POST GRADUATE DIPLOMA IN AYURVEDA AND YOGA

UNIVERSITY OF PATANJALI HARIDWAR

Post Graduate Diploma in Ayurveda and Yoga 2021-22

Preamble

Ayurveda and Yoga are indispensable components of the Vedic tradition. Incorporating Ayurveda in our daily activities heals body and mind and body whereas Yoga unleashes ones' superior mental faculties. These two sciences are interconnected through the vital energy called Prana: of which Yoga is for higher evolutionary transformations, and Ayurveda is its healing power. Together they form a common system of self-improvement, self-control, and self-rejuvenation.

Both *Yoga* and *Ayurveda* are based on the principles of *Trigunas (Sattva, Rajas and Tamas)* and the five basic elements, *Panchamahabhuthas* (Earth, Air, Fire, Water, Space). They comprehend how the human body works (*Doshas-Dhatu-Mala* / humor-tissue-waste material theory) i.e. human physiology, and how food and medicine have effect on the body. Both acknowledge that a healthy body is vital for fulfilling the four aims of life: *Dharma* (duty), *Artha* (wealth), *Kama* (desire) and *Moksha* (liberation).

I. Title of the Program The program shall be called Post Graduate Diploma in Yoga Science& Ayurveda"

II. Aim of the Program The aim of the program is to produce Yoga professionals with adequate knowledge of Ayurveda for academic & therapeutic fields

III. Objectives of the programme

- 1. Deeper Understanding of Yoga& Ayurveda: To make students understand the classical nature of Yoga & Ayurveda giving them the in-depth knowledge of their various components.
- 2. Prevention: To introduce yoga as therapy, its principles and practices of yoga for prevention of various lifestyles, non-communicable and psychosomatic disorders. In addition, the knowledge of Ayurveda gives the healing touch and can prevent the various life-threatening diseases.
- 3. Promotion of positive health: To prepare them for giving talks and offer techniques to promote healthy yogic life style with healing touch.

IV. Duration

Duration of the course will be 1 year (2 semesters)

Structure of Post graduate diploma of Yoga and Ayurveda

Scheme of Teaching & Examination

S.N.	Subject	Subject Title	P	erio	ds	Eval	valuation Scheme			Subject
	Code			per		Sea	asonal	l	SEE	Total
				weel		~	~~			-
			L	T	P	Credit	CT	TA		
		I`	Yea	r						
	ester I		1 -	1 -	1 -	Т -	T	T		T
1	PGDYA-	Basics of Yoga	3	1	0	4	20	10	70	100
2	CT-101	Desire similare of Assessment	2	1	Δ.	1	20	10	70	100
2	PGDYA- CT-102	Principles of Ayurveda	3	1	0	4	20	10	70	100
3	PGDYA-	Human Biology	3	1	0	4	20	10	70	100
	CT-103									
4	PGDYA- CT-104	Pharmacotherapeutical Science	3	1	0	4	20	10	70	100
5	PGDYA-	Diet and nutrition	3	1	0	4	20	10	70	100
	CT-105									
6	PGDYA-	Yoga Practicum	0	0	8	4	20	10	70	100
_	CT-106	A 1 D 4					10	0.5	25	5 0
7	PGDYA-	Ayurveda Practicum	0	0	4	2	10	05	35	50
	CT-107								<u> </u>	
		32Hrs				26		Tota	l	650
Seme	ester II									
1	PGDYA-	Yoga & Nature Cure	3	1	0	4	20	10	70	100
	CT-201	0								
2	PGDYA-	Complementary &	3	1	0	4	20	10	70	100
	CT-202	Alternative Therapy (CAT)								
3	PGDYA-	Important Medicinal	3	1	0	4	20	10	70	100
3	CT-203	herbs	3	1	U	7	20	10	70	100
4	PGDYA-	Basics of Healthy Living	3	1	0	4	20	10	70	100
-	CT-204	245105 01 22041011, 2171119				_				
	PGDYA-	Disease specific	3	1	0	4	20	10	70	100
	CT-205	pathology								
5	PGDYA-	Yoga Practicum	0	0	8	4	20	10	70	100
	CT-206		_	_	<u> </u>		4.5	_		
6	PGDYA-	Pathology Practicum	0	0	4	2	10	5	35	50
	CT-207	D. C. A. J.	•	•	_		10	-	25	50
7	PGDYA-	Project work	0	0	4	2	10	5	35	50
36hrs	CT-208					28	Tota	.1		700
Juni	3					40	TOLA	II		/00

Total number of Credits	54	Total Marks	1350

COURSE DETAILS

SUBJECT TITLE: Basics of Yoga SUBJECT CODE: - PGDYA-CT 101

SEMESTER - I. TOTAL HOURS: 60 CREDITS: 4

Course objectives:

The teaching-learning of this paper will enable learner to-

- 1. Deeper Understanding of Yoga: To make students understand the classical nature of Yoga & giving them the in-depth knowledge of its various components.
- 2. Prevention: To introduce yoga as therapy, its principles and practices of yoga for prevention of various lifestyles, non-communicable and psychosomatic disorders.
- 3. Promotion of positive health: To prepare them for giving talks and offer techniques to promote healthy yogic life style.

Course Outcomes:

CO1 The students will well understand the various concept of yoga in day to day life using various asanas, kriyas and pranayama.

CO2 Students will understand the Vedic concept of the yoga and learn the various concept written in ancient books like Vedas and Upanishads, Yoga in Pre-Vedic period, Yoga in Vedic period, Yoga in Ayurveda. In addition, they will get the knowledge of YogainYogapanishad and Bhagavad-Gita.

CO3. The students will develop the concept of yoga to deal with the various life threating diseases.

CO4 Students will get training in wellness center and will directly interact with patients and develop the skill to treat them with yogic concept.

Total Number of Hrs.: 60 Theory Practical T			al Tutorial			
Credits	4	-	-			
Hts/Week	4	-	-			
SCHEME OF EXAMINATION						
Total marks: 100						
Theo	Practical:NA					
Final Exam (SEE)	Internal Assessment	Final Exam (SEE)		Internal		
	(CT+TA)			Assessment		
				(CT+TA/PR)		
70	30	-		-		

UNIT1:GeneralIntroductiontoYoga[12Hrs.]

BriefintroductiontooriginofYogaPsychological aspectsleadingtoorigin ofYoga,History andDevelopmentofYoga;Etymologyand DefinitionsofYoga.Aim andObjectivesofYoga, MisconceptionsaboutYoga,TrueNatureofYoga;GeneralLntroduction.toSchools(Streams) of Yoga, Principles ofYogaand Yogicpractices forhealthy living.

UNIT2:FoundationsofYogaandYogaTraditions[15H_rs.]

General introductionto Vedasand Upanishads, Yogain Pre-vedicperiod, Yogain Vedic period, Yogain Ayurveda. Yogain Principle Upanishads, Yogain Yogopanishad; General introduction to Bhagavadgita, Yogain Bhagavadgita; Introduction to Smritis and Yogain Smritis. Introduction to Puranas, Nature of Yogain Bhagavat Purana; Yogain Yogain Yogain Yogain Narada Bhakti Sutra, Yogain Medival Literature, Bhakti Yogaof Medival Saints.

Unit3:GeneralintroductiontoIndianphilosophy [12Hrs.]

Philosophy: meaning, definitions and scope; Indian Philosophy: Salient features, Branches (AstikaandNastikaDarshanas),DistinctionfromReligion andScience,Briefintroduction to Prasthanatrayeeand PurusharthaChatushtaya;Relationship between Yoga and Indian Philosophy.

Unit4:GeneralintroductionofPatanjaliYogaSutraandHatbaYoga[15Hrs.]

Concept of Citta, CittaBhoomi, CittaVritti, Nidodhupaya(Abhayas&Vairagya), Concept of Ishwar, CinaVikshepas, Types of Samadhi, PanchaKlesh, Dukhavada, KriyaYoga, AshtangaYoga, Typesof Karma, VivekJnanaNirupanam, KaivalyaNirvachana; Meaning and Definition of Hatha yoga, Tradition of Hatha Yoga, Purpose of Hath yoga, Qualities of Hatha Siddhi, Sadhak-Badhaktattva, Concept of Mitahara, Concept of Yogic Diet, Seasonal Description, Shatkanna, Asana and Pranayam.

Unit5:ConceptandImplicationsofImportantYogicStreams[6Hrs.]

JnanaYoga, BhaktiYoga, KarmaYoga, HathaYoga, Raj Yoga.

Text Books

- 1. DasguptaS.N: HistoryofIndianPhilosophy, MotilalBanarsidas, Delhi, 2012.
- 2. Sharma, Chandradhar: ACritical Survey of Indian Philosophy. Motilal Banarasi das, Delhi, 2013.
- 3. SwamiSatyanandaSaraswati:GherandaSamhita,Pub: BSYMungher.
- 4. SwamiKulvyananda: HathPradipika, Pub: Kaivalyadhama, Lonawala.
- 5. Yoga Darshan:SwamiRamdeva,Pub:DivyaPrakashan,Haridwar.
- 6.PatanjalYoga Darshan:GeetaPress.
- 7. SwamiRamdev:ShrimadBhagavadgita:Geetamrit,Pub:DivyaPrakashan.
- 8. ShrimadBhagvadgita:GeetaPress.

COURSE DETAILS

SUBJECT TITLE: Principles of Ayurveda

SUBJECT CODE: - PGDYA-CT 102

SEMESTER - I, TOTAL HOURS: 60 CREDITS: 4

Course objectives:

The teaching-learning of this paper will enable learner to-

- 1) State concept, prevalence, objectives, types, applications and limitations of various ayurvedic concepts.
- 2) Have knowledge of Ayurveda to treat various diseases such as diabetes, blood pressure, cancer, skin disorders etc. and also develop the concept of Pancamahabhuta too.
- 3. Students will also learn the various concept of Ashtanga Ayurveda, Pancamahabhuta, Tridosa and various another concept of Ayurveda.

Course Outcomes:

- CO1. The students will well understand the various concept of ayurveda in day to day life get learn the how to deal with various diseases using ayurveda.
- CO2. The students will develop basic understanding of ayurveda and its practical application too.
- CO3. Students will get hand on training in wellness center and directly interact with patients and develop the skill of it and can open their own center.

Total Number of Hrs.: 60 Theory Practical			al Tutorial			
Credits	4	-	-			
Hts/Week	4	-	-			
SCHEME OF EXAMINATION						
Total marks: 100						
Theo	Theory:100			NA		
Final Exam (SEE)	Internal Assessment	Final Exam (SEE)		Internal		
	(CT+TA)			Assessment		
				(CT+TA/PR)		
70	30	-		-		

Unit1: Fundamentals of Ayurveda[20Hrs.]

Introduction of Ayurveda: Ayurveda and its Diversified Areas, Astanga Ayurveda: The Eight Branches of

AyurvedaBasicprincipal:Pancamahabhuta(TheFiveBasicElements),ThePrincipleofTridosa:T he Three BiologicalHumors, Traiyopastambha:Three Supporting Pillars of the Body, Saptadhatu: The SevenFundamental Tissues, Ojas: The Vital Essence,Upadhatus: Sub-Tissues, Tridana: The Three Dimensions of Life -Body, Mind(Psyche) and

Soul, Panca Pancaka: The Five Pentads, Mala: Digestion and Metabolism, Prakrti, Srotas: Body Channels

Unit 2: Sareer Rachana (Anatomy) and Sareer Kriya (Physiology) Vigyan [10 hour]

Unit 3: DravyagunaVigyan [20 hour]

Rasa: Taste:Rasa (taste)andthefiveelements, *Rasa* and *Dosa*, *Rasa* and *Dhatu*, *Rasa* and *Mala*, Identifying *rasa* and their *guna-karma* (qualities and actions), *Guna*: Attributes, *Virya*; Potency *Vipaka*: Post-Digestive Effect, *Prabhava*: Specific Action

Text Books

- 1. Acharya, B. (2004). Ausadh Darshan. Haridwar, India: Divya Prakashan.
- 2. Acharya, B. (2005). Ayurvcda Jadi-buti Rahasya. Haridwar, India: Divya Prakashan.

Book s of References

- 1. Holford, P.&Burne, J. (2007). food is better medicine thandrugs. Great Britain: Piatkus.
- 2. Holford, P. (2014). Good Medicine. Great Britain: Piatkus.
- 3. Mohan,H.(2010).Textbookofpathology(6thed.).NewDelhi,India;JAYPEEBROTHERS MEDICAL PUBUSHERS (P) LTD.
- 4. Sharma,S.(2013).ChikitsaUpcharKeVividhAyam (2nd ed.). Mathura, Jndia: AkhandJyotiSamsthan.
- $5.\ Sharma, S. (2013). Nirog Jeevan Ke Mahatopurna Sutra (2nded.). Malhura, India: Akhand Jyoti Samsthan.$

COURSE DETAILS

SUBJECT TITLE: Human Biology SUBJECT CODE: - PGDYA-CT 103

SEMESTER - I, TOTAL HOURS: 60 CREDITS: 4

Course objectives:

The teaching-learning of this paper will enable learner to-

1.Discuss & introduce main human body systems.

2. Discuss anatomical & physiological effects of selected yoga practices on human body systems in evidence-based way.

Course Outcomes:

- CO1. The students will well understand the various concepts of Anatomy and physiology.
- CO2. The students will understand the functioning of various body systems and related diseases.
- CO3. Students will get training in wellness center and will directly interact with patients and understand about various disease related to human systems and learn their treatment using yoga and Ayurveda.

Total Number of Hrs.:	mber of Hrs.: 60 Theory Practical Tu			al Tutorial		
Credits 4 -			-			
Hts/Week		4				
SCHEME OF EXAMINATION						
Total marks: 100						
Theo	Practical:NA					
Final Exam (SEE)	Internal Assessment	Final Exam (SEE)		Internal		
	(CT+TA)			Assessment		
				(CT+TA/PR)		
70	30					

Unit 1:CellandTissue,MusculoSkeletalandDigestivesystem[20Hrs.]

Cell: Structure & Functions, different cell organelles and their functions; Tissues and Organization of human system; Musculo-Skeletal System: The SkeletalSystem: Skeleton, Functions of skeleton, Classification ofbones andjoints; TheMuscular System: structure and functions of different types of

muscles;Digestivesystem:Mouth,Oralcavity,Pharynx,esophagus,Stomach,Large&smallin testine, anus;Associatedglands-

Liver, Pancreas, salivary glands, Basic physiology of different stages of digestion, absorption and assimilation.

Unit2: Excretory, Respiratory and Cardiovascular System [15 Hrs]

Excretory System: Function and structure of Kidney, Urinary bladder and urethra;

Respirator System: Anatomy of the respiratory passages Nose, nasal cavity, pharynx, Trachea, Larynxbronchi, lung · processofRespiration, Lungvolumes&capacities, basicmechanicsof breathinand exchange of gases in alveoli;

Cardiovascularsystem:Structure of heart, itschamber, valves, function ofarteries, vein and capillari.Systemic and pulmonary circulation;Blood: Composition and Functions.Blood pressure.

Unit 3: Neuro Endocrine System and Reproductive System

Nervoussystem:Structure and function ofhuman brain andspinal autonomic nervoussystem [sympathetic andparasympathetic];Structure andfunction: eye, ear, nose, tongue and skin;Basic understanding about the functions of various endocrine glands-pineal,pituitary, thyroid, parathyroid, thymus, pancreas, adrenal, ovary and testes.Reproductive System:functional anatomy of male reproductive system and female reproductive system.

Unit 4:Limphatic and Immune System

Lymphoid organ: Bone marrow, Thymus, Spleen, Lymph node, Composition and function of lymph; Immunity in brief, Types of immunity: Innate immunity and acquired immunity.

Text Books

- 1. Tortora, G.J.&Derrickson,B.N. (2009). Principles of anatomy and Physiology-(14th ed.). Hoboken, NJ: Wiley.
- 2. Guyton, A.C. & Hall, J.E.(2006). Text book of medical physiology (11th ed.). Pennsytvania: Elseveir.
- 3. RossandWilson:AnatomyandPhysiologyinHealthand111ness(11thed.).London:Elsevier.
- 4. Principlesofanatomyandphysiology-II(14thed.). Hoboken, NJ: Wiley. Udupa, K.N. (2007).

Reference Books

1. Balkrishna, A.(2007). Yoga in synergy with medical science. Haridwar, India: Divya Prakashan Books.

COURSE DETAILS

SUBJECT TITLE: Pharmacotherapeutic Science

SUBJECT CODE: - PGDYA-CT 104

SEMESTER - I, TOTAL HOURS: 60 CREDITS: 4

Course objectives:

The teaching-learning of this paper will enable learner to-

- 1) the students will learn about basic elements of pharmacokinetics their Model of distribution and develop the understanding about their chronic administration.
- 2) Have knowledge of modeling concepts in relation to pharmacokinetics.
- 3. Students will also learn the concept of pharmacotherapeutic.

Course Outcomes:

- CO1. The students will well understand the various concept of pharmacokinetics.
- CO2. The students will develop the concept of pharmacodynamics.
- CO3. Students will learn about the drug delivery system.

Total Number of Hrs.: 60 Theory Practical			al Tutorial			
Credits		4	-	-		
Hts/Week	4	-	-			
SCHEME OF EXAMINATION						
Total marks: 100						
Theo	Practical:NA					
Final Exam (SEE)	Internal Assessment	Final Exam (SEE)		Internal		
	(CT+TA)			Assessment		
				(CT+TA/PR)		
70	30	-		-		

Unit1:Introducingpharmacokineticandpharmacodynamicconcept112Hr.]

Basicelements of pharmacokinetics, Model of distribution, Chronicad ministration: Constant-rate infusion, Multipledosing, Additional considerations: Transporters, Absorption, Displacement, Additional complexities, and Pharmacodynamic considerations.

Unit2Modellingconceptsinrelation*to*pharmacokinetics[13Hrs.]

Solutionsofsystemforagiveninitialinjection, repeated medication, truncated infusion

Solutionforspecialcases:Singlecompartment,twocompartment:clinicalbromosulphaleintest,repeated penicillin application, compartment modelfordiabetes mellilus.

Unit 3 Pharmacotherapeutic concept [35 Hrs]

Respiratoinfectionsrinarytractinfection, Gastrointestinal *infection Diabetes mellitus* Leukemia Rheumatoidarthritis Glucoma, Drugincluded *skin* disorders *Constipation* and diarrhoea and Pain.

Text Books

- 1. ClinicalPharmacyandTherapeutics-RogerandWalkerChurchill*Livingstone* publication.
- 2. MathematicalmodelsinBiologyandMedicine,J.N.Kapur,East-West*PressPrivate* Limited.
- $3.\ Essentials of Medical Phannacology, K.D. \textit{Tripathi}, Jaypee Brothers \textit{Medical Publishers} (P) Limited.$
- 4. Drug-DrugInteractions, A. DavidRodrigues, InfonnaHealthcareUSAInc. Yogainsynergywithmedicalsciences, AcharyaBalkrishna, D

COURSE DETAILS

SUBJECT TITLE: Diet and Nutrition SUBJECT CODE: - PGDYA-CT 105

SEMESTER - I, TOTAL HOURS: 60 CREDITS: 4

Course objectives:

Following the completion of this course, students shall be able to

- 1. Understand the concept of diet and the medical value of nutrition.
- 2. Advise appropriate diet to different age groups.
- 3. Know the benefits and caloric value of various food groups.
- 4. Understand and practice daily regimen, night regimen and seasonal regimen for health promotion, disease prevention and age reversal.

Course Outcomes:

CO1. The students will well understand the various diets and their used in day to day life using ayurveda and modern science.

CO2. The students will develop the concept of Yogic diet and concepts of diet according to Gheranda Samhita, Hatha Pradeepika and Bhagavad-Gita-Rajasic, Tamasic and Sattvic food.

CO3. Students will get training in wellness center and will directly interact with patients and develop the skill to treat them with proper die using yogic and ayurvedic concept.

Total Number of Hrs.: 60 Theory Practical			Tutorial		
Credits		4			-
Hts/Week		4			-
SCHEME OF EXAMINATION					
Total marks: 100					
Theo	Practical:NA				
Final Exam (SEE)	Internal Assessment	Final Exam (SEE)		Internal	
	(CT+TA)			As	sessment
				(CT	+TA/PR)
70	30	-			-

Unit1: Basic understanding offoodanditsimportanceintermo fnutrition[l0Hr .]

Basic concepts and components of food and nutrition Understanding Nutrition Basic

TerminologyinRelationtoNutritionRequirement,HumanNutritionalRequirements;Concept offood, Acceptance of Food, FunctionsofFood;Components of Food &theirClassification.

Unit 2: basic understanding of different nutrients and its importance [12 hrs]

Macro Nutrients- sources, functions and effects on the body; Micro Nutrients – sources, function and effect on the body; Fats soluble nutrients- sources, functions and effects on the body; Water soluble nutrients – sources, Functions and effects on the body.

Unit 3: Basic idea of different groups of foods available in relation to nutrients [14 hrs]

Food groups, Cereals & Millets- Selection, Preparation and Nutritive Value; Pulses, Nuts and Oil-Seeds- Selection, Preparation and Nutritive Value; Milk and Milk Products- Selection, Preparation and Nutritive Value; Vegetables and Fruits- Selection, Preparation and Nutritive Value, Fats, Oilsand Sugar, Jaggery-Selection, Preparation and Nutritive Value.

Unit 4: Basicideologyofyogaasrecommendedforyogapractitioners(14Hrs.]

Yogic concept of diet &nutrition GeneralIntroduction of Ahara(Diet), concept of Mitahara; Definition and Classification in Yogic diet according to traditional Yoga texts; Concepts ofDiet according to GherandaSamhita, Hatha Pradeepika and Bhagavadgeeta-Rajasic, Tamasicand Sattvic food; Pathyaand Apathyain diet according to Yogic texts; Importance of Yogic Diet in YogSadhana; YogicDietand itsrole in healthy living.

UNIT5:Classificationofdietasrecommendedfromtwodifferentschoolsofthought traditional aswell asmodern (10 Hrs.]

Ancient&Modern classification, Quality of diet&its relation with Agni, Ayurvedic Concept of Diet: Diet according to the body constitution (Prakriti)-Vata, Pitta and Kapha, Pathaya Aahara-Vihar, Virudha Aahara and Hitkari Samyoga, Anupan, Types of Rasa, Characteristics of Rasa, Aama Rasa.

TextBooks

- 1. Stanley Davidson & others: Human Nutrition & Dietetics, The English Language Book Society & Churchill Livings, Revised Edition.
- 2. DennisThompson:TheAyurvedicDiet,Newagebooks,NewDelhi,200l. RandolphStone:APurifingDiet, LilawatiBhargavCharitableTrust, Delhi,Revised Edition.

3. WorldHealthOrganisation/WorldEconomicForum.(2008).Preventing NoncommunicableDiseasesintheWorkplacethroughDietandPhysicalActivity WHO/WorldEconomicForumReportofaJoint Event.WorldHealthOrganisation/WorldEconomicForum,52.doi:ISBN9789241596329

University of Patanjali, Haridwar Structure of Post graduate diploma of yoga and Ayurveda

COURSE DETAILS

SUBJECT TITLE: Yoga Practicum SUBJECT CODE: - PGDYA-CT 106

SEMESTER - I. TOTAL HOURS: 60 CREDITS: 4

Course objectives:

The teaching-learning of this paper will enable learner to-

- 1. Understand the benefits, contraindications and procedure of all practices.
- 2. Demonstrate each practice with confidence and skill.
- 3. Explain the procedure and subtle points involved.
- 4. Teach the yoga practices to any given group.

Course Outcomes:

CO1 The students will well understand the various concept of asanas and their practical's aspects

CO 2 The students will develop the confidence to perform various postures.

Total Number of Hrs.: 60 Theory Practical			eal Tutorial				
Credits		-	2	-			
Hts/Week	-	2	-				
SCHEME OF EXAMINATION							
Total marks: 100	Total marks: 100						
Theo	Theory:100			Practical:NA			
Final Exam (SEE)	Internal Assessment	Final Exam (SEE)		Internal			
	(CT+TA)			Assessment			
				(CT+TA/PR)			
70	30	-		-			

Unit 1: Yogic Sthulavyayama

12stepsofYogicJoggingandaseriesof12YogicPostures:MandukAsana-Variations 1&2, Shashakasana, Bakrasana, Gomukh Asana, Makarasana:- Variations 1 & 2, Bhujanga Asana Variations1,2&3,Shalbhasana-Variations1,2&3,Markatasana-Variations 1, 2&3,Pawanmuktasana-Variations1,2&3,ArdhaHalasana,PadvrirtaAsana- Variations1& 2and Dwichakrikasana- Variations 1 &2; as recommended by Swami Ramdev.Suryanamaskara.

Unit 2: Yogasana [30 hrs]

Tadasana, Vrikshasana, Urdhva-Hastottanasana, Kati Chakrasana, ArdhaChakrasana, PaadaHastasana, TrikonasanaParshvaKonasanaVeerabhadrasan, Dandasana, Swastikasana, Padmasana, ajrasana, SuptaVajrasana, Kagasana, Utkalasana, Gomukhasana, UshtrasanaShashankasana, Janusirasana, Paschimottanasana, Bhramacharyasana, Mandukasana, UtthanaMandukasana, Vakrasana, ArdhaMatsyendrasana, Marichayasana, Simhasana, Pavanamuktasana, Utlhana-padasana, ArdhaHalasana, Halasana, Setuba11dhasana, Sarvangasana, Matsyasana, ChakmsanaShavasana, Makarasana, Bhujangasana, Shalabhasana, Dhanurasana.

UNIT3:Shatkarmas [10hrs.]

Dhauti(KunjalDhauti);Neti(Jalneti,Sutraneti);Kapalbhatianditsvariants;Agnisara.

UNIT4:Pranayama[10Hrs.]

Bhastrika, Kapalbhati, Bahya, Ujjyai, Anulomvilom, Bhramari, Udgeethand Pranav as recommended by Swami Ramdev.

TEXTBOOKS

1. SwamiDhirendraBhramhachari:YogicSukshmaVyayama,DhirendraYogaPublicatio ns, New Delhi, 1980

2. SwamiDhirendraBhramhachari:YogasanaVijnana,DhirendraYogaPublications,Ne w Delhi,I966.

REFERENCEBOOKS

- 1. Swami Kuvalyananda: Asana, Kaivalyadhama, Lonavla, 1993.
- 2. Swam,SatyanandaSaraswati:Asana,Pranayama,Bandha,Mudra,Bihar Schoolof Yoga, Munger,2006.
- 3. Basavaraddi, I.V: & others: YOGASANA: A Comprehensive description about Yogasana, MDNIY, New Delhi, 2011.

4. Basavaraddi, I.V. & others: Yogic Sukshma Evam Sthula Vyayama, MDNIY, New Delhi,

COURSE DETAILS

SUBJECT TITLE: Ayurveda Practicum SUBJECT CODE: - PGDYA-CT 107

SEMESTER - I, TOTAL HOURS: 30 CREDITS: 2

Course objectives:

The teaching-learning of this paper will enable learner to-

- 1. The students will learn all the practical aspect of Shirodhara, Shiroabhyanga, Abhyanga, Udhvaetanam.
- 2. Have knowledge of Janubasti, Kati basti, Nasya, Karpooran, Nabhipooran
- 3. The students will also learn the concept of Shirobasti, Anuvasanabasti, Niruhabasti, Dhumrapana, Akshitarpan.

Course Outcomes:

- CO1. The students will well understand the various concept of Ayurveda in day to day life using ayurvedicpractice and modern day.
- CO2. The students will develop the concept of Ayurveda as well as modern science.
- CO3. Students will get training in wellness center and will directly interact with patients and develop the skill to treat them with ayurvedictreatments.

Total Number of Hrs.: 60 Theory Practical			al Tutorial			
Credits	-	2	-			
Hts/Week	Hts/Week			-		
SCHEME OF EXAMINATION						
Total marks: 100						
Theo	Theory:100			NA		
Final Exam (SEE)	Internal Assessment	Final Exam (SEE)		Internal		
	(CT+TA)			Assessment		
				(CT+TA/PR)		
		35		15		

Shirodhara, Shiroabhyanga, Abhyanga, Udhvaetanam,

Unit 2

Janubasti, Kati basti, Nasya, Karpooran, Nabhipooran,

Unit 3

Shirobasti, Anuvasanabasti, Niruhabasti, Dhumrapana, Akshitarpan.

Unit 4

Each Student has to prepare an assignment on any one of these above mention topic.

Text books

- 1. Ayurvediyapanchakarmavigyan by vaidyaShridharHaridasKaustura.
- 2. Principles and practice of panchakarma by Dr. PulakKantiKar.
- 3. Golden words on Tridosha by Dr. L Mahadevan
- 4. Principle and practice of basti karma by vaidyaVasant C patil.

SEMESTER - II

University of Patanjali, Haridwar Structure of B.Sc. (Hons) Biological Science under CBCS Core Course

COURSE DETAILS

SUBJECT TITLE: Yoga and nature cure

SUBJECT CODE: PGDYA-CT 201

SEMESTER - I, TOTAL HOURS: 60 CREDITS: 4

Course Objectives:

- 1.A PG student, at the end of this theory teaching will be able to understand the etiopathogenesis of diseases and the concept and the Pathological effect of various noncommunicable diseases and the body's capacity for healing.
- 2. Have an understanding of the common hematological disorders and the steps necessary to understand them.
- 3. Understand the pathogenesis of gastrointestinal disorders.

Course Outcomes

- CO1. The students will well understand the various concept of Pathology.
- CO2. The students will develop the understanding of hematology and gastrointestinal pathology.
- CO3. Students will learn the various prospects of pathology and related disease.

Total Number of Hrs.: 60 Theory Practical			al Tutorial			
Credits	4	-	-			
Hts/Week		4				
SCHEME OF EXAMINATION						
Total marks: 100						
Theo	Practical:50					
Final Exam (SEE)	Internal Assessment	Final Exam	(SEE)	Internal		
	(CT+TA)			Assessment		
				(CT+TA/PR)		

70 30	70	30	-	-
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Unit 1: INTRODUCTION TO YOGA THERAPY & NATUROPATHY

General introduction to Yoga therapy and Naturopathy; their definition, meaning, scope and limitations; Comparative study of the Naturopathy & Yoga therapy with other systems of Medicine. [10 hours]

Unit 2: PRINCIPLES AND CONCEPTS OF YOGA THERAPY &NATUROPATHY

Concept of Health According to WHO and Indian Systems of Medicines i.e. Ayurveda, Yoga, Naturopathy and Siddha Systems of Medicine; Utility and Limitations of these systems in health and healing. Fundamental principles of Naturopathy and Yoga Therapy [15 hours]

Unit 3: NATUROPATHY

Laws of Nature: Pancha- Mahabhootas; Introduction, definition, scope, history, principles of therapies based on 5 elements: Mud therapy, Hydrotherapy, Sun therapy, diet, massage, Upavasa (Fasting) and their role in health promotion and prevention of diseases. [10 hours]

Unit 4 YOGA THERAPY

Concepts of trigunas, pancha-mahabhutas, panchakoshas, pancha-prana, nadis, chakras, and their role in health and healing. Shuddhiprakriyas in yoga: role of shuddhiprakriyas in preventive and curative health, karma shuddhi (yama, niyama), ghatashuddhi (shatkarma), snayushuddhi (asana), pranashuddhi (pranayama), indriya and manoshuddhi (pratyahara), mana, buddhi, ahankara and chittashuddhi (dharana, dhyana and samadhi).

Therapeutic benefits of yogic shatkarma, asanas, pranayama, mudras, bandhas, pranayamas, and meditation techniques. [35 hours]

Text Books

- 1. Patanjali Research Foundation. (2015). Research Publications. Haridwar, India: DivyaPrakashan.
- 2.Ramdev, S. (2006). Yoga Sadhana and Yoga ChikitsaRahasya.Haridwar, India: DivyaPrakashan.
- 3.Ramdev, S. (2009). PranayamRahasya.Haridwar, India: DivyaPrakashan.
- 4.Balkrishna, A. (2007). Yoga in synergy with medical science. Haridwar, India: Divya Prakashan Books
- 4.Balkrishna, A. (2017). Yoga Vigyanam.Haridwar, India: DivyaPrakashan.
- 5. PreetiGoel& Rita Jain: Spectrum of Health (Sports Publications, New Delhi, 2003)
- 6. M. M. Gore: Anatomy and Physiology of Yogic Practices (New Age Books, New Delhi, 2008)
- 7. Saraswati, S. S. (1995). Asana, Pranayama, Mudra and Bandha.Munger, India: Bihar School of Yoga.
- 8. S. D. Dwivedi: Naturopathy for perfect health, Kalpaz Publication Delhi, 2002 PraveshHanda: Naturopathy and Yoga, Kalpaz Publication Delhi, 2006
- 9. S.J.Singh.: My Nature Cure or Practical Naturopathy
- 10. M.K.Gandhi: The story of my experiment with truth
- 11. R.K.Garde: Ayurvedic for Health and Long life Harry Benjamin.: Everybody's Guide to

Nature Cure.

- 12. Malshe, P. C. (2012). A Medical Understanding of Yoga (2nd ed.). Haridwar, India: AntarPrakash Center for Yoga.
- 13. Coulter, H. D. (2006). Anatomy of Hatha Yoga. Delhi, India: MotilalBanarasidas. Robin, Mel. (2009). A Handbook for Yogasana Teachers. Arizona: Wheatmark.

University of Patanjali, Haridwar Structure of B.Sc. (Hons) Biological Science under CBCS Core Course

COURSE DETAILS

SUBJECT TITLE: Complementary & Alternative Therapy

SUBJECT CODE: PGDYA-CT 202

SEMESTER – I, TOTAL HOURS: 60 CREDITS: 4

Course Objectives

The teaching-learning of this paper will enable learner to-

- 1. State concept, prevalence, objectives, types, applications and limitations of CAT.
- 2. Have knowledge & skills of therapeutics related to acupressure, pranic healing, and dietary supplements for managing some of the common health problems and rejuvenation.

Course Outcomes

- CO1. The students will well understand the various concept of complementary & alternative Therapy.
- CO2. The students will develop the skill of various naturopathy therapies like acupressure, hydrotherapy and other diseases related to health.
- CO3. Students will get training in wellness center and will directly interact with patients and develop the skill to treat them with various therapies.

Total Number of Hrs.: 60 Theory Practical			al Tutorial			
Credits		4	-	-		
Hts/Week	4	-	-			
SCHEME OF EXAMINATION						
Total marks: 100						
Theo	Practical:50					
Final Exam (SEE)	Internal Assessment	Final Exam (SEE)		Internal		
	(CT+TA)			Assessment		
				(CT+TA/PR)		
70	30	-		-		

UNIT 1

CAT: History, Meaning, Definition, Objectives, Types, Prevalence, Contemporary Need, Applications and Limitations. Mind-Body Therapy: Origin, Meaning, Definition, Aims, Principles, Factors, Impacts, Prevalence, Applications, and Limitations. [10 hours]

UNIT 2

Manipulative-Body Based Therapy (MBT): Meaning, Definition, Aims, Principles, Types, Impacts, Prevalence, Applications, and Limitations. Acupressure: Origin, Meaning, Definition, Principles, Five Elements Theory, Chi Clock Cycle, Meridian Systems and Locating Acupoints on 12 Major Meridians and Reflexology. [10 hours]

UNIT 3

Energy Medicine: History, Meaning, Definition, Types, Principles, Applications and Limitations. Pranic Healing: Origin, History, Meaning and Sources of Prana; Principles, Law of Action, & Types (Basic, Advanced, and Psychotherapy); Bio-plasmic body/Aura: structure, types and size; Energy Centers (EC): Meaning, Types (Major, Minor and Mini), Sizes, Colors, Functions and Consequences of their Dysfunctions; Ahartic Yoga & Twin Meditation, Scanning Auras or Chakras, Sweeping and Energizing Procedures. [14 hours]

UNIT 4

Acupressure &Pranic Therapeutics: Low Back Pain, Arthritis, Obesity, Diabetes, Hypertension/Hypotension, Hyper/Hypo Thyroidisim, Liver Problem, Allergy, CAD, Anemia, Hyperacidity, Irritable Bowel Syndrome, Colitis, Piles, Migraine, Insomnia, Depression, Chronic Fatigue Syndrome, Epilepsy, Anxiety, Obsessive Compulsive Disorder, Leucorrhoea, Menstrual Disorders, Impotency, Infertility, CSF, Asthma, Pneumonia, Renal Problem, Varicose Veins, Distress, and Myopias. [14 hours]

UNIT 5

Biologically Based Products (Dietary Supplements & Herbal Remedies) Probiotics and Prebiotics, Antioxidants, Glucosoamine Sulfate, Gultamine, Selenium, Curcumin, Multivitamins and their Natural Sources, Omega-3 Fatty Acid and Tryptophan; their Functions and natural Sources; Rejuvenating & De-stressing Herbs: Basil, Allovera, Awala, Giloya, Tea, Mint, Peppermint, Ashwagandha, Satabari, KaunchBeej, Brahmi, Sankhapuspi, Jatamasi, MithiBuch and; their usages. [12 hours]

Text Books

- 1. Acharya, B. (2004). AusadhDarshan. Haridwar, India: DivyaPrakashan.
- 2. Acharya, B. (2005). Ayurveda Jadi-butiRahasya. Haridwar, India: DivyaPrakashan.
- 3. Brahmabarchas. (2003). NidanChikitsa. Haridwar, India: Ved Mata Gayatri Trust.
- 4. N. R., Walker, B. R. & Ralston, S. H. (2010). Davidson's Principles & Practice of Medicine (21st ed.). China: CHURCHILL LIVINGSTONE, ELSEVIER.
- 5. Holford, P. &Burne, J. (2007). Food is better medicine than drugs. Great Britain: Piatkus.
- 6. Holford, P. (2014). Good Medicine. Great Britain: Piatkus.
- 7. Joshi, S. A. (2011). Nutrition and dietetics with Indian case studies. New Delhi, India: Tata McGraw-Hill.
- 8. Lian, Yu-Lin; Chen, Chun-Yan; Hammes, M. &Kolster, B. C. (2005). Pictorial atlas of

- acupuncture: An illustrated manual of acupuncture points.
- 9. Solvenia: h. f. ullmann. Micozzi, M. S. (2015). Fundamentals of complementary and alterntive medicine (5th ed.). China. ELSEVIER SAUNDERS.
- 10. Patanjali Research Foundation.(2015). Research Publications.Haridwar, India: DivyaPrakashan.
- 11. Peeters, J. (2008). Reflexology. Bath BAIIHE, UK: Paragon.
- 12. Ramdev, S. (2006). Yoga Sadhana and Yoga ChikitsaRahasya.Haridwar, India: DivyaPrakashan.
- 13. Ramdev, S. (2009). PranayamRahasya. Haridwar, India: Divya Prakashan.
- 14. Sah, R. L., Joshi, B., & Joshi, G. (2002). Vedic health care system. New Delhi, India: New Age Books.
- 15. Sharma, S. (1998). JivemSaradmSatam. Mathura, India: AkhandJyotiSamsthan.
- 16. Sharma, S. (2010). GayatriMahavijyan (Combined and revised ed.). Mathura, India: YugNirmanYojanaBistar Trust.
- 17. Sui, M. C. K. (2002). Miracle through pranic healing (3rd ed.). New Delhi, India: All India Pranic Healing Foundation.
- 18. Sui, M. C. K. (2005). Advanced pranic healing. Banglore, India: World India Pranic Healing Foundation-India.
- 19.Sui, M. C. K. (2005). Pranic Psychotherapy (2nd ed.). Banglore, India: World India Pranic Healing Foundation-India.
- 20. Yogananda, P. (2011). Journey to self-realization. Kolkata, India: YogodaSatsang Society of India.
- 21. Mohan, H. (2010). Textbook of pathology (6th ed.). New Delhi, India: JAYPEE BROTHERS MEDICAL PUBLISHERS (P) LTD.
- 22. Sharma, S. (2013). ChikitsaUpcharKeVividhAyam (2nd ed.). Mathura, India: AkhandJyotiSamsthan.
- 23. Sharma, S. (2013). NirogJeevanKeMahatopurna Sutra (2nd ed.). Mathura, India: AkhandJyotiSamsthan.
- 24. Sharma, S. (2013). PranChikitsa (2nd ed.). Mathura, India: AkhandJyotiSamsthan.
- 25. Sharma, S. (2006). Diagnose, cure and empower yourself by the currents of breath. Haridwar, India: ShriVedmataGayatri Trust.
- 26. Yuan, Chun-Su., &Bieber, E. J. (2003). Textbook of complementary and alternative medicine. New York, NY: The Parthenon Publishing Group.

University of Patanjali, Haridwar Structure of PostGraduate Diploma in Yoga and Ayurveda Core Course

COURSE DETAILS

SUBJECT TITLE: Important Indian Medicinal Herbs

SUBJECT CODE: - PGDYA-CT 203

SEMESTER - I, TOTAL HOURS: 60 CREDITS: 4

Course Objectives:

- 1. This paper will provide knowledge and skills about various herbs
- 2. They will learn to identification the plants and their medicinal properties.
- 3. Students will also learn the physical, chemical properties of Indianherbs.
- 4. Students will learn the role of medicinal plants in ayurveda.

Course Outcomes

- CO1. The students will well understand the various concept of herbal medicine.
- CO2. The students will understand the concept of Ayurveda and role herbs in traditional medicine system.
- CO3. Students will get training in PHRD center and will directly interact with researcher's and develop the skill for the use of herbs.

Total Number of Hrs. :	60	Theory Practical Tute		cal Tutorial	
Credits	4				
Hts/Week	4				
SCHEME OF EXAMINATION					
Total marks: 100					
Theory:100		Practical:NA			
Final Exam (SEE)	Internal Assessment	Final Exam (SEE)		Internal	
	(CT+TA)			Assessment	
				(CT+TA/PR)	
70	30	-		-	

Unit-1

The Physical, chemical and medicinal properties of the following herbal plants Amla

Ashwagandha

Brahmi

Giloye

Unit-2

The Physical, chemical and medicinal properties of the following herbal plants

GoharuChota

GwarpathaGhritkumari (Aloevera)

Isabgol

Harad (Haritaki)

Unit -3

The Physical, chemical and medicinal properties of the following herbal plants

Neem-nimb

Nirgundi

Shankhapushpi

Unit-4

The Physical, chemical and medicinal properties of the following herbal plants

Shatavar

Triphla

Tulsi

Text Book:

- 1. Secrets of Indian Herbs for Good Health, AcharyaBalkrishna, DivyaPrakashan.
- 2. VanaspatiAushadhVighyan (A Complete Book of Indian Medicinal Herbs) (Hindi), Ramesh Kumar Bhutya (2007).

COURSE DETAILS

SUBJECT TITLE: Basics of Healthy Living

SUBJECT CODE: - PGDYA-CT 204

SEMESTER - I, TOTAL HOURS: 60 CREDITS: 4

Course Objectives:

The teaching-learning of this paper will enable learner to-

- 1. State concept, prevalence, objectives, types, applications and limitations of various hygine concepts.
- 2. Have knowledge of infection and related diseases such as Malaria, Dengue, Dysentery, cholera, typhoid and Chicken pox, measles, mumps etc and also develop the concept of Immunity too.
- 3. Students will also learn the concept of ayurveda such as Swasthavritta, Dincharya (Daily regimen) &Ratricharya, Ritucharya and Aggravation and Pacification of three Humors (vata, pitta, kapha).

Course Outcomes

- CO1. The students will well understand the various concept of hygiene in day to day life using ayurveda and modern science.
- CO2. The students will develop the concept of Ayurveda as well as modern science.
- CO3. Students will get training in wellness center and will directly interact with patients and develop the skill to treat them with proper hygiene and ayurvedic concept.

Total Number of Hrs.:	Total Number of Hrs. : 60			al Tutorial		
Credits		4				
Hts/Week	4					
	SCHEME OF EXAMINATION					
Total marks: 100						
Theory:100		Practical:NA				
Final Exam (SEE)	Internal Assessment	Final Exam (SEE)		Internal		
			(2)	III ci iidi		
	(CT+TA)		(522)	Assessment		
	(CT+TA)					

Unit: 1 INTRODUCTION TO HEALTH AND HYGIENE

Personal hygiene, Definition of health and factors; affecting it- food habits, cleanliness, exercise and sleep; Water – Importance of water, impurities present in water, sources of contamination of water and water purification (Household and natural methods); First aid: meaning, importance in daily life.

Unit: 2 INFECTION AND DISINFECTANTS

Infection – Definitions of Infection, Infective agents, Period of infectivity; Types of diseases and their modes of spread; Channels of infection; disinfectants – Definition, types and methods of disinfection.

Unit: 3INFECTIOUS DISEASES

Infectious diseases - Causes, incubation period, mode of spread, symptoms, prevention & control of the following diseases); Diseases spread by insects -Malaria, Dengue; Diseases spread by ingestion - Dysentery, cholera, typhoid; Diseases spread by droplet infection - Chicken pox, measles, mumps; Disease spread by Contact - Leprosy, AIDS. Immunity - Definition, types of immunity & immunization schedule Common emerging health problems among women: Cancer of Breast and Cervical.

Unit:4Health and hygiene in Ayurveda

Swasthavritta: Meaning, Definition, Aims and Aspects; Wellness: Meaning, Definition, Indicators and dimensions; Dincharya (Daily regimen) &Ratricharya (Night Regimen): Meaning, Definition and sequential elements with their practical applications; Ritucharya (Seasonal Regimen): Meaning, Definition, Types with their sailent features, Seasonwise Accumulation, Aggravation and Pacification of three Humors (vata, pitta, kapha); Seasonwise Do's and Don'ts; Application of Dincharya, Ratricharya and Ritucharya for health promotion, rejuvenation, disease prevention and age reversal. A General Introduction of treatments methods used in Ayurveda

TEXT BOOKS

- 1. Yash pal Bedi (1976) Hygiene & Public Health. Anand Publishing Co., gali No. 1, NawanKot Amritsar.
- 2. V. N. Hhave, (1975) You & Your Health.. National Book Trust
- 3.BihariLal Bhatia, (1961) Elementary. Hygiene, Orient Longmans, Ltd. Calcutta -13
- 4. J.E. Park, (1983) Prenentive& Social Medicine, Jabalpur MessrsBanarcidasBhanot
- 5. BirendraNathGhosh, (1969) Hygiene & Public Health Calcutta Scientific Publishing Co.
- 6. Secrets of health and longevity. Dr. OmkarNath

University of Patanjali, Haridwar Structure of B.Sc. (Hons) Biological Science under CBCS Core Course

COURSE DETAILS

SUBJECT TITLE: Disease specific Pathology

SUBJECT CODE: PGDYA-CT 205

SEMESTER - I, TOTAL HOURS: 60 CREDITS: 4

Objectives:

- **1.** A PG student, at the end of this theory teaching will be able to understand the etio-pathogenesis of diseases and the concept and the Pathological effect of various non-communicable diseases and the body's capacity for healing.
- 2. Have an understanding of the common haematological disorders and the steps necessary to understand them.
- 3. Understand the pathogenesis of gastrointestinal disorders.

Course Outcomes

- CO1. The students will well understand the various concept of Pathology.
- CO2. The students will develop the understanding of hematology and gastrointestinal pathology.
- CO3. Students will learn the various prospects of pathology and related disease.

Total Number of Hrs. : 60		Theory	Practio	cal Tutorial	
Credits	Credits		4		
Hts/Week	4				
SCHEME OF EXAMINATION					
Total marks: 100					
Theory:100		Practical:50			
Final Exam (SEE)	Internal Assessment	Final Exam	(SEE)	Internal	
	(CT+TA)			Assessment	
				(CT+TA/PR)	
70	30	-		•	

Unit-1: Introduction to pathology [10Hours]

Importance of the study of pathology; Definition of terms; Methods and techniques; Cellular and Tissue changes; Infiltration and regeneration; Inflammations arid Infections; Wound healing; Vascular changes; Cellular growth, Neoplasms; Normal and Cancer cell; Benign and Malignant growths; Carcinoma Disturbances of fluid and electrolyte imbalance.

Unit-2: Hemodynamics changes [15 Hours]

Oedema, Shock, Thrombosis, Embolism, Infarction; Neoplasia: Cell cycle, Hyperplasla, Metaplasia, Hypertrophy, Atrophy, Nomenclature (classification of tumours), Differences between begin and malignant tumours, Aetiopathogenesis of neoplasia (cancer), Signs of malignancy, Chemical and physical carcinogens, Biological carcinogens (RNA & DNA viruses), Spread of tumours (Metastasis), Dysplasia (Carcinoma in-situ), Lab diagnosis of cancer.

Unit-3: Haematology [20Hours]

Normal Haematopoiesis, Bone marrow examination, Anaemia (Classification of anaemia); 2.Iron deficiency anaemia, Vitamin 1312 deficiency anaemia (megaloblastIcanaemia), Pernicious anaemia, Haemolyticanaemia (inherited disorders & acquired), Hereditary Spherocylosis, Hereditary Elliptocytosis, Immune Haemolyticanaemia, Thalassemia, Sickle cell anaemia, Apiasticanaemia, Polycythaumia; Agranulocytosis, Leucocytosis — Leukcpenla, Leukemoid, Reaction; Leukaemia Lymphomas (Hodgkin's & non-type Hodgkin's; Normal Coagulation mechanism; ThromboCytopenia (I1P); Haemophilia; Christmas Disease—Haemophilia B; Vonwillebrnads disease; DIC (Disseminated Intravascular Regulation), Rh Incompatibility

Unit-4:Gastrointestinal pathology [15 Hours]

Typhoid, Tuberculosis, Crohn's disease, Appendicitis; Inflammatory diseases of appendix and large Amoebi: colitis, Bacillary dysentery; Ulcerative Colitis; Ischemic and:s:.2udomeenbranous enterocolitis, diverticulosis; Malabsorption: Celiac disease, Tropical and other causes; Jaundice Types, Pathogenesis arid Differentiation; Hepatitis: Acute and Chronic Etiology, Pathogenesis and pathology; Cirrhosis: Ateiology, Post necrotic, Alcoholic, Metabolic, Pathology, Morphology ((Macronodular, Micronodular, Mixed), complications; Portal Hypertension: Types including non-cirrhotic portal fibrosis and manifestations.

Text Books

- 1. Pathologic basics of disease- Kumar, cortan-Saunders Collins
- 2. Basic Pathology- Kumar, cortan-Saunders

- 3. Text book of Pathology-Andersons-C.V. Mosby Volume I & II Company
- 4.General Pathology- Walter & Israel
- 5. Clinical Laboratory Methods-RAmniksood-Jaypee
- 6.G.C.DeGruchy Clinical-David Penington-CBS Publishers & Haematology in medical
- 7.Bryan Rush Distributors Peter Castaldi
- 8. Illustrated Pathology-Govans-ELBS Edition 1992

COURSE DETAILS

SUBJECT TITLE: Yoga Practicum-II SUBJECT CODE: - PGDYA-CT 206

SEMESTER - I, TOTAL HOURS: 60 CREDITS: 4

Course objectives:

Following the completion of the course, students shall be able to:

- 1. State techniques, health benefits, applications, precautions and contraindications of under mentioned yogic practices.
- 2. To demonstrate and instruct under mentioned yogic practices.

Course Outcomes:

CO1. The students will well understand the various concept of yoga in day to day life using various asanas.

CO2. The students will develop the concept of yoga and their postures.

Total Number of Hrs. : 60		Theory Practical Tuto				
Credits		- 2 -				
Hts/Week	Hts/Week			-		
	SCHEME OF EXAMINATION					
Total marks: 100						
Theory:100		Practical:NA				
Final Exam (SEE)	Internal Assessment	Final Exam (SEE)		Internal		
	(CT+TA)			Assessment		
				(CT+TA/PR)		
70	30	-		-		

UNIT1:Shatkarmas(IOHrs.)

Dhauti(Kunjal), Vastradhauti, Dandadhauti,

LaghooandPoornasankhaprakshalana,Neti(Sutra and Jala), Kapalbhati, Agnisara,

Nauli

UNIT2:Warmupyogicexercises[10Hrs.]

 $Yogic Jogging, 12 Health promoting postures as recommended by Swami Ramdev, \\Suryanamaskar practice classically and invaried forms for prevention and the rapy.$

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Unit 3: Asanas Yogic Postures [30 hrs.]

Standing Postures: ArdhakatichakrasnnaHastapadasana, Ardhachakrasana, Trikonasana, katichakrasnaParivrittalrikonasana, Parsvakanasana, Veersana,

Sitting

Postures:Paschimottanasana,suptavajrasana,ardhamatsyendrasana,vakrasana, marichasana,malasana, mandukasana, vakrasana, badhakanasana, merudandasana, akamadhanurasana, gumukhasana,Chakkiasana.

PronePosture: Bhujangasana, sarpasana, naukaasana, Salabhasana, Ohanurasana, Urdhvamukhosvanasana, Makarasana,

SupinePostures: Halasana, Chakrasana, Sarvangasana, Matsyasana, Shavasana, Setubandhasana, pad vritta asana, cycling.

Balancing Postures: Vrikshasana, vakasana, Garudasana, Namaskarasana, Tittibhasana, Natrajasana

UNIT4:Pranayama(10Hrs.]

Breathawareness, Diaphragmatic breathing, Abdominal breathing, Bhastrika, Kapalbhati, Anulomvilom, Nadisodhan, Bahya, Ujiyai, Bhramari, Udgeeth, Ujiai, Sitali, Sitkari, Suryabhedi.

TEXTBOOKS:

- 1. Balkrishna, A. (2007). Yogainsynergywith medicalscience. Haridwar, India: Divya Prakashan Books
- 2. Balkrishna, A. (20J7). Yoga Vigyanam. Haridwar, India: Oivya Prakashan.
- $3.\ Patanjali Research Foundation. (2015). Research Publications. Haridwar, India: Divyanta and Publications and Publicatio$

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Prakashan Ram dev, S. (2006). Yoga Sadhana and Yoga Chikitsa Rahasya. Haridwar, Indian sadhana sadhana and Yoga Chikitsa Rahasya. Haridwar, Indian sadhana sadha

ndia: DivyaPrakashan.

- 5. Ramdev, S. (2009). Pranayam Rahasya. Haridwar, India: Divya Prakashan.
- 6. YogaforPromotionofPositiveHealth,byDrRNagarathna, DrHRNagendra Published by SVYP, 2002

University of Patanjali, Haridwar Structure of Post graduate diploma of yoga and Ayurveda

COURSE DETAILS

SUBJECT TITLE: Pathology Practicum SUBJECT CODE: - PGDYA-CT 207

SEMESTER - I, TOTAL HOURS: 60 CREDITS: 4

Course objectives:

The teaching-learning of this paper will enable learner to-

- 1) Students will understand the concept of Blood groups (ABO system); Estimation of hemoglobin; Enumeration of RBCs (RBC count); Total leucocyte count (Total count);.
- 2) Have knowledge of Differential leucocyte count (DC); Peripheral smear staining and reporting; Absolute eosinophil count.
- 3. Students will also learn the concept of Anemia: Hemograms in anemia, Iron deficiency anemia, Macrocytic anemia, Microcytic anemia, Hemolytic anemia

Course Outcomes:

- CO1. The students will well understand the various practical concept of Pathology.
- CO2. Students will get training in the Ayurveda college pathology lab and will directly get the lab practices.

ido praetices.					
Total Number of Hrs.:	60	Theory Practical Tut			Tutorial
Credits		-	- 2 -		
Hts/Week	- 2 -			-	
	SCHEME OF EXAM	INATION			
Total marks: 100					
Theory:100		Practical:NA			
Final Exam (SEE)	Internal Assessment	Final Exam	(SEE)		nternal
	(CT+TA)			Ass	sessment
				(CT	+TA/PR)
70	30	_			-

UNIT 1: Hematology –I [15 Hrs] Blood groups (ABO system); Estimation of hemoglobin; Enumeration of RBCs (RBC count); Total leucocyte count (Total count);

UNIT 2: Hematology-II [15 Hrs.] Differential leucocyte count (DC); Peripheral smear staining and reporting; Absolute eosinophil count

UNIT 3: Anemia-I [15 Hrs.] Anemia: Hemogramsin anemia, Iron deficiency anemia, Macrocytic anemia, Microcytic anemia, Hemolytic anemia

UNIT 4: Demonstration [15 Hrs.] All candidates are expected to demonstrate the Unit-I experiments and explain the same in the practical records.

Text Books:

Practical Manual by Harsh Mohan Medical Laboratory Technology–RamnikSood