

GOVERNMENT OF INDIA MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP DIRECTORATE GENERAL OF TRAINING

COMPETENCY BASED CURRICULUM

PHYSIOTHERAPY TECHNICIAN

(Duration: One Year)

CRAFTSMEN TRAINING SCHEME (CTS)

NSQF LEVEL- 3.5



SECTOR -HEALTHCARE



PHYSIOTHERAPY TECHNICIAN

(Non-Engineering Trade)

(Revised in March 2023)

Version: 2.0

CRAFTSMEN TRAINING SCHEME (CTS)

NSQF LEVEL – 3.5

Developed By

Ministry of Skill Development and Entrepreneurship

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1. COURSE INFORMATION

During the one-year duration of "Physiotherapy Technician" trade, a candidate is trained on Professional Skill, Professional Knowledge and Employability Skill related to job role. In addition to this, a candidate is entrusted to undertake project work, extracurricular activities and on-the-job training to build up confidence. The broad components covered under Professional Skill subject are as below: -

The trainee learns to operate suitable tools and equipment and evaluate the basic outline of Physiotherapy, develops a vocabulary of appropriate terminology; trainee will be able to analyze and assemble the components of skeleton system, study of joints by using X-Ray films and also be able to differentiate various muscles. Trainee will be able to recognize basic cell structure and its organelles and also able to identify the major neural tissues. Trainee will be able to relate the anatomical position of circulatory system on mannequin. Trainee will able to categorize foods according to nutrients and assemble organs of digestive system, illustrate respiratory system and also able to arrange organs on dummy of excretory and reproductive system. They will perform Physiotherapy treatment, design treatment plan for stiff parts of body and also illustrate the effects of IRR. They will plan and execute remedial effects of cryotherapy, abstract benefits of SWD, lay out therapeutic uses of UTS and also plan a regimen to stimulate muscle. Trainee will be able to assess and create a message therapy.

The trainee will be able to carry out Physiotherapy assessment and treatment, develop exercise regimen, establish a treatment plan and also able to examine the strength of muscles. Trainee will be able to design remedy for back pain and also able to perform gait training. They will prepare assessment chart and rehabilitation protocol.



2. TRAINING SYSTEM

2.1 GENERAL

The Directorate General of Training (DGT) under Ministry of Skill Development & Entrepreneurship offers a range of vocational training courses catering to the need of different sectors of economy/ Labor market. The vocational training programmers are delivered under the aegis of Directorate General of Training (DGT). Craftsman Training Scheme (CTS) with variants and Apprenticeship Training Scheme (ATS) are two pioneer schemes of DGT for strengthening vocational training.

'Physiotherapy Technician' trade under CTS is one of the popular courses delivered nationwide through the network of ITIs. The course is of one-year duration. It mainly consists of Domain area and Core area. The Domain area (Trade Theory & Practical) imparts professional skills and knowledge, while Core area (Employability Skills) imparts requisite core skill, knowledge and life skills. After passing out the training programme, the trainee is awarded National Trade Certificate (NTC) by DGT which is recognized worldwide.

Trainee broadly needs to demonstrate that they are able to:

- Read and interpret parameters/ documents, plan and organize work processes, identify necessary materials and tools.
- Perform task with due consideration to safety rules, accident prevention regulations and environmental protection stipulations.
- Apply professional skill, knowledge & employability skills while performing jobs.
- Check the job/ assembly as per drawing for functioning identify and rectify errors in job/ assembly.
- Document the parameters related to the task undertaken.

2.2 PROGRESSION PATHWAYS

- Can join industry as Physiotherapy Technician and will progress further as Senior Physiotherapy Technician, Supervisor and can rise up to the level of Physiotherapist.
- Can become Entrepreneur in the related field.
- Can join Apprenticeship programme in different types of industries leading to National Apprenticeship Certificate (NAC).
- Can join Crafts Instructor Training Scheme (CITS) in the trade for becoming an instructor in ITIs.
- Can join Advanced Diploma (Vocational) courses under DGT as applicable.



2.3 COURSE STRUCTURE

Table below depicts the distribution of training hours across various course elements during a period of one year:

S No.	Course Element	Notional Training Hours
1	Professional Skill (Trade Practical)	840
2	Professional Knowledge (Trade Theory)	240
3	Employability Skills	120
	Total	1200

Every year 150 hours of mandatory OJT (On the Job Training) at nearby industry, wherever not available then group project is mandatory.

On the Job Training (OJT)/ Group Project	150
Optional Courses (10th/ 12th class certificate along with ITI	240
certification or add on short term courses)	

Trainees of one-year or two-year trade can also opt for optional courses of up to 240 hours in each year for 10th/ 12th class certificate along with ITI certification or add on short term courses.

2.4 ASSESSMENT & CERTIFICATION

The trainee will be tested for his skill, knowledge and attitude during the period of course through formative assessment and at the end of the training programme through summative assessment as notified by the DGT from time to time.

a) The **Continuous Assessment** (Internal) during the period of training will be done by **Formative Assessment Method** by testing for assessment criteria listed against learning outcomes. The training institute have to maintain individual trainee portfolio as detailed in assessment guideline. The marks of internal assessment will be as per the formative assessment template provided on <u>www.bharatskills.gov.in</u>.

b) The final assessment will be in the form of summative assessment. The All India Trade Test for awarding NTC will be conducted by Controller of examinations, DGT as per the guidelines. The pattern and marking structure is being notified by DGT from time to time. **The learning outcome and assessment criteria will be basis for setting question papers for final**



assessment. The examiner during final examination will also check individual trainee's profile as detailed in assessment guideline before giving marks for practical examination.

2.4.1 PASS REGULATION

For the purposes of determining the overall result, weightage of 100% is applied for six months and one year duration courses and 50% weightage is applied to each examination for two years courses. The minimum pass percent for Trade Practical and Formative assessment is 60% & for all other subjects is 33%.

2.4.2 ASSESSMENT GUIDELINE

Appropriate arrangements should be made to ensure that there will be no artificial barriers to assessment. The nature of special needs should be taken into account while undertaking assessment. Due consideration should be given while assessing for teamwork, avoidance/reduction of scrap/wastage and disposal of scrap/wastage as per procedure, behavioral attitude, sensitivity to environment and regularity in training. The sensitivity towards OSHE and self-learning attitude are to be considered while assessing competency.

Assessment will be evidence based comprising some of the following:

- Job carried out in labs/workshop
- Record book/ daily diary
- Answer sheet of assessment
- Viva-voce
- Progress chart
- Attendance and punctuality
- Assignment
- Project work
- Computer based multiple choice question examination
- Practical Examination

Evidences and records of internal (Formative) assessments are to be preserved until forthcoming examination for audit and verification by examination body. The following marking pattern to be adopted for formative assessment:

Performance Level	Evidence
(a) Marks in the range of 60 -75% to be allotted during assessment	



For performance in this grade, the candidate should produce work which demonstrates attainment of an acceptable standard of craftsmanship with occasional guidance, and due regard for safety procedures and practices	 Demonstration of good skills and accuracy in the field of work/ assignments. A fairly good level of neatness and consistency to accomplish job activities. Occasional support in completing the task/ job.
(b)Marks in the range of 75% - 90% to be allot	ted during assessment
For this grade, a candidate should produce work which demonstrates attainment of a reasonable standard of craftsmanship, with little guidance, and regard for safety procedures and practices (c) Marks in the range of above 90% to be allow	 Good skill levels and accuracy in the field of work/ assignments. A good level of neatness and consistency to accomplish job activities. Little support in completing the task/job. tted during assessment
For performance in this grade, the candidate, with minimal or no support in organization, execution and with due regard for safety procedures and practices, has produced work which demonstrates attainment of a high standard of craftsmanship.	 High skill levels and accuracy in the field of work/ assignments. A high level of neatness and consistency to accomplish job activities. Minimal or no support in completing the task/ job.



3. JOB ROLE

Assistant Physiotherapist; in the Healthcare Industry is also known as Physical Therapist Assistant (PTA). Assistant Physiotherapist works alongside qualified physiotherapists, assisting in the rehabilitation of patients suffering from reduced mobility. Key tasks of an Assistant Physiotherapist include setting up equipment, preparing clients for therapy and demonstrating mobility aids and exercises. Other duties may include keeping the department tidy and basic administration work.

Reference NCO-2015: 3255.0101- Assistant Physiotherapist

Reference NOS:

- (i) HSS/N9428
- (ii) HSS/N9429
- (iii) HSS/N9430
- (iv) ELE/N9456



Ξ

Name of the Trade	Physiotherapy Technician
NCO - 2015	3255.0101
Mapped NOS	HSS/N9428, HSS/N9429, HSS/N9430, ELE/N9456
NSQF Level	Level-3.5
Duration of Craftsmen Training	One Year (1200 Hours +150 hours OJT/Group Project)
Entry Qualification	Passed 10 th class examination
Minimum Age	14 years as on first day of academic session.
Eligibility for PwD	Not considered as medical trade
Unit Strength (No. of Students)	24(There is no separate provision of supernumerary seats)
Space Norms	100 Sq. m
Power Norms	3.0 KW
Instructors Qualification fo	pr:
(i) Physiotherapy Technician	 B. Voc/Degree in physiotherapy from UGCrecognised university/ board with one year experience in the relevant field. OR Diploma (Minimum 2 years) in physiotherapy from recognised university/ board of education or relevant Advanced Diploma (Vocational) from DGTwith two years' experience in the relevant field. NTC/NAC passed in the Trade of "Physiotherapy Technician" With three years' experience in the relevant field. <u>Essential Qualification</u>: Relevant Regular / RPL variants of National Craft Instructor Certificate (NCIC) under DGT. Note: Out of two Instructors required for the unit of 2(1+1), one must have Degree (Diploma and other must have NTC (MAC



	qualifications. However, both of them must possess NCIC in any of
	its variants.
(ii) Employability Skill	MBA/ BBA / Any Graduate/ Diploma in any discipline with Two years'
	experience with short term ToT Course in Employability Skills.
	(Must have studied English/ Communication Skills and Basic
	Computer at 12th / Diploma level and above)
	OR
	Existing Social Studies Instructors in ITIs with short term ToT Course
	in Employability Skills.
(iii) Minimum Age for	21 Years
Instructor	
List of Tools and	
Equipment	As per Annexure – T



Learning outcomes are a reflection of total competencies of a trainee and assessment will be carried out as per the assessment criteria.

5.1 LEARNING OUTCOME

- Operate using suitable tools and equipment with basic outline of physiotherapy and develop a vocabulary of appropriate terminology following safety precautions. (NOS: ELE/N9456)
- 2. Analyze and assemble the components of skeleton system. (NOS: HSS/N9428)
- 3. Analyze the joints by using X-Ray films. (NOS: HSS/N9428)
- 4. Differentiate various muscles. (NOS: HSS/N9428)
- 5. Recognize basic cell structure and its organelles. (NOS: HSS/N9428)
- 6. Identify the major neural tissues. (NOS: HSS/N9428)
- 7. Relate the anatomical position of circulatory system on mannequin. (NOS: HSS/N9428)
- 8. Categorize foods according to nutrients and assemble organs of digestive system. (NOS: HSS/N9428)
- 9. Illustrate respiratory system. (NOS: HSS/N9428)
- 10. Arrange organs on dummy of excretory and reproductive system. (NOS: HSS/N9428)
- 11. Design a treatment plan for stiff parts of body. (NOS: HSS/N9429)
- 12. Illustrate the effects of IRR. (NOS: HSS/N9429)
- 13. Execute remedial effects of cryotherapy. (NOS: HSS/N9429)
- 14. Enumerate the benefits of SWD. (NOS: HSS/N9429)
- 15. Test and lay out therapeutic uses of UST. (NOS: HSS/N9429)
- 16. Plan a regimen to stimulate muscles. (NOS: HSS/N9430)
- 17. Asses and create a massage therapy. (NOS: HSS/N9430)
- 18. Carry out physiotherapy assessment and develop exercise regimen. (NOS: HSS/N9430)
- 19. Develop remedial measures for back pain and abnormal gaits. (NOS: HSS/N9430)
- 20. Prepare assessment chart and rehabilitation protocol. (NOS: HSS/N9430)



6. ASSESSMENT CRITERIA

	LEARNING OUTCOMES	ASSESSMENT CRITERIA
1.	Operate using suitable tools	Identify tools, modalities and equipment to be used in
	and equipment with basic	physiotherapy.
	outline of physiotherapy	Perform anatomical and fundamental positions.
	and develop a vocabulary of	Explain the divisions and sub-divisions of human body.
	appropriate terminology	Clarify terms used in relation to trunk, neck, face, upper and
	following safety	lower limb.
	precautions.	
	(NOS: ELE/N9456)	
2.	Analyze and assemble the	Identify the bones of the body.
	components of skeleton	Assemble bones of upper limb.
	system.	Assemble bones of lower limb.
	(NOS:HSS/N9428)	Differentiate bones of left and right side.
		Recognize all parts of bones.
2		I de stift des la second totals en Mine (films
3.	Analyze the joints by using	Identify the bones and joints on X-Ray films.
	X-Ray Tilms.	Arrange bones to form joints of upper and lower limb.
	(NUS:HSS/N9428)	Recognize the views of X-Ray films.
		Distinguish normal and abnormal X-Rays.
		Identify the bones and joints on X-Ray films.
-		Arrange bones to form joints of upper and lower limb.
4.	Differentiate various	Recall the names of major muscles of lower limb, upper limb,
	muscles.	trunk, abdomen, neck and face.
	(NOS: HSS/N9428)	Categorize types of muscles according to their structure.
		Perform movements of all joints and relate them with muscle's
		actions.
_		
5.	Recognize basic cell	Identify human cell and its organelles.
	structure and its organelles.	Able to give presentation on different types of tissues.
	(NOS:HSS/N9428)	List the name of skin layers.



6. Identify the major neural tissues.	Memorize all parts of brain and spinal cord.
(NOS:HSS/N9428)	
	Perform superficial and deep reflexes.
	Write reports for cranial and spinal nerves.
	Demonstrate the body parts supplied by peripheral nerves.
	Perform assessment of pain by using pin prick etc.
7. Relate the anatomical	List the names of chambers of heart.
position of circulatory	Demonstrate the physiology of heart with its valves by using
system on mannequin.	charts.
(NOS:HSS/N9428)	Check radial and femoral pulse.
	Measure blood pressure by using sphygmomanometer.
8. Categorize foods according	Differentiate food and nutrition.
to nutrients and assemble	Find the images of patients suffering from deficiency of
organs of digestive system.	nutrients.
(NOS:HSS/N9428)	Exemplify food items according to nutrients.
	Recognize and arrange organs of digestive system on dummy.
9. Illustrate respiratory	List the name of organs of respiratory system.
system.	Memorize ribs movements.
(NOS:HSS/N9428)	Assesses respiratory rate, inspiration and expiration of chest.
10. Arrange organs on dummy	Read about the organs of excretory system and human
for excretory system and	reproductive system.
reproductive system.	Assemble organs on dummy.
(NOS:HSS/N9428)	
11. Design a treatment plan for	Set up hot packs in a hydro collator tank.
stiff parts of body.	Prepare and apply hot packs with proper precautions.
(NOS:HSS/N9429)	Check patient's skin sensitivity before applying hot packs and
	wax bath.
	Illustrate the procedure of hot packs and wax bath.
	Make a proper covering over wax with cloth or newspaper.
	Demonstrate the procedure of removal of wax bath/hot pack
	and place them back into wax bath tub/ hydrocollatortank



	respectively.
12. Illustrate the effects of IRR.	Knows the concept of IRR.
(NOS:HSS/N9429)	Consider indications of IRR before treatment.
	Demonstrate the positioning of patient during treatment.
	Plan a proper distance of IRR placement from skin of patient
	with precautions.
13. Execute remedial effects of	Assess skin or tissue injury before applying ice.
cryotherapy.	Select the relevant method of icing according to the injury and
(NOS:HSS/N9429)	contour of human body.
	Record the timing of the icing.
14. Enumerate the benefits of	Check all the parts of SWD.
SWD.	Check the position of cable and electrodes.
(NOS:HSS/N9429)	Prepare positioning of patient.
	Perform testing of modality.
	Perform different methods of application of electrodes.
	Demonstrate how to wind up the machine after the procedure.
15. Test and lay out therapeutic	Select the frequency for superficial and deep tissues.
uses of UST.	Demonstrate the procedure of ultrasonic modality in different
(NOS:HSS/N9429)	frequencies with precautions.
	Present how to apply ultrasonic gel and phonophoresis.
	Perform different methods of testing of modality.
16. Plan and regimen to	Illustrate the test of muscle stimulator, TENS and IFT.
stimulate muscles.	Demonstrate the working of muscle stimulator for different
(NOS:HSS/N9430)	muscle conditions.
	Check all the leads of modality before applying.
	Prepare positioning of patient.
	Present position of electrodes of TENS, IFT in pain conditions.
	Check patient's skin sensitivity before applying modalities.
	Perform a practice on different areas of body.
	Perform different methods of application of IFT.
17. Assesses and create a	Assemble the materials to be used in massage (e.g. sheets, oil,



message therapy.	powder etc.)
(NOS:HSS/N9430)	Plan a proper positioning of patient and therapist during
	massage of trunk, face, upper and lower limb.
	Demonstrate different techniques of message with precautions.
18. Carry out Physiotherapy	Demonstrate exercises to increase ROM manually or by using
assessment and develop	CPM.
exercise regimen.	Schedule measurement of range of motion by using
(NOS: HSS/N9430)	goniometer, inclinometer and inch tape.
	Perform active and active assisted movements.
	Plan exercises according to patient strength.
	Perform strengthening exercises for quadriceps and hamstrings
	muscles on Quadriceps chair.
	Exhibit equilibrium and non-equilibrium tests for coordination.
	Demonstrate exercises with shoulder wheel, pulleys, Swiss ball,
	hand dynamometer etc.
	Test and measure inspiration and expiration of chest with inch
	tape and practice postural drainage and breathing exercise.
	Perform practice to make muscle flexible.
	Plan and execute PNF techniques and MMT.
19. Develop remedial	Prepare a chart of relaxation techniques with its therapeutic
measures for back pain and	indications.
abnormal gaits.	Recognize traction table.
(NOS:HSS/N9430)	Demonstrate testing of traction for cervical and lumbar region.
	Perform various methods of traction e.g manual traction,
	static, intermittent, mechanical, positioning traction etc.
	Presentation of calculation of body weight to be used for
	traction.
	Demonstrate normal and abnormal gait patterns.
	Perform gait patterns with walking aids for weight and non-
	weight bearing.
	Demonstrate assistance provided by therapist to patient during
	mobility.
20. Prepare assessment chart	Demonstrate personal history of a patient.
and rehabilitation protocol.	Apply clinical reasoning through the process of assessment,



(NOS:HSS/N9430)	problem identification and treatment planning.
	Use the observations, examinations and medical history to
	evaluate the patient's condition and needs.
	Prepare an assessment chart for orthopaedic, neurological and
	cardio pulmonary conditions.
	Make a differential diagnosis with relevant tests.
	Make a provisional diagnosis.
	Plan and prepare intervention program for various conditions.
	Understand the rule of nine of burn.
	Memorize the classification of obesity with BMI calculation.
	Plan exercises for gynaecological conditions and bring them
	into practice.
	Evaluate a patient's home or workplace activities and identify
	how it can be better suited to the patient's health needs.



7. TRADE SYLLABUS

SYLLABUSFOR PHYSIOTHERAPY TECHNICIAN TRADE						
DURATION: ONE YEAR						
Duration	Reference		Professional Skills		Professional Knowledge	
Duration	Learning Outcome		(Trade Practical)		(Trade Theory)	
Professional	Operate using	1.	Identify electrotherapy	In	troduction	
Skill 20Hrs;	suitable tools and		modalities	a)	Definition of Physiotherapy,	
	equipment with	2.	Cataloguing of exercise		terms of Physiotherapy:	
Professional	basic outline of		tools and equipment.		Electrotherapy, Exercise-	
Knowledge	physiotherapy and	3.	Draw human body and		therapy, Massage-Therapy,	
06Hrs	develop a		label its parts.		Ergonomics, Rehabilitation.	
	vocabulary of	4.	Demonstrate planes,	b)	Definition of Electrotherapy,	
	appropriate		axis, anatomical and		safety precautions in	
	terminologyfollowi		fundamental positions.		Electrotherapy.	
	ng safety	5.	Sketch planes,	c)	Name of modalities which	
	precautions.		anatomical and		are used in physiotherapy.	
			fundamental positions.	In	troduction to	
				Ar	natomy/Physiology	
				a)	Definition and	
					subdivisions of anatomy.	
				b)	Anatomical and	
					fundamental position.	
				c)	Anatomical regions,	
					section and planes. The	
					descriptive anatomical	
					terms.	
Professional	Analyze and	6.	Demonstrate skeleton	<u>0</u> 9	steology	
Skill 45Hrs;	assemble the		system.	a)	Skeleton system.	
	components of	7.	List the names, side	b)	Structure, functions and	
Professional	skeleton system.		determination and		classification of bone and	
Knowledge			parts of all bones of		cartilage.	
1Hrs			upper limb and lower	c)	Name of human bones.	
			limb.	d)	Side determination and	
		8.	Identify side		parts of bones of upper	
			determination and		limb, lower limb, skull,	



		parts of bones of skull, vertebral column and
		vertebral column and thorax.
		thorax.
Professional	Analyze the joints	9. Prepare presentation of Orth ology
Skill 20Hrs:	by using X-Ray	ioints formation by using a) Definition and classification
	films	bones of ioints
Professional		10 Identify the major joints (b) The terms related to the
Knowledge		of human body
06Hrs		11 Perform V Pay practical (c) Description of joints of
00113		by using X Bay films
		Becognize honos
		Recognize bolles. With their ligaments.
		 Identity of joints. Demonstration of company
		> Demonstration of some
		normal and abnormal X-
		ray plates.
Professional	Differentiate	12. Show muscles structure <u>Myology</u>
Skill 45Hrs;	various muscles.	with proper labelling. a) Macroscopic and
		13. Demonstrate major microscopic structure of
Professional		muscles of upper limb. muscle.
Knowledge		14. Demonstrate majorb) Classification of muscles.
12Hrs		muscles of lower limb. c) Parts of muscle.
		15. Identify major muscles of d) Neuromuscular junction.
		abdomen trunk, thorax, e) Sliding contraction theory.
		neck and face with f) Description of all major
		diagram. muscles with their origin,
		insertion, nerve supply and
		action.
Professional	Recognize basic	16. Sketch labelled picture a) Cell - definition, structure
Skill 20Hrs;	cell structure and	of cell. and function, cellular
	its organelles.	17. Prepare Microscopic organelles.
Professional		diagram of different b) Tissue- Structure and
Knowledge		tissues e.g. Connective function.
06Hrs		tissues, muscular tissues, Skin and temperature
		nervous tissues etc. <u>regulation</u>
		18. Prepare postures of skin. a) Structure of skin.
		19. Identify cell structure. b) Function of skin.
		c) Temperature regulation
		system.



Professional	Identify the major	20. Idea of reflexes and their	<u>Neurology</u>
Skill 45Hrs;	neural tissues.	examination.	a) Parts of nervous system.
		21. Demonstrate and A.V.	b) Structure and function of
Professional		display.	Nervous, types of
Knowledge		22. Prepare Display charts of	neurological cells.
12Hrs		Nervous system	c) Structure and function of
		23. Represent neuron, brain,	Brain and spinal cord.
		spinal cord, reflex arc,	d) Reflex Arc, blood-brain
		and plexus.	barrier.
		24. Perform Pain assessment	e) Structure of a nerve,
			Cranial nerves (names and
			functions) and spinal
			nerves (Introduction).
			f) Nerve plexus of the body
			with their distributions
			(cervical plexus, brachial
			plexus, lumbosacral
			plexus).
			g) About the nerve fibers.
			motor and sensory.
			h) Blood circulation of brain
			and spinal cord
Professional	Relate the	25 Prepare of charts of	Circulatory system
Skill 20Hrs	anatomical	beart structure and	a) Structure and function of
5Kiii 201113,	nosition of	circulation	heart
Professional	circulatory system	26 Identify boart location	h) Nodes of boart boart rates
Knowlodgo	on mannoquin	and position by using	and heart sound
OGHrc	on mannequin.	mannaquin	c) Physiology of boart
001113		27 Identify AV display of	circulation
		blood circulation	d) Plood prossure and the
		28 Droporo for Dulco and	influencing factors
		28. Prepare for Puise and	initiation and function
		blood pressure	e) Composition and function
		examination.	
			T) Circulatory system of body.
Professional	Categorize foods	29. Prepare balance diet	Food and nutrition
Skill 20Hrs;	according to	chart for different age	a) Definition of food and
	nutrients and	graphs.	nutrition.
Professional	assemble organs	30. Display the organs of	b) Carbohydrate, protein, fat,



Knowledge	of digestive		digestive system on		minerals, vitamins, water
06Hrs	system.		mannequin.		with example and brief
		31.	Demonstrate A.V.		description.
			display.	c)	Balanced diet.
		32.	Recognise Figuration of	Dig	estive system
			main and accessory	a)	Structure and functions of
			organs of digestive		digestive organs.
			system.	b)	Absorption and metabolism
					(in brief)
Professional	Illustrate	33.	Demonstrate the organs	Res	spiratory system
Skill 20Hrs;	respiratory		of respiratory system on	a)	Structure and function.
	system.		mannequin.	b)	Process of respiration.
Professional		34.	Prepare Display	c)	Cardio-respiratory relation.
Knowledge			respiratory mechanism	d)	Artificial respiration.
06Hrs			by using videos.	e)	Neurological control.
		35.	Measure chest	f)	Volumes and capacities
			inspiration and		values of respiration.
			expiration with inch tape.	Enc	docrinology
		36.	Check Respiratory rate	a)	Definition, character and
			examination.		function of Hormones.
		37.	Check Portrait charts of	b)	About the hormone
			organs of respiratory		secreting glands (in brief).
			system.		
Professional	Arrange organs on	38.	Identify parts of	Exc	retory system
Skill 20Hrs;	dummy of		excretory and	a)	Structure and function of
	excretory and		reproductive		kidney.
Professional	reproductive		system on	b)	Organs of excretory system.
Knowledge	system.		mannequin.	c)	Structure of nephron.
06Hrs		39.	Perform the	d)	Formation of Urine
			Presentation and	e)	Micturition
			A.V. videos of	<u>Gy</u>	naecology and obstetrics
			excretory system.	a)	Pelvic floor muscles(names)
		40.	Identify Micturition	b)	Introduction of human
			reflex by showing		reproductive system (in
			charts.		brief).
				c)	Physiology of pregnancy.
Professional	Design a	41.	Prepare hot packs.	The	ermotherapy
Skill 20Hrs;	treatment plan for	42.	Preparation of patient.	<u>Sup</u>	perficial heating agents



	stiff parts of body.	43.	Apply hot packs at	a)	Hot packs: Physiological
Professional			different regions of body.		effects, indications and
Knowledge		44.	Plan precautions while		contraindications. Types of
06Hrs			giving treatment to		hot packs (hydro collators,
			patient.		hot water bag, electrical
		45.	Assessment of the		heating pads) with their
			affected part before		techniques of application
			applying wax bath.	b)	<u>Wax bath:</u>
		46.	Perform Techniques of		Description of a wax bath
			wax bath for instance		unit, composition and
			with brush, bowl etc.		method of preparation of
		47.	Apply wax bath with		wax bath, physiological
			precautions and proper		effects, techniques of
			layering and thickness,		application, indications and
			removal of wax.		contra indications.
Professional	Illustrate the	48.	Apply IRR with	a)	Infra-Red Radiation:
Skill 20Hrs;	effects of IRR.		precautions.		About the infra-red rays,
		49.	Demonstrate different		sources of infra-red rays,
Professional			positions of patient		technical data,
Knowledge			during treatment.		physiological effects,
06Hrs		50.	Placement of IRR at		techniques of application,
			proper distance from		termination of IRR,
			skin.		Indications and contra
					indications.
Professional	Execute remedial	51.	Practice on preparation	Cry	otherapy_
Skill 20Hrs;	effects of		and application of ice	a)	Physiological effects.
	cryotherapy.		pack, cold pack, ice	b)	Methods of application (Ice
Professional			towels, ice bath, ice		pack, cold pack, ice towels,
Knowledge			cube massage according		ice bath, ice cube massage,
06Hrs			to the contour of the		vapor coolant sprays)
			body.	c)	Cry kinetics.
		52.	Practice of preparation	d)	Indications and
			of patient.		contraindications.
		53.	Plan precautions while		
			giving treatment.		
Professional	Enumerate the	54.	Explain all parts of SWD.	Dee	ep heating agents
Skill 20Hrs;	benefits of SWD.	55.	Testing of SWD.	A) <u>s</u>	S.W.D.: meanings of Short-
		56.	Positioning of patient	way	ve & Diathermy, Effects of



Professional		and placement of	S.W.D. Technical data,
Knowledge		electrodes.	Descriptions of a S.W.D
06Hrs		57. Draw Flow chart of SWD	Instrument, Method of
		circuit.	application, Positioning of
		58. SWD cable methods.	Electrode Pads During,
		59. Precautions.	Treatment, Dose & Duration of
			treatment, Indications &
			Contraindications.
Professional	Test and lay out	60. Methods of testing.	B) M.W.D- Introduction.
Skill 20Hrs;	therapeutic uses	61. Methods of application.	C)U.S.T- About the Ultra sound,
	of UST.	62. Handling and operating	Effects of U.S.T in Human body,
Professional		of UST modality with	Technical data, Descriptions of
Knowledge		precautions.	an U.S.T.
06Hrs		63. Precaution of patient.	Instrument, Description about
			different types of Coupling
			medium, Method of application
			of U.S.T, Dose & Duration of
			treatment, Indications &
			Contraindications.
Professional	Plan a regimen to	64. Practice on muscle	Stimulators-
Professional Skill 65Hrs;	Plan a regimen to stimulate muscles.	64. Practice on muscle stimulator for major	Stimulators- a) Faradic - About the Faradic
Professional Skill 65Hrs;	Plan a regimen to stimulate muscles.	64. Practice on muscle stimulator for major muscles of upper limb	Stimulators- a) Faradic - About the Faradic type of current, Technical
Professional Skill 65Hrs; Professional	Plan a regimen to stimulate muscles.	64. Practice on muscle stimulator for major muscles of upper limb and lower limb.	Stimulators- a) Faradic - About the Faradic type of current, Technical data's, Description of a
Professional Skill 65Hrs; Professional Knowledge	Plan a regimen to stimulate muscles.	 64. Practice on muscle stimulator for major muscles of upper limb and lower limb. 65. Preparation of patient 	Stimulators- a) Faradic - About the Faradic type of current, Technical data's, Description of a Faradic Stimulator&
Professional Skill 65Hrs; Professional Knowledge 18Hrs	Plan a regimen to stimulate muscles.	 64. Practice on muscle stimulator for major muscles of upper limb and lower limb. 65. Preparation of patient 66. Demonstration of 	Stimulators- a) Faradic - About the Faradic type of current, Technical data's, Description of a Faradic Stimulator& Electrodes, Physiological
Professional Skill 65Hrs; Professional Knowledge 18Hrs	Plan a regimen to stimulate muscles.	 64. Practice on muscle stimulator for major muscles of upper limb and lower limb. 65. Preparation of patient 66. Demonstration of muscles stimulator on 	Stimulators- a) Faradic - About the Faradic type of current, Technical data's, Description of a Faradic Stimulator& Electrodes, Physiological effects,
Professional Skill 65Hrs; Professional Knowledge 18Hrs	Plan a regimen to stimulate muscles.	 64. Practice on muscle stimulator for major muscles of upper limb and lower limb. 65. Preparation of patient 66. Demonstration of muscles stimulator on face. 	Stimulators- a) Faradic - About the Faradic type of current, Technical data's, Description of a Faradic Stimulator& Electrodes, Physiological effects, Method of application,
Professional Skill 65Hrs; Professional Knowledge 18Hrs	Plan a regimen to stimulate muscles.	 64. Practice on muscle stimulator for major muscles of upper limb and lower limb. 65. Preparation of patient 66. Demonstration of muscles stimulator on face. 67. Plan precautions 	Stimulators- a) Faradic - About the Faradic type of current, Technical data's, Description of a Faradic Stimulator& Electrodes, Physiological effects, Method of application, Application of continuous &
Professional Skill 65Hrs; Professional Knowledge 18Hrs	Plan a regimen to stimulate muscles.	 64. Practice on muscle stimulator for major muscles of upper limb and lower limb. 65. Preparation of patient 66. Demonstration of muscles stimulator on face. 67. Plan precautions during treatment. 	Stimulators- a) Faradic - About the Faradic type of current, Technical data's, Description of a Faradic Stimulator& Electrodes, Physiological effects, Method of application, Application of continuous & Surged
Professional Skill 65Hrs; Professional Knowledge 18Hrs	Plan a regimen to stimulate muscles.	 64. Practice on muscle stimulator for major muscles of upper limb and lower limb. 65. Preparation of patient 66. Demonstration of muscles stimulator on face. 67. Plan precautions during treatment. 68. Practice on placement 	Stimulators-a)Faradic - About the Faradictype of current, Technicaldata's, Description of aFaradic Stimulator&Electrodes, Physiologicaleffects,Method of application,Application of continuous &SurgedFaradic, Dose & Duration of
Professional Skill 65Hrs; Professional Knowledge 18Hrs	Plan a regimen to stimulate muscles.	 64. Practice on muscle stimulator for major muscles of upper limb and lower limb. 65. Preparation of patient 66. Demonstration of muscles stimulator on face. 67. Plan precautions during treatment. 68. Practice on placement of electrodes with 	Stimulators-a)Faradic - About the Faradictype of current, Technicaldata's, Description of aFaradic Stimulator&Electrodes, Physiologicaleffects,Method of application,Application of continuous &SurgedFaradic, Dose & Duration oftreatment, Indications &
Professional Skill 65Hrs; Professional Knowledge 18Hrs	Plan a regimen to stimulate muscles.	 64. Practice on muscle stimulator for major muscles of upper limb and lower limb. 65. Preparation of patient 66. Demonstration of muscles stimulator on face. 67. Plan precautions during treatment. 68. Practice on placement of electrodes with using proper gel. 	Stimulators-a)Faradic - About the Faradictype of current, Technicaldata's, Description of aFaradic Stimulator&Electrodes, Physiologicaleffects,Method of application,Application of continuous &SurgedFaradic, Dose & Duration oftreatment, Indications &Contraindications.
Professional Skill 65Hrs; Professional Knowledge 18Hrs	Plan a regimen to stimulate muscles.	 64. Practice on muscle stimulator for major muscles of upper limb and lower limb. 65. Preparation of patient 66. Demonstration of muscles stimulator on face. 67. Plan precautions during treatment. 68. Practice on placement of electrodes with using proper gel. 69. Create difference 	 Stimulators- a) Faradic - About the Faradic type of current, Technical data's, Description of a Faradic Stimulator& Electrodes, Physiological effects, Method of application, Application of continuous & Surged Faradic, Dose & Duration of treatment, Indications & Contraindications. b) Galvanic- About the
Professional Skill 65Hrs; Professional Knowledge 18Hrs	Plan a regimen to stimulate muscles.	 64. Practice on muscle stimulator for major muscles of upper limb and lower limb. 65. Preparation of patient 66. Demonstration of muscles stimulator on face. 67. Plan precautions during treatment. 68. Practice on placement of electrodes with using proper gel. 69. Create difference between TENS and IFT 	 Stimulators- a) Faradic - About the Faradic type of current, Technical data's, Description of a Faradic Stimulator& Electrodes, Physiological effects, Method of application, Application of continuous & Surged Faradic, Dose & Duration of treatment, Indications & Contraindications. b) Galvanic- About the Galvanic
Professional Skill 65Hrs; Professional Knowledge 18Hrs	Plan a regimen to stimulate muscles.	 64. Practice on muscle stimulator for major muscles of upper limb and lower limb. 65. Preparation of patient 66. Demonstration of muscles stimulator on face. 67. Plan precautions during treatment. 68. Practice on placement of electrodes with using proper gel. 69. Create difference between TENS and IFT for pain producing 	 Stimulators- a) Faradic - About the Faradic type of current, Technical data's, Description of a Faradic Stimulator& Electrodes, Physiological effects, Method of application, Application of continuous & Surged Faradic, Dose & Duration of treatment, Indications & Contraindications. b) Galvanic- About the Galvanic type of current, Technical
Professional Skill 65Hrs; Professional Knowledge 18Hrs	Plan a regimen to stimulate muscles.	 64. Practice on muscle stimulator for major muscles of upper limb and lower limb. 65. Preparation of patient 66. Demonstration of muscles stimulator on face. 67. Plan precautions during treatment. 68. Practice on placement of electrodes with using proper gel. 69. Create difference between TENS and IFT for pain producing conditions. 	 Stimulators- a) Faradic - About the Faradic type of current, Technical data's, Description of a Faradic Stimulator& Electrodes, Physiological effects, Method of application, Application of continuous & Surged Faradic, Dose & Duration of treatment, Indications & Contraindications. b) Galvanic- About the Galvanic type of current, Technical data,
Professional Skill 65Hrs; Professional Knowledge 18Hrs	Plan a regimen to stimulate muscles.	 64. Practice on muscle stimulator for major muscles of upper limb and lower limb. 65. Preparation of patient 66. Demonstration of muscles stimulator on face. 67. Plan precautions during treatment. 68. Practice on placement of electrodes with using proper gel. 69. Create difference between TENS and IFT for pain producing conditions. 70. Demonstrate on 	 Stimulators- a) Faradic - About the Faradic type of current, Technical data's, Description of a Faradic Stimulator& Electrodes, Physiological effects, Method of application, Application of continuous & Surged Faradic, Dose & Duration of treatment, Indications & Contraindications. b) Galvanic- About the Galvanic type of current, Technical data, Descriptions of a Galvanic



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			IFT pads for radiating		effects,
			and local pain		Method of application,
			respectively.		application
		71.	Methods of treatment.		of continuous & Interrupted
		72.	Testing methods of all		Galvanic, Dose & duration of
			modalities.		treatment, Indications &
					Contraindications.
				c)	T.E.N.S- Meaning of
					'Transcutaneous',
					Description of a T.E.N.S.,
					Physiological effects (along
					with pain gate Theory),
					Method of application
					(Trigger point stimulation
					method, Acupuncture point
					stimulation method etc.),
					Placements of T.E.N.S
					electrodes, Application of
					continuous, surged & burst
					mode. Dose & Duration of
					treatment, Indications &
					contraindications.
				d)	I.F.T- Introduction,
				,	application,
					Indications &
					Contraindications.
Professional	Asses and create a	73.	Positioning of patient	MA	SSAGE THERAPY &
Skill 45Hrs;	massage therapy.		and therapist.	REI	HABILITATION
,		74.	Techniques used in	a	Definition of Massage
Professional			massage for upper and	b) Aim of Massage
Knowledge			lower limb.	c	Physiological effects of
12Hrs		75.	Illustrate a practical of		Massage
			massage on face.	d) Therapeutic uses of
		76.	Elaborate methods of		Massage.
		_	trunk massage.	e	Contraindications of
		77.	Precautions while		Massage
			giving massage.	f)	Materials used in Massage
		78.	Rules and direction of	'	(oil, powder, ice etc.)



			massage.	g)	Rules & direction of
		79.	Direction of using		Massage
			materials (oil, powder	h)	Types of Massage
			etc.) during massage.		
		80.	Therapeutic application		
			of massage.		
Professional	Carry out	81. 5	Show positioning of	<u>EXE</u>	RCISE THERAPY AND
Skill 155Hrs;	physiotherapy	F	patient and therapist.	YOG	<u>A</u>
	assessment and	82. F	Perform Practical of	1.	Fundamental of exercise:
Professional	develop exercise	c	different exercises.	a.	Definition of therapeutic
Knowledge	regimen.	83. F	Rules and directions of		exercise.
42Hrs		e	exercises.	b.	Benefits of exercise.
		84. C	Demonstrate exercise to	c.	Classification of exercise-
		i	increase ROM by using		active, passive, resistive,
		C	continuous passive		isometric, functional,
		r	movement equipment.		stretching, isokinetic,
		85. F	Presentation of passive		closed-chain, open-chain
		r	movements (manually).		etc.
		86. A	Assessment of range of	2.	Applied exercise therapy
		r	motion of major joints	a.	Passive movements.
		Ł	by using goniometer	b.	Goniometry.
		S	scales.	c.	Exercise with instrument.
		87. F	Perform measurement	d.	Active movements,
		C	of spine ROM by using		active-assisted
		i	inch tape.		movements.
		88. E	Exhibit active and	e.	Resistive exercise.
		a	active-assisted	f.	Co-ordination and
		r	movements.		balance.
		89. I	Illustrate strengthening	g.	Stretching exercise.
		e	exercises by using	h.	Techniques for chest
		V	weight-cuffs for upper		physiotherapy.
		ā	and lower limb joints.	i.	Manual muscle testing.
		90. F	Perform strengthening	j.	Techniques of PNF (brief).
		e	exercises by utilizing	k.	Indications and
		٦	Thera bands/Thera		contraindications of
		t	tubes.		passive movements.
		91. C	Demonstrate resisted	١.	Indications and
		e	exercises (manually).		contraindications of



92. Representation of	breathing exercise.
quadriceps and	m. Grades of MMT.
hamstring resisted	n. Precautions while
exercises on quadriceps	performing these
chair and multipurpose	exercises on patient.
chair.	
93. Practical use of different	
exercise equipment (e.g.	
Shoulder wheel,	
shoulder pulley, Swiss	
ball etc.)	
94. Assessment of	
coordination and	
balance.	
95. Describe equilibrium	
and non-equilibrium	
tests.	
96. Schedule exercise	
programs for stretching	
of major muscles	
(Manually).	
97. Elaborate methods of	
stretching (Static,	
mechanical etc.)	
98. Explain positioning of	
patient during postural	
drainage.	
99. Collaborate massage	
techniques with	
postural drainage.	
100.Prepare a chart of	
measurements of chest	
inspiration and	
expiration by using	
hands and inch tape at	
different chest levels.	
101.Perform resistive	
exercises for thorax	



		muscles.			
		102.Practical based on			
		breathing exercises.			
		103.Illustrate a practical on			
		PNF techniques for			
		upper and lower limbs.			
		(brief)			
		104.Presentation of PNF			
		techniques for trunk,			
		face and neck. (brief)			
		105.Explanation of D_1 and D_2			
		patterns of PNF (brief)			
		106.Determination of grades			
		of MMT for upper and			
		lower limb.			
		107.Practical based on			
		grading of MMT for			
		trunk and abdominals.			
		108.Identify MMT exercises			
		for face.			
Professional	Develop remedial	109.Proper demo of	Exe	rcise Pl	nysiology
Skill 130Hrs;	measures for back	relaxation techniques by	1.	<u>Therm</u>	noregulation and
	pain and abnormal	using pillows.		<u>exerci</u>	se organs:
Professional	gaits.	110.Execute testing of		a.	Conduction,
Knowledge		traction.			convection &
36Hrs		111. Demonstrate			evaporation.
		positioning of patient		b.	Homeostasis
		while giving traction.		с.	Physiological
		112.Teach how to calculate			thermoregulation
		patient's weight to be	2.	<u>Respir</u>	ation:
		used in treatment.		a.	Muscles for
		113.Develop different			inspiration and
		methods of application			expiration.
		of traction.		b.	Static and Dynamic
		114.Impart skills of manual			Lung volume.
		cervical and lumbar		с.	Gaseous exchange.
		traction.	3.	<u>Cardic</u>	<u>ovascular</u>
		115.Instruct normal gait		adapt	ations:



		patterns.	a. Sub maximal
		116.Presentation of gate	exercise.
		phases on floor.	b. At maximal
		117.Perform abnormal gaits.	exercise.
		118.Demonstrate a practical	4. <u>Fatigue:</u>
		on walking aids (e.g.	Types, symptoms,
		Crutches, walker).	recovery.
		119.Give a brief idea of parts	5. <u>Endurance:</u> Definition,
		of wheelchair.	endurance training.
		120.Give guidelines for	6. <u>Kinesiology &</u>
		walking aids' usage for	Biomechanics: Basic
		patients (e.g. Two step,	terminologies.
		three step etc.).	7. Relaxation exercises.
		121.Design gait pattern for	8. TRACTION: Introductions,
		weight bearing and non-	contraindications,
		weight bearing.	therapeutic uses and
		122.Performance of gait	effects.
		training.	9. Activities of daily living (in
			brief).
			10. <u>Gait</u> : Definition, phases,
			abnormal gait patterns (in
			brief).
			11. <u>Walking aids</u> : Types,
			indications, precautions.
Professional	Prepare	123.Display videos showing	Applied Anatomy:
Skill 70Hrs;	assessment chart	causes of clinical	Causes, Deformity, loss of
	and rehabilitation	conditions.	functions in following
Professional	protocol.	124.Perform observational	conditions:
Knowledge		assessment in various	a. Carpal tunnel
24Hrs		conditions.	syndrome.
		125.Perform clinical	b. Erb'sand kulmpke palsy
		examination.	c. De Quervain's disease.
		126.Demonstrate various	d. Rotator cuff syndrome.
		orthopedically tests.	e. Wrist drop.
		127.Demonstrate various	f. Trendelenburg's sign.
		neurological tests.	g. Tarsal tunnel
		128.Prepare a chart of	syndrome.
		orthopedic, neurology	h. Genu valgum/varum.



assessment. 129.Make a cardiopulmonary assessment chart. 130.Make a diagnosis after assessment. 131.Plan a rehabilitation program for patients. 132. Develop home exercise programs. 133.Demonstrate precautions to be considered during and after treatment. 134.Develop ergonomics. 135.Evaluate the prognosis. 136.Make postures showing diagrammatical calculation of burn. 137.Calculate obesity according to BMI. 138.Illustrate precautions related to treatment. 139.Clinical presentation in hemiplegia, hemiparesis to differentiate it. 140.Plan antenatal and postnatal exercises.	 i. Coxa valgus/ Varus. j. Foot drop. ORTHO-NEURO-GENERAL Orthopaedical condition: Etiology, C/F & physiotherapy management of the followings: (i) Kyphosis, Lordosis& Scoliosis (ii) Cervical & Lumbar Spondylosis (iii) Ankylosing Spondylosis (iv) Tennis Elbow (v) Golfer's Elbow (vi) Gout (vii) Osteoarthritis (ix) Frozen Shoulder (x) Frozen Shoulder (xi) Dislocation & subluxation (xii) Sprain (xiii) Tendonitis (xiv) Rickets (xv) Osteomalacia (xvi) Osteomyelitis (xvii) Calcaneal Spar (xvii) Flatfoot. Neurological Condition: Etiology, C/F, & Physiotherapeutic Management of the following: i. Cerebral palsy
	Etiology, C/F, &
	Physiotherapeutic
	Management of the following:
	i. Cerebral palsy
	ii. Hemiplegia
	iii. Paraplegia
	iv. Quadriplegia
	v. Myalgia



	vi.	Fibromysitis
	vii.	Polio Myelitis
	viii.	Parkinsonism
	ix.	Bell's palsy
	х.	C.V.A (brief)
	xi.	Upper & Lower Motor
		Neuron diseases
	xii.	Peripheral Nerve Injury
	xiii.	Spinal Cord Injury
	xiv.	Sciatica
	Gener	al Condition:
	Etiolo	gy, C/F, Investigations &
	Physic	otherapeutic
	Mana	gement
	of the	following:
	i.	Obesity
	ii.	Burns

Project work/ Case Study

Broad Areas:

- a) Perform practical of different exercises.
- b) Assessment of range of motion of major joints by using goniometer scales.
- c) Prepare a chart of measurements of chest inspiration and expiration by using hands and inch tape at different chest levels.
- d) Execute testing of traction.
- e) Prepare a chart of orthopaedic, neurology assessment.
- f) Calculate obesity according to BMI.

SYLLABUS FOR CORE SKILLS



1. Employability Skills (Common for all CTS trades) (120 hrs)

Learning outcomes, assessment criteria, syllabus and Tool List of Core Skills subjects which is common for a group of trades, provided separately inwww.bharatskills.gov.in/dgt.gov.in.



List of Tools &Equipment			
PHYSIOTHERAPY TECHNICIAN (For batch of 24 Candidates)			
S No.	Name of the Tools and Equipment	Specification	Quantity
1.	Diagram of – (i) Human Organs (ii) Exercises Charts		1 set
2.	Wax bath		1 no.
3.	I. R. Radiator		1 no.
4.	Short wave Diathermy unit		1 no.
5.	Electric Muscle Nerve Stimulator		1 no.
6.	Battery	6 V & 12V	2 nos.
7.	Battery Eliminator	6 V, 9 V, 12 V	2 nos.
8.	Traction table, Weight Machine		1 set
9.	Apparatus for various exercises- Shoulder Wheel, Shoulder pulley, Wall ladder, Swiss ball, Pronator-Supinator exercises		1 set assorted
10.	Durra mats		12nos.
11.	Table		1 no.
12.	Chair with Desk		24+1nos.
13.	Cupboard		2 nos.
14.	IFT (Interferential Therapy)		1 no.
15.	TENS (Trans Electronic Nerve Stimulator)		1 no.
16.	Ultrasonic m/c		1 no.
17.	Weight cuffs		1 set
18.	Hydro collator Pack		2set
19.	Quadriceps Chair		1 no.
Note:			1

1. Internet facility is desired to be provided in the class room.



The DGT sincerely acknowledges contributions of the Industries, State Directorates, Trade Experts, Domain Experts, trainers of ITIs, NSTIs, faculties from universities and all others who contributed in revising the curriculum. Special acknowledgement is extended by DGT to the following expert members who had contributed immensely in this curriculum.

List of Expert Members participated for finalizing the course curriculum of Physiotherapy
Technician held on 18.05.2017 at NIT Centre. New Delhi

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26.	Akash Kumar, Faculty	-Do-	Member
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32.	L. K. Mukherjee, DDT	CSTARI, Kolkata	Member
33.	P. K. Bairagi, T.O.	-Do-	Coordinator/
			Member
34.	K.V.S. Narayana, T.O.	-Do-	Coordinator/
			Member



ABBREVIATIONS

CTS	Craftsmen Training Scheme
ATS	Apprenticeship Training Scheme
CITS	Craft Instructor Training Scheme
DGT	Directorate General of Training
MSDE	Ministry of Skill Development and Entrepreneurship
NTC	National Trade Certificate
NAC	National Apprenticeship Certificate
NCIC	National Craft Instructor Certificate
LD	Locomotor Disability
СР	Cerebral Palsy
MD	Multiple Disabilities
LV	Low Vision
НН	Hard of Hearing
ID	Intellectual Disabilities
LC	Leprosy Cured
SLD	Specific Learning Disabilities
DW	Dwarfism
MI	Mental Illness
AA	Acid Attack
PwD	Person with disabilities



