



SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE

(An Autonomous Institution)

(Approved by AICTE, New Delhi & Affiliated to Pondicherry University)
(Accredited by NBA-AICTE, New Delhi, Accredited by NAAC with "A" Grade)
Madagadipet, Puducherry - 605 107



COLLEGE OF PHYSIOTHERAPY

4th BoS Meeting

Bachelor of Physiotherapy (B.P.T.) Programme

Venue : Conference Hall,

Sri Manakula Vinayagar Engineering College.

Date & Time : 06th July 2023 at 10.30 A.M.



COLLEGE OF PHYSIOTHERAPY

Minutes of the meeting of 4th BoS

The 4th Board of studies meeting for College of Physiotherapy was held on 06th July 2023 at 10.30 a.m. in the Conference Hall, Sri Manakula Vinayagar Engineering College.

The following members were present in the BoS meeting:

Sl. No	Name of the member with designation & official address	Members as per UGC norms
1.	Prof. Dr. R. Chidambaram M.P.T. Dean, College of Physiotherapy, Sri Manakula Vinayagar Engineering College, Madagadipet, Puducherry – 605107. Email: deanphysio@smvec.ac.in	Chairman
2.	Prof. Dr. Balu M.P.T. Professor, School of Physiotherapy, Arupadaiveedu Medical College, Kirumambakkam, Puducherry – 607403. Email: balukhanphysio007@gmail.com	Subject expert (University Nominee)
3.	Prof. Dr. A. Dinakaran M.P.T. Principal, Adhiparasakthi College of Physiotherapy, Melmaruvathur – 603319. Email: apcopt1994@gmail.com	Subject expert (Academic Council Nominee)
4.	Prof. KSI. Dr. Murali Sankar M.P.T. Director, School of Physiotherapy, Arupadaiveedu Medical College, Kirumambakkam, Puducherry – 607403. Email: director.sptpdy@vmu.edu.in	Subject expert (Academic Council Nominee)

R. Chidambaram

Dean

03-08-23

COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107.

5.	Dr. S. D. Lakshmi Vasan B.P.T. Chief Physiotherapist, Sri Kumaran Physiotherapy Clinic,Villupuram. Email: lakmivasan@live.in	Representative from industry
6.	Dr. K. Ezhilan M.P.T. Chief Physiotherapist, Sri Manakula Vinayagar Medical College & Hospital, Kalitheerthalkuppam, Puducherry – 605107. Email: ezhilan.mpt@gmail.com	Member
7.	Dr. M. Nakkiran M.P.T. Assistant Professor, College of Physiotherapy, Sri Manakular Vinayagar Engineering College, Madagadipet, Puducherry- 605 107. Email: nakkiran.physio@smvec.ac.in	Member
8.	Dr. S. Anbumalar M.E., Ph.D. Dean Academics(circuit), College of Physiotherapy, Sri Manakular Vinayagar Engineering College, Madagadipet, Puducherry- 605 107. Email: deanacademic@smvec.ac.in	Special Invitee
9.	Dr. A. A. Arivalagar M.Tech.,Ph.D. Dean Academics(core), College of Physiotherapy, Sri Manakula Vinayagar Engineering College, Madagadipet, Puducherry -605107. Email:deanacademic1@smvec.ac.in	Special Invitee
10.	Dr. K. Manikandan M.S.(ortho.) Associate Professor, Department of Orthopaedics, Sri Manakula Vinayagar Engineering College & Hospital, Kalitheerthalkuppam, Puducherry – 605107. Email: manikandan7008@gmail.com	Subject expert (Special Invitee)

11.	Dr. J. Sathyanarayanan M.D. Associate Professor, Department of Medicine, Sri Manakula Vinayagar Medical College & Hospital, Kalitheerthalkuppam, Puducherry – 605107. Email: drisathianarayannan@gmail.com	Subject expert (special invitee)
-----	---	-------------------------------------

Dean
COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107.

2.4.69

Dean
COLLEGE OF ENGINEERING
Dr. Mary's Virginia Engineering College
(An Autonomous Institution)
Mechanical, Bannary Road, 101

2-H-70

Agenda of the meeting

Item No: BoS/2023/BPT/ 4.1

- To discuss and confirm the minutes of the 3rd BoS meeting of minutes BoS which was held on 14 - 02 - 23.

Item No: BoS/2023/BPT/ 4.2

- To discuss and confirm the VII and VIII semesters syllabi for the Bachelor of Physiotherapy programme under College of Physiotherapy, SMVEC Autonomous regulations 2021.

3.

Item No: BoS/2023/BPT/ 4.3

- To discuss and confirm the additional Panel of external examiners and question paper setters to the end semester examination for the academic year 2023-24.

4.

Item No: BoS/2023/BPT/ 4.4

- To discuss any other items with the permission of chair.

R. Thid — Var —
Dean 03-08-23
COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Budacherry-605 107.



Dean
COLLEGE OF PHYSIOTHERAPY
Sti Manakula Vinayagar Engineering College
(An Autonomous Institution)
Puducherry-605 007

2-H-72

Minutes of the Meeting:

Prof. R. Chidambaram, Chairman, BoS opened the meeting by welcoming and introducing the external members to the internal members and thanked them for accepting the invitation to attend the board of studies meeting and the meeting thereafter deliberated on agenda items that has been approved. The following points were discussed in the meeting.

Item No: BoS/2023/ BPT/ 4.1	To discuss and approve the minutes of the 3rd BoS meeting, which was held on 14-02-2023. ➤ The committee overviewed the previous meeting discussion and approved.																																								
Item No: BoS/2023/ BPT/ 4.2	To discuss and approve the curriculum and syllabi for VII and VIII semesters Bachelor of Physiotherapy Programme under College of Physiotherapy, SMVEC autonomous regulation 2021. ➤ The BoS recommended the VII and VIII semesters syllabi with below mentioned modification.																																								
<table border="1"> <thead> <tr> <th data-bbox="422 936 518 1019">Sl. No.</th> <th data-bbox="518 936 678 1019">Regulations</th> <th data-bbox="678 936 821 1019">Semester</th> <th data-bbox="821 936 1045 1019">Course name with Code</th> <th data-bbox="1045 936 1125 1019">Unit</th> <th data-bbox="1125 936 1332 1019">Suggestion given by BoS members</th> <th data-bbox="1332 936 1556 1019">Changes incorporated</th> </tr> </thead> <tbody> <tr> <td data-bbox="422 1019 518 1243">1.</td> <td data-bbox="518 1019 678 1243">R-2021</td> <td data-bbox="678 1019 821 1243">VII</td> <td data-bbox="821 1019 1045 1243">"Physiotherapy in neurological disorders" (Theory) U21BPTT747</td> <td data-bbox="1045 1019 1125 1243">5</td> <td data-bbox="1125 1019 1332 1243">Topic "Deep vein thrombosis" can be included in the syllabi.</td> <td data-bbox="1332 1019 1556 1243">Topic "Deep vein thrombosis" was included.</td> </tr> <tr> <td data-bbox="422 1243 518 1512">2.</td> <td data-bbox="518 1243 678 1512">R-2021</td> <td data-bbox="678 1243 821 1512">VII</td> <td data-bbox="821 1243 1045 1512">"Physiotherapy in obstetrics and gynecological conditions" (Theory) U21BPTT748</td> <td data-bbox="1045 1243 1125 1512">2</td> <td data-bbox="1125 1243 1332 1512">10 hours can be reduced.</td> <td data-bbox="1332 1243 1556 1512">10 hours was reduced.</td> </tr> <tr> <td data-bbox="422 1512 518 1758">3.</td> <td data-bbox="518 1512 678 1758">R-2021</td> <td data-bbox="678 1512 821 1758">VII</td> <td data-bbox="821 1512 1045 1758">"Physiotherapy in neurological conditions" (Theory) U21BPTT747</td> <td data-bbox="1045 1512 1125 1758">3 & 5</td> <td data-bbox="1125 1512 1332 1758">Add more hours to teaching in syllabi.</td> <td data-bbox="1332 1512 1556 1758">5 hours had been added in unit 3 & another 5 hours had been added in unit 5.</td> </tr> <tr> <td data-bbox="422 1758 518 2072">4.</td> <td data-bbox="518 1758 678 2072">R-2021</td> <td data-bbox="678 1758 821 2072">VII</td> <td data-bbox="821 1758 1045 2072">"Veterinary physiotherapy" (Theory) U21BPTT753</td> <td data-bbox="1045 1758 1125 2072">2</td> <td data-bbox="1125 1758 1332 2072">Modify the syllabi</td> <td data-bbox="1332 1758 1556 2072">"Basic concepts behaviour, anatomy, exercise physiology & wound healing response to musculoskeletal tissue to</td> </tr> </tbody> </table>							Sl. No.	Regulations	Semester	Course name with Code	Unit	Suggestion given by BoS members	Changes incorporated	1.	R-2021	VII	"Physiotherapy in neurological disorders" (Theory) U21BPTT747	5	Topic "Deep vein thrombosis" can be included in the syllabi.	Topic "Deep vein thrombosis" was included.	2.	R-2021	VII	"Physiotherapy in obstetrics and gynecological conditions" (Theory) U21BPTT748	2	10 hours can be reduced.	10 hours was reduced.	3.	R-2021	VII	"Physiotherapy in neurological conditions" (Theory) U21BPTT747	3 & 5	Add more hours to teaching in syllabi.	5 hours had been added in unit 3 & another 5 hours had been added in unit 5.	4.	R-2021	VII	"Veterinary physiotherapy" (Theory) U21BPTT753	2	Modify the syllabi	"Basic concepts behaviour, anatomy, exercise physiology & wound healing response to musculoskeletal tissue to
Sl. No.	Regulations	Semester	Course name with Code	Unit	Suggestion given by BoS members	Changes incorporated																																			
1.	R-2021	VII	"Physiotherapy in neurological disorders" (Theory) U21BPTT747	5	Topic "Deep vein thrombosis" can be included in the syllabi.	Topic "Deep vein thrombosis" was included.																																			
2.	R-2021	VII	"Physiotherapy in obstetrics and gynecological conditions" (Theory) U21BPTT748	2	10 hours can be reduced.	10 hours was reduced.																																			
3.	R-2021	VII	"Physiotherapy in neurological conditions" (Theory) U21BPTT747	3 & 5	Add more hours to teaching in syllabi.	5 hours had been added in unit 3 & another 5 hours had been added in unit 5.																																			
4.	R-2021	VII	"Veterinary physiotherapy" (Theory) U21BPTT753	2	Modify the syllabi	"Basic concepts behaviour, anatomy, exercise physiology & wound healing response to musculoskeletal tissue to																																			

						disuse & mobilization" was changed to "Basic anatomy & physiology in view to pet animals".
5.	R-2021	VII	"Community physiotherapy" (Theory) U21BPTT749	2	The words "Physically handicapped" can be changed to "Physically challenged"	The word "Physically challenged" was included.
6.	R-2021	VIII	"Rehabilitation medicine" (Theory) U21BPTT858		New course in the name "Rehabilitation medicine" can be added and the course "Co-curricular activities" can be disgaarded.	New course in the name "Rehabilitation medicine" was included.
7.	R-2021	VIII	Community physiotherapy (Practical) U21BPTP859		Practical examination proforma should be included.	Practical examination proforma was added.
8.	R-2021	VII & VIII	Clinical training (Practical) U21BPTP755 U21BPTP864		Change these courses from theory component to practical component.	Included in practical component.

Please see annexure no. 1.

Item No: BoS/2023/ BPT/ 4.3	To discuss & confirm the panel of external examiners to the end semester examinations for the academic year 2023-24. ➤ The BoS meeting approved the panel of external examiners to the end semester examinations for question paper setting and exams paper valuation with respect to B.P.T. programme under 2021 regulations. <i>Please see annexure no. 2.</i>
Item No: BoS/2023/ BPT/ 4.4	Any other item with the Permission of chair.

Dean
COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107.



SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE

(An Autonomous Institution)

(Approved by AICTE, New Delhi & Affiliated to Pondicherry University)

(Accredited by NBA-AICTE, New Delhi, Accredited by NAAC with 'A' Grade)

Madagadipet, Puducherry - 605 107



Venue: Conference Hall, SMVEC

Date: 06-07-2023

College of Physiotherapy

4th Board of Studies meeting Attendance Sheet

Sl. No	Name of the member with designation & official address	Members as per UGC norms	Signature
1.	Prof. Dr. R. Chidambaram M.P.T. Dean, College of Physiotherapy, Sri Manakula Vinayagar Engineering College, Madagadipet, Puducherry - 605107.	Chairman	R. Chidambaram 06-07-23
2.	Prof. Dr. Balu M.P.T. Professor, School of Physiotherapy, Arupadaiveedu Medical College, Kirumambakkam, Puducherry - 607403. Email: balukhanphysio007@gmail.com	Subject expert (University Nominee)	Balu
3.	Prof. Dr. A. Dinakaran M.P.T. Principal, Adhiparasakthi College of Physiotherapy, Melmaruvathur - 603319. Email: apcopt1994@gmail.com	Subject expert (Academic Council Nominee)	A. Dinakaran 6/7/23
4.	Prof. KSI. Dr. Murali Sankar M.P.T., Director, School of Physiotherapy, Arupadaiveedu Medical College, Kirumambakkam, Puducherry - 607403. Email: Director.sptpd@vmu.edu.in	Subject expert (Academic Council Nominee)	Murali Sankar
5.	Dr. S. D. Lakshmi Vasani B.P.T. Chief Physiotherapist, Sri Kumaran Physiotherapy Clinic, Villupuram. Email: lakmivasani@live.in	Representative from industry	S. D. Lakshmi Vasani


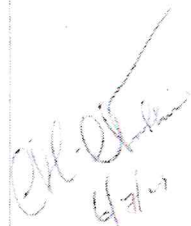

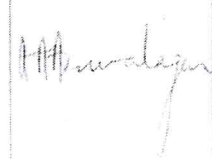


R. Chidambaram

Dean 03-08-23

COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107

Signature

2.4.77

6.	Dr. K. Ezhilan M.P.T. Chief Physiotherapist. Sri Manakula Vinayagar Medical College & Hospital. Kalitheerthalkuppam. Puducherry - 605107. Email: ezhilan.mpt@gmail.com	Member	
7.	Dr. M. Nakkiran M.P.T. Assistant Professor. College of Physiotherapy. Sri Manakular Vinayagar Engineering College. Madagadipet. Puducherry- 605 107. Email.nakkiran.physio@smvec.ac.in	Member	
8.	Dr. S. Anbumalar M.E., Ph.D. Dean Academics(circuit). College of Physiotherapy. Sri Manakular Vinayagar Engineering College. Madagadipet. Puducherry- 605 107. Email: deanacademic@smvec.ac.in	Special Invitee	
9.	Dr. A. A. Arivalagar M.Tech.,Ph.D. Dean Academics (core). College of Physiotherapy. Sri Manakula Vinayagar Engineering College. Madagadipet. Puducherry -605107. Email: deanacademic1@smvec.ac.in	Special Invitee	
10.	Dr. J. Sathyanarayanan M.D. Associate Professor. Department of Medicine. Sri Manakula Vinayagar Medical College & Hospital. Kalitheerthalkuppam. Puducherry - 605107. Email: drisathiyannan@gmail.com	Subject expert (special invitee)	
11.	Dr. K. Manikandan M.S.(ortho.). Associate Professor. Department of Orthopaedics Sri Manakula Vinayagar Medical College & Hospital. Kalitheerthalkuppam. Puducherry - 605107. Email: manikandan7008@gamil.com	Subject expert (Special Invitee)	

Annexure - 1

Dean
COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107.

2.4.79

Dean
COLLEGE OF PHYSIOTHERAPY
St. Marikula Vinayagar Engineering College
(An Autonomous Institution)
Madhavipet, Puducherry-605 007

2.H.80

Curriculum Structure for VII Semester

Core Courses					
Sl. No.	Course Code	Course Name	Theory (in hours)	Practical in hours)	Total (in hours)
1.	U21BPTT747	Physiotherapy in neurological conditions (Theory)	100	-	100
2.	U21BPTT748	Physiotherapy in obstetrics and gynecological conditions (Theory)	65	15	80
3.	U21BPTT749	Community physiotherapy- I (Theory)	60	-	60
4.	U21BPTT750	Clinical cardio respiratory conditions (Theory)	90	-	90
5.	U21BPTT751	Physiotherapy in neurological conditions (Practical)	-	90	90
Auxiliary Courses					
6.	U21BPTT752	Research methodology and Bio-statistics	45	-	45
7.	U21BPTT753	Veterinary physiotherapy	15	-	15
8.	U21BPTP754	Case presentation		30	30
9.	U21BPTP755	Clinical training		90	90
Total hours:					600

R. Chidambaram
03-08-23

Dean

COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107.

[Handwritten Signature]
 3/8/23

2-H-81

2.H.82

Madrasipet, Puducherry-605 007.
(An Autonomous Institution)
Sri Manakula Vinayagar Engineering College
Dean
COLLEGE OF PHYSIOTHERAPY

PHYSIOTHERAPY IN NEUROLOGICAL CONDITIONS

COURSE CODE: U21BPTT747

TOTAL HOURS: 100

COURSE DESCRIPTION:

The subject serves to integrate the knowledge gained by the students in neurology with skills to apply these in clinical situations of dysfunction and nervous system pathology.

Physiotherapy in neurological condition focuses on maximizing functional independence and well-being. The course uses a patient-centered model of care with multi-system assessment, evidence based interventions and a significant patient education component to promote a healthy, active lifestyle and community-based living.

COURSE OBJECTIVES:

The objective of the course is that after the specified hours of lectures and demonstrations the student will be able to identify disabilities due to neurological dysfunction, plan and set treatment goals and apply the skills gained in exercise therapy and electrotherapy in these clinical situations to restore neurological functions.

R. Chidambaram

Dean

03-08-23

COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107.

2-11-83

Unit	Topic	Didactic Hours	Clinical Hours	Total Hours
I	<p>NEURO ANATOMY AND NEURO PHYSIOLOGY</p> <ol style="list-style-type: none"> 1. Cerebral hemispheres 2. Cerebellum 3. Spinal cord 4. Peripheral nerves 5. Pyramidal system 6. Extra pyramidal system 7. Cranial nerves 	6	2	8
II	<p>DEFINITION, CLINICAL FEATURES AND PT MANAGEMENT FOR THE FOLLOWING CONDITIONS.</p> <p>CONGENITAL AND CHILDHOOD DISORDERS</p> <ol style="list-style-type: none"> 1. Hydrocephalus 2. Cerebral palsy 3. Spina bifida 4. Craniovertebral junction anomalies 5. Arnold chiari malformation 6. Dandy walker syndrome. 	8	2	10
III	<ol style="list-style-type: none"> 1. PHYSIOTHERAPY MANAGEMENT FOR CEREBROVASCULAR ACCIDENTS <ol style="list-style-type: none"> i. General classification, thrombotic, embolic, haemorrhagic, inflammatory strokes. ii. Gross localization and sequelae. iii. Detailed rehabilitative programme 2. PHYSIOTHERAPY MANAGEMENT FOR TRAUMA <ol style="list-style-type: none"> i. Head injury ii. Spinal cord injury 	23	6	29

COLLEGE OF PHYSIOTHERAPY
 Dr. Manoj Kumar Vaidya Engineering College
 (An Autonomous Institution)
 Madhavipal, Pudukottai-605 007.

Unit	Topic	Didactic Hours	Clinical Hours	Total Hours
IV	<p>1. PHYSIOTHERAPY MANAGEMENT FOR DISEASE OF THE SPINAL CORD</p> <p>i. Syringomyelia ii. Spinal arachnoiditis iii. T.B. Spine iv. Tumors in spinal cord</p> <p>2. PHYSIOTHERAPY MANAGEMENT FOR DEMYELINATING DISEASES (CENTRAL AND PERIPHERAL)</p> <p>i. Guillain - barre syndrome ii. Acute disseminated encephalomyelitis. iii. Transverse myelitis iv. Multiple sclerosis</p> <p>3. PHYSIOTHERAPY MANAGEMENT FOR DISEASES OF THE MUSCLE</p> <p>i. Myopathies ii. Muscular dystrophy iii. Spinal muscular atrophy</p> <p>4. PHYSIOTHERAPY MANAGEMENT FOR DEGENERATIVE DISORDERS</p> <p>i. Parkinson' disease ii. Dementia iii. Alzheimer's disease</p>	25	7	32
V	<p>1. PHYSIOTHERAPY MANAGEMENT FOR PERIPHERAL NERVE DISORDERS</p> <p>i. Peripheral nerve injuries : localization and management ii. Entrapment neuropathies iii. Peripheral neuropathies</p>	7	1	8

Unit	Topic	Didactic Hours	Clinical Hours	Total Hours
	2. MISCELLANEOUS			
	i. Epilepsy: Definition, classification and PT management. ii. Myasthenia gravis: Definition, course PT and management. iii. Intracranial tumors: Broad classification, signs, symptoms and PT management. iv. PT management for motor neuron disease. v. Deep vein thrombosis (DVT): Definition, symptoms & PT management.	12	1	13

RECOMMENDED TEXT BOOKS

- 1) Patricia A, Cash's "Text Book of Neurology for Physiotherapist," Jaypee Brothers Publishers, 4th edition, 1993.
- 2) Darcy Umphred, "Neurological Rehabilitation," Elsevier Publishers, 6th edition, 2012.
- 3) Susan B O'Sullivan, "Physical Rehabilitation," F A Davis Company Publishers, 6th edition, 2013.
- 4) Patricia M. Davies, "Right in the Middle," Springer -Verlag Publishers, 2nd edition, 2006.
- 5) Berta Bobath, "Adult Hemiplegia Evaluation and Treatment," Elsevier Publishers, 2nd edition, 2009.
- 6) Adams and Victor's, "Principles of Neurology," M C Graw Hill Publishers, 11th edition, 2019.

RECOMMENDED REFERENCE TEXT BOOKS

- 1) Ida Bromley, Tetraplegia and Paraplegia, "A guide for physiotherapists," Churchill Livingstone Publishers, 7th edition, 2006.
- 2) Suzann K Campell, "Paediatric Neurologic Physical Therapy," Elsevier Publishers, 2nd edition, 1984.
- 3) Martin Kessler, "Neurologic Interventions for Physical Therapy," Elsevier Publishers, 4th edition, 2020.
- 4) Susan Edwards, "Neurological Physiotherapy," Elsevier Publishers, 2nd edition, 2001.
- 5) Patricia M. Davies, "Steps to Follow," Springer -Verlag Publishers, 1st edition, 2000.

2.11.86

- 6) Karen Whalley Hammell, "Spinal Cord Injury Rehabilitation," Springer-Verlag Publishers, 1st edition, 2014.

RECOMMENDED WEB REFERENCE

- 1) www.Physiospot.com
- 2) www.connectneurophysiotherapy.com
- 3) www.physio.co.uk/treatments.com
- 4) www.neuroconnectrehab.co.uk/com
- 5) www.physiotherapy-treatment.com
- 6) www.mobilephysiotherapyclinic.in/stroke-physiotherapy.com
- 7) www.cambridge.org/core/books/stroke-prevention-and-treatment.com

Dean
COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107.

2.4.87

Dean
COLLEGE OF PHYSIOTHERAPY
St. Monica's Vinayagar Engineering College
(An Autonomous Institution)
Madhavipat, Puducherry-605 001.

2-A-88

PHYSIOTHERAPY IN OBSTETRICS AND GYNAECOLOGICAL CONDITIONS

COURSE CODE: U21BPTT748

TOTAL HOURS: 80

COURSE DESCRIPTION:

At the end of the course of obstetrics and gynecology, the students will be able to provide proper care in managing women's health including pregnancy, labour and puerperium and thereby to ensure maternal, neonatal health and well-being.


COURSE OBJECTIVE:

At the end of the course, the candidate,

- a) To obtain knowledge, expertise and skills towards the physiotherapy interventions in Women's.
- b) To understand the role of physiotherapy for various women's health disorders.
- c) To gain knowledge about the various physiotherapy interventions at child bearing age.
- d) To understand the effective strategies for clinical management of various conditions in older women's. Educate patients regarding the prevention and post-operative care after gynecological surgeries.

SYLLABUS

Unit	Topics	Didadic Hours	Clinical/ practical Hours	Total Hours
I	<p>PHYSIOTHERAPY ASSESSMENT IN OBG</p> <ol style="list-style-type: none"> i. Pre and post-operative assessment for gynecological surgery. ii. Assessment of pelvic pain, bowel dysfunction assessment, menstrual disorders assessment. iii. Pelvic floor assessment: measurement of pelvic floor muscle function and strength. iv. Assessment of urinary dysfunction, Assessment of urinary incontinence. v. Antenatal physiotherapy assessment. vi. Pre natal and post natal physiotherapy assessment. 	10	2	12


 R. Chidambaram
 Dean
 03-08-23
COLLEGE OF PHYSIOTHERAPY
 Sri Manakula Vinayagar Engineering College
 (An Autonomous Institution)
 Madagadipet, Puducherry-605 107.

2.4.89

Unit	Topics	Didadic Hours	Clinical/ practical Hours	Total Hours
II	<p>PHYSIOTHERAPY MANAGEMENT IN ADOLESCENCE</p> <ul style="list-style-type: none"> i. Physiotherapy management for amenorrhea and dysmenorrhea ii. Physiotherapy management in urinary incontinence. 	15	3	08
III	<p>PHYSIOTHERAPY IN ANTENATAL PERIOD</p> <ul style="list-style-type: none"> i. Importance of prenatal exercise, ii. Antenatal classes and benefits of exercise in pregnancy. iii. Indications, contraindications and precautions. iv. Various exercises during pregnancy flexibility, strengthening and conditioning exercises. v. Relaxation technique in prenatal education. Physiologic basis for relaxation training, Fitness in childbearing year, Psycho analgesic methods of pain control, Physiotherapy management of musculoskeletal dysfunction during pregnancy. vi. Physiotherapy management for high risk pregnancy. 	20	5	25

COLLEGE OF PHYSIOTHERAPY
 Sri Mankula Vinayagar Engineering College
 (An Autonomous Institution)
 Madhavipal, Panchsara-522 101

2.14.90

Unit	Topics	Didadic Hours	Clinical/ practical Hours	Total Hours
	<ul style="list-style-type: none"> vii. Physiotherapy management in different stages of pregnancy. viii. Physiotherapy intervention for gestational diabetes and hypertension. ix. Effects of aerobic exercise during pregnancy. 			
IV	<p>PHYSIOTHERAPY MANAGEMENT IN POST NATAL PERIOD</p> <ul style="list-style-type: none"> i. Obstetric anal sphincter injury-anal sphincter exercises, pelvic floor muscle exercises. ii. Postpartum physical/mental condition postnatal care, Educational principles for individual learning of exercises, ergonomics. iii. Postnatal home exercise, exercise classes in the community, Kegels exercises functional exercises, therapeutic modalities for post-operative pain management. iv. Immediate post natal complications and its management, late post natal complications and its management 	15	5	20
V	<p>PHYSIOTHERAPY INTERVENTION AFTER GYNECOLOGICAL SURGERIES.</p> <ul style="list-style-type: none"> i. Hysterectomy ii. After delivery with episiotomy iii. After birth with symphysiolysis, caesarean section iv. After surgical intervention in ectopic pregnancy v. oncological conditions vi. Stress incontinence 	15		15

Dean
COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107.

2.H.91

Recommended text books:

1. Jill mantle, Jeanette haslam, Margaret polden “physiotherapy in obstetrics and gynecology” 2nd edition, 2004.
2. Carolyn Kisner, “Therapeutic Exercise Foundations and Technique”, jaypee 7th edition, 2018.
3. Rebecca G. Stephenson, Linda J. O’ Connor, “Obstetric and Gynecologic Care in Physical Therapy”, slack books, 2nd edition, 2016.
4. O'Sullivan, Susan, “Physical rehabilitation: Assessment and treatment” A. Davis 7th edition 2020.

Recommended Reference books:

1. Bo, K., Bergman’s, L.C.M., and Van Kampen, Evidence-based physical therapy for the pelvic floor: Bridging science and clinical practice, Churchill Livingstone 1st edition, 2015.
2. Hacker Moore Gambone, Essential of obstetrics and gynecology, Elsevier, 6th edition 2016.
3. Sapsford R, Markwell, Bullock–Saxton J “Women’s Health: A Textbook for Physiotherapists” WB Saunders Company Ltd 1st edition.

Recommended web references:

1. Labour physiopedia.
2. www.sciencedirect.com physiotherapy in obstetrics and gynecology.

Dean
COLLEGE OF PHYSIOTHERAPY
St. Marcellus Vinayagar Engineering College
(An Autonomous Institution)
Madhavipal, Puducherry-605 007.

2.H.92

COMMUNITY PHYSIOTHERAPY- I

COURSE CODE: U21BPTT749

TOTAL HOURS : 60

COURSE DESCRIPTION:

Community Physiotherapy describes the roles & responsibilities of the Physiotherapist as an efficient member of the society. This component introduces the physiotherapist to a proactive preventive oriented philosophy for optimization & betterment of health.

OBJECTIVES:

1. Physiology of aging process and its influence on physical fitness.
2. National policies for the rehabilitation of disabled – role of PT.
3. The evaluation of disability and planning for prevention and rehabilitation.
4. Rehabilitation in urban and rural set up.
5. Be able to gain the ability to collaborate with other health professionals for effective service delivery & community satisfaction.

SYLLABUS

Sl.No.	Topics	Didactic Hours	Total Hours
I	1. HEALTH PROMOTION: i. W.H.O. definition of health and disease. ii. Health Delivery System – 3 tier iii. Physical Fitness: definition and evaluation related to obesity.	12	12
	2. COMMUNITY: i. Definition of community, Multiplicity of community, The community based approach, Community entry strategies, CBR and Community development, Community initiated versus community oriented programme.		

R. Thidhar

Dean 03-08-23

COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107.

2.H.93

Sl.No.	Topics	Didactic Hours	Total Hours
II	<p>1. COMMUNITY BASED REHABILITATION: Definition, historical review, concept of CBR, Need of CBR, objectives of CBR, scope of CBR, Members of CBR team, differences between institution based & community based rehabilitation.</p> <p>i. Agencies involved in rehabilitation of physical challenged, legislation for physically challenged.</p> <p>ii. Role of physiotherapy in CBR.</p>	12	12
III	<p>1. DISABILITY: i. Definition of impairment, handicap and disability, difference between impairment, handicap and disability, causes for disability, types of disability, prevention of disability, disability in developed countries and in developing countries.</p> <p>ii. Disability surveys: demography.</p> <p>iii. Screening: early detection of disabilities and development disorders</p> <p>iv. Prevention of disabilities - types and levels.</p>	12	12

2. H. 94

Sl.No.	Topics	Didactic Hours	Total Hours
	2. DISABILITY EVALUATION: i. Introduction, what, why and how to evaluate, quantitative versus qualitative data, uses of evaluation findings.		
IV	1. GERIATRICS: i. Senior citizens in India ii. NGO's and health related legal rights and benefits for the elderly. iii. Institutionalized & community dwelling elders. iv. Theories of aging. v. Physiology of ageing: Musculoskeletal, neurological, cardio respiratory, metabolic changes. vi. Scheme of evaluation & role of PT in geriatrics.	12	12
V	1. INDUSTRIAL HEALTH i. Introduction to industrial health: definition, model of industrial therapy (Traditional medical & industrial model) ii. Worker care spectrum: Ability management – job analysis - job description, job demand analysis, task analysis, ergonomics evaluation, injury prevention and employee fitness program.	12	12

2. H. 95

Recommended text books

1. T. Bhaskara Rao, "Textbook of community medicine & community rehabilitation", paras medical publisher, 2013.
2. Dale Avers, Rita A. Wong "Guccione's Geriatric physical therapy", Elsevier publications, 4th edition, 2020.
3. Glenda L. Key "Industrial therapy", Mosby, 1995.
4. Pruthish "Community based rehabilitation of person with disabilities", Jaypee publishers, 2006.

Recommended Reference Books

1. K. Park "Textbook of preventive and social medicine", Generic publisher, 22nd edition, 2013.
2. Helander, Einar "Training disabled people in the community: a manual on community based rehabilitation for developing countries", world health organization, 1983.

Recommend web references

1. "Punarbhava" - National interactive web portal on disability.
2. www.physio-pedia.com

2. H. 96

CLINICAL CARDIO RESPIRATORY CONDITIONS

COURSE CODE: U21BPTT750

TOTAL HOURS: 90

COURSE DESCRIPTION:

Following the basic science and clinical science courses, this course introduces the student to the cardio – respiratory conditions which commonly cause disability.

COURSE OBJECTIVE:

The objective of this course is after 90 hours of lectures & demonstrations, in addition to clinics, the student will be able to demonstrate an understanding of cardio – respiratory condition causing liability and their management.

SYLLABUS

UNIT	TOPICS	DIDADIC/ THEORY HOURS	CLINICAL/ PRACTICAL HOURS	TOTAL HOURS
I	1.Review Of Anatomy & Physiology : i. Anatomy of the lungs, bronchi and Broncho pulmonary segments. ii. the relationship of the bony thorax and lungs iii. abdominal contents and lungs iv. movements of the thorax respirations v. muscles of respirations vi. Anatomy of the heart and its blood supply and electrical activity of the myocardium and normal ECG. vii. Physiological control of respiration (respiratory center & receptors) viii. Mechanism for maintenance of blood pressure. ix. Cough reflex. x. The mechanical factor involved in breathing. xi. factors affecting diffusion of O ² and CO ² in the lungs.	15		15

R. Chidambaram

Dean

03-08-23

COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107.

2.H.97

II	<p>1. Cardio Vascular System</p> <ul style="list-style-type: none"> i. Myocardial Infarction ii. Heart Failure iii. Cardiac Arrest <p>{Definition, Causes Pathogenesis, Signs & symptoms ,Complication ,Management}</p> <p>2. Rheumatic Fever</p> <p>{Definition, Causes Pathogenesis, Signs & symptoms ,Complication ,Management.}</p> <p>3. Congenital & Acquired Heart Diseases</p> <ul style="list-style-type: none"> i. A S D ii. V S D iii. P D A iv. Tetralogy of Fallot's v. Transposition of great vessels vi. AV Malformation vii. Mitral stenosis viii. Mitral regurgitation ix. Aortic stenosis x. Aortic regurgitation. <p>{Definition, Causes Pathogenesis, Signs & symptoms ,Complication ,Management}</p> <p>4. Ischemic Heart Diseases</p> <p>{Definition, Causes Pathogenesis, Signs & symptoms, Complication, Management.}</p>	20		20
III	<p>1. Pulmonary Embolism</p> <ul style="list-style-type: none"> i. Etiology ii. Clinical features iii. Management <p>2. Introduction To Cardiac Surgery</p> <ul style="list-style-type: none"> i. Types of incision ii. Pre- and post-operative assessment iii. Complications iv. Management 	10		10
IV	<p>1. Cardiac Surgery:</p> <ul style="list-style-type: none"> i. List the cardiac conditions requiring closed heart surgery and briefly describe the following: open heart surgery {OHS} AND closed heart surgery {CHS} a. thoracotomy – median sternotomy 			

IV	<ul style="list-style-type: none"> b. Heart lung machine c. Angioplasty d. Coronary artery bypass graft e. Percutaneous transluminal coronary angioplasty f. Valve replacement g. valvotomy h. Acquired heart diseases i. Mitral stenosis j. Aortic stenosis k. congenital heart diseases l. Patent ductus arteriosus m. coarctation of aorta 	15		15
V	<p>1. The clinical features and management of the following:</p> <ul style="list-style-type: none"> i. Fracture ribs ii. Flail chest iii. Stove in chest iv. Pneumothorax v. Haemothorax vi. Haemopneumo thorax vii. Lung contusion & laceration viii. Injury to heart, great vessels & bronchus ix. Carcinoma of lung. <p>2. Post-operative management for the following:</p> <ul style="list-style-type: none"> i. Segmentectomy ii. Lobectomy iii. Bilobectomy iv. Pneumonectomy v. pleuropneumonectomy vi. tracheostomy vii. pleurodesis viii. thoracoplasty ix. lung transplant i. Post extubation care. 	30		30

Recommended text books:

1. Davidson's, "Principles and Practice of Medicine", Elsevier health sciences, 24th edition, 2022.
2. Harrison's, "Internal Medicine", McGraw Hill / Medical, 21st edition. 2022.
3. Bailey and Love's, "Short Practice of Surgery" CBS publishers and distributors Pvt.Ltd, 28th edition, 2023.
4. Ellen Hilligoss, "Essentials of cardiopulmonary physical therapy" Elsevier health sciences, 5th edition. 2022
5. Gowalla's, "medicine for students", Jaypee brothers' medical publishers, 25th edition, 2017.
6. Downie, patricia.A, "Cash text book of cardio respiratory condition for physiotherapy", Elsevier health sciences, 2005

Recommended references books:

1. Mariya jandani, "Physiotherapy in cardiopulmonary condition", Jaypee brothers' medical publishers, 2022
2. Eleanor main, Linda Denehy, "Cardiorespiratory physiotherapy", Elsevier health sciences, 5th edition, 2023.
3. Eleanor main, Linda Denehy, "Cardiorespiratory physiotherapy adults and pediatrics", Elsevier health sciences, 5th edition, 2022
4. Fish man's "pulmonary diseases and disorder", 2- volume set., McGraw Hill / Medical., 6th edition, 2022

Recommended web-References:

1. Wiley online library
2. [www. Escardio.org/education/textbooks/general-cardiology](http://www.Escardio.org/education/textbooks/general-cardiology)

2. H. 100

Dean
COLLEGE OF PHYSIOTHERAPY
Sti Marakula Vinayagar Engineering College
(An Autonomous Institution)
Madhavipet, Puducherry - 605 017.

PHYSIOTHERAPY IN NEUROLOGICAL CONDITIONS

PRACTICAL

COURSE CODE: U21BPTP751

TOTAL HOURS: 90

ASSESSMENT

- 1) Basic history taking to determine whether the brain, spinal cord or peripheral nerve is involved.
- 2) Assessment of higher mental function as orientation, memory, attention, speech and language.
- 3) Assessment of cranial nerves.
- 4) Assessment of motor power.
- 5) Assessment of sensory function- touch, pain and position.
- 6) Assessment of tone - spasticity, rigidity.
- 7) Assessment of cerebellar function.
- 8) Assessment of higher cortical function.
- 9) Assessment of gait abnormalities.

PRINCIPLES OF TREATMENT

- 1) Principles and theories of motor control and learning.
- 2) Application of transfer and functional re-education exercise, postural exercise and gait training.
- 3) Functional training in bladder dysfunction.
- 4) Principles of co-ordination and balance exercise.
- 5) Understand and application of neuro therapeutic skills like PNF, NDT, Brunstrom, Rood approach.
- 6) Principles of use of ambulatory aids in neurological conditions – UMN lesion, LMN lesion, cerebellar dysfunction.
- 7) Principles of use of splints and braces in spastic UMN lesion and in flaccid LMN lesion in Both UL & LL.
- 8) Review the management of chronic pain in neurological condition with respect to the type of pain, treatment modalities available, and selection criteria for each modality.
- 9) Treatment of altered tone – hyper tonicity and hypo tonicity.
- 10) Sensory reeducation – hypersensitivity, hyposensitivity, anesthesia.
- 11) Motor re-education – strengthening exercises, co-ordination exercise, joint mobilization exercise, use of PNF technique.
- 12) Treatment to improve function – free exercise, activities of daily living, mat exercise.

R. Chidambaram
Dean 03-08-23
COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107.

2.4.101

2-H-102

Dean
COLLEGE OF PHYSIOTHERAPY
Sti Wacataha Vinyaga Engineering College
(An Autonomous Institution)
Medical, Panchayath-605 107

RESEARCH METHODOLOGY & BIO-STATISTICS

COURSE CODE: U21BPTT752

TOTAL HOURS: 45

COURSE DESCRIPTION:

The course is designed to enable the students to develop an understanding of basic concepts of research, research process and statistics in professional practice.

OBJECTIVES:

At the end of the course, the candidate should
Gain knowledge of the basic concepts of biostatistics & its need for professional practice, research design & methodology of an experiment or survey, sampling & interpretation of data.

SYLLABUS

UNIT	CONTENT	DIDADIC/ THEORY HOURS	CLINICAL/ PRACTICAL HOURS	TOTAL HOURS
I	<ol style="list-style-type: none">1. Introduction to Research Methodology<ol style="list-style-type: none">i. Meaning of researchii. Objectives of researchiii. Types of research & research approachesiv. Criteria for good researchv. Problems encountered by researchers in India.vi. Ethics in research2. Sampling Design<ol style="list-style-type: none">i. Criteria for selecting sampling procedureii. Steps in sampling designiii. Characteristics of good sample designiv. Different types of sample design	10		10
II	<ol style="list-style-type: none">1. Methods of data collection<ol style="list-style-type: none">i. Collection of primary dataii. Collection of data through questionnaires & schedulesiii. Difference between questionnaires & schedules.2. Testing of hypothesis<ol style="list-style-type: none">i. Define hypothesisii. Basic concepts concerning testing of hypothesisiii. Procedure of hypothesis testingiv. Measuring the power of hypothesis test,v. Tests of hypothesis	10		10

R. Fridhar

Dean

03-08-23

Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)

2.H.103

III	1. Introduction to Biostatistics i. Definition ii. Importance of biostatistics iii. Branches of biostatistics 2. Tabulation of Data i. Basic principles of graphical representation ii. Types of diagrams – histograms, frequency polygons, smooth frequency polygon, cumulative frequency curve iii. Normal probability curve.	8		8
IV	1. Measure of Central Tendency i. Definition and calculation of mean, median, mode. ii. Comparison of mean, median and mode 2. Probability And Standard Distributions i. Meaning of probability of standard distribution ii. The binominal distribution iii. The normal distribution iv. Divergence from normality – skewness, kurtosis.	10		10
V	1. Sampling Techniques i. Need for sampling – Criteria for good samples ii. Procedures of sampling and sampling designs errors iii. Sampling variation and tests of significance. 2. Statistical Significance i. Parametric tests: - t test, ii. Non parametric tests: - chi square test, Mann-whitney U test, Z test, Wilcoxon's matched pair test iii. Correlations	7		7

Recommended text books:

1. B. K. Mahajan, "Methods in Biostatistics". Jaypee brothers, 6th edition.
2. C R Kothari "Research methodology methods and techniques", new age international publishers, 4th edition, 2019.
3. R. pannerselvam, "Research methodology", 2nd edition, PHI learning, 2014.

Recommended references books:

1. K. Visweshwar Rao, "Biostatistics A manual of Statistics Methods", Jaypee Brothers Medical Publishers, 2nd edition 2009.
2. Hicks, "Research methodology and biostatistics for physical therapists", Elsevier Health Sciences, 5th edition, 2009
3. J. Richard, P. S. S. Sundar Rao, "An Introduction to Biostatistics and research methods", PHI Learning, 2006

Recommended web-References:

1. Www. Researchgate.Net
2. Wiley Online Library

2-14-104

VETERINARY PHYSIOTHERAPY

Course Code: U21BPTT753

TOTAL HOURS: 15 HOURS

COURSE DESCRIPTION:

The course is designed to enable the students to have knowledge of the role of physiotherapy in treating the various disorders in animals and to develop the professional work.

COURSE OBJECTIVE:

At the end of the course, student will understand

1. Various dysfunctions in pet animals.
2. Gain knowledge in order to apply physiotherapy to pet animals.
3. Various animal welfare measures.

SYLLABUS

Unit	Topic	Didactic Hours	Clinical Hours	Total Hours
I	INTRODUCTION TO VETERINARY PHYSIOTHERAPY History of veterinary Physiotherapy & rehabilitation Practice issues in veterinary physiotherapy concepts of veterinary physiotherapy & rehabilitation.	3	-	3
II	BASICS OF VETERINARY MEDICINE Basic anatomy & physiology in view to pet animals.	3	-	3
III	ASSESSMENT 1. Osteoarthritis in canines 2. Physical examination 3. Muscle strength & functions 4. Gait analysis	3	-	3

R. Chidhar

Dean 03-08-23

COLLEGE OF PHYSIOTHERAPY

Sri Manakula Vinayagar Engineering College

(An Autonomous Institution)

Madagadipet, Puducherry-605 107.

2.H.105

Unit	Topic	Didactic Hours	Clinical Hours	Total Hours
IV	PHYSIOTHERAPY FOR 1. Orthopaedic conditions 2. Neurologic conditions 3. Geriatric & arthritic conditions 4. Critically injured animals 5. Development of rehabilitation facility for small animals	3	-	3
V	ANIMAL WELFARE MEASURES 1. Blue cross society 2. Medico-legal aspects	3	-	3

Recommended text books:

1. M. M Ansari, "Principles of Veterinary physiotherapy," Write and Print Publications, 1st edition, 2016.
2. Gemma del Pueyo Motesinous, "Veterinary Physiotherapy and Rehabilitation", Servet Publications, 14th edition, 2012.

Recommended reference books:

1. Catherine Mc Gowan, "Animal Physiotherapy", Wiley Blackwel Publications, 2nd edition, 2016.

2-11-106

LIBRARY
 COLLEGE OF VETERINARY MEDICINE
 UNIVERSITY OF CALicut
 KANNUR
 690 001



COLLEGE OF PHYSIOTHERAPY

B.P.T. PROGRAMME

Course Code : UTIBPTP754

CASE PRESENTATION

Name:

Date of Assessment:

Age:

Gender:

Occupation:

Address:

Phone No:

Hand Dominance:

Presenting Complaints:

History of Presenting Complaints:

Medical History:

Surgical History:

Social History:

Personal History:

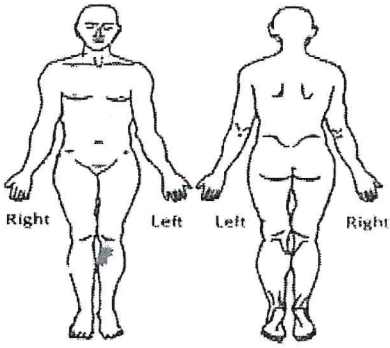
Pain Assessment:

R. zfid-har
Dean 03-08-23
COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107.

2.H.107

Madrasdipol, Puducherry-605 107.
An Autonomous Institution
Sri Manakula Vinayagar Engineering College
COLLEGE OF PHYSIOTHERAPY
Dean

2-H-2



Site:

Side:

Duration:

Type:

Severity VAS: _____

No Pain

Max Pain

Aggravating Factors:

Relieving Factors:

On Observation:

On Palpation

On Examination

Range of Motion:

Active ROM:

R. Frid - Max -
03-08-23
Dean
COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107.

2.H.109

2-H-110

Dean
COLLEGE OF PHYSIOTHERAPY
Jai Manakula Vinayagar Engineering College
(An Autonomous Institute)
Madhavaram, Chennai-600 031

Passive ROM:

Muscle Strength:

Rt

Lt

Resisted Isometrics:

End feel:

Capsular pattern:

Limb Length:

Rt

Lt

Apparent Length

True Length

Muscle Girth:

Rt

Lt

Deep Tendon Reflexes:

Rt

Lt

Superficial Reflexes:

Sensory Evaluation :

Balance Assessment:

R. Chidhar

Dean 03-08-23

COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107.

2.H.111

2.H.112

Posture Assessment:

Gait Evaluation:

Functional Assessment:

Special Test:

Investigations:

Differential Diagnosis:

Provisional Diagnosis:

Physical Therapy Diagnosis:

Management

Problem List

R. Chidambaram

Dean

03-08-23

COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107.

2.4.113

Dean
COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madhavipur, Puducherry-605 107.

411.H.2

Anticipatory Goals

Long term Goals

Physiotherapy treatment

Orthotic/Prosthetic Advice:

Home Advices:

Follow Up

Case presentation was done: _____

Signature with Date:

Staff name :

R. Chidambaram
Dean 03-08-23
COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107.

2.H.115

2. H. 116

Dean
COLLEGE OF PHYSIOTHERAPY
Shri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Narasipet, Putturky-502 101.

CLINICAL TRAINING

COURSE CODE: U21BPTP755

TOTAL HOURS: 90 HOURS

The students are posted in various departments in S.M.V.M.C.&H. such as orthopaedics, neurology, general medicine, general surgery, paediatrics and O.B.G. on rotational basis.

R. Chidambaram,
Dean 03-08-23
COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107.

2. H. 117

Dean
COLLEGE OF PHYSIC THERAPY
St. Joseph's University
1000 Locust Street
Philadelphia, PA 19107

2-H-118

Curriculum Structure for VIII Semester

Core Courses					
Sl. No.	Course Code	Course Name	Theory (in hours)	Practical (in hours)	Total (in hours)
1.	U21BPTT856	Physiotherapy in cardio – respiratory conditions (Theory)	90	-	90
2.	U21BPTT857	Sports physiotherapy (Theory)	45	15	60
3.	U21BPTT858	Rehabilitation medicine (Theory)	50	-	50
4.	U21BPTP859	Physiotherapy in cardio respiratory conditions (Practical)	-	90	90
5.	U21BPTP860	Community physiotherapy – II (Practical)	-	50	50
6.	U21BPTP861	Research project	-	70	70
Auxiliary Courses					
7.	U21BPTP862	Clinical reasoning and evidence based practice	30	-	30
8.	U21BPTP863	Case presentation		40	40
9.	U21BPTP864	Education technology	30	-	30
10.	U21BPTP865	Clinical training	-	90	90
Total hours :					600

R. Chidambaram
 Dean 03-08-23
COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
 (An Autonomous Institution)
 Madagadipet, Puducherry-605 107,

2.H.119

2.H.120

Dean
COLLEGE OF PHYSIOTHERAPY
St. Marcellus Vinayagar Engineering College
(An Autonomous Institution)
-Madhavapur, Pudukottai-605 017

PHYSIOTHERAPY IN CARDIO RESPIRATORY CONDITIONS

COURSE CODE: U21BPTT856

TOTAL HOURS: 90

COURSE DESCRIPTION:

The course is designed to enable the students to integrate the knowledge in clinical cardio-respiratory conditions with the skills gained in exercise therapy, electrotherapy and therapeutic massage and thus enabling to apply in clinical situations of dysfunction due to cardio-respiratory pathology.

COURSE OBJECTIVE:

The objective of this course is that after 90 hours of lectures, demonstrations, practical and clinics the student will be able to identify cardio-respiratory dysfunction, set treatment goals and apply their skills in exercise therapy, electrotherapy and massage in clinical situation to restore cardio-respiratory function

UNIT	TOPICS	DIDADIC/ THEORY HOURS	CLINICAL/ PRACTICAL HOURS	TOTAL HOURS
I	<p>1. Review Of Basic Applied Anatomy & Physiology</p> <ul style="list-style-type: none"> i. Pulmonary Anatomy & Physiology ii. Cardiac anatomy & Physiology iii. Cardiac and Respiratory Pharmacology iv. Biomechanics of Thorax (Revision) <p>2. Investigation And Exercise Testing</p> <ul style="list-style-type: none"> i. Investigation & Clinical Implication - X-ray, PFT, ABG, ECG, ABI, claudication time, pulses, auscultation, postural hypotension ii. Stress testing i. 6 Minute Walk test & Harward Step test Skill & Interpretation ii. Shuttle Walk Test & Modified Bruce Protocol (should be interpretation only) <p>3. Exercise Physiology</p> <ul style="list-style-type: none"> i. Nutrition (Bioenergetics) ii. Total energy expenditure (MET) sources iii. Acute and chronic adaptation to exercise iv. Complication of bed rest/ Immobilization & prevention v. Aerobic & Anaerobic Training, vi. f. Principles of Exercise Prescription 	15	5	20

R. Aridhar

Dean 02-08-23

COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
 (An Autonomous Institution)
 Madagadipet, Puducherry-605 107.

2.11.21

II	<p>1. Physiotherapy Skills</p> <ol style="list-style-type: none"> i. Bronchial Hygiene Therapy- Postural Drainage, Forced Expiratory Technique, ACBT, Autogenic Drainage ii. Adjunct Therapy – Flutter & PEP Therapy iii. Therapeutic positioning to improve ventilation & perfusion matching. iv. Therapeutic positioning to alleviate dyspnea v. Breathing exercises vi. Nebulization vii. Humidification viii. Lung Expansion Therapy ix. Neurophysiological facilitation of respiration x. Electrotherapeutic modalities for pain, swelling, & wound healing. xi. Strengthening program for respiratory muscle xii. Applied Yoga in Cardio-respiratory conditions 	15	5	20
III	<p>1. PHYSIOTHERAPY MANAGEMENT in:</p> <ol style="list-style-type: none"> i. Medical & Surgical Cardiovascular Diseases <ol style="list-style-type: none"> a. Hypertension b. I.H.D., Myocardial Infarction c. Valvular Heart Disease d. Other Arterial disorders ii. Obstructive & Restrictive Respiratory disorders <ol style="list-style-type: none"> a. Bronchitis b. Emphysema c. Bronchial Asthma d. Cystic Fibrosis e. Occupational lung diseases f. Interstitial Lung Diseases iii. General Respiratory Infection <ol style="list-style-type: none"> a. Tuberculosis b. Pneumonia c. Lung Abscess d. Bronchiectasis 	15	5	20

2.11.22

	<ul style="list-style-type: none"> e. Pneumothorax f. Hydropneumothorax g. Atelectasis h. Pleuritis i. Pleural Effusion j. Empyema & other Pleural Disorders 			
IV	<p>1. Cardiac Rehabilitation (A.H.A./A.C.S.M. guidelines)</p> <ul style="list-style-type: none"> i. Definition, ii. Indications, Contraindications iii. Phases (I,II,III,& IV) iv. Outcome Measures <p>2. Pulmonary Rehabilitation (A.A.C.V.P.R. /A.T.S. guidelines)</p> <ul style="list-style-type: none"> i. Definition, ii. Indications iii. Contraindications iv. Components of management v. Outcome measures <p>3. I.C.U. Evaluation & Management</p> <ul style="list-style-type: none"> i. Basic evaluation ii. Principles of ICU Monitoring iii. Mechanical Ventilator modes iv. Suctioning v. Humidification vi. Therapeutic intervention in <ul style="list-style-type: none"> a. Tetanus b. Head Injury c. Pulmonary Oedema d. neuromuscular disease e. Smoke Inhalation f. Poisoning g. Aspiration near Drowning h. A.R.D.S. i. Shock j. Spinal Cord Injury & Other Acute respiratory Disorders 	15	5	20

R. Chid-bar
Dean 03-08-23

COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
 (An Autonomous Institution)
 Madagadipet, Puducherry-605 107.

2. H. 123

V	1. Introduction To Functional Scales			
	i. Generic and disease specific ii. b. Patient's perception of his disability and functioning and correlating the same with therapist evaluation	5	5	10

Recommended text books:

1. Downie, Patricia.A, "Cash's textbook for physiotherapists in chest, heart & vascular diseases", Mosby, 4th edition, 1993
2. Downie, Patricia.A, "Cash's text book in general medicine & surgical conditions for physiotherapists", Mosby; 2nd edition, 1990
3. Pryor and prasad, "Physiotherapy in respiratory and cardiac problem" Elsevier Health – , 4th edition, 2013.
4. Colin Mackenzie, "Chest physiotherapy in intensive care", Williams & Wilkins 1989
5. Pierce, "Management of mechanical ventilation", W B Saunders Co Ltd; 2nd edition, 2006
6. Subin Solomen & Pravin Aaron, "Techniques in cardiopulmonary physiotherapy", PEEPEE publishers,

Recommended references books:

1. Irwin Scott, "Cardiopulmonary physical therapy", CBS Publishers, 4th edition, 2004.
2. GB Madhuri, "Textbook of physiotherapy for cardio-respiratory cardiac surgery and thoracic surgery condition", Jaypee bothers, 1st edition, 2008.
3. GB Madhuri, "Textbook of physiotherapy for clinical cardiothoracic condition", Jaypee bothers, 2nd edition, 2022.
4. Hilligoss and sodosky, Saunders, "Essential of cardio pulmonary physical therapy", Elsevier Health, 4th edition, 2016.
5. McArdle, Lippincott, "Exercise physiology, energy, nutrition and human performance", Williams & Wilkins, 8th edition, 2014.
6. Skinner, Lippincott, "Exercise testing and prescription", Williams and Wilkins, 3rd edition, 2005.

Recommended web-References:

1. wiley online library
2. www.escardio.org/education/textbooks/general-cardiology

2.H.124

Dean
 COLLEGE OF PHYSIOTHERAPY
 24 Mansarovar Engineering College
 (An Autonomous Institution)
 Mansarovar, Patancheru-502 307

SPORTS PHYSIOTHERAPY

COURSE CODE: U21BPTT857

TOTAL HOURS : 60

COURSE DESCRIPTION:

The subject serves as specialized branch of physiotherapy that focuses on the whole well-being of a person who engages in sports. The course Demonstrates advanced competencies in the promotion of safe physical activity participation, provision of advice, and adaptation of rehabilitation and training interventions. It also extends the purposes of preventing injury, restoring optimal function, and contributing to the enhancement of sports performance, while ensuring a high standard of professional and ethical practice

COURSE OBJECTIVES:

The objective of the course is to enable the student understand about principles of sports physiotherapy, causes for injuries clinical reasoning and therapeutic skills to assess and diagnose sports-related injuries. Furthermore, they are skilled in designing, implementing, evaluating and modifying evidence-based interventions that allow for a safe return to the athlete's optimal level of performance in their specific sport or physical activity.

SYLLABUS

Unit	Content	Didactic Hours	Practical Hours	Total Hours
I	<p>EXERCISE PHYSIOLOGY</p> <ol style="list-style-type: none">1. Training the aerobic and anaerobic energy system2. Physiological responses, changes & adaptations to various exercises - aerobic exercises & anaerobic exercises in pulmonary, cardiovascular, neuromuscular system, hormones3. Detraining effects of cardiovascular, musculoskeletal and nervous system4. Sports specific training and cross training.	10	2	12

R. Chidambaram
Dean
03-08-23
COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107.

2. H-125

II	<p style="text-align: center;">SPORTS INJURIES</p> <ol style="list-style-type: none"> 1. Pre-participation examination 2. causes & mechanism of sports injuries 3. Prevention of sports injuries to various structures. 4. Common acute, chronic and overuse injuries in various sports at, injuries to peripheral nerves, muscles, ligament, tendon, bone, synovial joint structures (with physiological response to injury) 	10	1	11
III	<p style="text-align: center;">SPORTING EMERGENCIES & FIRST AID</p> <ol style="list-style-type: none"> 1. Cardio pulmonary resuscitation, shock management, internal and external bleeding, splinting, stretcher use-handling and transfer 2. Management of cardiac arrest, acute asthma, epilepsy, drowning, burn 3. Medical management of mass participation. Heat stroke and heat illness. 	10	2	12
IV	<p style="text-align: center;">ASSESSMENT IN SPORTS PERFORMANCE</p> <ol style="list-style-type: none"> 1. Various methods to estimate body composition : water displacement method, under water weighing method, skinfold method, surface anthropometry, bioelectrical impedance analysis, ultrasound assessment of fat, arm x-ray assessment of fat, CT assessment of fat 2. Evaluation of physical fitness: assessment of strength, power, endurance (muscular & cardiac), VO₂max, flexibility, reaction time and pulmonary function. 	10	5	15
V	<p style="text-align: center;">PHYSIOTHERAPY TREATMENT TECHNIQUES</p> <p>Physiotherapy treatment by using electrotherapy modalities, sports massage, therapeutic exercises and taping techniques for sports injuries</p>	5	5	10

RECOMMENDED TEXT BOOKS

1. Brukner and Khan, "*Clinical Sports Medicine*", McGraw Hill Publishers, 4th Edition, 2017
2. Rose mc Donald, "*Pocketbook of Taping Techniques*", Elsevier Health Sciences, 1st Edition 2009
3. Devinder K Kansal, "*Textbook of Applied Measurement, Evaluation & Sports Selection*", Sport & Spiritual Science Publisher, 2nd Edition, 2008.

2. H. 126

4. Mc Ardle, Katch and Katch, "*Essentials of Exercise Physiology*", Lippincott Williams & Wilkins Publisher, 3rd Edition, 2006.

RECOMMEDED REFERENCE BOOKS

1. Bernhardt Donna, "*Sport Physical Therapy*", Churchill Livingstone Publisher, 1st Edition, 1986.
2. Bird, Black and Newton , "*Sports Injuries: Causes, Diagnosis, Treatment and Prevention*", Cengage Learning; 2nd Edition, 1997
3. Brownstein and Bronner, "*Functional Movement in Orthopaedic and Sports Physical Therapy: Evaluation, Treatment and Outcomes*", Churchill Livingstone Publisher, 1st Edition 1997
4. William Prentice, "*Rehabilitation Techniques in Sports Medicine*", SLACK Incorporated Publisher, 7th Edition, 2020.

RECOMMEDED WEB REFERENCE

1. www.SportsPhysiotherapyForAll.org/publications/

2. H. 128

Deen
COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madhavai, Puducherry-605 007.

REHABILITATION MEDICINE

COURSE CODE: U21BPTT858

TOTAL HOURS: 50

COURSE DESCRIPTION:

This course is designed to enable the students to understand the principles of rehabilitation and the role of physiotherapy in the rehabilitation team.

COURSE OBJECTIVES:

The objectives of this course are that after 50 hours of lectures and demonstrations, in addition to clinic, the student will be able to demonstrate an understanding of:

- a. The concept of team approach in rehabilitation will be discussed and implemented, through practical demonstration with contributions from all members of the team.
- b. Observation and identification of diagnostic features in physical conditions will be practiced through clinical demonstration.
- c. Medical and surgical aspects of disabling conditions will be explained in relation to rehabilitation.
- d. Formulation of appropriate goals (long & short term) in treatment & rehabilitation will be discussed.
- e. Student should be able to prescribe, check - out and train the uses of various rehabilitation aids.

R. Thidhar

Dean 03-08-23

COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107.

2-14-2023

SYLLABUS

Unit	Topics	Didadic Hours	Clinical /practical Hours	Total Hours
I	<p>INTRODUCTION TO REHABILITATION</p> <ul style="list-style-type: none"> i. Definition ii. Aims and principles iii. Scope of rehabilitation iv. Impairment, Disablement, Handicap v. Rehabilitation team and its members vi. Physiotherapy in rehabilitation 	10	-	10
II	<p>COMMUNICATION AND BEHAVIOURAL DISORDERS</p> <ul style="list-style-type: none"> 1. Communication disorders- Definition, types, principles of management 2. Behavioural disorders- Definition, types, principles of management 	5	-	5
III	<p>PHYSICAL DYSFUNCTION</p> <ul style="list-style-type: none"> i. Methods of evaluation for physical dysfunction ii. Management of disabilities with reference to: <ul style="list-style-type: none"> a. Spinal cord injury b. Poliomyelitis, muscular dystrophy c. Cerebral palsy d. Stroke, Burns, Arthritis e. Peripheral nerve lesions f. Sports injuries & cardio respiratory dysfunction. 	10	-	5

2. H. 130

Dean
 COLLEGE OF PHYSIOTHERAPY
 Sri Manakula Vinayagar Engineering College
 (An Autonomous Institution)
 Madhavara, Pudukkottai-605 007

IV	<p>ORTHOTICS , PROSTHETICS AND MOBILITY AIDS</p> <ul style="list-style-type: none"> i. Definition & types of Orthosis ii. Principles of orthotic devices iii. Various orthotic devices & its functional uses iv. Indications & Contra-indications for orthotics, calipers etc. v. Definition, types & functions of prosthesis vi. Various types of artificial limbs vii. Definition, types & functions of mobility aids viii. Indications for different types of mobility aids 	15	-	15
V	<p>ARCHITECTURAL BARRIERS</p> <ul style="list-style-type: none"> i. Definition Architectural components as barriers for the impaired. ii. Principles of modifications with reference to <ul style="list-style-type: none"> a. Rheumatoid arthritis b. Cerebro vascular accident c. Spinal cord injury and other disabling conditions. 	10	-	10

R. Chidambaram
Dean
COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107.

2-H-131

Recommended books:

1. S. Sunder, "Textbook of Rehabilitation" Jaypee brothers, 4th edition, 2019.
2. O'Sullivan, Susan B, Physical rehabilitation: Assessment and treatment, F. A. Davis 7th edition 2020.
3. Leslie Rydberg, Sarah Hwang, "Physical Medicine and Rehabilitation Pocketpedia" Demos Medical, 4th edition, 2023.
4. Frederic J. kottke, Frank H.Krusen, "Krusens handbook of physical Medicine and Rehabilitation", Saunders, 4th edition, 1990.

Referred books:

1. Michelle M. Lusardi, "Orthotics and Prosthetics in Rehabilitation" Saunders, 3rd edition, 2012.
2. David X. Cifu "Braddom's Physical Medicine and Rehabilitation" Elsevier, 6th edition, 2020.

Web reference:

1. <https://rehabcouncil.nic.in/>
2. <https://www.physio-pedia.com/Rehabilitation>
3. <https://musculoskeletally.com>
4. <https://now.aapmr.org>
5. <https://www.stroke.org>

2.11.132

PHYSIOTHERAPY IN CARDIO-RESPIRATORY CONDITIONS

COURSE CODE: U21BPTP859

TOTAL HOURS: 90

PRACTICAL

- 1 Positioning, breathing control strategies (e.g., Pursed Lip Breathing, Sustained Maximal Inspiration, deep breathing), ventilator muscle training. Relaxation training, positioning, early mobilization.
- 2 Airway clearance techniques, Suctioning, use of mechanical assistive devices (e.g. Positive Expiratory Pressure, Flutter, Vest, etc.), postural drainage and percussions, coughing maneuvers, medication delivery e.g. Nebulization, oxygen
- 3 Physical handling Techniques (e.g. positioning and donning, doffing, fitting and adjusting Stockings for vascular disorders, bandaging, dressing, taping, splints and orthotics pertaining to cardiovascular and pulmonary impairments)
- 4 PNF for breathing facilitation and inhibition.
- 5 Ability to use a variety of exercise/movement equipment (e.g., treadmill, heart rate monitor, Oximeter, pressure biofeedback unit, free weights, balance boards, theraballs, etc)
- 6 Prescription and education: aerobic, endurance and interval exercise training, resistance (strength, Endurance and power) training, flexibility training. Formulating cardiac, pulmonary rehabilitation.
- 7 Develop skills to monitor compliance of the client in executing rehabilitation program & identifying comorbid & contextual factors affecting it.
- 8 Familiarity and skill of use of various monitoring and treatment equipment's in ICU.
- 9 Use of physical and electrical agents for pain relief and wound care
- 10 Skill of administering basic life support

ASSESSMENT AND CLINICAL REASONING:

Student should be able to apply the ICF framework in selecting measurement tools to ensure a holistic approach to evaluation of body structure and function, activities, participation; and select and administer assessment/evaluation tools and techniques suitable for the patient's problems and condition(s) based on the best available evidence and interpret the information obtained demonstrating evidence-based decision-making and safe handling technique such as:

R. *Chidambaram*
Dean *03-05-23*
COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107.

2.H.133

1. Risk factor screening (Red flags & Yellow flags).
2. Assessment of Cardiovascular & Respiratory dysfunction.
3. Interpretation of Radiological, Hematological and Biochemical investigations.
4. Aerobic fitness and Functional performance testing as appropriate
5. Identification and quantification of environmental and home barriers and facilitators
6. Identification and analysis of body mechanics during self-care, home management, work, community, tasks, or leisure activities.
7. Identification and analysis of ergonomic performance during work (job/school/play)
8. Assessment of Quality of Life through use of appropriate questionnaire and generic or disease-specific scales (nice to know)
9. Identification and prioritization of impairments in body functions and structures, and activity limitations and participation restrictions to determine specific body function and structure, and activities and participation towards which the intervention will be directed.
10. State the evidence (patient/client history, lab diagnostics, tests and measures and scientific literature) to support a clinical decision.
11. Determine the predicted level of optimal functioning and the time required to achieve that level.
12. Recognize barriers that may influence the achievement of optimal functioning within a predicted period and devise ways to overcome them when possible.

DEVELOPING PLAN OF CARE:

Student should be able to:

1. Identify patient goals and expectations.
2. Design a Plan of Care with measurable, prioritized and time bound functional goals (short-term and long-term)
3. Consult patient and/or caregivers to develop a mutual agreement regarding the plan of care.
4. Identify indications/ additional needs for consultation with other professionals & appropriate referrals.

2.H.134

5. Select the interventions that are safe, realistic and meet the specified functional goals and outcomes in the plan of care:

(a) identify precautions and contraindications,

(b) provide evidence for identified and selected patient-centered interventions that are identified and selected,

(c) define the specificity of the intervention (time, intensity, duration, and frequency).

6. Measure and monitor patient response to intervention and modify elements of the plan of care and goals in response to changing patient/client status, as needed.

7. Establish criteria for discharge based on patient goals and current functioning and disability.

PHYSIOTHERAPEUTIC INTERVENTION:

Important influences on Cardiovascular & Respiratory physiotherapy management choices may include but not limited to:

1. Diverse settings of care including critical, acute, long term, rehabilitation, and community care

2. Lifespan issues ranging from the neonatal stage to those associated with aging;

3. Life style modification for diseases and for prevention.

4. Skill of application of physical and electrical agents for relief of acute & chronic pain and swelling.

5. Facilitation, re-education and training of muscle strength, endurance & motor control, posture and gait through skillful use of various therapeutic exercise techniques with appropriate therapeutic gymnasium equipment.

6. Skill of application of therapeutic modes of improving cardiovascular & respiratory performance. Functional training in self-care, home, work (job, school and play), community and leisure activities.

Documentation:

Presentation & Documentation of 8 cases for patient management using ICF Model as following: (Assessment, Evaluation, Diagnosis, Prognosis, Intervention, Outcome)

1. Medical Respiratory condition

2. Pediatric respiratory condition

R. Chidambaram
Dean
03-08-23
COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107.

2. H. 135

3. Thoracic Surgical condition
4. Cardiac Medical condition
5. Cardiac Surgical condition
6. Peripheral vascular disorders
7. Burns of Head, Neck & Face (Acute phase only)
8. Abdominal surgical condition

2. H. 136

Community Physiotherapy – II (Practical)

Course code: U21BPTP860

Total hours: 50

The students of community physiotherapy are to be trained in working principles of various health care set up, disability screening & apply theoretical knowledge in rehabilitation.

1. Field visits to urban and rural P.H.C.'s, visits to regional rehabilitation training center.
2. Disability surveys in villages & disability screening.
3. Demonstration of evaluation and physiotherapy prescription techniques for musculoskeletal, neuromuscular, cardio-respiratory, pediatric and geriatric problems in community.
4. Demonstration of evaluation and prescription techniques for ambulatory and assistive devices. Fabrication of low cost assistive devices with locally available materials.

R. Chidambaram

Dean 03-08-23

COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107.

2.H.37

Dean
COLLEGE OF PHYSIOTHERAPY
Sri Manjula Vidyapeeth Engineering College
(An Autonomous Institution)
Rabodhigal, Pochampally-508 107.

2.H.138

CLINICAL REASONING AND EVIDENCE BASED PRACTICE

COURSE CODE: U21BPTP862

TOTAL HOURS: 30 hours

COURSE DESCRIPTION:

The subject serves as knowledge and the generation of hypothesis of factors assumed to underlying limitations of physical capacity and performance.

COURSE OBJECTIVES:

The objective of the course is to enable the student to understand best available evidence with clinical judgment of patient's preferences, values, and that further considers the larger social context in which physical therapy services are provided to optimize patient outcomes.

SYLLABUS

Unit	Content	Didactic Hours	Practical Hours	Total Hours
I	1. EVIDENCE BASED PRACTICE: Definitions, introduction. 2. CONCEPTS OF EVIDENCE BASED PHYSIOTHERAPY: Awareness, Consultation, Judgement, and Creativity	4	0	4
II	1. DEVELOPMENT OF EVIDENCE BASED KNOWLEDGE: The Individual Professional, Professionals within a discipline, and Professionals across disciplines. 2. EVIDENCE BASED PRACTITIONER: The Reflective Practitioner, The E Model and its implication	4	0	4
III	1. FINDING THE EVIDENCE: Measuring outcomes in evidence based practice, measuring health outcomes, measuring clinical outcomes, inferential	12	0	12

R. Chid - bay
Dean 03-08-23
COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College,
(An Autonomous Institution)
Madagadipet, Puducherry-605 107

2. H.139

	<p>statistics and causation</p> <p>2. SEARCHING FOR THE EVIDENCE: Asking Questions, Identifying different sources of evidence, electronic bibliographic databases and World Wide Web, conducting a literature search. step by-step search for evidence</p> <p>3. ASSESSING THE EVIDENCE: EVALUATING THE EVIDENCE; Levels of evidence in research using quantitative methods, levels of evidence classification system, outcome measurement, biostatistics, the critical review of research using qualitative methods</p> <p>4. SYSTEMATICALLY REVIEWING THE EVIDENCE: Stages of systematic reviews, Meta-analysis, the Cochrane collaboration</p> <p>5. ECONOMIC EVALUATION OF THE EVIDENCE: Types of economic evaluation, conducting economic evaluation, critically reviewing economic evaluation, locating economic evaluation in the literature</p> <p>6. USING THE EVIDENCE: Building evidence in practice; Critically Appraised Topics (CATs), CAT format, using CATs, drawbacks of CATs</p>			
IV	<p>1. PRACTICE GUIDELINES, ALGORITHMS, AND CLINICAL PATHWAYS: Recent trends in health care, Clinical Practice Guidelines (CPG), Algorithms, Clinical pathways, Legal implications in clinical pathways and CPG, Comparison of CPGs, Algorithms and Clinical Pathways</p> <p>2. COMMUNICATING EVIDENCE TO CLIENTS, MANAGERS AND FUNDERS: Effectively communicating evidence, Evidence based communication in the face of uncertainty; Evidence based communication opportunities in everyday practice.</p>	7	0	7
V	<p>RESEARCH DISSEMINATION AND TRANSFER OF KNOWLEDGE: Models of research transfer, Concrete research transfer strategies, Evidence based policy.</p>	3	0	3

2-14-140

RECOMMENDED TEXT BOOKS

1. Dianne V. Jewell , “*Guide to Evidence-Based Physical Therapist Practice*”, Jones and Bartlett Publishers, 2nd Edition, 2010.
2. Mark A. Jones; Darren A Rivett, “*Clinical Reasoning in Musculoskeletal Practice*”, Elsevier Publishers, 2nd Edition, 2018.
3. Eileen D. Gambrill, “*Critical Thinking and the Process of Evidence-Based Practice*”, OUP USA Publishers, 1st Edition, 2018.

RECOMMENDED REFERENCE BOOKS

1. Scot Raab; Deborah I. Crai , “*Evidence-Based Practice in Athletic Training*”, Human Kinetics Publishers, 1st Edition, 2016.
2. William E. Amonette; Kirk L. English; William J. Kraemer, “*Evidence-Based Practice in Exercise Science*”, Human Kinetics Publishers, 1st Edition, 2015.
3. Brent L. Arnold; Brian Schilling , “*Evidence Based Practice in Sport and Exercise*”, F.A. Davis Company Publishers, 1st Edition, 2016.

RECOMMENDED WEB REFERENCE

1. [https://www.physio-pedia.com/Evidence_Based_Practice\(EBP\)_in_Physiotherapy](https://www.physio-pedia.com/Evidence_Based_Practice(EBP)_in_Physiotherapy)
2. https://www.physio-pedia.com/Clinical_Reasoning

R. Chidambaram
03-08-23

Dean
COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107.

2.H.141

2. H. 142

Madagascar, P. 1007
(An Autonomous Institution)
St. Mary's Engineering College
COLLEGE OF PHYSIOTHERAPY
Dean



COLLEGE OF PHYSIOTHERAPY

B.P.T. PROGRAMME

CASE PRESENTATION

Name:

Date of Assessment:

Age:

Gender:

Occupation:

Address:

Phone No:

Hand Dominance:

Presenting Complaints:

History of Presenting Complaints:

Medical History:

Surgical History:

Social History:

Personal History:

Pain Assessment:

R. Chidharan

Dean

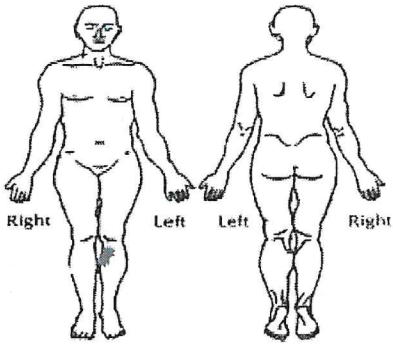
03-08-23

COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107.

2-H-143

2.H.144

Madhavdoot, Pucherry-605 107.
(An Autonomous Institution)
Sti Manakula Vinayagar Engineering College
COLLEGE OF PHYSIOTHERAPY
Dean



Site:

Side:

Duration:

Type:

Severity VAS: _____

No Pain

Max Pain

Aggravating Factors:

Relieving Factors:

On Observation:

On Palpation

On Examination

Range of Motion:

Active ROM:

R. *Chidambaram*

Dean *03-08-23*
COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107.

2.H.145

Dear
COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayaga Engineering College
(An Autonomous Institution)
Madhavpet, Puducherry-605 007.

2-H-146

Passive ROM:

Muscle Strength:

Rt

Lt

Resisted Isometrics:

End feel:

Capsular pattern:

Limb Length:

Rt

Lt

Apparent Length

True Length

Muscle Girth:

Rt

Lt

Deep Tendon Reflexes:

Rt

Lt

Superficial Reflexes:

Sensory Evaluation :

Balance Assessment:

R. = Thid - bar -

Dean 03-08-23

COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107.

2. H. 147

Dean
COLLEGE OF PHYSIOTHERAPY
St. Marcellus Vinayagar Engineering College
(An Autonomous Institution)
Madhavapet, Puducherry-605 007

2-11-148

Posture Assessment:

Gait Evaluation:

Functional Assessment:

Special Test:

Investigations:

Differential Diagnosis:

Provisional Diagnosis:

Physical Therapy Diagnosis:

Management

Problem List

R. Chidhar

Dean

02-08-23

COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107,

2-H-149

2-H-150

Madhavadi, Pudu. 505 101
(An Autonomous Institution)
St. Marcellus Vidyapeetha Engineering College
Dassu
COLLEGE OF PHYSIOTHERAPY

Anticipatory Goals

Long term Goals

Physiotherapy treatment

Orthotic/Prosthetic Advice:

Home Advices:

Follow Up

Case presentation was done: _____

Signature with Date:

Staff name :

R. Chidambaram

Dean

03-08-23
COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107.

2-H-151

2-H-152

Madhavipet, Puducherry-605 001
(An Autonomous Institution)
Sti Manakula Vinayagar Engineering College
COLLEGE OF PHYSIOTHERAPY
Dean

EDUCATION TECHNOLOGY

COURSE CODE: U21BPTP864

TOTAL HOURS: 30 hours

COURSE DESCRIPTION:

The course aims at introducing teaching methods, curriculum principles, learning process, teaching strategies, class room organization and management including micro-teaching to students.

COURSE OBJECTIVES:

At the completion of the course the students are expected to acquire knowledge about the philosophies of education, values, principles of curriculum, and techniques of teaching. Psychological tools and principles of guidance and counselling.

SYLLABUS

Unit	Topic	Didactic Hours	Clinical Hours	Total Hours
I	EDUCATION AND PHILOSOPHY 1. Relationship between philosophy and Education-Educational aims. 2. Elements of modern and contemporary philosophies of education-idealism, naturalism, pragmatism and existantialism. 3. Concept of values of with reference to Sri Aurobindo, mahatma gandhi, john dewey and rousseau ethical standards. 4. Agencies of education - formal, informal and non formal education.	6	-	6

R. Chidambaram

Dean

03-08-23

COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107.

2-H-153

Unit	Topic	Didactic Hours	Clinical Hours	Total Hours
II	<p>CURRICULUM DESIGN</p> <ol style="list-style-type: none"> 1. Concept of curriculum 2. Types and approaches of curriculum disciplinary integrated problem based. 3. Determinants of curriculum 4. Organization of curriculum. 	5	-	5
III	<p>CONCEPT OF TEACHING AND LEARNING</p> <ol style="list-style-type: none"> 1. Principles of learning 2. Maxims of teaching 3. Techniques of teaching - planning of teaching lesson Plan, micro teaching, development of skills lecture, group discussion, case study, role play, simulated patient management demonstration. 	6	-	6
IV	<p>INSTRUCTURAL MEDIA</p> <ol style="list-style-type: none"> i. Communication concept theory ii. Selection of media – principles iii. AV aids <ol style="list-style-type: none"> a) Black board b) Display board c) Over head projector (O.H.P) d) Video e) Power point presentation 	6	-	6
V	<p>GUIDANCE AND COUNSELLING</p> <ol style="list-style-type: none"> 1. Philosophy, principles and concepts 2. Need for guidance objectives of guidance kinds of guidance educational, vocational, personal and social. 3. Types of counseling- directive, non-directive, eclectic and group counselling. 4. Guidance and counselling services for students and faculty 5. Continuing education. 	7	-	7

2-14-154

RECOMMENDED TEXT BOOKS

- 1) Mohanthy.J."Indian Education in the Emerging Society," Sterling publishers, 2nd edition, 2007.
- 2) Tammer, Daniel & Lanvel N. Thanner "Curriculum Development - Theory into practice," MacMillian Publishers, 4th edition, 2012.
- 3) Ebel Robert.L. "Measuring Educational Achievement," Prentice Hall of India Publisers, 3rd edition, 2000.
- 4) Sampath K. & Panneerselvam.S, "Introduction to Educational Technology," 3rd edition, 2010.

RECOMMEDED REFERENCE BOOKS

- 1) Kumar.K.L. "Educational Technology," New Age International Publishers, 1st edition 2004.
- 2) Thorndike. R.L, "Measurement and Evaluation in Psychology and Education," John Wiley & Sons Publishers, 8th edition, 2011.
- 3) Chauhan.S.S. "principles and Techniques of Guidance," Vikas publishing House, 2nd edition, 2009.
- 4) Indu Dave "The Basic Essentials of Counselling," Sterling publishers, 4th edition, 2007.

RECOMMENDED WEB REFERENCE:

- 1) www.twinkl.co.in.com
- 2) www.rand.org.com
- 3) www.aeseducation.com

2. Chidhar

Dean

03-08-23

COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107.

2.14.55

2-H-156

Madagascar, Product No. 4-602 107.
(An Autonomous Institution)
Stn Manakala Vidyapar Engineering College
COLLEGE OF PHYSIOTHERAPY
Dean

CLINICAL TRAINING

COURSE CODE: U21BPTP865

TOTAL HOURS: 90 hours

The students are posted in various departments in S.M.V.M.C.&H. such as orthopaedics, neurology, general medicine, general surgery, paediatrics and O.B.&G. on rotational basis.

R. Chidambaram
Dean
03-08-23
COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107.

2.4.157

2-H-158

Dean
COLLEGE OF PHYSIOTHERAPY
Sti Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madhavipal, Puducherry-605 007.

Annexure - 2

R. Chidhar

Dean

03-08-23

COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107.

2.14.159

2-11-160

Madgaon, Puducherry-605 007.
(An Autonomous Institution)
Sri Sankaralingam Engineering College
Dean
COLLEGE OF PHYSIOTHERAPY



SRI MANAKULA VINAYAGAR ENGINEERING COLLEGE

(An Autonomous Institution)

(Approved by AICTE, New Delhi & Affiliated to Pondicherry University)
(Accredited by NBA-AICTE, New Delhi, Accredited by NAAC with "A" Grade)
Madagadipet, Puducherry - 605 107



School of Physiotherapy

List of examiners proposed for End Semesters examinations

Name of the examiner	Institution Name	Designation	Years of teaching experience	Mobile Number	Email id
Dr. C.V. John franklin	Thanthai Roever College of physiotherapy, Roever main, Perambalur.	Principal	18 years	+919787938 044	Johnfranklin@gmail.com
Dr. Albin Jerome	St. Andrews College of physiotherapy, Pune.	Principal	15 years	+919840418 383	Glbinjerome@gmail.com
Dr. Ayyappan	SRM College of Physiotherapy, SRM Institute of Science & Technology, Kattankulathur.	Associate Professor	09 years	+919994948 597	ayyappaj@srmist.edu.in
Dr. E. Jeyakathan	SRM College of Physiotherapy, SRM Institute of Science & Technology, Kattankulathur.	Assistant Professor	18 years	+917904401 991	Jeyakane@srmist.edu.in
Dr. A.S. Khader Basha	Nanded College of Physiotherapy, Nanded.	Principal	20 years	+917799096 094	askbashampt@gmail.com
Dr. P. Kamalanathan	SRM College of Physiotherapy, SRM Institute of Science & Technology, Kattankulathur.	Professor	20 years	+919841279 391	kamalanp@srmist.edu.in

R. Trid - Var -

Dean

03-08-23

COLLEGE OF PHYSIOTHERAPY
Sri Manakula Vinayagar Engineering College
(An Autonomous Institution)
Madagadipet, Puducherry-605 107.

2.11.161

Dean
COLLEGE OF PHYSIOTHERAPY
St. Marcellus Vinayagar Engineering College
(An Autonomous Institution)
Madhavipet, Puducherry-605 007

24-162