	2	3	3	3	2
CO5	3	1	3	3	2	2	2	3	3	2

1-Slight (Low) 2-Moderate (Medium) 3-Substantial (High)

Sch	ool: SAHS	Batch: 2019-21					
Pro	gram:	Current Academic Year: 2020-21					
MP	T(Orthopaedics)						
Bra	nch:	II Year					
1	Course Cod	MPT 238					
	e						
2	Course Title	MusculoskeletalPhysiotherapy II (Surgical) Theory					
3	Hours/Week	3					
4	Contact Hours	3-0-0					
	(L-T-P)						
	Course Type	Compulsory					
5	Course	1. To educate students about orientation and general principles of					
	Objective	orthopaedic surgeries.					
		2. To provide knowledge about the physiotherapy management					
		following surgical procedures					
6	Course	CO1. Understand about the orientation and general principles of					
	Outcomes	orthopaedic surgeries.					
		CO2. Assess the patients following surgical procedures.					
		CO3: Provide the physiotherapy management					
		following surgical procedures					



	1	CO4: Enable the students to gain knowledge about orthonaedic implants							
	CO4: Enable the students to gain knowledge about orthopaedic in CO5: Enable the students to gain knowledge about tendon transfe nerve suturing and grafting								
7	Course Description	The course will enable the students to gain knowledge and general principles of orthopaedic surgeries. This we formulate and design physiotherapy treatment pro- surgical procedures.	vill help them to						
8	Outline syllabus		CO Mapping						
	Unit 1								
	A	Arthrodesis	CO1,CO2,CO3						
	В	Osteotomy	CO1,CO2,CO3						
	С	Arthroplasty	CO1,CO2, CO3						
	Unit 2								
	A	Bone grafting	CO1,CO2,CO3						
	В	Internal and external fixations, Orthopaedic implants- designs, materials, indications, post-operative assessment	CO1, CO2, CO3,CO4						
	С	Distraction and limb reconstruction	CO1, CO2, CO3,CO4						
	Unit 3								
	A	Correction of bone deformities and joint contractures	CO1, CO2, CO3						
	В	Tendon transfers	CO1, CO2, CO3,CO4						
	С	Nerve suturing and grafting.	CO1, CO2 CO3,CO5						
	Unit 4								
	A	Operations on joints, Menisectomy, laminectomy, patellectomy	CO1, CO2, CO3						
	В	Total knee and hip replacement	CO1, CO2, CO3						
	С	Amputations for upper and lower extremities	CO1, CO2, CO3						
	Unit 5								
	•	-	•						

			SHARDA UNIVERSITY			
A	Malformations of spine &	CO1, CO2, CO3				
В	Neurosurgery of spine Surgeries for disc disorder	CO1, CO2, CO3				
С	Surgical management of injuries	Surgical management of fractures & other injuries				
Mode of examination	Theory	Theory				
Weightage	СА	ETE				
Distribution	20%	80%	100			
Text book/s*	1. Campbell's Orthopaedic	1. Campbell's Orthopaedic surgery				
	2. Watson Jones fracture jo	in & injuries				
	3. Advanced reconstruction	foot and ankle				
	4. Orthopaedic rehabilitatio	n by Brokmen				
	5. Principles and Practice of	5. Principles and Practice of Orthopaedics and Sports				
	Medicine by Garret	• •				
Other	Trauma Secrets by Naudee					
References						

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
COs										
CO1	3	3	3	3	3	R	3	2	3	2
000	5	5	5	5	5		5	2	5	2
CO2	3	3	3	3	3	3	2	3	3	3
CO3	3	3	2	3	3	2	3	3	3	2
CO4	3	3	2	3	3	2	3	3	3	2
CO5										
	3	3	2	3	3	2	3	3	3	2



Sch	ool: SAHS	Batch: 2019-21	Beyond Boundaries					
Pro	gram:	Current Academic Year: 2020-21						
	T(Orthopaedics)							
	nch:	II Year						
1	Course Cod e	MPT 208						
2	Course Title	Musculoskeletal Physiotherapy II (Surgical)Practical						
3	Hours/Week	2						
4	Contact Hours (L-T-P)	0-0-2						
	Course Type	Compulsory						
5	Course Objective	 To educate students about orientation and general prin orthopaedic surgeries. To provide knowledge about the physiotherapy manag following surgical procedures 	-					
6	Course Outcomes	 CO1. Understand about the orientation and general princ orthopaedic surgeries. CO2. Assess the patients following surgical procedures. CO3: Provide the physiotherapy management following surgical procedures CO4: Enable the students to gain knowledge about ortho CO5: Enable the students to gain knowledge about tendo nerve suturing and grafting 	paedic implants					
7	Course Description	The course will enable the students to gain knowledge a and general principles of orthopaedic surgeries. This w formulate and design physiotherapy treatment pro- surgical procedures.	vill help them to					
8	Outline syllabus	Surgiour procedures.	CO Mapping					
0	Unit 1		comapping					
	A	To demonstrate physiotherapy management following arthrodesis	CO1,CO2,CO3					
	В	To demonstrate physiotherapy management in Osteotomy	CO1,CO2,CO3					
	С	To demonstrate physiotherapy management for Arthroplasty	CO1,CO2, CO3					
	Unit 2							
	A	To demonstrate physiotherapy management after bone grafting	CO1,CO2,CO3					

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В	To demonstrate the use of internal and external fixations, Orthopaedic implants- designs, materials, indications, post-operative assessment	CO1, CO2, CO3,CO4
С	To demonstrate physiotherapy management for distraction and limb reconstruction	CO1, CO2, CO3,CO4
Unit 3		
А	To demonstrate physiotherapy management following correction of bone deformities and joint contractures	CO1, CO2, CO3
В	To demonstrate physiotherapy management after tendon transfers	CO1, CO2, CO3,CO4
С	To demonstrate physiotherapy management after nerve suturing and grafting.	CO1, CO2 CO3,CO5
Unit 4		
A	To demonstrate physiotherapy management after operations on joints, Menisectomy, laminectomy, patellectomy	CO1, CO2, CO3
В	To demonstrate physiotherapy management for total knee and hip replacement	CO1, CO2, CO3
С	To demonstrate physiotherapy management following amputations for upper and lower extremities	CO1, CO2, CO3
Unit 5		
А	To demonstrate physiotherapy management for malformations of spine & spinal cord	CO1, CO2, CO3
В	To demonstrate physiotherapy management after neurosurgery of spine & peripheral Nerves, Surgeries for disc disorders	CO1, CO2, CO3
С	To demonstrate physiotherapy management for surgical management of fractures & other injuries	CO1, CO2, CO3
Mode of examination	Practical	
Weightage	CA ETE	



 			Beyond Boundaries
Distribution	20%	80%	100
Text book/s*	1. Campbell's Orthopaedic s		
	2. Watson Jones fracture join		
	3. Advanced reconstruction		
	4. Orthopaedic rehabilitation		
	5. Principles and Practice of		
	Medicine by Garret		
Other	Trauma Secrets by Naudee		
References			

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
COs										
CO1	3	3	3	3	3	3	3	2	3	2
CO2	3	3	3	3	3	3	2	3	3	3
CO3	3	3	2	3	3	2	3	3	3	2
CO4	3	3	2	3	3	2	3	3	3	2
CO5										
	3	3	2	3	3	2	3	3	3	2

Scho	ool: SAHS	Batch : 2019-21					
Prog	gram:	Current Academic Year: 2020-21					
MP	Γ(Orthopaedics)						
Bra	n2ch:	II Year					
1	Course Code	MPT 205					
2	Course Title	Journal Club and Clinical Case Presentation					
3	Hours/Week	4					
4	Contact Hours	0-0-4					
	(L-T-P)						
	Course Type	Compulsory					
5	Course	The objective of the course is that, the student will be able to					
	Objective	1. To develop confidence and presentation skill.					
		2. To develop decision making and reasoning skills in patient					
		management.					
		3. To develop efficient methods of study of research journals.					



					Beyond Boundaries			
6	Course	After complet	ion of the cou	rse, the students will be able	e to;			
	Outcomes	CO1: Assess	CO1: Assess the patient and document their records.					
		CO2. Present	the latest resea	urch in journal presentation.				
				ses and design the treatment	programme for			
		the pati						
		CO4. Underst	and Evidence	based implementation of var	ious research			
		protoco	ls.					
		CO5.Reasonin	CO5.Reasoning and decision making regarding diagnosis, treatment and					
		follow-u	follow-up of patients					
7	Course	This course is	to design and	develop the in-depth thinkin	ig ability,			
	Description	presentation s	kill, reasoning	and decision making, analyt	ical skills and			
	_	deep explorat	ion of various	topics and cases among the s	students. It will			
		enhance the re	esearch ability	of the students hence will he	elp in uplifting			
		the new rays of	of therapeutic	skills.				
	Mode of	Practical						
	examination							
	Weightage	CA						
	Distribution	50			50			

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
COs										
CO1	3	3	3	3	3	3	3	3	3	з
CO2	5	5	5	5	5	5	5	5	5	2
002	3	3	3	3	3	3	3	3	3	5
CO3	2	2	3	3	3	3	3	3	3	3
CO4										3
	3	3	3	3	3	3	3	3	3	
CO5	3	3	3	3	3	3	3	3	3	3



Sch	ool: SAHS	Batch: 2019-21					
	gram:	Current Academic Year: 2020-21					
	T(Orthopaedics)						
	unch:	II Year					
1	Course Code	MPT 206					
2	Course Title	Dissertation					
3	Hours/Week	4					
4	Contact Hours (L-T-P)	0-0-4					
	Course Type	Practical					
5	Course Objective	 The objective of the course is that, the student will be able to Apply the evidences for the search of new knowledge. To develop efficient research methodology. To improve the scientific literature writing. 					
6	Course Outcomes	 After completion of the course, the students will be able to; CO1:Gain knowledge about formulation of research protocol CO2:Apply research Methodology and skills to complete the research dissertation CO3:Develop the skill to publish and present the research CO4: Methods of scientific literature review and writing. CO5:Evidence based implementation of various research protocols. 					
7	Course Description	This course is to design and develop the in-depth thinking ability, presentation skill, reasoning and decision making, analytical skills and deep exploration of various topics and cases among the students. It will enhance the research ability of the students hence will help in uplifting the new rays of therapeutic skills.					
	Mode of examination	Practical					
	Weightage	CA ETE					
	Distribution	30% 70%					

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
COs										
CO1	3	3	3	3	3	3	3	3	3	3
CO2	3	3	3	3	3	3	3	3	3	3
CO3	3	3	3	3	3	3	3	3	3	3
CO4	3	3	3	3	3	3	3	3	3	3
CO5	3	3	3	3	3	3	3	3	3	3