

Minutes of 3rd BoS Meeting

Bachelor of Physiotherapy (BPT) Programme

Venue : Conference Hall,

Sri Manakula Vinayagar Engineering College.

Date & Time : 14^{th} February 2023 at 10.30 a.m.



Vision:

To create a best possible environment to prepare physiotherapist who shall lead to serve and heal in a variety of health care and social setting to provide the best quality of life to an individual.

Mission:

- i. To establish outcome-based learning environment that includes values-based system.
- ii. To develop a system that periodically evaluates and guides the initiates taken by the institute and encourages improvement upon best practices.
- iii. To stimulate the academic environment for promotion of quality of teaching/learning and research in the institute.







Minutes of 3rd BoS meeting

The 3rd Board of studies meeting for College of Physiotherapy was held on 14th February 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: <u>deanphysio@smvec.ac.in</u>	Chairman
2.	Prof. Dr. Balu M.P.T. Professor, School of Physiotherapy, Arupadaiveedu Medical College, Kirumambakkam, Puducherry – 607403. Email: <u>balukhanphysio007@gmail.com</u>	Subject expert (University Nominee)
3.	Prof. Dr. A. Dinakaran M.P.T. Principal, Adhiparasakthi College of Physiotherapy, Melmaruvathur – 603319. Email: <u>apcopt1994@gmail.com</u>	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)



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

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Agenda of the meeting

1. Item No: BoS/2023/BPT/ 3.1

To discuss and confirm the minutes of the 2nd BoS meeting, which was held on 14 - 05 - 22.

2. Item No: BoS/2023/BPT/ 3.2

➢ To discuss and confirm the V and VI semester syllabi for the Bachelor of Physiotherapy programme under College of Physiotherapy, SMVEC Autonomous regulations 2021.

3. Item No: BoS/2023/BPT/ 3.3

> To discuss the 2021–26 batch, II end semester examination results for BPT programme.

4. Item No: BoS/2023/BPT/ 3.4

To discuss and confirm the panel of external examiners to the end semester examinations for the academic year 2023-24.

5. Item No: BoS/2023/BPT/ 3.5

To discuss and confirm the question paper setter to the end semester examinations for the academic year 2023-24.

6. Item No: BoS/2023/BPT/ 3.6

To discuss and confirm the introduction of re-evaluation scheme in the BPT regulations R-2021 with effect from May/June 2023 end semester examination onwards.

7. Item No: BoS/2023/BPT/ 3.7

> Any other item with the permission of chair.

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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:	To discuss and approve the minutes of the 2 nd BoS meeting, which
BoS/2023/BPT/	was held on 14-05-2022.
3.1	> The committee overviewed the previous meeting discussion and approved.
Item No: BoS/2023/BPT/ 3.2	To discuss and approve the curriculum and syllabi for V and VI semesters Bachelor of Physiotherapy Programme under College of Physiotherapy, SMVEC autonomous regulation 2021.
	 The BoS approved the V and VI semesters syllabi with below mentioned modification. The course title 'Clinical orthopaedics for physiotherapy' was changed as 'Clinical orthopaedics & traumatology for physiotherapy'. In the course 'Clinical orthopaedics & traumatology for physiotherapy' under unit 2, both bone fractures of ulna and radius was changed into fracture both bone of forearm. In the course 'Clinical orthopaedics & traumatology for physiotherapy' under 5th unit topic arthroscopy was included. In the course 'General medicine, Paediatrics & Psychiatry' under unit 4, clinical hours was changed to 10 hours from 20 hours. In unit 2, 10 hours was added as clinical hours. The course 'Evaluation measurement and outcome measures' was removed from the Vth semester syllabi. In clinical training case presentation proforma was added. In the course 'Physiotherapy in orthopaedic conditions' under unit 4 knee
	 complex, 'sub acromial bursitis' was removed and the same was added in the shoulder complex. In the course 'Health Promotion and fitness' under unit 2, topic 'Exercise testing & agility test' was included.

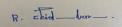
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	The above modification where incorporated in the syllabi & it is annexed in
	annexure no.1.
Item No: BoS/2023/BPT/ 3.3	 To discuss the 2021–26 batch II end semester examination results for BPT programme. > The committee overviewed the results.
	Please see annexure no. 2.
Item No:	To discuss & confirm the panel of external examiners to the end
BoS/2023/BPT/	semester examinations for the academic year 2023-24.
3.4	The BoS meeting approved the examiners list.
	Please see annexure no.3.
Item No:	To discuss and confirm the question paper setter to the end
BoS/2023/BPT/ 3.5	 semester examinations for the academic year 2023-24. The BoS members approved the paper setter list.
	Please see annexure no.4.
Item No: BoS/2023/BPT/ 3.6	To discuss and confirm the revaluation system in B.P.T. curriculum.
	In existing SMVEC Autonomous regulation R-2021 for Bachelor of Physiotherapy Programme, there is no option for re-evaluation of end semester examination answer scripts. It is proposed to introduce the re-evaluation scheme from May/June 2023 end semester examinations onwards with the approval of experts from Board of Studies.
	Proposed introduction of revaluation scheme under clause 12 examinations.
	12.4 Revaluation
	Students can get their answer scripts revalued by submitting an application along with the prescribed fees to the Controller of Examinations. The revaluation is extended to students those who have maximum of two arrears in theory papers and the Practical arrears are not taken into the account.

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	The Controller of Examinations shall get the answer script revalued by appointing an examiner other than the one who has valued the script earlier. If the difference in marks awarded to an answer script by the examiners is less than 15 percent of the total marks earmarked for the End Semester Examination, then the average of marks awarded by the examiners is taken as the mark scored in the examination. If the difference in marks is greater than 15 percent, then the answer script will be evaluated by a third examiner and the mark awarded by the third examiner is taken as the final score.
Item No: BoS/2023/BPT/ 3.7	Any other item with the Permission of chair.

The 3rd BoS meeting was concluded at 1.30 p.m. with a vote of thanks by Dr. A. A. Arivalagar, Dean Academics (core).



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Venue: Conference Hall, SMVEC

Date: 14-02-2023

College of Physiotherapy

3rd 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. chid bar
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 J winn
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 D. Martin
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)	for land 12122

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	Dr. S. D. Lakshmi Vasan B.P.T.		
5	Chief Physiotherapist, Sri Kumaran Physiotharany Clinic	Representative	5
3	Sri Kumaran Physistherapy Clinic,	from industry	Jula123
	Villupuram. Email: lakmivasan@live.in		, -
6	Dr. K. Ezhilan M.P.T.		
	Chief Physiotherapist,		
	Sri Manakula Vinayagar Medical College &		-
	Hospital,	Member	2 cm
	Kalitheerthalkuppam,		
	Puducherry – 605107.		
	Email: ezhilan.mpt@gmail.com		
	Dr. M. Nakkiran M.P.T.		
	Assistant Professor,		
	College of Physiotherapy,		
7	Sri Manakular Vinayagar Engineering College,	Member	OVC. Andrews
	Madagadipet,		
	Puducherry- 605 107.		
	Email.nakkiran.physio@smvec.ac.in		
	Dr. S. Anbumalar M.E., Ph.D.		
	Dean Academics(circuit),		
	College of Physiotherapy,		
8.	Sri Manakular Vinayagar Engineering College,	Special Invitee	Barce
	Madagadipet,		١
	Puducherry- 605 107.		
	Email: deanacademic@smvec.ac.in		
	Dr. A. A. Arivalagar M.Tech., Ph.D.		
	Dean Academics (core),		
	College of Physiotherapy,		DAA Å
9	Sri Manakula Vinayagar Engineering College,	Special Invitee	Attawalague
	Madagadipet,		
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	Email: deanacademic1@smvec.ac.in		
	Dr. J. Sathyanarayanan M.D.		
	Associate Professor,		
	Department of Medicine,		·
10	Sri Manakula Vinayagar Medical College &	Subject expert	ay .
10	Hospital,	(special invitee)	
	Kalitheerthalkuppam,		
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	Dr. K. Manikandan M.S.(ortho.),		
	Associate Professor,		· 7
	Department of Orthopaedics	Subject expert	
11	Sri Manakula Vinayagar Engineering College	(Special	14/02/23
11	& Hospital,	Invitee)	
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	Puducherry – 605107.		
	Email: manikandan7008@gamil.com		



Annexure - I 3rd Board of Studies Meeting

Suggestion in the Syllabi given by members in the BoS meeting are summarized as below,

Sl.No.	Regulations	Semester	Course name with Code	Unit	Suggestion given by BoS members	Changes incorporated
1.	R-2021	V	"Clinical Orthopaedic & traumatology for physiotherapist" U21BPTT531	_	Course title can be modified as "Clinical Orthopaedics & traumatology for physiotherapy".	"Clinical Orthopaedics & traumatology for physiotherapy".
2.	R-2021	V	"Clinical Orthopaedic & traumatology for physiotherapy" U21BPTT531	2	The term "both bone fractures of ulna & radius" can be altered as "fracture both bone of forearm".	"Fracture both bone of forearm".
3.	R-2021	V	"Clinical Orthopaedic & traumatology for physiotherapy" U21BPTT531	5	The topic "arthroscopy" can be included.	arthroscopy
4.	R-2021	V	"General Medicine, Paediatrics & Psychiatry" U21BPTT533	4	Clinical hours can be reduced from 20 to 10 hours.	10 hours of clinical hours.
5.	R-2021	V	"General Medicine, Paediatrics & Psychiatry" U21BPTT533	2	10 hours can be added in clinicals.	10 hours of clinical hours.

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6.	R-2021	V	Community Medicine U21BPTT534	-	Course tittle can be modified as "Community Health & Rehabilitation".	Changed as "Community Health & Rehabilitation".
7.	R-2021	V	"Evaluation measurement and outcome measures". U21BPTP535	-	This axillary course can be removed from the syllabi.	Removed.
8.	R-2021	V	"Observation on clinical conditions" U21BPTP537	-	The course title can be changed as "Clinical training" and "Case Presentation Proforma" needs to be added.	In clinical training, case Presentation Proforma had been included.
9.	R-2021	VI	"Physiotherapy in Orthopaedic Conditions". U21BPTP538	5.6	The topic, "Sub acromial bursitis" should be removed and the same need to be added in 5.2.	The topic "Sub acromial bursitis" was added in 5.2.
10.	R-2021	VI	"Health promotion and fitness"	2	Assessment need to be in elaborate manner.	The topic "Exercise testing" was added.
11.	R-2021	VI	"Clinical Neurology and Neurosurgery for Physiotherapist" U21BPTP640	_	Corse title can be modified as "Clinical Neurology and Neurosurgery for Physiotherapy"	"Clinical Neurology and Neurosurgery for Physiotherapy"
12.	R-2021	VI	"Case Presentation and discussion" U21BPTP644	-	This course can be merged with "Clinical training".	"Clinical training" hours had been increased from 90 to 125 hours.

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Curriculum Structure for V Semester

SI.No.	Course Code	Course Name	Theory (in hours)	Practical (in hours)	Total (in hours)
1.Clinical Orthopaedics &1.U21BPTT531Traumatology for Physiotherapy			100	-	100
2.	U21BPTT532	General Surgery, Plastic Surgery & OBG	90	-	90
3.	U21BPTT533	General Medicine, Paediatrics & Psychiatry	cs & 120 -		120
4.	U21BPTT534 Rehabilitation		60	-	60
		Auxiliary	v Courses		
5.	U21BPTT536	Diagnostic imaging for physiotherapy	30	15	45
6.	U21BPTT537	Clinical training	-	125	125

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CLINICAL ORTHOPAEDICS & TRAUMATOLOGY FOR PHYSIOTHERAPY

COURSE CODE: U21BPTT531

TOTAL HOURS: 100hrs

COURSE DESCRIPTION:

This course intends to familiar with principles of orthopaedics along with familiarization with terminology and abbreviation for efficient and effective chart reviewing and documentation. The purpose of this course is to make physiotherapy students aware of various orthopaedics condition so these can be physically managed effectively both pre and postoperatively.

COURSE OBJECTIVE:

At the end of the course, the candidate will

- a) Be able to discuss the aetiology, pathophysiology, clinical manifestation and conservative/ surgical management of various orthopaedics conditions.
- b) Gain the skill of clinical examination and interpretation of the pre-operative cases and post-operative cases.
- c) Be able to read and interpret salient features of the X-ray and correlate the radiological findings with the clinical findings.
- d) Be able to interpret pathological studies pertaining to orthopaedic condition.

Unit	Topics	Didactic	Clinical	Total
		Hours	hours	hours
	1. Introduction to orthopaedics:			
	i. Orthopaedic terminologies			
Ι	ii. Clinical examination	7		7
	iii. Common investigative procedures			
	iv. General principles of management			
	1. Healing of fractures	2		
	2. Fractures & dislocations of upper limb:	2		
	i. Causes, clinical features, mechanism			
	of injury, complication, conservative			
	& surgical management for			
	following injuries.			
	r) Exact way of classical θ according			
	a) Fracture of clavicle & scapula.			
TT	 b) Fracture of greater tuberosity and neck of humerus. 			
II				
	c) Fracture of shaft of humerus.			
	d) Supracondylar fracture of humerus.			
	e) Fracture of capitulum, radial head,	12	4	18
	olecranon, coronoid & epicondyles.	12	4	10
	f) Fracture both bone of forearm.			
	g) Colle's fracture			
	h) Smith fracture			

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	 i) Scaphoid fracture j) Fracture of metacrapals k) bennet's fracture l) fracture of the phalanges m) Dislocation of shoulder & elbow 3. Fracture & dislocation of lower limb: i. Causes, clinical features, mechanism of injury, complication, conservative & surgical management for following injuries. a) Fracture neck, shaft and condyles of femur b) Fracture Patella c) Fracture of tibial condyles & bothbone leg fracture. d) Fracture calcaneum. e) Dislocation of hip & knee. 	10	5	15
	 Deformities & Anomalies: Deformities of the spine. Deformation of the lower limb Degeneration of inflammatory condition: Osteo-orthosis/ arthritis 	6	4	
III	 ii. Spondylosis iii. Spondylolisthesis iv. Rheumatoid arthritis v. Ankylosing spondylitis. 3. Infective conditions 	6	4	30
	 i. Septic arthritis ii. Osteomyelitis iii. Tuberculosis spine 4. Arthoplasty: i. THR ii. TKR 5. Arthroscopy 	6	4	
IV	 Soft tissue lesions: Sprains & strains Capsulitis Bursitis Tenosynovitis Tendonitis 	8	2	10
V	 Peripheral nerve lesions: Radial, median & ulnar nerve lesions Sciatic nerve lesions Sciatic nerve lesions Lateral popliteal nerve lesions. Hand injuries: Tendon & joint injury Amputation: Definition, levels of amputation, indications & complications 	14	6	20

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pott's paraplegia.		4. Spine: Cervical Compressive myelopathy with quadriparesis, post traumatic paraplegia & pott's paraplegia.			
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Recommended Text Books:

- 1. Mayil Vahanan Natarajan, "Textbook of Orthopaedics and Traumatology", 8th edition, Wolters Kluwer Pvt. Ltd., 2018.
- 2. Maheswari & Mhaskar, "Essential Orthopaedics", 7th edition, Jaypee publishers, 2022.
- 3. Adam's "outline of fractures", 12th edition, Elsevier, 2020
- 4. Apley's "System of Orthopaedics and fractures", 9th edition, CRC, 2017

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General Surgery, Plastic Surgery and O.B.&G.

Course code: U21BPTT532

Total: 90 Hours

COURSE DESCRIPTION:

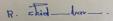
This course intends to familiarize students with principles of General surgery including various specialties like cardiovascular, thoracic, neurology and plastic surgery as well as to provide introduction towomen's health which includes problems related to pregnancy and otherdisorders specific to women. It familiarizes the students with terminology and abbreviations for efficient and effective chart reviewing and documentation. It explores various conditions needing attention, focusing on epidemiology, pathology as well as primary and secondary clinical characteristics and their surgical and medical management. The purpose of this course is to makephysiotherapy students aware of various surgical conditions general surgery and specialty surgeries so these can be physically managed effectively both pre aswell as postoperatively.

OBJECTIVES:

At the end of the course, the candidate will be able to:

- a) Describe the effects of surgical trauma & anaesthesia in general.
- b) Describe pre-operative evaluation, surgical indications in various surgical approaches, management and post operative care in above mentioned areas with possible complications.
- c) Read & interpret findings of the relevant investigations.
- d) Normal and abnormal physiological events, complications and management of pregnancy (Pregnancy, Labour, Puerperium).
- e) Normal and abnormal physiological events, complications and management of uro- genital dysfunction (Antenatal, Postnatal and during menopause).

Units	Topics	Didactic Hours	Clinical Hours	Total Hours
	GENERAL SURGERY	30	10	40
Ι	 1.Infection and inflammation: Acute & chronic signs, symptoms, complications & management. 2.Wounds and ulcers : Classification, healing & management, 	3		
II	 1.General : i. Anaesthesia types, Effect, indications , contraindications and postoperative complications ii. Haemorrhage and Shock, classification, iii. Water & Electrolyte imbalance 	12	10	



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	iv. Mastectomy and oncosurgery– approach,			
	complications & management			
	v. Amputation – types, sites,			
	complications & management.			
	vi. Burns – causes, complications,			
	classification & management			
	vii.Varicose veins and PVD	4		
	2.Neurosurgery:			
	i. Head Injury – management			
	ii. Intra cranial & Spinal tumors	5		
	iii. Intracranial Aneurysm &AV			
	malformation	2		
	iv. Post operative Neurosurgical care	3		
	3. Abdominal surgeries			
	i. Surgical anatomy of anterior			
	abdominal wall.	1		
	ii. Surgical approaches.			
	iii.Common abdominal surgeries like			
	cholecystectomy, gastrectomy, hernias,			
	appendectomy, nephrectomy			
	4. E.N.T. Surgery			
	i. Tracheostomy – indications, surgical			
	approach & management			
	ii. Surgical procedures in VII th cranial nerve			
	palsy Vertigo			
	CARDIO – THORACIC SURGERY& PLASTIC	15	10	25
	SURGERY	12	10	23
	Cardio – thoracic surgery :			
	1. Introduction, Cardiorespiratory			
	resuscitation, cardiopulmonary bypass,			
	Special investigation procedures in cardiac			
	surgery, Basic techniquesin cardiac surgery			
Ш	approach, incisions, types of operation,			
	complications of cardiac surgery, Lines,	10	5	
	drains and tubes.			
	2. Brief description of indications,			
	surgery, Complications for			
	following surgeries;			
	i. Surgeries of the lung			
	ii. Surgeries of pleura and pericardium			
			1	

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	iii. Surgery for coronary artery disease			
	iv. Valvular surgeries			
	_			
	-			
	-			
	-			
	Gangrene, Amputation, DVT			
	Plastic surgery :			
	iv. Valvular surgeries v. Surgery for Congenital Heart Disease v. Surgery for Congenital Heart Disease v. Peripheral arterial disorder, Burger's disease, Raeynaud's disease, Raeynaud's disease and Aneurysm Gangrene, Amputation, DVT Plastic surgery : Skin grafts & flaps – Types, indicationswith special emphasis to burns, wounds i. Ulcers, complications and postoperativecare ii. Tendon transfers, with special emphasis tohand, foot & facial paralysis, & repair of Flexor & Extensor Tendon Injuries iii. Keloid & Hypertrophied scar management iv. Reconstructive surgery of peripheral nerves Micro vascular surgery- Micro vascular surgery- reimplantation & revascularization OB&G 15 10 i) physiology of pregnancy: i. Development of the foetus, Normal/ Abnormal / multiple gestations, ii. Common Complications during pregnancy: a. Anaemia, b. P 1H c. Eclampsia 5 d. Diabetes, 5 e. Hepatitis, TORCH infection or HIV 2) physiology of labour: i. Normal – Events			
	-			
	5			
	_			
	iv. Valvular surgeries v. Surgery for Congenital Heart Disease vi. Peripheral arterial disorder, Burger's disorder, Burger's disease, Racynaud's disease, Racynaud's disease and Aneurysm Gangrene, Amputation, DVT Plastic surgery : Skin grafts & flaps – Types, indicationswith special emphasis to burns, wounds i. Ulcers, complications and postoperativecare ii. Tendon transfers, with special emphasis tohand, foot & facial paralysis, & repair of Flexor & Extensor Tendon Injuries iii. Keloid & Hypertrophied scar management iv. Reconstructive surgery of peripheral nerves Micro vascular surgery-reimplantation & revascularization OB&G 15 10 1) physiology of pregnancy: i. Development of the foetus, Normal / Abnormal / multiple gestations, ii. Common Complications during pregnancy: a. Anaemia, b. P 1H v c. Eclampsia 5 e. Hepatitis, TORCH infection or HIV 2) physiology of labour: i. Normal – Events of P ^a , IP ^{al} & IIP ^{al} i. Complications during labour& management <td>25</td>	25		
	-			
	-			
	-			
	1			
N7	c. Eclampsia			
IV	-	5		
	e. Hepatitis,			
	-			
	2) physiology of labour:			
	ii. Complications during labour&			
	management			
1	management			
	-			

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V	 Post natal period: Puerperium & Lactation Complications of repeated child bearing with small gaps Methods of contraception Uro-genital dysfunction: Uterine prolapse – Classification & Management (Conservative /Surgical) Cystocoele, Rectocoele, Enterocoele, Urethrocoele 	2	10	

RECOMMENDED TEXT BOOKS

- Bailey & Love's "Short Practice of Surgery", 28th edition, CRC Press, 2022.
 S. Das "A Concise Textbook of Surgery", 6th edition, Dr. S. Das, 2010.

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GENERAL MEDICINE, PAEDIATRICS AND PSYCHIATRY

Subject code: U21BPTT533

Theory hours: 120 hours

COURSE DESCRIPTION:

This subject follows the basic science subjects to provide the knowledge about relevant aspects of General Medicine, Pediatric and Psychiatry. The student will have a general understanding of the diseases the therapist would encounter in their practice. The objective of this course is that discussion the student will be able to list the etiology, pathology, clinical features and treatment methods for various medical conditions.

COURSE OBJECTIVES:

At the end of the course, the candidate will:

- Be able to describe Etiology, Pathophysiology, Signs & Symptoms & Management of the Endocrinal, Metabolic, Geriatric & Paediatric & Psychiatric, Nutrition Deficiency conditions.
- 2. Be able to describe Etiology, Pathophysiology, Signs & Symptoms, Clinical Evaluation & Management of the various Rheumatologic Cardiovascular & Respiratory Conditions.
- Acquire skill of history taking and clinical examination of Musculoskeletal, Respiratory, Cardio- vascular & Neurological System as a part of clinical teaching.
- 4. Be able to interpret auscultation findings with special emphasis to pulmonary system.
- Study Chest X-ray, Blood gas analysis, P.F.T. findings & Haematological studies, for Cardiovascular, Respiratory, Neurological & Rheumatological conditions.
- 6. Be able to describe the principles of Management at the Intensive Care Unit.
- 7. Be able to acquire the skills of Basic Life Support. 8. Acquire knowledge of various drugs used for each medical condition to understand its effects and its use during therapy.

Unit	Topics	Didacti c Hours	Clinical Hours	
	GENERAL MEDICINE			
	INFECTIONS:			
Ι	Mode of spread, Effects of Infection in the body – and preventive measures of the following diseases: Bacteria - Tetanus Viral - Herpes simplex, Herpes Zoster, Varicella, Measles, Hepatitis B, AIDS. Protozoal – Filaria.	10	8	18

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	POISONING:			
	Clinical features – general management – common agents in poisoning – pharmaceutical agents – drugs of misuse – chemical pesticides – Envenomation.			
	FOOD AND NUTRITION:			
	Assessment – Nutritional and Energy requirements. Deficiency diseases – vitamins (A, B, C, D& K) and Minerals (iron, calcium phosphorus, iodine) clinical features and treatment.			
	METABOLIC & ENDOCRINE DISEASES:			
	Definition, aetiology, types, complications & management of: Diabetes mellitus Diseases of thyroid & parathyroid, adrenal and pituitary glands, Obesity.			
	HEMATOLOGY:			
	Clinical aspect of Anemia: iron deficiency, B12 & Folic acid deficiencies, Types of bleeding diathesis,. Clinical features and management of Hemophilia.			
	GIT:			
Π	 Clinical manifestations of gastrointestinal disease – Etiology, clinical features, diagnosis, complications and treatment of the following conditions: Reflux Oesophagitis, Achlasia Cardia, Carcinoma of Oesophagus, GI bleeding, Peptic Ulcer disease, Carcinoma of Stomach, Pancreatitis, Malabsorption Syndrome, Ulcerative Colitis, Peritonitis, Infections of Alimentary Tract . Clinical manifestations of liver diseases – Aetiology, clinical features, diagnosis, complications and treatment of the following conditions : Viral Hepatitis, Wilson's Disease, Alpha1-antitrypsin deficiency, Tumors of the Liver, Gall stones, Cholycystitis. DERMATOLOGY: 	31	10	41
	Examination and clinical manifestations of skin diseases; Causes, clinical features and management of the following skin conditions: Leprosy, Psoriasis, Pigmentary Anomalies, Vasomotor disorders, Dermatitis, Coccal and Fungal Parasitic and Viral infections.			

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RESPIRATORY DISEASE:	
Definition, Etiology, Clinical features, s	igns and symptoms,
complications, management and treatment	nt of following lung
disease:	
• Chronic bronchitis, Emphysema	
• Asthma	
• Bronchiectasis, cystic fibrosis	
• upper respiratory tract infections	
 Pneumonia, tuberculosis, lung abs 	scess, fungal
diseases, interstitial lung disease	
• Disease of pleura (Pleural effusion	n, Pneumothorax,
Hydropneumothorax, Emphysema	a)
• Disease of diaphragm and chest w	vall deformities
• Respiratory failure – definition, ty	pes, causes, clinical
features ,diagnosis and manageme	ent.
NERVOUS SYSTEM:	
• CVA – thrombosis, embolism, hen	norrhage
 Extrapyramidal lesion – Parkinson 	
• Extrapyramidal lesion – Farkinson chorea, dystonia.	15111, autocosis,
 Disorders of cerebellar infarction 	
 Disorders of cerebenal infarction Disorders of muscle – myopathy 	
 Disorders of induced information Disease of Anterior horn cells: SM 	A.MND.
Syringomyelia ,poliomyelitis .	
• Multiple sclerosis	
• Infections of nervous system – enc	ephalitis,
neurosyphilis, meningitis.	
• Tetanus, transverse myelitis, tabes	dorsalis, TB spine
• Epilepsy	
CARDIO-VASCULAR SYSTEM :	
Definition, aetiology, clinical feature	C .
cardiac failure, rheumatic fever, inf	
ischaemic heart disease, hypertension, pul	
pulmonary infarction and deep vein throm	00313.
• Congenital heart disease – ASD, V	VSD, Fallot's
tetralogy, PDA.	

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	RENAL CONDITION:		
	Acute & Chronic Renal Failure Urinary tract infections.		
	RHEUMATOLOGICAL CONDITION:		
	Introduction to autoimmune disease Systemic lupus erythematosis, Polymyositis, Dermatomyositis, Polyarthritis nodasa, Scleroderma, Rheumatoid arthritis, Osteoarthritis.		
	ENT:		
	Otitis media, otosclerosis, functional achonia and deafness, facial palsy – classification, medical and surgical management.		
III	OPTHALMOLOGY:	16	16
	Ophthalmologic surgical conditions, refractions, conjunctivitis, glaucoma, corneal ulcer, iritis, cataract, detachment of retina, defects of extra -ocular muscles surgical management.		
	GERIATRIC:		
	Physiology of aging /degenerative changes – musculoskeletal /neuromotor /cardio-respiratory /metabolic, endocrine, cognitive, immune systems, osteoporosis, alzhemimers, dementia		
	List disease commonly encountered in the elderly population and causing disability		
UNIT	PAEDIATRICS		
	 GROWTH AND DEVELOPMENT [from child birth to 12 years Normal uterine development of foetus . 		
IV	 Growth and development of child – motor, mental, language and social. HIGH RISK PREGNANCY: 		
	Perinatal, Postnatal problems and management (Birth injuries) Neck, shoulder dystocia, Brachial plexus injury,		

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DEVELOPMENTAL DELAY:			
Etiology, pathophysiology, classification, clinical signs & symptoms.			
CHILD AND NUTRITION :			
 Significance of breast feeding. Problems and management of LBW infants, Nutritional requirements, malnutrition syndrome, vitamin deficiency disorders. 			
COMMON INFECTIOUS DISEASE IN CHILDREN:			
Tetanus, diphtheria, mycobacterial measles, chicken pox, gastroenteritis, HIV.			
ORTHOPEDIC AND NEUROLOGICAL DISORDERS:			
 Cerebral palsy (Define and briefly outline etiology of prenatal, perinatal and postnatal causes: briefly mention pathogenesis, types of cerebral palsy (classification) findings on examination; general examination of C.N.S. Musculoskeletal and respiratory system and management). Meningitis, encephalitis Hydrocephalus Ataxia Arnold-chiari malformation, dandy walker syndrome Basilar impression & cerebral malformations Floppy infant GBS Poliomyelitis Epilepsy Neural tube defects Neuropathy, infantile hemilegia. Still's disease Limping child DDH, perthes disease, CTEV, torticollis. 	30	10	

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RESPIRATORY DISEASES :

Bronchiectasis, Bronchopneumonia, Bronchial asthma, Lung Abscess Tuberculosis, SIDS, cystic fibrosis, Acute pediatric respiratory distress syndrome.

CARDIOVASCULAR DISODERS :

Rheumatic heart disease ,subacute bacterial endocarditis, congenital heart defects -VSD ,ASD, PDA ,TOF ,Transposition of Great Vessels RHD.

GENETIC DISORDERS :

- Types of genetic disorder
- Downs syndrome
- Muscular dystrophy -Types Mode of inheritance Clinical manifestation Progression and prognosis of disease, Evaluation (Genetic screening test), Treatment.
- Common Genetic disorders.

HAEMATOLOGICAL DISORDER :

Iron deficiency anemia, Aplastic anemia, sickle cell disease, hemophilia, thalassemia, leukemia.

MISCELLANEOUS :

- Feeding and communication difficulty,
- Sensory disorders problems due to loss of vision and hearing
- Learning and behavioural problems Attention Deficit Hyperactivity Disorder & Autism, Mental retardation.

CLINICAL ASSESSMENTS:

- NICU-Overview.
- Neonatal assessment including neonatal reflex.
- Pre-term baby assessment.
- Low birth weight baby assessment.
- Examination of the nervous system
- Examination of respiratory system
- Examination of cardiovascular system
- Community programmes: International (WHO),

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	national and local for prevention measures for disease. Outline the immunization schedule for children		
UNIT	<u>PSYCHIATRY</u>		
v	 Psychiatric History, classification and mental status examination. Organic mental disorders (delirium, dementia, organic amnestic syndrome and other organic mental disorders). Mood disorders (manic, depressive episodes, bipolar mood disorders). Neurotic stress related and somatoform disorders (Anxiety disorder, phobic anxiety disorders, obsessive compulsive disorders, adjustment disorders, dissociative disorders, somatoform disorders post-traumatic stress Disorder. 	5	5

RECOMMENDED REFERENCE BOOK:

- 1. Davidson's "Principles and practice of Medicine", 23rd edition, Elsevier, 2018.
- 2. O.P. Ghai, "Essential Paediatrics", 9th edition, CBS Publishers, 2019.
- 3. Graham Davey, Nick Lake "Clinical Psychology", 2nd edition, Taylor & Francis group, 2015.
- 4. M.S. Bhakia "Short textbooks of Psychiatry", 7th edition, CBS Publishers, 2019.

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COMMUNITY HEALTH AND REHABILITATION

SUBJECT CODE: U21BPTT534

TOTAL HOURS: 60Hours

COURSE DESCRIPTION:

This course is designed to assist the students to acquire knowledge of the disease and help the students to understand the limitation imposed by the diseases.

COURSE OBJECTIVES:

At the end of the course the candidate shall be able to understand the contents given in the syllabus.

Units	Topics	Didactic Hours	Clinical Hours	Total Hours
Ι	 1.INTRODUCTION i. Natural history of diseases ii. Influence of social, economic, cultural aspect of health and diseases iii. Measures of prevention for disease with disability a. Methods of intervention for disease with disability. 2.HEALTH CARE DELIVERY SYSTEM AND PUBLIC HEALTH ADMINISTRATIVE SYSTEM i. National level ii. State level 3.NATIONAL HEALTH PROGRAMME i. Role of social, economic, cultural factors in theimplementation of National programmes ii. Primary health care a. Objectives and implementation. 	10		10
II	 1.OCCUPATIONAL HEALTH Definition Scope Scope Occupational diseases Prevention of occupational diseases and hazards Role of E.S.I. 	10		10

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	i. Protection of occupational hazards, accidents		
	and diseases		
	ii. Workmen compensation act		
	iii. Environmental safety.		
	 1.FAMILY WELFARE PROGRAMME i. Objectives of family welfare programme ii. Family planning methods iii. General idea of Advantages and disadvantages iv. Concepts of planned pregnancy a. Population dynamics. 2.COMMUNICABLE DISEASES 		
Ш	 2.COMMONICABLE DISEASES (With reference to reservoir, mode of transmission, route ofentry and levels of prevention) Poliomyelitis Meningitis Encephalitis Encephalitis Tuberculosis Filariasis Leprosy Leprosy Tetanus viii. Measles Malaria Universal immunization programme-ARI, Diarrhea &polio control programme. 3.EPIDEMOLOGY OF Rheumatic heart disease Chronic degenerative disease Cerebro vascular accident Blindness Accident 	15	15
	vi. Cancer 1.MENTAL HEALTH i. Community aspect of mental health. a. Role of physiotherapist in mental health problem incerebral palsy, mental retardation.		
IV	 2.HEALTH EDUCATION Philosophy Main principles and objectives Methods and tools of communication Health education versus health legislation Education versus propaganda Role of community leader in health education vii. Role of health professionals in health 	15	15

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	Element of planning a health education programme with special emphasis on community participation 3. COMMUNITY BASED REHABLITATION VERSUS INSTITUTIONAL BASED REHABILITATION		
V	 1.REVIEW OF i. Beliefs, values, norms, habits, taboos a. Their importance in learning and change process 2.REVIEW OF i. Concept of perception ii. Attitudes iii. Socialization process iv. Learning and theories of learning v. Social change and change process a. Motivation needs 3.VITAL HEALTH STATISTICS i. Basic concept ii. Mortality and morbidity rate iii. Period, age, causes of specific death rate a. Role of this rate as b. indicator of health and c. disease. 	10	10

RECOMMENDED TEXT BOOK:

1. K. Park "Textbook of Preventive and Social Medicine", 22nd edition, Generic Publisher, 2013.

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DIAGNOSTIC IMAGING FOR PHYSIOTHERAPY

COURSE CODE: U21BPTP536

TOTAL HOURS: 45hrs

COURSE DESCRIPTION:

This course covers the study of common diagnostic and therapeutic imaging tests. At the end of the course students will be aware of the indications and implications of commonly used diagnostic imaging tests as they pertain to patient's management. The course will cover that how X-Ray, CT, MRI, Ultrasound and Other Medical Images are created and how they help the health professionals to save lives.

COURSE OBJECTIVE:

The objectives is to train Physiotherapy students to become a skilled and competent to interpret various diagnostic / interventional imaging studies both conventional and advanced imaging

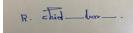
Units	Topics	Didactic	Clinical	Total
Units	Topics	Hours	Hours	Hours
	1.IMAGE INTERPRETATION			
	i. Introduction to Radiology			
	ii. Evolution of X Rays			
	iii. Role of Medical Imaging			
	iv. Radiography(x-rays)			
	v. Fluoroscopy	3	1	4
	vi. Computed Tomography (CT)	5	1	+
	vii. Magnetic Resonance Imaging (MRI)			
	viii. Ultrasound			
Ι	1. RADIOGRAPHY			
1	i. Equipment components			
	ii. Procedures for Radiography			
	iii. Benefits versus Risks and Costs			
	iv. Indications and Contraindications.	3	2	5
	2. MAMMOGRAPHY			
	i. Equipment components			
	ii. Procedures for Mammography			
	iii. Benefits versus Risks and Costs			
	iv. Indications and contraindications.	3	2	5

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	3. FLUOROSCOPY	3	2	5
	i. What is Fluoroscopy?			
	ii. Equipment used for fluoroscopy			
	iii. Indications and Contra indications			
	iv. The Findings in Fluoroscopy			
	v. Benefits versus Risks and Costs.			
II	4. COMPUTED TOMOGRAPHY (CT)	5	2	7
	i. What is Computed Tomography?	- C	-	,
	ii. Equipment used for Computed			
	Tomography			
	iii. Indications and Contra indications			
	iv. The findings in Computed Tomography			
	v. Benefits versus Risks and Costs.			
	MAGNETIC RESONANCE IMAGING			
	(MRI)			
	i. What is MRI?	5	2	7
III	ii. Equipment used for MRI			
	iii. Indications and Contra indications			
	iv. The Findings in MRI			
	v. Benefits versus Risks and Costs			
	vi. Functional MRI.			
	ULTRASOUND			
	i. What is Ultrasound?			
	ii. Equipment used for ultrasound			
IV	iii. Indications and Contra indications	5	2	6
1 1 1	iv. The findings in ultrasound			
	v. Benefits versus Risks and Costs.			
	vi. Echocardiography? Indications and			
	contraindication			
	NUCLEAR MEDICINE			
	i. What is Nuclear medicine?			
V	ii. Equipment used for Nuclear medicine	3	2	4
	iii. Indications and Contra indications			
	iv. Benefits versus Risks and Costs			

RECOMMENDED REFERENCE BOOKS

- 1. Brant and Helms, Fundamentals of diagnostic radiology, 5th edition, Wolters Kluwer, 2019.
- 2. Chapman & Nakielny's "Aids to Radiological Differential Diagnosis", 7th edition, 2019.



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CLINICAL TRAINING

Course code: U21BPTP537

Total: 125hrs

Course Description

The Student will learn the Subjective data taking procedure.

Course Objective

At the end of the course the students will able to

- 1. Understand the history taking procedure
- 2. Various procedures in patient's assessments
- 3. Learn the various treatment procedures

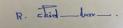
Sl. No	TOPIC	HOURS
1.	Demographic data Collection Socioeconomic	
2.	history collection	
3.	Social behavior and its influence on health	
4.	Schedule the patients treatment according to their condition	

SCHEME OF EXAMINATION

IA	FINAL EXAM	TOTAL
50	50	100

END SEMESTER EXAMINATION

Sl. No	Components	Marks
1	2 case presentation	25 ×2 = 50



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B.P.T. PROGRAMME

CASE ASSESSMENT

Name:

Date of Assessment:

Gender:

Age:

Occupation:

Address:

Hand dominance: Presenting

Complaints:

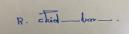
History of presenting complaints:

Medical history:

Surgical history:

Social history:

Personal history:



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Pain assessment:

E.	S
15-71	
Right Left	Left Right
213	23

Site:

Side:

Duration:

Type:

Severity on VAS:_____

No pain

Max pain

Aggravating factors:

Relieving factors:

On observation:



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Core Courses Practical Total Theory Sl.No. **Course Code Course Name** (in hours) (in hours) (in hours) Physiotherapy in Orthopaedic conditions 90 90 U21BPTP638 1. _ (Theory) Physiotherapy in Orthopaedic 2. U21BPTP641 conditions 90 90 _ (Practical) Physiotherapy in General medicine and 3. U21BPTP639 60 60 General Surgery (Theory) Physiotherapy in General

Curriculum Structure for VI Semester

4.	U21BPTP642	medicine and General Surgery (Practical)		90	90
5.	U21BPTP640	Clinical Neurology and Neuro Surgery for Physiotherapy (Theory)	90	-	90
		Auxillar	y Courses		
6.	U21BPTP643	Principles of Management	30	-	30
7.	U21BPTP645	Health Promotion & Fitness	15	15	30
8.	U21BPTP646	Clinical Training		90	90

Total Hours: 570

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PHYSIOTHERAPY IN ORTHOPEDIC CONDITIONS

Course Code: U21BPTP638

Total: 90 Hours

Course Description:

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

Physiotherapy in Orthopedic condition focuses on maximizing functional independence and wellbeing. 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 musculoskeletal dysfunction, plan and set treatment goals and apply the skills gained in exercise therapy and electrotherapy in these clinical situations to restore musculoskeletal function.

Unit		Didactic	Clinical	Total
	Торіс	Hours	Hours	Hours
	1. Fractures & Dislocations			
	i. Fractures and dislocation of the Spine &			
	Extremities – classification, complications, PT			
	management of following:			
	a) Upper limb fractures & dislocations.			
	b) Lower limb fractures and dislocations including			
Ι	pelvis.	15	F	20
	c) Spinal fractures	15	5	20
	ii. PT management in complications - early & late			
	- shock, compartment syndrome, VIC, fat			
	embolism, delayed and mal-union, RSD,			
	myositis ossificans, AVN, pressure sores etc.			
	iii. Dislocation of Shoulder, Elbow, Hip & Knee			

SYLLABUS

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	1. Soft Tissue Injuries			
	(i) Synovitis			
	(ii) Capsulitis			
	(iii) Tendonitis			
	(iv) Rupture of tendons			
	(v) Cartilage & meniscal injuries			
	(vi) Fasciitis			
Π	(vii) Burns	5	5	10
	2. Deformities			
	(i) Congenital: CTEV, CDH, Torticollis, pes			
	planus, pes cavus and other common			
	deformities.			
	(ii) Acquired: scoliosis, kyphosis, coxa vara, genu			
	varum, valgum and recurvatum.			
	1. Infectious diseases of the bone & joints			
	(i) Osteomyelitis – acute and chronic			
	(ii) Septic arthritis and Pyogenic arthritis			
	(iii) TB spine and major joints - knee and hip			
III				
	2. Degenerative and Inflammatory Conditions	15	5	20
	(i) Osteoarthritis - emphasis on knee, hip and hand			
	(ii) Rheumatoid Arthritis, Ankylosing spondylitis			
	(iii) Gout, Perthes disease			
	1. Peripheral Nerve Injury			
	Physiotherapy management for peripheral nerve			
	injuries.			
IV		5		5
1 V	2. Amputation	5		5
	Definition, levels, indications, types, PT			
	management for various levels of amputation.			
	1. Regional Conditions			
	(i) Spine Complex			
	(a) Cervical & Lumbar spondylosis			
	(b) Intervertebral disc prolapses			
	(c) Spinal canal stenosis			
	(d) Spondylolysis, Spondylolisthesis			
	(e) Coccydynia			
	(f) Sacro-iliac joint dysfunction			
	(g) Sacralisation, Lumbarisation			



	(ii) Shoulder Complex			
	Shoulder instabilities, Thoracic outlet syndrome			
	(TOS), Reflex sympathetic dystrophy (RSD), and			
	Impingement syndrome - conservative and post- operative			
	PT management. Total shoulder replacement and Post			
	operative PT management. Acromio clavicular joint			
	injuries - rehabilitation. Rotator cuff tears-conservative			
	and surgical repair. Subacromial decompression - Post			
	operative PT Management, Subacromial bursitis.			
	(iii) Elbow Complex			
	Tennis and Golfer's elbow. Excision of radial			
	head- Post operative PT management. Total elbow			
	arthroplasty- Post operative PT management.			
	(iv) Wrist and Hand Complex			
	(a) Wrist sprains			
	(b) Dequervain's Tenosynovitis, Trigger and			
	Mallet finger			
	(c) Repair of ruptured flexor and extensor			
	tendons			
	(d) Carpal tunnel syndrome.			
N		25	10	35
	(v) Hip Complex			
	Joint surgeries - hemi and total hip			
	replacement - Post operative PT			
	management Management.			
	(vi) Knee Complex			
	(a) ACL, PCL and MCL reconstruction surgeries -			
	Post operative rehabilitation			
	(b) Meniscectomy and meniscal repair - Post			
	operative management.			
	(c) Pre patellar.			
	(d) Anterior Knee pain: PFPS, Plica syndrome,			
	patellar dysfunction and Hoffa's syndrome etc.			
	- conservative management			
	(e) TKR- rehabilitation protocol			
	(f) Patellar tendon ruptures and Patellectomy-			
	rehabilitation			
	(vii) Ankle and foot Complex			
	(a) Ligamentous tears- Post operative			
	management			
	(b) TA rupture			

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(c) Plantar fasciitis, Metatarsalgia, hammer toe		

Recommended Text Books:

- 1. Jayant Joshi, Prakash Kotwal, "Essentials of Orthopaedic & Applied Physiotherapy", 3rd edition, Elsevier Publications, 2016.
- David J. Magee, Robert C. Manske, "Orthopaedic Physical Assessment", 7th edition, Elsevier Publications, 2021.
- Carrie M. Hall, Lori Thein Brody "Therapeutic Exercise: Moving towards Function", 4th edition, Wolters Kluwer, 2017.

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PHYSIOTHERAPY IN GENERAL MEDICINE AND GENERAL SURGERY

Course Code: U21BPTP639

Total: 60 Hours

Course Description:

Physiotherapy in General Medicine & General surgery emphasizes the management of techniques based on the best available evidence. Physiotherapy strategies for assessment and treatment address structural & functional impairments and activity limitation of individuals. The therapeutic approach is patient and family focused.

Course Objective:

At the end of the course the candidate will be able to:

- 1. Describe physiotherapy management of the various metabolic & nutrition deficiency condition.
- 2. Describe physiotherapy management of the various cardiovascular and respiratory condition.
- 3. Describe the principles of management at the MICU & SICU.

Units	Topics	Didactic Hours	Clinical Hours	Total Hours
	GENERAL SURGERY			
Ι	 Physiotherapy in mother and child care – ante and post- natal management, early intervention and stimulation therapy in child care (movement therapy) Geriatrics – handling of old patients and their problems. Complication common to all operations Abdominal incisions. Physiotherapy in pre and post-operative stages. Operations on upper G.I.T oesophagus, stomach, duodenum Operations on large and small intestine – Appendisectomy, cholecystectomy, partial colectomy, ileostomy, hernia and herniotomy, hernioraphy, hernioplasty. Physiotherapy in dentistry 	12		
II	Burns and its treatment – physiotherapy burns, skin grafts, and reconstructive surgeries.	10		

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III	 Management of wound ulcers- Care of ulcers and wounds - Care of surgical scars-U.V.R. and other electro therapeutics for healing of wounds, prevention of hyper- granulated scars keloids, Electrotherapeutics measures for relief of pain during mobilization of scars tissues. 	12	
IV	 Physiotherapy in dermatology - Documentation of assessment, treatment and follow up skin conditions. U.V.R therapy in various skin conditions; Vitiligo; Hair loss; Pigmentation; Infected wounds ulcers. Faradic foot bath for Hyperhydrosis. Massage maneuvers for cosmetic purpose of skin; use of specific oil as medium; Care of anesthetic hand and foot; Evaluation, planning and management of leprosy- prescription, fitting and training with prosthetic and orthotic devices. 	12	
v	 Physiotherapy intervention in the management of Medical, surgical and radiation oncology cases ENT – sinusitis, non-suppurative and chronic suppurative otitis media, osteosclerosis, labrynthitis, mastoidectomy, chronic rhinitis, laryngectomy, pharyngeo – laryngectomy, facial palsy. 	14	

RECOMMENDED TEXT BOOKS:

- 1. O' Sullivan "Physical Rehabilitation", 7th edition, F.A. Davis, 2019.
- 2. William E. Prentice, "Therapeutic Modalities", 6th edition, MC Graw hill, 2021.
- 3. Joan E. Cash, "Textbook of Physiotherapists", 4th edition, Mosby, 1987.

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CLINICAL NEUROLOGY AND NEUROSURGERY FOR PHYSIOTHERAPY

Course cord: U21BPTP640

Total: 90 hours

COURSE DESCRIPTION:

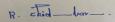
This subject follows the fundamental science subjects to provide the knowledge about relevant aspects of neurology & neurosurgery. The student will have a basic knowledge of the diseases the therapist would encounter in their practice. The objective of this course is that after 90 Hours of lectures and discussion the student will be able to list the etiology, pathology, clinical features and ways for treating various neurological conditions.

COURSE OBJECTIVES:

At the end of the course, the candidate will:

- 1. Be able to describe Aetiology, Pathophysiology, signs & Symptoms & Management of the various Neurological Conditions (or) disease.
- 2. Acquire skill of history taking and clinical examination of Neurological patients as a part of clinical teaching.
- 3. Be able to describe neuromuscular, musculoskeletal, cardio-vascular & immunological conditions, nutritional deficiencies, infectious diseases, & neuro transmitted conditions.
- 4. Acquire skill of clinical examination of a neonate / child with respect to the neurological condition

Unit	Торіс	Didactic Hours	Clinical Hours	Total Hours
	1. GENERAL NEUROLOGICAL ASSESSMENT			
	i. Nervous system- history and examination ii. Conscious level assessment			
	iii. Higher nutral function			
	iv. Cranial nerve examination			
	v. Motor, sensory, cerebellar & gait examination			
	vi. Examination of the unconscious patients			
Ι	vii. The neurological observation charts			
	2. NEUROLOGICAL INVESTIGATIONS			
	i. investigation of the central and peripheral nervous systems			
	ii. skull x-ray			
	iii. computerized tomography scanning {CT}			
	iv. magnetic resonance imaging {MRI}			



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v. ultrasound			
vi. angiography			
vii. radionuclide imaging			
viii. electroencephalography {EEG}			
ix. intracranial pressure monitoring			
x. evoked potentials			
xi. lumbar puncture			
xii. cerebrospinal fluid {CSF}			
xiii. electromyography/ nerve conduction studies			
xiv. neuro - otological test			
3. CEREBRO –VASCULAR ACCIDENTS:			
Define stroke, TIA, RIA, stroke in evolution,			
multi infarct dementia and Lacunar infarct.			
Classification of stroke – Ischemic, hemorrhagic,			
venous infarcts. Risk factors, cause of ischemic			
stroke, causes of hemorrhagic stroke. Classification			
of hemorrhagic stroke, classification of stroke based			
on symptoms, stroke syndrome, investigations,	20	5	25
differential diagnosis, medical and surgical			
management.			
4. HEAD INJURY:			
Etiology, classification, clinical signs &			
symptoms, investigations, differential diagnosis,			
medical management, surgical management and			
complications.			
5. BRAIN TUMORS AND SPINAL TUMORS:			
Classification, clinical features, investigations,			
medical and surgical management.			
6.INFECTIONS OF BRAIN AND SPINALCORD:			
Etiology, pathophysiology, classification,			
clinical signs & symptoms, investigations, differential			
diagnosis, medical management, surgical management			
and complications of following disorders:			
i. Meningitis, Encephalitis			
ii. Neurosyphilis, HIV infection			
iii. Herpes, Leprosy, Tetanus			
iv. Poliomyelitis and Post-polio syndrome			
iv. Tonomychus and Fost-pono syndrome			

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	7.COMPLICATIONS OF SYSTEMIC INFECTIONS ON NERVOUS SYSTEM Septic encephalopathy, AIDS, Rheumatic		
	fever, Brucellosis, tetanus, and pertussis.		
	8. MOVEMENT DISORDERS:		
	Definition, etiology, risk factors, pathophysiology, classification, clinical signs & symptoms, investigations, differential diagnosis, medical management, surgical management and complications of following disorders: i. Parkinson's disease ii. Dystonia, Chorea iii. Ballism's, Athetosis iv. Tics, Myoclonus v. Wilson's disease		
	9. CEREBELLAR AND COORDINATION DISORDERS:		
	Etiology, pathophysilogy, classification, clinical signs & symptoms, investigations, differential diagnosis, management. i. Congenital ataxia ii. Friedreich's ataxia iii. Ataxia talengiectasia iv. Metabolic ataxia v. Hereditary cerebellar ataxia vi. Tabes dorsalis vii. Syphilis		
II	 POLYNEUROPATHY: Classification of Polyneuropathies, Hereditary motor sensory neuropathy, hereditary sensory and Autonomic neuropathies, Amyloid neuropathy, acute idiopathic Polyneuropathies. Guillain-Barre syndrome – Causes, clinical features, management of GBS, Chronic Idiopathic Polyneuropathies, diagnosis of polyneuropathy, nerve biopsy. 		
	2. DISORDERS & DISEASES OF MUSCLE:		
	Classification, etiology, signs & symptoms, investigations, imaging methods, Muscle biopsy, genetic		

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counselling & management of muscle diseases emphasis			
i. Muscular dystrophy			
ii. Myotonic dystrophy			
iii. Myopathy			
iv. Non-dystrophic myotonia			
3. MOTOR NEURON DISEASES:			
Etiology, pathophysiology, classification, clinical			
signs & symptoms, investigations, differential diagnosis,			
medical management, and complications of following			
disorders:			
i. Amyotrophic lateral sclerosis			
ii. Spinal muscular atrophy			
iii. Hereditary bulbar palsy			
iv. Neuromyotonia			
v. Post-irradiation lumbosacral polyradiculopathy			
4. MULTIPLE SCLEROSIS:			
Etiology, pathophysiology, classification, clinical			
signs & symptoms, investigations, differential diagnosis,			
medical management, and complications			
5. DISORDERS OF MYONEURAL JUNCTION:	•	-	
	20	5	25
Etiology, classification, signs & symptoms,	20	5	25
Etiology, classification, signs & symptoms, investigations, management of following Disorders:	20	5	25
Etiology, classification, signs & symptoms, investigations, management of following Disorders: i. Myasthenia gravis	20	5	25
Etiology, classification, signs & symptoms, investigations, management of following Disorders: i. Myasthenia gravis ii. Eaton-Lambert syndrome	20	5	25
Etiology, classification, signs & symptoms, investigations, management of following Disorders: i. Myasthenia gravis	20	5	25
Etiology, classification, signs & symptoms, investigations, management of following Disorders: i. Myasthenia gravis ii. Eaton-Lambert syndrome	20	5	25
Etiology, classification, signs & symptoms, investigations, management of following Disorders: i. Myasthenia gravis ii. Eaton-Lambert syndrome iii. Botulism	20	5	25
 Etiology, classification, signs & symptoms, investigations, management of following Disorders: Myasthenia gravis Eaton-Lambert syndrome Botulism 6. SPINAL CORD DISORDERS: Anatomy and Functions of tracts, definition of 	20	5	25
 Etiology, classification, signs & symptoms, investigations, management of following Disorders: Myasthenia gravis Eaton-Lambert syndrome Botulism 6. SPINAL CORD DISORDERS: Anatomy and Functions of tracts, definition of spinal cord disorders, etiology, risk factors, 	20	5	25
 Etiology, classification, signs & symptoms, investigations, management of following Disorders: Myasthenia gravis Eaton-Lambert syndrome Botulism 6. SPINAL CORD DISORDERS: Anatomy and Functions of tracts, definition of spinal cord disorders, etiology, risk factors, pathophysiology, classification, clinical signs & 	20	5	25
 Etiology, classification, signs & symptoms, investigations, management of following Disorders: Myasthenia gravis Eaton-Lambert syndrome Botulism 6. SPINAL CORD DISORDERS: Anatomy and Functions of tracts, definition of spinal cord disorders, etiology, risk factors, pathophysiology, classification, clinical signs & symptoms, investigations, differential diagnosis, 	20	5	25
 Etiology, classification, signs & symptoms, investigations, management of following Disorders: Myasthenia gravis Eaton-Lambert syndrome Botulism 6. SPINAL CORD DISORDERS: Anatomy and Functions of tracts, definition of spinal cord disorders, etiology, risk factors, pathophysiology, classification, clinical signs & symptoms, investigations, differential diagnosis, medical management, surgical management and 	20	5	25
 Etiology, classification, signs & symptoms, investigations, management of following Disorders: Myasthenia gravis Eaton-Lambert syndrome Botulism 6. SPINAL CORD DISORDERS: Anatomy and Functions of tracts, definition of spinal cord disorders, etiology, risk factors, pathophysiology, classification, clinical signs & symptoms, investigations, differential diagnosis, medical management, surgical management and complications of following disorders: 	20	5	25
 Etiology, classification, signs & symptoms, investigations, management of following Disorders: Myasthenia gravis Eaton-Lambert syndrome Botulism 6. SPINAL CORD DISORDERS: Anatomy and Functions of tracts, definition of spinal cord disorders, etiology, risk factors, pathophysiology, classification, clinical signs & symptoms, investigations, differential diagnosis, medical management, surgical management and complications of following disorders: Spinal cord injury 	20	5	25
 Etiology, classification, signs & symptoms, investigations, management of following Disorders: Myasthenia gravis Eaton-Lambert syndrome Botulism 6. SPINAL CORD DISORDERS: Anatomy and Functions of tracts, definition of spinal cord disorders, etiology, risk factors, pathophysiology, classification, clinical signs & symptoms, investigations, differential diagnosis, medical management, surgical management and complications of following disorders: Spinal cord injury Inter vertebral disc prolapse 	20	5	25
 Etiology, classification, signs & symptoms, investigations, management of following Disorders: Myasthenia gravis Eaton-Lambert syndrome Botulism 6. SPINAL CORD DISORDERS: Anatomy and Functions of tracts, definition of spinal cord disorders, etiology, risk factors, pathophysiology, classification, clinical signs & symptoms, investigations, differential diagnosis, medical management, surgical management and complications of following disorders: Spinal cord injury Inter vertebral disc prolapse Spinal epidural abscess 	20	5	25
Etiology, classification, signs & symptoms, investigations, management of following Disorders: i. Myasthenia gravis ii. Eaton-Lambert syndrome iii. Botulism 6. SPINAL CORD DISORDERS: Anatomy and Functions of tracts, definition of spinal cord disorders, etiology, risk factors, pathophysiology, classification, clinical signs & symptoms, investigations, differential diagnosis, medical management, surgical management and complications of following disorders: i. Spinal cord injury ii. Inter vertebral disc prolapse iii. Spinal epidural abscess iv. Transverse myelitis	20	5	25
 Etiology, classification, signs & symptoms, investigations, management of following Disorders: Myasthenia gravis Eaton-Lambert syndrome Botulism 6. SPINAL CORD DISORDERS: Anatomy and Functions of tracts, definition of spinal cord disorders, etiology, risk factors, pathophysiology, classification, clinical signs & symptoms, investigations, differential diagnosis, medical management, surgical management and complications of following disorders: Spinal cord injury Inter vertebral disc prolapse Spinal epidural abscess Viral myelitis, syringomyelia 	20	5	25
 Etiology, classification, signs & symptoms, investigations, management of following Disorders: Myasthenia gravis Eaton-Lambert syndrome Botulism 6. SPINAL CORD DISORDERS: Anatomy and Functions of tracts, definition of spinal cord disorders, etiology, risk factors, pathophysiology, classification, clinical signs & symptoms, investigations, differential diagnosis, medical management, surgical management and complications of following disorders: Spinal cord injury Inter vertebral disc prolapse Spinal epidural abscess Viral myelitis, syringomyelia Spina bifida 	20	5	25
 Etiology, classification, signs & symptoms, investigations, management of following Disorders: Myasthenia gravis Eaton-Lambert syndrome Botulism 6. SPINAL CORD DISORDERS: Anatomy and Functions of tracts, definition of spinal cord disorders, etiology, risk factors, pathophysiology, classification, clinical signs & symptoms, investigations, differential diagnosis, medical management, surgical management and complications of following disorders: Spinal cord injury Inter vertebral disc prolapse Spinal epidural abscess Viral myelitis, syringomyelia 	20	5	25

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	x. Progressive encephalomyelitis			
	xi. Conus medullaris syndrome			
	xii. Bladder & bowel dysfunction xiii. Sarciodosis.			
	1. DISORDERS OF LOWER CRANIAL NERVES			
	& SPECIAL SENSES			
	Etiology, clinical features, investigations, and			
	management of following disorders			
	i. lesions in trigeminal nerve			
	ii. trigeminal neuralgia			
	iii. trigeminal sensory neuropathy			
	iv. lesions in facial nerve			
	v. facial palsy			
	vi. bell's palsy			
	vii. hemi facial spasm			
	viii. Glossopharyngial neuralgia			
	ix. lesions of Vagus nerve			
	x. lesions of spinal accessory nerve			
	xi. lesions of hypoglossal nerve			
	xii. Dysphagia – swallowing mechanisms, causes of			
	dysphagia, symptoms, examination, and			
	management of dysphagia.			
III	2. HIGHER CORTICAL, NEURO			
111	PSYCHOLOGICAL AND NEUROBEHAVIOURAL			
	DISORDERS			
	i. Epilepsy, physiology, classification, clinical			
	features, investigations, medical& surgical			
	management of following disorders – non- epileptic attacks of childhood, Epilepsy in			
	childhood, seizures and epilepsy syndromes in			
	adult.			
	ii. Classification & clinical features of dementia,			
	Alzheimer's disease.			
	iii. Causes & investigations of coma, criteria for			
	diagnosis of brain death.			
	3. PSYCHIATRY IN NEUROLOGY:			
	i. Psychiatric History, classification and mental			
	status examination	20	5	25
	ii. Organic mental disorders (delirium, dementia,			
	organic amnestic syndrome and other organic mental disorders)			
	iii. Mood disorders (manic, depressive episodes,			
	bipolar mood disorders)			
	iv. Schizophrenia, delusional disorders and			

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	achigo officiations discondance			
	schizoaffective disorders			
	v. Child psychiatry (mental retardation,			
	developmental disorders, attention deficit,			
	hyperkinetic disorder, enuresis, conduct			
	disorders)			
	vi. Disorders of adult personality and behavioor			
	(specific personality disorders, habit and impulse			
	disorders, gender identity disorders)			
	vii. Stress, psychosomatic disorders, suicide,			
	4. PERIPHERAL NEUROPATHY:			
	Clinical diagnosis of focal neuropathy, neurotmesis,			
	Axonotmesis, Neuropraxia. Etiology, risk factors,			
	investigations, management, of following disorders –			
	RSD, Nerve tumors, Brachial plexus palsy, Thoracic			
	outlet syndrome, Lumbosacral plexus lesions, Phrenic &			
	Intercostal nerve lesions, Median nerve palsy, Ulnar nerve			
	palsy, Radial nerve palsy, Musculocutaneous nerve palsy,			
	Anterior & Posterior interosseous nerve palsy, Axillary			
	nerve palsy, Long thoracic nerve palsy, Suprascapular			
	nerve palsy, Sciatic nerve palsy, Tibial nerve palsy,			
	Common peroneal nerve palsy, Femoral nerve palsy,			
	Obturator nerve palsy, Pudental nerve palsy.			
	1. TOXIC, METABOLIC AND ENVIRONMENTAL			
	DISORDERS:			
	Etiology, risk factors, classification, neurological			
	signs & symptoms, investigations, management, of			
	following disorders – Encephalopathy, Alcohol			
	toxicity, Recreational drug abuse, Toxic gases &			
	Asphyxia, Therapeutic & diagnostic agent toxicity,			
	Metal toxicity, Pesticide poisoning, Environmental &			
	physical insults, Plant & Fungal poisoning, Animal	7	2	9
IV	poisons, & Complications of organ transplantation.			
	2.INTRODUCTION, INDICATIONS AND			
	COMPLICATIONS OF FOLLOWING NEURO			
	SURGERIES:			
	Craniotomy, Cranioplasty, Stereotactic surgery,			
	Deep brain stimulation, Burr-hole, Shunting,			
	Laminectomy, Hemilaminectomy, Rhizotomy,			
	Microvascular decompression surgery, Endarterectomy,			
	Embolization, Pituitary surgery, Ablative surgery -			
	Zinconzution, Thanary Surgery, Molative Surgery -			

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	Thalamotomy and Pallidotomy, coiling of aneurysm,			
	Clipping of aneurysm, and Neural implantation.			
	3. DEAFNESS, VERTIGO, AND IMBALANCE:			
	Dharistean of heading discular of heading			
	Physiology of hearing, disorders of hearing,			
	examination & investigations of hearing, tests of			
	vestibular function, vertigo, peripheral vestibular			
	disorders, central vestibular vertigo.			
	4. NEURO-OPHTHALMOLOGY:			
	Assessment of visual function – acuity, field,			
	colour vision, Pupillary reflex, accommodation reflex,			
	abnormalities of optic disc, disorders of optic nerve,			
	tract, radiation, occipital pole, disorders of bigher visual			
	processing, disorders of pupil, disorders of eye			
	movements, central disorders of eye movement			
	movements, central disorders of eye movement			
	1. PEDIATRICS IN NEUROLOGY:			
	i. Normal development & growth			
	ii. Breast feeding and immunization			
	iii. Perinatal, Postnatal problems and management			
	(Birth injuries) Neck, shoulder dystocia, Brachial			
	plexus injury, Fractures			
	iv. Congenital abnormalities and its management			
	Problems and management of LBW infants			
	2. DEVELOPMENTAL DELAY:			
	Etiology, pathophysiology, classification, clinical			
V	signs & symptoms, investigations, differential diagnosis,			
	medical management, surgical management and			
	complications			
	complications			
	3. RESPIRATORY CONDITIONS OF			
	CHILDHOOD:	5	1	6
		5	1	0
	Pneumonia – Bacterial & Tubercular, Empyema,			
	Asthma			
	4.ORTHOPEDIC AND NEUROLOGICAL			
	DISORDERS IN CHILDHOOD, CLINICAL			
	FEATURES AND MANAGEMENT:			
	i. Cerebral palsy			
	ii. Meningitis, Encephalitis			

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	Hydrocephalus		
iv.	Ataxia		
v.	Arnold-Chiari malformation, Dandy walker		
	syndrome		
vi.	Basilar impression & Cerebral malformations		
vii.	Down's syndrome		
viii.	Floppy infant		
ix.	GBS		
x.	Poliomyelitis		
xi.	Epilepsy		
xii.	Neural tube defects		
xiii.	Muscular dystrophies		
xiv.	Neuropathy		
5. NU	FRITIONAL DISORDERS OF CHILDHOOD		
	ickets and scurvy, PEM (Kwashiorkor and		
Maras	mus) INFECTIONS – Congenital & Neonatal,		
Menta	l retardation Coma in Paediatrics and Acute		
rheum	atic fever		

Reference Books:

- 1. Davidson's "Principles and practice of Medicine", 23rd edition, Elsevier, 2018.
- 2. Sandhya A.Kamath, "API Textbook of Medicine", 12th edition, Jaypee Publishers, 2022.
- 3. P.J. Mehta's, "Practical Medicine", 21st edition, National Publications, 2018.
- 4. O.P. Ghai, "Essential Paediatrics", 9th edition, CBS Publishers, 2019.

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PRINCIPLES OF MANAGEMENT

Course Code: U21BPTP643

Total: 30 Hours

Course Description:

This course is designed to students to acquire understanding the principles & methods of management in physiotherapy services & educational Programmes.

Course Objective:

At the end of the course the student will

- 1. Learn the management basics in fields of clinical practice, teaching, research and Physiotherapy practice in the communicating.
- 2. Acquire communications skills in relation with patients, seniors and other professionals.

Unit	Topics	Didactic Hours	Practical Hours	Total Hours
I	Introduction to Management Definition, Science or Art, Manager Vs. Entrepreneur, types of managers, managerial roles and skills, Evolution of management, Principles, Functions of management, Current trends and issues in management.	6	_	6
Ш	Management Process Planning, types of planning, motivation theories, leadership styles, Formal and informal organization, Line and staff authority, communication, process of communication, barrier in communication, effective communication, communication and IT.	6	-	6
III	 Management of Physiotherapy Services (i) Planning: Patient care units, emergency management (ii) Human resources management: Recruiting, selecting, deploying, retaining, promoting. Patient classification system, Staff development & welfare (iii) Budgeting: Proposal, staff, equipment & supplies requirements 	6	_	6

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	(v)] (v)] (vi) (1	Material management : Procurement, inventory control, Auditing & maintenance. Directing & Leading: Delegation, participatory management, staff development, discipline maintenance Controlling / Evaluation: Physiotherapy rounds & visits, Quality assurance model, document of records & reports, performance appraisal			
IV	(i)] (i)] (ii)]	Ational Behaviour & Human Relations Human Resource Management, HR Planning, Recruitment, selection, Training and Development & Group dynamics. Public relations: Professional, Clinical & Social, Trade Unions, Collective bargaining.	6		6
V	(i)] (ii) (ii) (ii) (ii) (ii) (ii) (ii) (ii)	ment of Educational Institutions Physiotherapy institution College & Hostel: structure, committees & Management of equipments, Clinical & transport facilities, institutional records & reports	6	_	6

Recommended Text Books:

- 1. C.B. Gupta, "Business Management", Sultan Chand Sons, 9th Edition, 2018.
- 2. L. M. Prasad, "Principles and Practice of Management", Sultan Chand & Sons, 10th Edition 2019.
- 3. Koontz O'Donnell, "Essentials of Management", Tata McGraw Hill, 9th Edition, 2012.
- 4. P C Tripathi, "Principles of Management", McGraw Hill, 6th Edition, 2017.
- 5. Catherine G. Page, "Management in physical Therapy Practices", F. A. Davis, 2nd Edition, 2015

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HEALTH PROMOTION AND FITNESS

SUBJECT CODE: U21BPTP645

TOTAL HOURS: 30

COURSE DESCRIPTION:

This course includes discussion on the theories of health and wellness, including motivational theory, locus of control, public health initiative, and psycho-Social, spiritual and cultural consideration. Health risks, screening, and assessment considering epidemiological principles are emphasized. Risk reduction strategies for primary and secondary prevention, including programs for special populations are covered.

COURSE OBJECTIVES:

- **a.** Students will able to know the principles and components of primary health care and the national health policies to achieve the goal of 'Health for All'.
- b. Learning Physiological changes occurring in various conditions in Women's Health relevant to Physiotherapy, and plan physiotherapy management for fitness
- c. Advice with clinical reasoning at urban, rural and community level for achieve physical fitness.
- d. Exploring physical fitness with students using this lesson plan can create personal fitness plan.
- e. Students willable to explain the benefits of physical activity and nutrition for health, wellness, quantity & quality of life.

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Units	Topics	Didactic Hours	Clinical Hours	Total Hours
Ι	 PREVENTION PRACTICE: A holistic perspective for physiotherapy i. Define Health ii. Predictions of Health Care iii. Comparing Holistic Medicine and Conventional Medicine iv. Distinguishing Three Types of Prevention Practice. HEALTHY PEOPLE: i. Definition of healthy people ii. Health education Resources iii. Physiotherapist role for a healthy community. 	4	4	8
Π	 KEY CONCEPTS OF FITNESS : Defining & Measuring Fitness Assessment of Stress with a Survey Visualizing Fitness Visualizing For Mental and Physical Fitness Screening for Mental and Physical Fitness Body Mass Index calculations. Exercise testing. Agility test. FITNESS TRAINING : Physical Activities Readiness Physical Activities Pyramid Exercise Programs Evidence-Based Practice. 	4	4	8
III	 1. CHILD AND WOMENS HEALTH: Health, fitness, and wellness issues during childhood and adolescence, Health, fitness, and wellness during adulthood. Women's health issues: focus on pregnancy 	3	3	6

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	PREVENTION:			
IV	 i. Resources to optimize health and wellness, Health protection, Prevention practice for older adults. ii. Prevention practice for musculoskeletal conditions, cardiopulmonary conditions 	2	2	4
v	 PREVENTION: i. Prevention practice for neuromuscular conditions, integumentary disorders. ii. Prevention practice for individuals with developmental disabilities, Marketing health and wellness 	2	2	4

RECOMMENDED TEXT BOOK:

- 1. Roberta L. Duyff, "Academy of nutrition and dietetics complete food and nutrition guide", 5th edition, Harvest Publisher, 2017.
- 2. Nicholas Bjorn "Fitness Nutrition", 5th edition, Lulu Publisher, 2019.
- 3. Randall R. Cottrell, "Principles of Health Education and Promotion", Jones & Bartlett Publishers, 8th Edition, 2021
- 4. James F. Mckenzie, Brad L. Neiger, "Health Promotion Programs", Jones & Bartlett Publishers, 8th Edition, 2022

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CLINICAL TRAINING

Course code: U21BPTP646

Total: 125 hours

Course Description

The Student will learn the subjective and objective data taking procedure.

Course Objective

End of the course the students will able to

- 1. Understand the history taking procedure
- 2. Various procedures in patient's assessments
- 3. Learn the various treatment procedures

Sl. No	TOPIC	HOURS
1.	Demographic data Collection	
2.	Socioeconomic history collection	
3.	Social behavior and its influence on health	
4.	Schedule the patients treatment according to their condition	

SCHEME OF EXAMINATION

IA	FINAL EXAM	TOTAL
50	50	100

END SEMESTER EXAMINATION

Sl. No	Components	Marks
1	2 case presentation	$25 \times 2 = 50$

Note: Each candidate has to document minimum 10 cases in the log book.



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COLLEGE OF PHYSIOTHERAPY

B.P.T. PROGRAMME

CASE ASSESSMENT

Name:

Date of Assessment:

Gender:

Age:

Occupation:

Address:

Phone	No:
1 mone	110.

Hand dominance:

Presenting complaints:

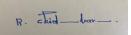
History of presenting complaints:

Medical history:

Surgical history:

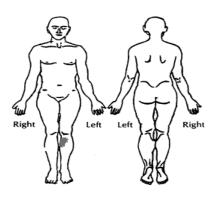
Social history:

Personal history:



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Pain assessment:



Site:

Side:

Duration:

Type:

Severity on VAS: _____

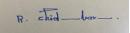
No pain

Max pain

Aggravating factors:

Relieving factors:

On observation:



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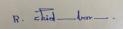
On palpation

On examination

Range of motion:

Active ROM:

Passive ROM:



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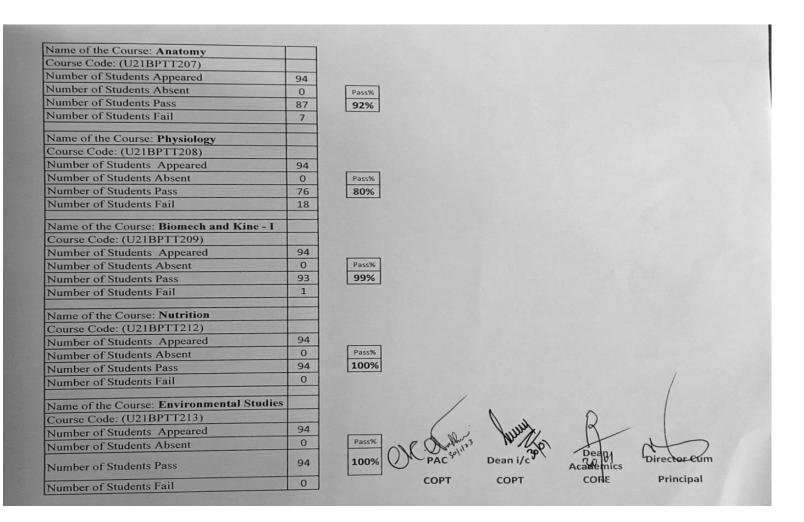




Annexure - II

COLLEGE OF PHYSIOTHERAPY

Nov.'22 End Semester Examination Results of B.P.T.- II Semester Students A.Y. 2021 - 22.



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