



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

Bachelor of Physiotherapy

Program Code	Exam Code	Course Name	Subject Name	Sub/Course Code
16	1601	Ist B.P.Th.	Human Anatomy	160101
			Human Physiology	160102
			Biochemistry	160103
			Fundamentals of Kinesiology & Kinesiotherapy	160104
			Fundamentals of Electrotherapy	160105
	1602	IIInd B.P.Th.	Pathology & Microbiology	160201
			Pharmacology	160202
			Psychiatry & Psychology	160203
			Kinesiology	160204
			Kinesiotherapy	160205
			Electrotherapy	160206
	1603	IIIrd B.P.Th.	Surgery I	160301
			Surgery II	160302
			Medicine I	160303
			Medicine II	160304
			Community Health & Sociology	160305
			Functional Diagnosis and Physiotherapeutic Skills	160306
	1604	IVth B.P.Th.	Musculoskeletal Physiotherapy	160401
			Neuro Physiotherapy	460402
			Cardio-Vascular & Respiratory Physiotherapy	160403
Community Physiotherapy			160404	



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

INDEX

Sr. No.	Topics	Page No.
1.	Professional Definition	1
2.	Preamble	3
3.	Framework of the curriculum	9
4.	Subjects Schedule: year wise	13
5.	I B.P.Th.	17
6.	II B.P.Th.	53
7.	III B.P.Th.	89
8.	IV B.P.Th.	133

PHYSIOTHERAPY

DEFINITION:

‘**Physiotherapy**’ is a branch of modern medical science which includes examination, assessment, interpretation, physical diagnosis, planning and execution of treatment and advice to any person for the purpose of preventing, correcting, alleviating and limiting dysfunction, acute and chronic bodily malfunction including life saving measures via chest physiotherapy in the intensive care unit, curing physical disorders or disability, promoting physical fitness, facilitating healing and pain relief and treatment of physical and psychological disorders through modulating psychological and physical response using physical agents, activities and devices including exercise, mobilization, manipulations, therapeutic ultrasound, electrical and thermal agents and electrotherapy for diagnosis, treatment and prevention.

(Definition as per the Maharashtra State Council for Occupational therapy & Physiotherapy, 2004)

‘**Physiotherapist**’ is a qualified professional who has acquired all the above mentioned knowledge and skills for entry into practice after being awarded a bachelor degree in the subject of “ Physiotherapy” from a recognised institute affiliated to the University conducting a fulltime course not less than four years and six months of internship.



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

PREAMBLE

Physiotherapy or Physical Therapy (P.T.) is a **Movement Science** with an established theoretical and scientific base and widespread clinical applications in the **Prevention, Restoration & Rehabilitation, Maintenance and Promotion of optimal physical function**. Physiotherapists **diagnose and manage movement dysfunction** and enhance physical and functional abilities. This physical dysfunction may be the sequelae of involvement of any of the systems like Musculoskeletal, Neurological, Cardiovascular, Respiratory or other body systems.

These practitioners contribute to society and the profession through practice, teaching, administration, and the discovery and application of new knowledge about physiotherapy experiences of sufficient excellence and breadth by research to allow the acquisition and application of essential knowledge, skills, and behaviors as applied to the practice of physiotherapy.

Learning experiences are provided under the guidance and supervision of competent faculty, in both, classroom as well as in clinic. The designed curriculum will prepare the entry-to-practice physiotherapist (PT), to be an autonomous, effective, safe and compassionate professional, who practices collaboratively in a variety of healthcare set ups such as neonatal to geriatric, from critical care to community fitness to sports training and is responsive to the current and future needs of the health care system.

Vision: “ Promote excellent Physiotherapy education and train General and Specialized physiotherapy professionals”

MISSION:

- Excellent Physiotherapy education and service research for community development.
- Promote community oriented Physiotherapy.
- Promote Research and quality management in Physiotherapy



ESSENTIAL REQUIREMENTS

The following “essential requirements” specify those attributes that the faculty consider necessary for completing the professional education enabling each graduate to subsequently enter clinical practice. The purpose of this curriculum is to delineate the cognitive, affective and psychomotor skills deemed essential for completion of this program and to perform as a competent physiotherapist who will be able to evaluate, plan & execute physiotherapy treatment independently

COGNITIVE LEARNING SKILLS: The student must demonstrate the ability to receive, interpret, remember, reproduce and use information in the cognitive, psychomotor, and affective domains of learning to solve problems, evaluate work, and generate new ways of processing or categorizing similar information listed in course objectives

PSYCHOMOTOR SKILLS: The student must demonstrate the following skills.

1. Locomotion ability:

Get to lecture, laboratory and clinical locations, and move within rooms as needed for changing groups, partners and work stations. Move quickly in an emergency situation to protect the patient (e.g. from falling).

2. Manual tasks:

- a. Maneuver another person’s body parts to effectively perform evaluation techniques. Manipulate common tools used for screening tests of the cranial nerves, sensation, range of motion, blood pressure, e.g., cotton balls, safety pins, goniometers, Q-tips, sphygmomanometer. Safely and effectively guide, facilitate, inhibit, and resist movement and motor patterns through physical facilitation and inhibition techniques (including ability to give timely urgent verbal feedback).
- b. Manipulate another person’s body in transfers, gait, positioning, exercise, and mobilization techniques. Manipulate evaluation and treatment equipment safely and accurately apply to patients. Manipulate bolsters, pillows, plinths, mats, gait assistive devices, and other supports or chairs to aid in positioning, moving, or treating a patient effectively.
- c. Competently perform and supervise cardiopulmonary resuscitation

3. Fine motor/hand skills:

- a. Legibly record thoughts for written assignments (including diagrams) and tests. Document evaluations, patient care notes, referrals, etc. in standard medical charts in hospital/clinical settings in a timely manner and consistent with the acceptable norms of



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

clinical settings.

- b. Safely apply and adjust the dials or controls of therapeutic modalities.
- c. Safely and effectively position hands and apply mobilization and therapeutic techniques.

4. Visual acuity to:

- a. Read written and illustrated material in the English language, in the form of lecture handouts, textbooks, literature and patient's chart.
- b. Observe active demonstrations in the classroom.
- c. Visualize training videos, projected slides/overheads, X-ray pictures, and notes written on a blackboard/whiteboard.
- d. Receive visual information from patients, e.g., movement, posture, body mechanics, and gait necessary for comparison to normal standards for purposes of evaluation of movement dysfunctions.
- e. Receive visual information from treatment environment, e.g., dials on modalities and monitors, assistive devices, furniture, flooring, structures, etc.
- f. Receive visual clues as to the patient's tolerance of the intervention procedures. These may include facial grimaces, muscle twitching, withdrawal, etc.

5. Auditory acuity to:

- a. Hear lectures and discussion in an academic and clinical setting.
- b. Distinguish between normal and abnormal breathing, lung and heart sounds using a stethoscope.

6. Communication:

- a. Effectively communicate information and safety concerns with other students, teachers, patients, peers, staff and personnel by asking questions, giving information, explaining conditions and procedures, or teaching home programs. These all need to be done in a timely manner and within the acceptable norms of academic and clinical settings.
- b. Receive and interpret written communication in both academic and clinical settings in a timely manner.
- c. Receive and send verbal communication in life threatening situations in a timely manner within the acceptable norms of clinical settings.
- d. Physiotherapy education presents exceptional challenges in the volume and breadth of required reading and the necessity to impart information to others. Students must be able to communicate quickly, effectively and efficiently in oral and written English with all members of the health care team.



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

7. Self care:

Maintain general good health and self care in order not to jeopardize the health and safety of self and individuals with whom one interacts in the academic and clinical settings.

AFFECTIVE LEARNING SKILLS: The student must be able to:

1. Demonstrate respect to all people, including students, teachers, patients and medical personnel, without showing bias or preference on the grounds of age, race, gender, sexual preference, disease, mental status, lifestyle, opinions or personal values.
2. Demonstrate appropriate affective behaviors and mental attitudes in order not to jeopardize the emotional, physical, mental, and behavioral safety of patients and other individuals with whom one interacts in the academic and clinical settings and to be in compliance with the ethical standards of the profession.
3. Acknowledge and respect individual values and opinions in order to foster harmonious working relationships with colleagues, peers, and patients.

PROFESSIONAL DRESS CODE STANDARDS:

It is important to portray a professional image. A clinician with inappropriate dress, grooming or conduct can damage the patient's confidence in the quality of their care, sometimes even resulting in a delay in the restoration of health.

Haircuts, hairstyling, and personal grooming need to be neat, conservative and inconspicuous. Grooming and style should be practical and allow one's duties to be performed without embarrassment or inconvenience

DRESS:

Modest casual wear is appropriate on campus and in class.

Clinical /Lab Dress: Aprons for all clinical assignments, any class that is held in a clinical facility and in any class where patients are present.



FRAMEWORK OF THE CURRICULUM

COURSE DURATION: Four years and Six months of Internship.

I B.P.Th.

- a. Deals with the basic foundation in medical as well as physiotherapy subjects. The foundation of human body structure & function & energy utilization is achieved by studying the subjects Human Anatomy, Physiology, and Biochemistry.
- b. Students knowledge of Physics i.e. – Mechanics, Electricity, Water, Sound & Light is recalled to apply it on human body in understanding movements and the various physiotherapeutic modalities under the subject of Fundamentals of Electrotherapy & Fundamentals of Kinesiology & Kinesiotherapy.

II B.P.Th.

- a. Deals with understanding of altered physiology by studying pathology & Microbiology.
- b. The students get oriented to various Pharmacotherapeutic agents used along with their effects by studying Pharmacology.
- c. The students will study about normal and altered human mind & behavior by studying Psychology & Psychiatry. They will also learn skills required for effective communication with the patients and caregivers.
- d. Students will acquire the knowledge of Biomechanics as applicable to human body in the context of Kinetics & kinematics of Joints, Movements & Daily activities under subject of Kinesiology and shall acquire knowledge and learn various physiotherapeutic skills on models in subject of Kinesiotherapy.
- e. In the subject of Electrotherapeutics, students will acquire knowledge and learn application & uses of various electrotherapeutic modalities on mode

III B.P.Th.

- a. Students acquire knowledge of all the clinical subjects like Orthopaedics, General Surgery, Medicine, Neurology, Paediatrics, Dermatology & Gynecology & Obstetrics, Community Medicine and Sociology.
- b. Students will acquire knowledge about the principles of International Classification of Functioning (I.C.F.) and its applicability in context to movement dysfunctions.
- c. Students will learn the physiotherapeutic evaluation skills including electrodiagnosis on patients to arrive at a Functional/ Physical Diagnosis in Neuromuscular, Cardiovascular & Respiratory dysfunction. They will also acquire knowledge of various specialized manual therapy and neurodevelopmental techniques and practice these skills on models under the subject of functional diagnosis and physiotherapeutic skills.



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

IV B.P.Th.

- a. Students will revise, recall and integrate the knowledge of previous years to evaluate, functionally diagnose, plan and execute short and long term management of various musculoskeletal, neurological & cardiovascular- respiratory dysfunctions in hospital and community settings.
- b. Students also acquire knowledge pertaining to health promotion & disease prevention throughout lifespan in the community. They will also be able to analyze, prevent and treat problems associated with various industries in community physiotherapy.
- c. Students will also acquire knowledge about biomechanical principles & application of variety of aids & appliances used for ambulation, protection & prevention by studying Bioengineering.
- d. Professional Practice and ethics as a subject will be studied in continuum from first year, so students will acquire the knowledge of ethical code of professional practice, as well as its moral & legal aspects. The principles of Hospital Administration, Management & Marketing will be studied separately.
- e. Students will also acquire knowledge of Research Methodology and Biostatistics and apply the knowledge in project work in community physiotherapy.

INTERNSHIP

- a. A period of 6 months (26 weeks) of continuous clinical practice to enhance the clinical reasoning, judgment, programme planning, intervention, evaluation of intervention, follow up and referral skills of all the dysfunctions and impairments learnt throughout the curriculum of four years.
- b. Those candidates declared to have passed the final year examination in all subjects shall be eligible for internship.
- c. Internship shall be done in a teaching hospital recognized by the University. A degree certificate shall be awarded ONLY on successful completion of six months of internship.
- d. The Internship will be rotatory and shall cover clinical branches concerned with Physiotherapy such as Orthopaedics, Cardiovascular & Respiratory including ICU, Neurology & Neurosurgery Paediatrics, General Medicine, Surgery, Obstetrics and Gynecology both inpatient and outpatient services.
- e. Successful Completion: The student must maintain a logbook. On completion of each posting, the same will have to be certified by the faculty in charge of the posting for both attendance as well as work done. On completion of all the postings, the duly completed logbook will be submitted to the Principal/Head of program to be considered as having successfully completed the internship program.



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

III B.P.Th.

TRANSCRIPT HOURS- 1400

Sr. No.	SUBJECTS	Teaching Hrs
	PROFESSIONAL PRACTICE	
1	Professional practice & Ethics	015
	MEDICAL SCIENCES	
2	Surgery-I	055
3	Surgery-II	060
4	Medicine-I	055
5	Medicine-II	065
6	Community Medicine & Sociology	060
7	Obstetrics & Gynaecology	030
8	Dermatology	010
	PHYSIOTHERAPY	
9	Functional Diagnosis & Physiotherapeutic Skills	460
10	Seminar (including I.C.F.)	090
11	Supervised clinical practice	500
	TOTAL	1400

III B.P.Th.

SYLLABUS

Transcript Hours- 1400

Sr. No.	SUBJECTS	Theory Hours	Laboratory / Clinical Hours	Total Hours
	PROFESSIONAL PRACTICE			
1	Professional Practice & Ethics <i>(College Examination in final year)</i>	10	005	015
	MEDICAL SCIENCES			
2	Surgery-I (Cardiovascular & Thoracic Surgery, General Surgery & Plastic/Reconstructive Surgery)	030	025	055
3	Surgery-II (Orthopedics)	040	020	060
4	Medicine-I (Cardiovascular Respiratory Medicine, General Medicine, Rheumatology & Gerontology)	045	010	055
5	Medicine-II (Neurology & Paediatrics)	045	020	065
6	Community Medicine & Sociology	050	010	060
7	Obstetrics & Gynaecology <i>(College Examination)</i>	020	010	030
8	Dermatology <i>(College Examination)</i>	010	-	010
	PHYSIOTHERAPY			
9	Functional Diagnosis & Physiotherapeutic Skills	135	325	460
10	Seminar (including ICF)	-	090	090
11	Supervised clinical practice	-	500	500
	TOTAL	385	1015	1400



PROFESSIONAL PRACTICE AND ETHICS
(COLLEGE EXAMINATION IN FINAL YEAR)
TOTAL -15HRS

COURSE DESCRIPTION:

This subject would be taught in continuum from first year to final year. An exam in theory would be conducted only in final year. Professional and ethical practice curriculum content addresses the Knowledge, Skills and Behaviors required of the physiotherapist in a range of practice relationships and roles. The course will discuss the role, responsibility, ethics administration issues and accountability of the physical therapists. The course will also cover the history and change in the profession, responsibilities of the professional to the profession, the public and to the health care team. This includes the application of professional and ethical reasoning and decision-making strategies, professional communication.

OBJECTIVES:

At the end of the course the student will be compliant in following domains:

Cognitive:

- a. Be able to understand the moral values and meaning of ethics.
- b. Will acquire bedside manners and communication skills in relation with patients, peers, seniors and other professionals.

Psychomotor:

- a. Be able to develop psychomotor skills for physiotherapist-patient relationship.
- b. Skill to evaluate and make decision for plan of management based on sociocultural values and referral practice.

Affective:

- a. Be able to develop behavioral skills and humanitarian approach while communicating with patients, relatives, society at large and co-professionals
- b. Be able to develop bedside behavior, respect & maintain patients' confidentiality

SYLLABUS

Sr. No.	Topics	Didactic Hours	Visits/ Supervision Hours	Total Hours
1.	Collecting data on psychosocial factors in Medicine / Surgery / Reproductive Health / Paediatrics	04	05	15
2.	Inter professional communication.	03		
3.	Ethics in clinical practice	03		
TOTAL		10	05	15



SURGERY-I

(General Surgery, Cardiovascular & Thoracic Surgery & Plastic/ Reconstructive Surgery)

(Didactic-35hrs + Clinical -20 hrs) TOTAL =55HRS

COURSE DESCRIPTION:

This course intends to familiarize students with principles of General surgery including various specialties like cardiovascular, thoracic, neurology and plastic surgery. It also 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 make physiotherapy students aware of various surgical conditions general surgery and specialty surgeries so these can be physically managed effectively both pre as well as postoperatively.

Sr. No.	Topics	Didactic Hours	Clinical Hours	Total Hours
1.	GENERAL SURGERY	20	10	30
2.	CARDIO VASCULAR AND THORACIC SURGERY	10	5	15
3.	PLASTIC SURGERY / RECONSTRUCTIVE SURGERY	5	5	10
	TOTAL	35	20	55

OBJECTIVES:

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

1. Describe the effects of surgical trauma & Anaesthesia in general
2. Clinically evaluate & describe the surgical management in brief of
 - a. General Surgery
 - b. Neuro Surgery
 - c. Cardiovascular and Thoracic Surgery
 - d. ENT & Ophthalmic Surgery
 - e. Plastic & Reconstructive Surgery
3. Describe pre-operative evaluation, surgical indications in various surgical approaches, management and post operative care in above mentioned areas with possible complications.
4. Be able to read & interpret findings of the relevant investigations



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

SYLLABUS

Sr. No.	Topics	Didactic Hours	Clinical Hours	Total Hours
1	GENERAL SURGERY	20	10	30
	a. GENERAL: <ol style="list-style-type: none"> i. Anaesthesia types, Effect, indications and contraindications and common postoperative complications ii. Haemorrhage and Shock, classification, description and treatment iii. Water & Electrolyte imbalance iv. Inflammation – acute & chronic-signs, symptoms, complications & management v. Wounds & Ulcers, Cellulitis – classification, healing process, management, bandaging, Dressing solutions and its uses and debridement Procedure, hand washing and universal precautions. vi. Enumerate Common abdominal surgical incisions – classification, indications, opening – closure, advantages and disadvantages, complications (including burst abdomen and fecal fistula), minimally invasive surgery. vii. Mastectomy and oncosurgery – approach, complications & management viii. Amputation – types, sites, complications & management ix. Burns – causes, complications, classification & management x. Varicose veins and PVD xi. Hernias-surgery, precautions and complications xii. Transplantation approach, risk problems related to donor and recipient, precautions. 	12	10	
	b. NEUROSURGERY <ol style="list-style-type: none"> i. Head Injury – management ii. Intra cranial & Spinal tumors iii. Intracranial Aneurysm and AV malformation iv. Post operative Neurosurgical care 	4		



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

	<p>c. E.N.T.Surgery</p> <ul style="list-style-type: none"> i. Tracheostomy – indications, surgical approach & management ii. Surgical procedures in VIIth cranial nerve palsy iii. Vertigo 	3		
	<p>d. Ophthalmic Surgery Surgeries for IIIrd, IVth, VIth Cranial Nerve palsy</p>	1		
2	CARDIO VASCULAR AND THORACIC SURGERY	10	5	15
	<ul style="list-style-type: none"> a. Introduction, Cardiorespiratory resuscitation, cardiopulmonary bypass, Special investigation procedures in cardiac surgery, Basic techniques in cardiac surgery approach, incisions, Types of operation, Complications of cardiac surgery, Lines, drains and tubes. b. Brief description of indications, surgery, complications for following surgery: <ul style="list-style-type: none"> i. Surgeries of thorax i. Surgeries of the lung ii. Surgeries of pleura and pericardium iii. Surgery for coronary artery disease iv. Valvular surgeries v. Surgery for Congenital Heart Disease vi. Peripheral arterial disorder, Burger's disease, Raynaud's disease and Aneurysm vii. Gangrene, Amputation, DVT 			
3	PLASTIC SURGERY / RECONSTRUCTIVE SURGERY	5	5	10
	<ul style="list-style-type: none"> a. Skin grafts & flaps – Types, indications with special emphasis to burns, wounds b. Ulcers, complications and postoperative care c. Tendon transfers, with special emphasis to hand, foot & facial paralysis, & repair of Flexor & Extensor Tendon Injuries d. Keloid & Hypertrophied scar management e. Reconstructive surgery of peripheral nerves f. Micro vascular surgery-reimplantation and revascularization 			

CLINICAL (10 hrs)



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

1. Evaluation / presentation and recording of one case eachin:
 - a) Burns
 - b) Wound &ulcer
 - c) Head injury
 - d) Peripheral vascularcondition
 - e) Post radicalmastectomy
 - f) Post thoracicsurgery
 - g) Post abdominalsurgery
 - h) Plasticsurgery

2. Auscultation & its interpretation with special emphasis to Reading & interpretation ofthe X-raychest.

RECOMMENDED TEXT BOOKS

1. Short practice of surgery-- Bailey andLove
2. Textbook of Surgery –Das



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

SCHEME OF UNIVERSITY EXAMINATION

THEORY		Marks
40 MARKS + I.A. – 10 MARKS * The question paper will give appropriate weightage to all the topics in the syllabus.		50
Section A –M.C.Qs.	Q-1 MCQs – based on MUST KNOW area [1 x 10]	10
Section B- S.A.Q.	Q-2 - Answer any THREE outof FOUR [3 x 5] * Based on topics – General surgery & plastic surgery	15
	Q-3 - Answer any THREE outof FOUR [3 x 5] * Based on topics – Cardiovascular & thoracic surgery	15
Total Marks		40

Clinical Case Presentation (COLLEGE EXAMINATION)	Marks
Conducted at the end of Preliminary examination - Based on Case presentation, Examination and Viva	20

INTERNAL ASSESSMENT:

- 1. One examination of Total 40 marks (Theoryonly)**
- 2. Internal Assessment to be calculated out of 10marks**
- 3. Internal assessment as per Universitypattern.**



SURGERY-II
(ORTHOPAEDICS)

(Didactic-40hrs + Clinical -20hrs) **TOTAL =60 HRS**

COURSE DESCRIPTION:

This course intends to familiarize students with principles of orthopaedic surgery along with familiarization with terminology and abbreviations for efficient and effective chart reviewing and documentation. It also explores various orthopaedic 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 make physiotherapy students aware of various orthopaedic surgical conditions so these can be physically managed effectively both pre as well as postoperatively.

Sr. No.	Topics	Didactic Hours	Clinical Hours	Total Hours
1	FRACTURES	6	3	9
2	DISLOCATIONS & SUBLUXATIONS	4	2	6
3	SOFT TISSUE AND TRAUMATIC INJURIES	4	2	6
4	DEFORMITIES AND ANOMALIES	11	3	14
5	DEGENERATIVE AND INFLAMMATORY CONDITIONS	6	3	9
6	MANAGEMENT OF METABOLIC DISORDERS	2	2	4
7	GENERAL ORTHOPAEDIC DISORDERS	5	3	8
8	TUMORS	2	2	4
	TOTAL	40	20	60

OBJECTIVES:

At the end of the course, the candidate will –

- Be able to discuss the, aetiology, Pathophysiology, clinical manifestations & conservative / surgical management of various traumatic & cold cases of the Musculoskeletal Conditions.
- Gain the skill of clinical examination; apply special tests & interpretation of the preoperative old cases & all the post-operative cases.
- Be able to read & interpret salient features of the X-ray of the Spine & Extremities and correlate the radiological findings with the clinical findings.
- Be able to interpret Pathological / Biochemical studies pertaining to Orthopaedic conditions.



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

SYLLABUS

Sr. No.	Topics	Didactic Hours	Clinical Hours	Total Hours
1	FRACTURES	6	3	9
	<ul style="list-style-type: none"> a. Definition, Classification, Causes, Clinical features, healing of fractures & Complications. b. Principles of general management of <ul style="list-style-type: none"> i. Fracture of the Upper Extremity ii. Fracture of the Lower Extremity iii. Fracture of the vertebral column, thorax and pelvis iv. Emergency care and first aid. 			
2	DISLOCATIONS & SUBLUXATIONS	4	2	6
	<ul style="list-style-type: none"> a. Definition, General description, Principles of general description and management of traumatic dislocation and subluxation of common joints. <ul style="list-style-type: none"> i. Shoulder joint ii. Acromioclavicular joint iii. Elbow joint iv. Hip joint v. Knee joint 			
3	SOFT TISSUE AND TRAUMATIC INJURIES	4	2	6
	<ul style="list-style-type: none"> a. Introduction, Anatomy & physiology general description, grade of injury and management of injuries of <ul style="list-style-type: none"> i. Ligaments, Bursae, Fascia ii. Muscles & Tendons iii. Muscles and tendons injuries of upper and lower limb b. Cervicolumbar injuries, Whiplash of the cervical spine c. Crush injuries of hand & foot 			
4	DEFORMITIES AND ANOMALIES	11	3	14
	<ul style="list-style-type: none"> a. Definition, Causes, Classification, Congenital and acquired deformities Physical and clinical and radiological features, Complications b. Principles of medical and surgical management of the deformities 			



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

	<p>c. General description of following deformities:</p> <p>i. Deformities of the spine:</p> <p>a) Scoliosis b) Kyphosis c) Lordosis d) Flatback e) Torticollis</p> <p>ii. Deformities of the lower limb:</p> <p>a) C.D.H., coxa vara, coxa valga, anteversion, Retroversion b) Genu valgum, Genu varum, Genu recurvatum, C.D.K. c) Talipes calcaneus equinus, varus & valgus d) Pes cavus, Pes planus e) Hallux valgus & varus, Hallux rigidus and hammertoe</p> <p>iii. Deformities of Shoulder & Upper limb</p> <p>a) Sprengel's shoulder, Cubitus varus, Cubitus valgus b) Dupuytren's contracture</p>		
5	DEGENERATIVE AND INFLAMMATORY CONDITIONS	6	3
	<p>a. Osteo-arthrosis/Arthritis b. Spondylosis c. Spondylolysis and listhesis d. Pyogenic arthritis e. Rheumatoid arthritis f. Juvenile arthritis g. Tuberculous arthritis h. Gouty arthritis i. Haemophilic arthritis j. Neuropathic arthritis k. Ankylosing spondylitis l. Psoriatic arthritis</p>		



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

6	MANAGEMENT OF METABOLIC DISORDERS	2	2	4
	a. Osteoporosis b. Osteomalacia & Rickets			
7	GENERAL ORTHOPAEDIC DISORDERS	5	3	8
	a. Carpel tunnel syndrome/Entrapment nerveinjuries b. Compartment syndrome, Ischemic contracture c. Avascular necrosis of bone in adult and children i. Gangrene ii. Backache/P.I.D.			
8	TUMORS	2	2	4
	i. Classification, Principles of general management ii. General description of benign and malignant tumours of musculoskeletal system			

CLINICAL (20 HRS)

3. Independent clinical orthopaedic evaluation presentation & recording of:
 - a) One acute soft tissue lesion (including nerve injury)
 - b) Two cases of degenerative arthritis of extremity joint (One each in Upper Extremity and One Lower Extremity)
 - c) Two cases of spine (one P.I.D., one traumatic)
 - d) One post operative case of fractures of extremities with fixation/ replacement knee/ hip
 - e) One paraplegia /quadriplegia

RECOMMENDED TEXT BOOKS

1. Outline of Fractures--Adams
2. Outline of Orthopedics.--Adams
3. Apley's systems of orthopedics and fractures by Louis Solomon, 9th edition



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

SCHEME OF UNIVERSITY EXAMINATION

THEORY		Marks
40 MARKS + I.A. – 10 MARKS		
* The question paper will give appropriate weightage to all the topics in the syllabus.		50
Section A .MCQs	Q-1 - MCQs – based on MUSTKNOW area [1 x 10]	10
Section B- S.A.Q	Q-2 - Answer any THREE outof FOUR [3 x 5] Based on fractures/Dislocations & subluxations/Soft tissue and traumaticInjuries/Deformities and anomalies	15
	Q-3 - Answer any THREE outof FOUR [3 x 5] Based on Degenerative and inflammatory conditions/ Management of metabolic/Disorders/General orthopaedic disorders/Tumors	15
Total Marks		40

Clinical Case Presentation (COLLEGE EXAMINATION)	Marks
Conducted at the end of Preliminary examination - Based on Case presentation, Examination and Viva	20

INTERNAL ASSESSMENT:

- 1. One examination of Total 40 marks (Theory only)**
- 2. Internal Assessment to be calculated out of 10marks**
- 3. Internal assessment as per University pattern.**



MEDICINE-I

(Cardiovascular Respiratory Medicine, General Medicine & Gerontology)

(Didactic-45 hrs + Clinical-10 hrs) **TOTAL-55 HRS**

COURSE DESCRIPTION:

This course intends to familiarize students with medical terminology & abbreviations for efficient & effective chart reviewing & documentation. It also explores selected systemic diseases, focusing on epidemiology, pathology, histology, etiology as well as primary & secondary clinical characteristics & their management. Discusses & integrates subsequent medical management of General, Rheumatology, Gerontology, Cardio-vascular & Respiratory systems, to formulate appropriate intervention, indications, precautions & contraindications.

Sr. No.	Topics	Didactic Hours	Clinical Hours	Total Hours
1	CARDIO-VASCULAR & RESPIRATORY MEDICINE	30	05	35
2	GENERAL MEDICINE, RHEUMATOLOGY & GERONTOLOGY	15	05	20
	TOTAL	45	10	55

OBJECTIVES:

At the end of the course, the candidate will:

1. Be able to describe Etiology, Pathophysiology, Signs & Symptoms & Management of the various Endocrinal, Metabolic, Geriatric & Nutrition Deficiency conditions.
2. Be able to describe Etiology, Pathophysiology, Signs & Symptoms, Clinical Evaluation & Management of the various Rheumatologic Cardiovascular & Respiratory Conditions.
3. 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.
5. 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.



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

SYLLABUS

Sr. No.	Topics	Didactic Hours	Clinical Hours	Total Hours
1	CARDIO-VASCULAR & RESPIRATORY MEDICINE :	30	5	35
	a. Cardio-Vascular Diseases	11	2	
	i. Hypertension – systemic	1		
	ii. Cardiac Conditions- a) I.H.D. (Angina, Myocardial infarction) b) R.H.D. c) Infective Endocarditis d) Cardio myopathy e) Heart Failure	4		
	iii. Valvular Heart Disease a) Congenital b) Acquired	2		
	iv. Congenital Heart Disease	1		
	v. Investigations a) Basics of E.C.G. [Normal & Abnormal (Ischaemia, Infarction & Arrhythmias)] b) Observation of conduction of stress test on patient c) 2D Echo (Ejection Fraction & Wall motion Abnormality)	3		
	b. Diseases of the Respiratory System :	17	3	
	i. Common Infectious diseases like Tuberculosis, Pneumonia, Lung Abscess, and Bronchiectasis.	3		
	ii. Diseases of Pleura like Pleural Effusion, Pneumothorax, Hydropneumothorax, and Empyema.	2		
	iii. ILD & Occupational lung diseases like Silicosis, Asbestosis, Pneumoconiosis, Brucellosis, Farmer's Lung.	2		
	iv. Obstructive Airway Diseases (C.O.P.D. with Cor Pulmonale, Pulmonary Hypertension, Bronchial Asthma & Cystic Fibrosis)	3		
	v. Intensive Care Unit a. Infrastructure b. Instrumentation. c. Mechanical Ventilation (settings & monitoring) d. Assessment, monitoring & management of patient in I.C.U.	3		
	vi. Basic Life Support : Introduction & Demonstration	2		
vii. Investigation: Normal & Abnormal 1. Chest X-ray 2. Blood Gas Analysis 3. PFT (Observation of conduction on patient)	2			
2	GENERAL MEDICINE, RHEUMATOLOGY & GERONTOLOGY:	15	05	20



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

<p>a. GeneralMedicine</p> <ul style="list-style-type: none"> i. Disorders of Endocrine system (Diabetes) Introduction, pathophysiology, types, role of physical activity, complications of diabetes (autonomic neuropathy, myopathy, weakness) & medications. ii. Thyroid, Pituitary & Adrenalconditions Cushing'ssyndrome iii. Obesity iv. Nutrition Deficiency Disease (Rickets, Vit. E, Vit. D, Vit. B , micro nutrients,(Zn,Se) v. Intoxication (Drug abuse; Alcohol,smoking, cocaindependence) 	7	2	
<p>b. RheumatologicalConditions</p> <ul style="list-style-type: none"> i. RheumatoidArthritis ii. S LE iii. S SA iv. Gout v. Polymyositis vi. Fibromyalgia vii. Ankylosingspondylitis 	5	2	
<p>C. GeriatricConditions</p> <ul style="list-style-type: none"> i. Aging Process (physiological changes dueto aging) ii. CVS & RScomplications iii. Osteoporosis 	3	1	

RECOMMENDED TEXT BOOKS

1. API- Text book of Medicine, 5thedition
2. Medicine-- P.J.Mehta

RECOMMENDED REFERENCE BOOK

1. Principles & Practice of Medicine --Davidson

CLINICAL - 10 HRS

1. History taking, Evaluation –General Examination & Systemic examination(Inspection, Palpation, Percussion & Auscultation)
2. Presentation and recording of Two cases Eachin:
 - a. Musculardisorders
 - b. RespiratoryConditions
 - c. Cardio VascularConditions
 - d. Degenerative / RheumatologicalCondition
 - e. Obesity
 - f. Nutritionaldisorders
 - g. Diabetes Mellitus & Metabolic bonedisorders.



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

SCHEME OF UNIVERSITY EXAMINATION

THEORY		Marks
40 MARKS + I.A. – 10 MARKS * The question paper will give appropriate weightage to all the topics in the syllabus.		50
Section A .MCQs	Q-1 -MCQs – based on MUST KNOW area [1 x 10]	10
Section B- S.A.Q	Q-2 - Answer any THREE outof FOUR [3 x 5] * Based on topics – general medicine, rheumatology & gerontology	15
Section B- S.A.Q	Q-3 - Answer any THREE outof FOUR [3 x 5] * Based on topics – cardiovascular & respiratory medicine	15
Total Marks		40

Clinical Examination (COLLEGE EXAMINATION)	Marks
Conducted at the end of Preliminary examination 1. GeneralMedicine, Rheumatology -10 Marks &Gerontology 2. Cardio-Vascular & Respiratory Medicine -10Marks	20

INTERNAL ASSESSMENT:

- 1. One examination of Total 40 marks (Theoryonly)**
- 2. Internal Assessment to be calculated out of 10marks**
- 3. Internal assessment as per University pattern.**



MEDICINE-II
(Neurology & Paediatrics)

(Didactic – 45 hrs + Clinical – 20 hrs) **TOTAL – 65 HRS**

COURSE DESCRIPTION:

This course intends to familiarize students with medical terminology & abbreviations for efficient & effective chart reviewing & documentation, It also explores select systemic diseases, focusing on epidemiology, etiology, pathology, histology as well as primary & secondary clinical characteristics & their management. It discusses & integrates subsequent medical management of Neurological & Paediatric conditions to formulate appropriate intervention, indications, precautions & contraindications.

Sr. No.	Topics	Didactic Hours	Clinical Hours	Total Hours
1	NEUROLOGY	25	10	35
2	PAEDIATRICS	20	10	30
TOTAL		45	20	65

OBJECTIVES:

At the end of the course, the candidate will:

1. Be able to describe Aetiology, Pathophysiology, signs & Symptoms & Management of the various Neurological & Paediatric conditions.
2. Acquire skill of history taking and clinical examination of Neurological & Paediatric conditions as a part of clinical teaching.
3. Acquire knowledge of various drugs used for each medical condition to understand its effects and its use during therapy.
4. Acquire knowledge in brief about intra-uterine development of the foetus.
5. Be able to describe normal development & growth of a child, importance of Immunization, breast-feeding & psychological aspect of development.
6. Be able to describe neuromuscular, musculoskeletal, cardio-vascular & respiratory conditions related to immunological conditions, nutritional deficiencies, infectious diseases, & genetically transmitted conditions.
7. Acquire skill of clinical examination of a neonate / child with respect to neurological, musculoskeletal & respiratory function.



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

SYLLABUS

Sr. No.	Topics	Didactic Hours	Clinical Hours	Total Hours
1	NEUROLOGY	25	10	35
	a. Introduction to Nervous System i. Applied anatomy ii. Applied physiology	1		
	b. Cerebro Vascular Accidents i. Thrombosis, Embolism, Haemorrhage ii. Level of Lesion & symptoms iii. Management	3	1	
	c. Extra Pyramidal lesions – Basal Ganglia i. Parkinsonism ii. Athetosis, Chorea, Dystonia	2	1	
	d. Differential diagnosis of muscle wasting i. Approach to neuropathies ii. Myopathies and neuromuscular junction disorders.	5	2	
	e. Disorders of Anterior Horn cell with differential diagnosis of Motor Neuron Disease, S.M.A., Syringomyelia, Peroneal Muscular Atrophy, and Poliomyelitis.	2	2	
	f. Multiple Sclerosis	1		
	g. Infections of the nervous system: Encephalitis, Neurosyphilis, H.I.V. infection, Herpes, Meningitis, Tabes Dorsalis	2		
	h. Tetanus	1		
	i. Epilepsy	1		
	j. Alzheimer's Disease, Dementia	1		
	k. Disorders of cerebellar function	1	2	
	l. Disorders of cranial nerves & Special Senses	2		
	m. Disorders of Spinal cord i. Syndromes ii. Bladder dysfunction iii. Autonomic dysfunction	3	2	
2	PAEDIATRICS	20	10	30
	a. Normal intra-uterine development of foetus with special reference to Central Nervous System, Neuromuscular System, Cardiovascular Respiratory System	1		
	b. Normal development & growth	2		
	c. Immunization and breast-feeding	1	1	
	d. Sepsis, Prematurity, Asphyxia Hyperbilirubinemia and birth injuries	1		
	e. Cerebral Palsy- Medical Management including early intervention	2	2	



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

f. Developmental disorders associated with spinal cord: Spinal Dysraphism, Spina Bifida, Meningocele, Myelomeningocele, hydrocephalus	1	2
g. Common infections a) C.N.S.& Peripheral NervousSystem b) Typhoid, Rubella, Mumps, Measles, Diphtheria, Chicken gunia, Malaria	2	1
h. Epilepsy	1	
i. Mental Retardation and Down's Syndrome	1	1
j. Genetically transmitted neuro-muscular conditions	2	
k. Malnutrition and Vitamin deficiency conditions	1	
l. Juvenile R. A. & other Rheumatologic conditions of Musculoskeletal system	1	1
m. Common diseases of the Respiratory system: Asthma, Bronchitis, Bronchiectasis, T.B., Pneumonia, Lung collapse, Pleural effusion.	2	2
n. Respiratory distress in neonate	1	
o. Rheumatic & Congenital Heart disease	1	

CLINICAL (10 HRS)

1. History taking and general examination in neonate and child
2. Examination of neonate and neonatal reflexes.
3. Examination of the nervous system
4. Examination of respiratory system
5. Examination of cardiovascular system
6. Examination of musculoskeletal system
7. Ventilatory care in neonate and child.

RECOMMENDED TEXT BOOKS:

1. Essentials of Paediatrics – O.P. Ghai-Inter Print publications
2. Clinical Paediatrics - Meherban Singh



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

SCHEME OF UNIVERSITY EXAMINATION

THEORY		Marks
40 MARKS + I.A. – 10 MARKS		
** The question paper will give appropriate weightage to all the topics in the syllabus.		50
Section A .MCQs	Q-1 -MCQs – based on MUST KNOW area [1 x 10]	10
Section B- S.A.Q	Q-2 - Answer any THREE outof FOUR [3 x 5] * Based on topics – paediatrics	15
Section B- S.A.Q	Q-3 - Answer any THREE outof FOUR [3 x 5] * Based on topics – neurology	15
Total Marks		40

Clinical Examination (COLLEGE EXAMINATION)	Marks
Conducted at the end of Preliminary examination	
1. Neurology -10Marks	20
2. Paediatrics -10Marks	

INTERNAL ASSESSMENT:

- 1. One examination of Total 40 marks (Theory only)**
- 2. Internal Assessment to be calculated out of 10marks**
- 3. Internal assessment as per University pattern**



COMMUNITY HEALTH & SOCIOLOGY

TOTAL 60 HRS

AC COMMUNITY HEALTH

(Didactic- 30 Hours + Visits -10 Hours) **Total 40hrs**

COURSE DESCRIPTION :

The course is organized to introduce the concept of health care and management issues in Health Services. It will help them in assuming a leadership role in their profession and assume the responsibility of guidance. It will help them assume wider responsibilities at all levels of health services. It will help them in improving their performance through better understanding of the health services at all the levels of community.

OBJECTIVES:

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

SYLLABUS

Sr. No.	Topics	Didactic Hours
1	GENERAL CONCEPTS & DETERMINANTS OF HEALTH & DISEASES:	04
	a. National&InternationalDefinitionofHealth,Roleof Socio-Economic&CulturalEnvironmentinHealth&Disease.	1
	b. Epidemiology–Definition&scope,useswithrelevanceto physiotherapy	1
	c. Environmental Hygiene including man & hissurrounding, Occupational & Industrial hygiene, Village & Town Sanitation, Bacteriology of Water, Milk, & Food Hygiene.	2
2	NATIONAL PUBLIC HEALTH ADMINISTRATION	1
3	HEALTHCARE DELIVERY SYSTEM:	2
	a. Healthcare Delivery System ofIndia	
	b. National HealthProgrammes	
	c. Role ofW.H.O.	
	d. Millennium Development Goals forAll	
4	PRIMARY HEALTHCARE:	1
	a. Definition	
	b. Principles,	
	c. Elements & itsapplication	
5	EPIDEMIOLOGY OF SOCIO-ECONOMICAL & CULTURAL ISSUES - related to morbidity in relation to the following vulnerable groups.	6
	a. Women:	1
	i. Pregnant and lactating women, maternal health(ANC,PNC,INC)	
	ii. Perimenopausal women’s’ health: physical &psychological	



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

	b. Infants:(LowBirthWeight,Breastfeeding, Complimentaryfeeding, IYCN,IMNCI Vaccine preventable diseases,Immunization programmes, Infant and childhood mortality)	2
	c. Children: Child health, Growth monitoring under five clinic, ICDS, PEM	2
	d. School aged populationhealth: Early detection and prevention of disabilities, behavioral problems	1
6	DEMOGRAPHY AND OBJECTIVES OF NATIONAL FAMILY WELFARE PROGRAMMES AND NATIONAL POPULATION POLICY	2
7	COMMUNICABLE DISEASES	3
	An over-view [including prevention & control] T.B., H.I.V., Leprosy, Vector borne diseases- Malaria / Filariasis / Dengue/ Chikungunya/ Japanese encephalitis.	
8	NON COMMUNICABLE DISEASES:	2
	Diabetes Mellitus, Hypertension, Coronary Heart Disease / Obesity / Blindness/ Accidents /Stroke/ Cancer.	
9	NUTRITIONAL DISEASES:	4
	Malnutrition, Nutritional disorders and National nutrition programmes, Osteomalacia, Rickets, Neuropathies due to Vitamin - deficiency, Skeletal Deformities.	
10	MENTAL HEALTH:	2
	a. Socio-economical & cultural aspects	
	b. Substance abuse and addiction –tobacco, alcohol and others	
11	OCCUPATIONAL HEALTH:	1
	Occupational diseases & hazards -definition, scope, prevention & legislations, Occupational lung diseases & Physical injuries/pains.	
12	GERIATRIC HEALTH:	1
	a. Physical, social, economical aspects	
	b. Osteoporosis, Malnutrition, Alzheimer's disease, Parkinson's disease	
13	HOSPITAL WASTE MANAGEMENT:	1
	Universal Safety Precautions, Immunization of health care providers including their vaccination.	
COMMUNITY VISITS:		
Community health centers: Urban & Rural – 10 Hours		

RECOMMENDED TEXT BOOKS

1. Park's Textbook of Preventive & Social Medicine - K.Park
2. Textbook of Preventive & Social Medicine - P.K. Mahajan & M.C.Gupta
3. Essential of Community Medicine - Baride and Kulkarni



B-SOCIOLOGY

Total 20 hrs

COURSE DESCRIPTION:

This course covers the basic knowledge and concepts of sociology to with the aim to help them understand the impact of group, culture and environment on the behaviour and health of the patients. Make them realize the importance of the relationship of the physical therapist and the patient and the environment around them.

OBJECTIVES:

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

SYLLABUS

Sr. No.	Topics	Didactic Hours
1	INTRODUCTION:	1
	Definition & Relevance with Physiotherapy and social factors affecting Health status, Decision Making in taking treatment.	
2	SOCIALIZATION:	1
	Definition, Influence, of Social Factors, on Personality, Socialization in the Hospital & Rehabilitation of the patients.	
3	SOCIAL GROUPS:	1
	Concepts, Influence of formal & informal groups of Health & Diseases, Role of Primary & Secondary Groups in the Hospital & Rehabilitation Setting.	
4	FAMILY:	1
	Influence on human personality, Role of family in health and disease	
5	COMMUNITY ROLE:	1
	Rural & Urban communities in Public Health, Role of community in determining Beliefs, Practices & Home Remedies in Treatment.	
6	CULTURE:	1
	Component's impact on human behavior, Role of community in determining beliefs, practices and health seeking behavior and home remedies	
7	SOCIAL CHANGE FACTORS:	1
	Human Adaptation, Stress, Deviance, Health Programme Role of Social Planning in the improvement of Health & in Rehabilitation.	
8	SOCIAL CONTROL:	1
	Definition, Role of norms, Folkways, Customs, Morals, Religion, Law & other means of social controls in the regulation of Human Behavior, Social Deviance & Disease	
9	POPULATION GROUPS :	5



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

	a. Children: Street children, Child labour, Juvenile delinquency b. Women's: Victims of domestic violence and addiction, C.S.W., physically and /or mentally challenged c. Role of NGOs, Social support systems	
10	Social Security & Social Legislation in relation to the Disabled	1
11	Role of a Medical Social Worker	1
12	Sociology of Brain Death and/ or Organ donation:	1
13	SOCIAL PROBLEMS:	4
	Population explosion, Poverty, Dowry, Illiteracy- Causes, prevention & Control measures.	

RECOMMENDED TEXT BOOKS

1. An Introduction to Sociology – Sachdeva & Bhushan
2. Indian Social Problems - Madan, Vol-I-Madras

SCHEME OF UNIVERSITY EXAMINATION (THEORY ONLY)

THEORY		Marks
80 MARKS + I.A. – 20 MARKS * The question paper will give appropriate weightage to all the topics in the syllabus.		100
Section A- 2	Q. 1 MCQs – based on MUST KNOW area ➤ based on COMMUNITY MEDICINE [1x10] ➤ based on SOCIOLOGY [1x10]	20
Section B	Q-2 SAQ - Answer any SIX out of SEVEN [6 x 5] Questions based on COMMUNITY MEDICINE	30
	Q-3 SAQ – Answer any SIX out of SEVEN [6 x 5] Questions based on SOCIOLOGY	30
Total Marks		80

INTERNAL ASSESSMENT:

1. Two exams – Terminal and preliminary examination of 80 marks each TOTAL - 160marks
2. Internal Assessment to be calculated out of 20marks.
3. Internal assessment as per University pattern



GYNAECOLOGY & OBSTETRICS
(COLLEGE EXAMINATION)

(Didactic - 20 hrs + Clinical – 10 hrs) **TOTAL 30 HRS**

COURSE DESCRIPTION:

This course intends to provide introduction to women`s health which includes problems related to pregnancy, osteoporosis, and other disorders specific to women. Topics will focus on medical terminology, clinical examination, evaluation, comparing contemporary, traditional interventions and the impact of evolving technology in this area. It also emphasises on evaluation & medical treatment of pelvic floor dysfunctions.

Sr. No.	Topics	Didactic Hours	Practical/Lab Hours	Total Hours
1	PHYSIOLOGY OF PUBERTY & MENSTRUATION	2		2
2	PHYSIOLOGY OF PREGNANCY	3		3
3	PHYSIOLOGY OF LABOUR	4		4
4	POST NATAL PERIOD	2	5	7
5	INFERTILITY	1		1
6	URO-GENITAL DYSFUNCTION	3	1	4
7	GYNAECOLOGICAL SURGERIES	2	1	3
8	PRE, PERI & POST MENOPAUSE	2	1	3
9	PELVIC INFLAMMATORY DISEASES	1	2	3
	TOTAL	20	10	30

OBJECTIVES:

At the end of the course, student will be able to describe:

- Normal & abnormal physiological events, complications and management during Puberty.
- Normal and abnormal physiological events, complications and management of pregnancy (Pregnancy, Labour,Puerperium)
- Normal and abnormal physiological events, complications and management of menopause.
- Normal and abnormal physiological events, complications and management of uro-genital dysfunction.(Antenatal, Postnatal, duringmenopause)
- The student will be able to acquire the cognitive skill of clinical examination of the pelvicfloor.



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

SYLLABUS

Sr. No.	Topics	Didactic Hours	Practical/Lab Hours	Total Hours
1	PHYSIOLOGY OF PUBERTY & MENSTRUATION: Abnormalities & common problems of Menstruation	2		2
2	PHYSIOLOGY OF PREGNANCY :	3		3
	a. Development of the foetus, Normal/ Abnormal / multiple gestations, b. Common Complications during pregnancy: i. Anaemia, ii. P IH iii. Eclampsia iv. Diabetes, v. Hepatitis, vi. TORCH infection or HIV			
3	PHYSIOLOGY OF LABOUR	4		4
	a. Normal – Events of Ist, IInd & IIIrd Stages of labour b. Complications during labour & management c. Caesarean section- elective/ emergency & post operative care			
4	POST NATAL PERIOD	2	5	7
	a. Puerperium & Lactation b. Complications of repeated childbearing with small gaps c. Methods of contraception			
5	INFERTILITY	1		1
	a. Management with emphasis on PCOS/PCOD			
6	URO-GENITAL DYSFUNCTION	3	1	4
	a. Uterine prolapse – Classification & Management (Conservative /Surgical) b. ii) Cystocele, Rectocele, Enterocoele, Urethrocele			
7	GYNAECOLOGICAL SURGERIES (Pre and post surgical management)	2	2	4
8	PRE, PERI & POST MENOPAUSE	2	1	3
	a. Physiology b. Complications & c. Management			
9	PELVIC INFLAMMATORY DISEASES with special emphasis to backache due to Gynaecological / Obstetrical conditions	1	1	2

CLINICAL (10 hrs)



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

- Evaluation & presentation** of One case Eachin:
 - Uro-genitaldysfunction
 - Antenatalcare
 - Postnatalcare
 - Following normallabour
 - Following Caesareansection
 - Pelvic InflammatoryDiseases
- Observation**—OneNormal&OneCaesareandelivery&OneHysterectomy/Repairofthe Uro-genitalProlapse

RECOMMENDED TEXT BOOKS

- Text book of Gynaecology – Datta – New Central BookAgency
- Text book of Obstetrics --Datta – New Central BookAgency

SCHEME OF COLLEGE EXAMINATION (THEORY ONLY)

THEORY ONLY		Marks
50 marks [There shall be no LAQ in this paper]		
*Emphasis to be given to the Urogenital dysfunction / Obstetrical conditions / age related Gynaecological problems		50
Section -A	Q-1 MCQs – based on MUSTKNOW area [20X1]	20
Section-B-	Q-2SAQ-to answer any THREE outofFOUR [3x5]	15
	Q-3 SAQ-to answer any THREE outofFOUR [3x5]	15
Total Marks		50
Passing in the exam is Mandatory		
Grades: A+ = 75% & above, A = 66 to 74.5%, B + = 55 to 65 %, B = 50 to 54.5%, C = less than50%.		



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

DERMATOLOGY
(COLLEGE EXAMINATION)

TOTAL - 10 HRS

OBJECTIVES:

At the end of the course, the student will be able to describe the Pathophysiology, Signs & Symptoms, Clinical Features, Examination & Management of Common Skin Conditions like Leprosy, Psoriasis, Bacterial & Fungal Infections of the skin, connective tissue disorder, hand eczema, drug reaction, cutaneous manifestation of HIV, & Sexually Transmitted Diseases

SYLLABUS

Sr. No.	Topics	Didactic Hours
1	Introduction to Dermatology, basic skin lesions & History taking	1
2	a. Skin infections (Part I) – Scabies / Pediculosis /Bacterial infections b. Skin infection (Part II) Viral / Fungal / Cutaneous T.B.	2
3	Connective tissue disorder-Scleroderma, S.L.E., Dermatomyositis, Morphia	1
4	a. Hand eczema, Psoriasis, Psoriatic arthritis, Reiter's Syndrome b. Cutaneous hyperplasia-Keloid, Hypertrophic scar, Corn, Callosity	1
5	Leprosy & Deformity	2
6	a. Cutaneous Manifestation of HIV b. Hyperhidrosis	1
7	a. Drug reaction b. Urticaria Genodermatosis -Epidermolysis bullosa c. Sexually Transmitted skin lesions PUVA Treatment	2
	TOTAL	10

RECOMMENDED TEXT BOOK

1. Textbook of dermatology – Dr.Khopkar



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

SCHEME OF COLLEGE EXAMINATION (THEORY ONLY)

THEORY		Marks
25 marks [There shall be no LAQ in this paper] * The question paper will give appropriate weightage to all the topics in the syllabus.		25
Section A-	Q-1MCQs – based on MUSTKNOWarea [10X1]	10
Section-B-	Q-2SAQ - Answer any THREE outofFOUR [3x5]	15
Total Marks		25
Passing in the exam is Mandatory		
Grades: A+ = 75% & above, A = 66 to 74.5%, B + = 55 to 65 %, B = 50 to 54.5%, C = less than50%.		



FUNCTIONAL DIAGNOSIS & PHYSIOTHERAPEUTIC SKILLS

(Didactic - 135 hrs + Clinical – 325 hrs) **TOTAL 460 HRS**

COURSE DESCRIPTION:

1. Functional Diagnosis & Physiotherapeutic Skills is a stepping stone to introduce students to actual concepts of PT assessment and later to the treatment concepts
2. Functional Diagnosis focuses on the assessment of all the body systems i.e. Musculoskeletal, Neurological and Cardiovascular-Respiratory in order to study the various impairments and their impact on activity and participation of the individual taking into consideration the contextual factors as well. It also emphasizes on the clinical reasoning of the underlying components of a universal evaluation tool (ICF) for a better understanding of the patient in a holistic manner. The student is also subjected to learn basics of manipulative, cardiovascular-respiratory and neuro-therapeutic skills on models so that he/she will be able to apply these principles eventually on patients.
3. The student will also gain a sound knowledge of electro-diagnosis, which is an integral part of Functional Diagnosis.

Sr. No.	Topic	Didactic Hours	Practical / Laboratory Skills Hours	Total Hours
1.	<u>SECTION-I</u> INTERNATIONAL CLASSIFICATION OF FUNCTION, DISABILITY & HEALTH (ICF)	05	-	005
2.	<u>SECTION-II</u> MUSCULOSKELETAL EVALUATION & MANIPULATIVE SKILLS	40	140	180
3.	<u>SECTION –III</u> CARDIO VASCULAR RESPIRATORY EVALUATION & RELATED SKILLS	40	055	095
4.	<u>SECTION – IV</u> NEUROTHERAPEUTIC EVALUATION & ELECTRO DIAGNOSIS	50	130	180
TOTAL		135	325	460



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

OBJECTIVES:

Cognitive:

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

1. Understand the use of ICF.
2. Acquire the knowledge of human growth and development from new life to birth and adulthood
3. Understand structure and function of nerve and muscle as a base for understanding the electro-diagnostic assessment.
4. Understand the use of appropriate tools or instruments of assessment in Musculoskeletal, Neurological and Cardio-vascular conditions.
5. Understand the theoretical basis and principles of manipulative skills, neurotherapeutic skills and skills of cardiopulmonary care and resuscitation
6. Document results of assessment to evaluate the patient from time to time.

Psychomotor:

Student will be able to:

1. Perform assessment of measures of body structures and functions related to tissue mechanics.
2. Perform assessment of measures of body structures and functions related to motor control affecting activity and participation, quality of life and independence.
3. Perform the skill of electro-diagnosis (SD Curve) and observe skills of EMG and NCV studies, to understand the documentation of findings of these studies.
4. Interpretation and analysis of assessment and findings.
5. Demonstrate skills of manual therapy musculoskeletal, neurotherapeutics and cardiovascular and respiratory skills on models (Laboratory work).

Affective:

Student will be able to:

1. Select appropriate assessment techniques to facilitate safety, sensitive practices in patient comfort and effectiveness.
2. Demonstrate safe, respectful and effective performance of physical therapy handling techniques taking into account patient's clinical condition, need for privacy, resources available and the environment.
3. Follow the principles of appropriate handling technique that is draping, hand placement, body part positioning, manual techniques, lifting and transfer techniques.
4. Communicate with patients and their families/caregivers regarding the need and uses of various assessment techniques.



SYLLABUS

Sr. No.	Topic	Didactic Hours	Practical/ Clinical Hours	Total Hours
1	SECTION I: Functional Diagnosis using International Classification of Function, Disability & Health (I.C.F.) (Applicable for all the Sections mentioned below)	5	-	5
2	SECTION II: MUSCULOSKELETAL EVALUATION AND MANIPULATIVE SKILLS (Didactic-40 + Practical 140= 180 Hours)			
	a. Assessment of Musculoskeletal System:	03	02	05
	<ul style="list-style-type: none"> i. Soft tissue flexibility ii. Joint mobility iii. Muscle strength & Endurance iv. Trick movements v. Sensations vi. Limb length vii. Abnormal posture viii. Gait deviations due to musculoskeletal dysfunction 			
	b. Assessment of Joints with special tests:	10	08	18
	i. Cervical Spine: Foraminal compression, Distraction, Shoulder depression, vertebral artery, Dizziness tests.			
	ii. Shoulder: Yergason's, Speed's, Drop-Arm, Supraspinatus, Impingement, Anterior & Posterior Apprehension, Allen, Adson.			
	iii. Elbow: Cozen's, Miller's, Tinel's sign			
	iv. Forearm, Wrist & Hand: Phalen's, Bunnel-Littler, Froment's sign			
	v. Lumbar Spine: Schober's, SLR, Prone Knee Bending, Slump.			
	vi. Sacro Iliac joint: Faber-Patrick's, Gaenslen, Gillet, March			
	-			
	vii. Hip: Nelaton's line, Bryant's triangle, Thomas, Ober's, Tripod sign, Trendelenburg sign,			
	viii. Knee: Tests for collateral & cruciate ligaments (valgus, varus, Lachman, Sag, Drawer's, McMurray's, Fluctuation, Patellar tap, Q-angle, Clarke)			



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

ix. Ankle & Foot: Anterior Drawer, Talar Tilt, Homan's & Moses (for D.V.T.)			
c. Response of soft tissues to trauma :	02		02
<ul style="list-style-type: none"> i. Triggerpoints ii. Spasm iii. Ligament Sprains iv. Muscle Strains 			
d. Basics in Manual Therapy and Applications with Clinical Reasoning:	05	05	10
<ul style="list-style-type: none"> i. Assessment of Articular and extra-articular soft tissue status <ul style="list-style-type: none"> a) Contractile tissues b) Non contractile tissues ii. Examination of joint integrity <ul style="list-style-type: none"> a) Accessory movement b) Endfeel 			
e. Examination of musculoskeletal Dysfunction :	06	10	16
<ul style="list-style-type: none"> i. Subjective examination ii. Objective examination iii. Special tests iv. Functional Diagnosis using ICF 			
f. Assessment of Pain:	04	05	09
<ul style="list-style-type: none"> i. Types of pain: Somatic, Somatic referred, Neurogenic, Visceral ii. Subjective Assessment: <ul style="list-style-type: none"> a) Location, duration, progression, distribution, quality, diurnal variations, modifying factors. b) Severity, nature of pain, tissue irritability iii. Objective Measurement & Documentation- <ul style="list-style-type: none"> a) Visual Analogue Scale (V.A.S). b) Numerical Rating Scale (N.R.S.) c) McGill's modified questionnaire (including Body charts) 		Assessment By V.A.S. & N.R.S.	
g. Basic principles, indications, contra indications of mobilization skills for joints and Soft tissues:	10	110	120
<ul style="list-style-type: none"> i. Maitland ii. Mulligan iii. Kaltenborn iv. Mckenzie v. Cyriax vi. Myofascial Release Technique vii. Muscle Energy Technique viii. Neural Tissue Mobilization (Neuro Dynamic Testing) 		Practice of Manual Therapy in Kaltenborn, Maitland's, M.E.T. & Neural Mobilisation on extremities on Models only	



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

3	SECTION III:			
	CARDIO VASCULAR RESPIRATORY EVALUATION & RELATED SKILLS (Didactic-40 + Practical 55= 95 Hours)			
	a. Assessment of Cardio Vascular & Pulmonary System:	25	25	50
	<ul style="list-style-type: none"> i. Vital parameters ii. Chest expansion iii. Symmetry of chest movement iv. Breath Holding Test v. Breath Sounds vi. Rate of Perceived Exertion (R.P.E.) vii. Energy Systems & Exercise Physiology– 	Identification of abnormal breath sounds, measurement of chest expansion, pattern of breathing, Vital parameters, Grades of Dyspnoea, Rate of Perceived Exertion,		
	<ul style="list-style-type: none"> a) Physiological response to immobility and activity. b) Aerobic & Anaerobic metabolisms c) Evaluation of Functional Capacity using sub maximal tests (Exercise Tolerance – Six Minutes Walk test) d) Theoretical bases of different protocols for maximal exercise testing (e.g.: Bruce Protocol, Modified Bruce Protocol, Balke) viii. Interpretation of reports – A.B.G., P.F.T., P.E.F.R., E.C.G.- (Normal & Variations due to Ischemia & Infarction), X-ray Chest, Biochemical Reports ix. Ankle Brachial Index x. Tests for Peripheral Arterial & Venous circulation. 	Ankle Brachial Index, Exercise Tolerance Testing – 6 Minutes Walk Test		
	b. Examination of Cardiovascular Respiratory Dysfunction	05	05	10
	<ul style="list-style-type: none"> i. Subjective examination ii. Objective examination iii. Special tests: Exercise Tolerance Testing – 6 Minutes Walk Test, Breath Holding Test, P.E.F.R. iv. Functional Diagnosis using I.C.F. 			
	c. Assessment of Fitness & Health	10	25	35



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

	<ul style="list-style-type: none"> i. Screening for riskfactors ii. Body composition-B.M.I., use of skin fold calipers, Girthmeasurement iii. Physical fitness: Flexibility,Strength, Endurance, Agility iv. Physical Activity ReadinessQuestionnaire v. Screening for health and fitness in childhood, adulthood and geriatricgroup vi. Quality oflife vii. Principles & components of exercise prescription forhealthy 			
4	SECTION IV: NEUROTHERAPEUTIC EVALUATION & ELECTRO DIAGNOSIS (Didactic-50 + Practical 130= 180 Hours)			
	a. General principles of Human development & maturation	07	05	12
	<ul style="list-style-type: none"> i. Aspects <ul style="list-style-type: none"> a) Physical b) motor c) Sensory d) Cognitive &Perceptive e) Emotional f) Social ii. Factors influencing human development &growth: <ul style="list-style-type: none"> a) Biological b) Environmentalinherited iii. Principles of maturation in general& anatomical directional pattern– <ul style="list-style-type: none"> a) Cephelo – caudal b) Proximo –distal c) Centro –lateral d) Mass to specificpattern e) Gross to fine motordevelopment f) Reflex maturationtests iv. Development in specific fields - Oromotor development, sensory development, neurodevelopment of handfunction. 			
	b. Basics in Neuro Therapeutics Skills & Applications with Clinical reasoning.	20	55	75



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

	i. Principles, Technique & Indications for Application of a) Bobath b) Neuro Developmental Technique c) Rood's Technique d) P.N.F. e) Brunnstrom, f) Techniques of Motor Relearning Program (M.R.P.)	Therapeutic Skills of N.D.T., P.N.F., Bobath, Rood's Technique & Brunnstrom, M.R.P. on models only		
	c. Assessment of Movement Dysfunction	10	25	35
	i. Higher functions ii. Cranial nerves iii. Sensations, sensory organization & body image iv. Joint mobility v. Tone vi. Reflexes-Superficial & Deep vii. Voluntary control viii. Muscle Strength ix. Co-ordination x. Balance xi. Endurance xii. Trick movements xiii. Limb Length xiv. Posture deviations xv. Gait deviations due to neurological dysfunction xvi. Functional Diagnosis using I.C.F. xvii. Interpretation of Electrodiagnostic findings, routine Biochemical investigations			
	d. Electro diagnosis	10	30	40



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

	<ul style="list-style-type: none"> i. Physiology of resting membrane potential, action potential, Propagation of Action Potential ii. Physiology of muscle contraction iii. Motor unit & Recruitment pattern of motor unit – Size principle iv. Therapeutic current – as a tool for electro diagnosis. <ul style="list-style-type: none"> a) Electrophysiology of muscle & nerve b) Faradic Galvanic Test, Strength Duration Curve-tests should be carried out on relevant patients, c) Test for Sensory & Pain Threshold/ Pain Tolerance – technique only v. Electro-Myography <ul style="list-style-type: none"> a) Definition Instrumentation – Basic components like C.R.O., Filter, Amplifier & Preamplifier, and Types of Electrodes 	Test for S.D.C. & Faradic/ Galvanic Test		
	<ul style="list-style-type: none"> b) Normal & Abnormal E.M.G. pattern <ul style="list-style-type: none"> i. at rest ii. on minimal contraction iii. on maximal contraction c) Nerve Conduction Studies <ul style="list-style-type: none"> i. Principles & Technique ii. F wave iii. H reflex 			
	e. SCALES: Berg Balance, Modified Ashworth, F.I.M., Barthel Index, G.C.S., D.G.I., M.M.S., S.T.R.E.A.M. & A.S.I.A.	3	15	18



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

DOCUMENTATION:	
A	Documentation & Interpretation of following investigations: i. Electro diagnosis : <u>2 each</u> a) S.D.C. b) Faradic Galvanic Test c) E.M.G. & N.C. Studies ii. Cardio Vascular & Pulmonary: (1 each) – A.B.G., P.F.T., E.C.G., X-ray Chest, Exercise Tolerance Test. iii. Neurological Scales (1 each) – Modified Ashworth, Berg's Balance, D.G.I., Glasgow iv. Coma, Barthel Index, F.I.M.
B	Case presentation with Functional diagnosis : i. Total 12 cases ii. Three cases each in – a) Musculoskeletal b) Neurological c) Cardiovascular & Respiratory (<u>Including General Medical & Surgical Cases</u>) d) General & Community Health (<u>Including Fitness & Health, Women & Child Health, Occupation Health</u>)
To maintain the Record/ Journal of the term work & to get each assignment duly signed by respective Head of the Dept.	

RECOMMENDED TEXT BOOKS

1. Orthopaedic Physical Examination – Magee
2. Clinical Electro Therapy – Nelson – Currier --- Appleton & Lange publication
3. Clinical Electromyography – Mishra
4. Therapeutic Exercises - Colby & Kisner
5. Physical Rehabilitation, Assessment and treatment - Susan B O'sullivan
6. Neurological Examination - John Patten

RECOMMENDED REFERENCE BOOKS

1. Maitland's book on Manual therapy,
2. Mobilisation of Extremities – Kaltenborn
3. Clinical Electromyography – Kimura
4. Orthopaedic Physical therapy – Donnatelli
5. NAGS, SNAGS and MWMS - Brian Mulligan
6. Exercise & Heart – Wenger
7. Exercise Physiology – William D Mc'Ardle
8. Facilitation techniques based on NDT principles - Lois Bly Allison Whiteside
9. Movement therapy in Hemiplegia – Brunnstrom
10. Cash textbook of Physiotherapy in neurological conditions - Patricia Downie



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

11. Physical Dysfunction - TromblyScout
12. Infant Motor Development- JanPiek
13. Neurology & Neurosurgery Illustrated (3rd edition)-Bone &Callander
14. Neuro-developmental Therapy –JanettHowle

SCHEME OF UNIVERSITY EXAMINATION

THEORY		Marks
80 MARKS + I.A. – 20 MARKS * The question paper will give appropriate weightage to all the topics in the syllabus.		100
Section A-	Q-1 -MCQs – based on MUSTKNOW area [20 x 1]	20
Section B-	Q-2 - Answer any SIX out of SEVEN [6 x 5] Based on topics- Simulated case on all of the sections on ICF pattern (Section II,III & IV)	30
	Q-3- Answer any SIX out of SEVEN [6 x 5] Based on topics- Simulated case on all of the sections on ICF pattern (Section II,III & IV)	30
Total Marks		80



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

PRACTICAL		Marks
80 MARKS + I.A. – 20 MARKS		100
LONG CASE	<p>[Time maximum 30 minutes for students for evaluation]</p> <p>1. Psychomotor & affective:</p> <ul style="list-style-type: none"> • Skill of History taking [05marks] • Skill of clinical examination [15marks] • Skill of objective diagnostic procedure [10marks] <p>2. Cognitive:</p> <ul style="list-style-type: none"> • Ability to justify bases for functional diagnosis by I.C.F. [15marks] <p>[To be evaluated in cognitive, psychomotor and affective domains.]</p>	45
SHORT CASE	<p>Two Short cases on</p> <p>1. Mobilization Technique: Kaltenborn, Maitland, M.E.T. or Neural Mobilisation (On Models) [10marks]</p> <p>2. Neuro Therapeutic Skills: N.D.T. / P.N.F. / Rood's / Brunnstrom (On Models) [10marks]</p> <p align="center">OR</p> <p>Electro Diagnosis: S.D. Curve / Faradic Galvanic Test (On Patient) [10 marks]</p> <p align="center">OR</p> <p>Exercise Tolerance Test: Six Minutes Walk Test (On Model) [10marks]</p>	20
SPOTS	<p>5 spots - (5 x 2 Marks = 10 Marks) 3 minutes for each spot</p> <p>a) X ray (on section 2/3/4)</p> <p>b) Pulmonary Function Test</p> <p>c) Blood gas analysis</p> <p>d) E.C.G.</p> <p>e) E.M.G. / N.C. studies</p>	10
JOURNAL	Documentations- Assessment, Evaluation, Diagnosis with I.C.F.	5
Total Marks		80

INTERNAL ASSESSMENT:

1. Two exams – Terminal and preliminary examination (Theory & Practical) of 80 marks each **TOTAL - 160marks**
2. Internal Assessment to be calculated out of 20marks
3. In Practicals of Terminal & Preliminary examinations Spots will be of 15 marks instead of 10 marks (3 marks X 5), No marks will be allotted for the journal in Terminal & Preliminary examinations
4. Internal assessment as per University pattern



D. Y. Patil Education Society, Kolhapur
Institution Deemed to be University

SCHEME OF EXAMINATIONS AT A GLANCE – IIIB.P.Th.

SUBJECTS	UNIVERSITY EXAMINATIONS						COLLEGE LEVEL EXAMS (Theory only)
	Theory			Clinical / Practical			
	University	I.A.	Total	University	I.A.	Total	
Surgery-I (General Surgery + Cardio vascular & Thoracic Surgery + Plastic / Reconstructive Surgery)	40	10	50	---	---	---	---
Surgery-II (Orthopaedics)	40	10	50	---	---	---	---
Medicine-I (Cardiovascular Respiratory Medicine + General Medicine + Gerontology)	40	10	50	---	---	---	---
Medicine-II (Neurology & Paediatrics)	40	10	50	---	---	---	---
Community Health & Sociology	80	20	100	---	---	---	---
Functional Diagnosis and Physiotherapeutic Skills	80	20	100	80	20	100	---
Gynaecology & Obstetrics	---	---	---	---	---	---	50
Dermatology	---	---	---	---	---	---	25
Total	320	80	400	80	20	100	75