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Syllabus of B.Sc. in Yoga

Effective from academic session 2023-2024

SYLLABUS

SEMESTER-I

HUMAN ANATOMY & PHYSIOLOGY

Sub Code: FYBSY 101

Credits: 5

MODULE 1: Introduction to Human Anatomy and Physiology

- ✓ Introduction to Human Anatomy and Physiology,
- ✓ Basic Anatomical and Physiological terminologies.
- ✓ Introduction to cell, tissue, organs and systems.
- ✓ Basic cell Physiology, Cell Organelles, Cell membrane,
- ✓ Tissues and Organization of human system; Introduction to Support Systems
- ✓ Maintenance Systems, Control Systems, Defense System and Concept of Homeostasis.

MODULE 2: Musculoskeletal System.

- ✓ Introduction to musculoskeletal system
- ✓ Skeleton names of all bones, joints and muscles, cartilage, tendon and ligaments, types of bone.
- ✓ Structure and function of joint.
- ✓ Types of Muscles in the body.
- ✓ The characteristics musculoskeletal system,
- ✓ Structure & functions of musculoskeletal system.

MODULE 3: Digestive System.

- ✓ Introduction to digestive and excretory system:
- ✓ Anatomy of digestive system, excretory system (component organs) and their functions;
- ✓ Gastro intestinal system- General structure of alimentary canal.

MODULE 4: Urinary system.

- ✓ Introduction to urinary system.
- ✓ Anatomy of urinary tract,

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- ✓ Functions of kidney and urinary tract, physiology of urine formation, micturition reflex.
- ✓ Role of kidneys in acid base balance, role of RAS in kidney and disorders of kidneys.

MODULE 5: Respiratory System.

- ✓ Components of cardiovascular and respiratory system; functions of cardiovascular and respiratory system;
- ✓ Respiratory System-Mechanism of breathing, Ventilation, Regulation of respiration, Transport of gases, Non respiratory functions of the lungs

MODULE 6: Blood & Lymphatic system.

- ✓ Concept of blood & lymphatic system
- ✓ Composition of blood corpuscles RBC, WBC and Platelets.
- ✓ Blood: Composition and Functions, Blood groups and their importance.
- ✓ Lymphatic system and its role in immune system.

MODULE 7: Cardiovascular System.

- ✓ Functional anatomy of the Heart, arteries, veins and capillaries.
- ✓ The organization of systematic and pulmonary circulation, the cardiac cycle.
- ✓ Cardiac output and Venous return.
- ✓ Blood pressure and Regulation of blood pressure.

MODULE 8: Nervous System.

- ✓ An introduction to Histology nerve structure and properties of neurons nerve action potential –
- ✓ Functional anatomy of Cerebrum, Cerebellum, spinal cord.
- Nervous system and glands: Structure and properties of neurons, subdivisions of nervous system and their functions, types of glands (endocrine and exocrine glands), important endocrine and exocrine glands and types of hormones their functions.
- ✓ Sensory nervous system, Motor nervous system, Higher functions of the nervous system.

MODULE 9: Special Senses.

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✓ Functional anatomy and physiology of eyes, ears, nose, tongue and skin.

MODULE 10: Endocrine System.

✓ Anatomical structure of important endocrine glands (Pituitary, thyroid, parathyroid, pancreas, adrenal and gonads). Short anatomy

MODULE 11: Reproductive system.

- ✓ Functional anatomy male reproductive system.
- ✓ Functional anatomy male reproductive system.

REFERENCE BOOKS:

- 1. Evelyn C Pearce: Anatomy and Physiology for Nurses (Jaypee Brothers, New Delhi, India, 1997)
- 2. Gore, M.M.: Anatomy and Physiology of Yogic practices (KanchanPrakshan, Lonavala, 2003)
- 3. Shirley Telles: A Glimpse of the Human body. (V K YOGAS, Bangalore, 1995)
- 4. Sri Krishna: Notes of Structure and Functions of Human Body and Effects of Yogic practices on it (Kaivalydhama
- 5. S.M.Y.M. Samiti, Lonavala, 1988)
- 6. Charu, Supriya: Sarir Rachana evam Kriya Vigyan
- 7. Peter L Williams & Roger Warwic : Gray's Anatomy (Churchill Livingstone, Edinburgh London 1988)
- 8. Chatterjee CC: Human Physiology (Vol, I & II) (Medical Allied Agency, Calcutta 1992)
- 9. G Gerand J Tortora: Principles of Anatomy and Physiology and Sandra Reynolds (Harper Collins College
- 10. Publishers, New York, 1992)
- 11. M Prives, N Lysenkov & V Bush Kouch: Human Anatomy
- 12. Alma R Guinnes: ABC's of the Human Body (Readers Digest, USA 1987)

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INTRODUCTION TO INDIAN PHILOSOPHY & YOG ABHYASHA-I

Sub Code: FYBSY 102 & FYBSY 192

Credits: 3T+2P

MODULE 1: Vedas and Upanisads

- ✓ Meaning of 'Veda'.
- ✓ Name of four Vedas.
- ✓ Four parts of each Vedas.
- ✓ Six Vedangas
- ✓ Four Upavedas
- ✓ Meaning of Upanishads.

MODULE 2: Sankhya and Yoga

- ✓ Introduction to Sankhya,
- ✓ Introduction to Yoga

MODULE 3: Charvaka, Jainism & Buddhism

- ✓ Concept of Charvaka Philosophy.
- ✓ Concept of Jainism.
- ✓ Concept of Buddhism.

MODULE 4: Nyaya & Vaisesika

- ✓ Concept of Nyaya Philosophy.
- ✓ Concept of Vaisesika Philosophy.

MODULE 5: Mimamsa Uttara Mimasa:

- ✓ Concept of Purva mimamsa
- ✓ Concept of Uttara mimasa

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INTRODUCTION TO INDIAN PHILOSOPHY & YOG ABHYASHA-I

Sub Code: FYBSY 192

Credits: 3T+2P

Opening Incantation

Chalana Kriya / Loosening Practice (Technique, Contraindications and Benefits):

- ✓ Neck Movement (Griva Shakti Vikasaka)
- ✓ Shoulder Movement
- ✓ Trunk Movement (Kati Shakti Vikasaka)
- ✓ Knee Movement

Yogasana

- ✓ Standing Posture-
 - > Tadasana,
 - > Vrikshasana,
 - > ArdhaChakrasana,
 - > Padahastasana,
 - > Trikonasana.
- ✓ Sitting Posture-
 - ➤ Bhadrasana,
 - > Vajrasana,
 - > Ardha-Ushtrasana, (for beginners)
 - > Ushtrasana,
 - > Shashankasana,
 - Mandukasana,
 - > Uttanamandukasana,
 - > Vakrasana / Marichyasana
- ✓ Prone Posture-
 - Makarasana,
 - > Bhujangasana,
 - > Shalabhasana.
- ✓ Supine Posture-

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- > Setubandhasana,
- > Uttanapadasana,
- > Ardhahalasana,
- > Pawanamuktasana,
- > Shavasana.

Kapalabjati

Pranayama

- ✓ AnulmoaViloma/NadiShodhana
- ✓ Shitali (without Kumbhaka)
- ✓ Bhramari (without Kumbhaka)

Closing Prayer

REFERENCE

- 1. Chandradhar Sharma: A critical Survey of Indian Philosophy (Motilal Banarsidass Publishers, Delhi 2000)
- 2. Kerala Werner: Yoga and Indian Philosophy (Motilal Banarsidass, Delhi, 1979)
- 3. Radhakrishnan, S: Indian Philosophy (Vol. I & II)
- 4. Swami Prabhavananda : Spiritual Heritage of India (English) (Sri Ramkrishna Math, Madras, 2004)
- 5. Dasgupta, S.N.: Yoga Philosophy in Relation to other Systems of Indian thought (University of Calcutta, Calcutta,
- 6. 1924)
- 7. Sharma Chandradhar: A critical Survey of Indian Philosophy (Motilal Banarsidass, Delhi, 2000)
- 8. Raja, Kunhan C: Some fundamental Problems in Indian Philosophy (Motilal Banarsidass, Delhi, 2000)
- 9. Stace, W.T.: Mysticism and Philosophy (Macmillan and Co. London, 1961)
- 10. Dasgupta, S.N.: Hindu Mysticism (Motilal Banarsidass, Delhi, 1927)
- 11. Swami SatyanandaSaraswati: Asana, Pranayama, Mudra, Bandha (Yoga Publications Trust, Munger, Bihar, India).
- 12. Swami MuktibodhanandaSaraswati: Hatha Yoga Pradeepika, Yoga Publications Trust (Munger, Bihar, India).
- 13. Light on Yoga: B K S lyengar
- 14. QCI Ministry of AYUSH.

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SEMESTER-II

YOGA PHILOSOPHY

Sub Code: FYBSY 201

Credits: 5

MODULE 1: Fundamentals of Yoga

- ✓ History and various schools of yoga
- ✓ History and Development of Yoga; Meaning & Definitions, Misconceptions, Aim and
 Objectives of Yoga.

MODULE 2: Different types of yoga

- ✓ Karma Yoga
- ✓ Bhakti Yoga
- ✓ Raja Yoga
- ✓ Jnana Yoga

MODULE 3:

- ✓ Concept of Prasthanatrayee;
- ✓ Concept of Purushartha Chatushtaya;
- ✓ Trigunas, Sarirtraya

MODULE 4:

✓ Fundamental concept of Advitya Vedanta

MODULE 5: Sankhya and Yoga

- ✓ Introduction, 3-fold afflictions, means to overcome afflictions, 25 entities according to Sankhya.
- ✓ Existence of purusa, plurality of purusa, proximity of purusa and prakrti; Karna, Antah karana & Bahya Karana accordingto Sankhya Karika and isavrkrishna.

REFERENCE BOOK

- 1) Woods, J.H.: The Yoga System of Patanjali (M.L.B.D., Delhi, 1988)
- 2) Rukmini T.S.: Yoga Vartika of Vijnanbhikshu (Tr.) Vol I,II,III & IV (Munshiram Manoharlal Pvt. Ltd. New Delhi)
- 3) Swami Omanandatirtha: Patanjala Yoga Pradeepa (Geeta Press, Gorakhapur, 1994)
- 4) Swami Anant Bharati: Patanjali Yoga Shasta- a study (Hindi) (Swami Keshwananda

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Yoga Sangthan, Delhi)

- 5) Burley, Mikel: Hatha Yoga, Its Context Theory and Practice (M.L.B.D. Delhi, 2000)
- 6) Burnier, Radha: Hathayoga Pradipika of Svatmarama (The Adyar Library publications, Chennai. 2000)
- 7) Woodroffe, Sir John 6. Bharati, Veda: The Serpent power. (Ganesh & Company, Madras, 2000)
- 8) Bharati, Veda: Philosophy of Hatha Yoga (English) (Himalayan International Institute of Yoga Science and Philosophy, 1998, 2nd Rev. ed. Pennsylvania).
- 9) Mr Dwivedi: Nath Sampradaya of Hatha Yoga, Publications, Hindustani Academy, Allahabad, Utter Pradesh, 1950)

SEMESTER-II

YOG ABHYASA II

Sub Code: FYBSY 202 & FYBSY 292

Credits: 3T+2P

Yogic Practices – Shatkarma, Asana, Shaktivikashaka

MODULE 1: Shatkarmas:

- ✓ Vamandhauti,
- ✓ Vastradhauti,
- ✓ Dandadhauti,
- ✓ Laghoo and Poorna sankhaprakshalana,
- ✓ Neti (Sutra and Jala),
- ✓ Kapalbhati (Vaatkrama, Vyutakrama & Sheetkarma),
- ✓ Agnisara,
- ✓ Nauli,
- ✓ Tratak.

MODULE 2: Pawanmuktasana series:

✓ Pawanmuktasana series - I

MODULE 3: Pawanmuktasana series:

✓ Pawanmuktasana series - II

MODULE 4: Pawanmuktasana series:

✓ Pawanmuktasana series - III

MODULE 5: Shakti Vikashika Practices:

✓ The full series with in depth understanding

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REFERENCE BOOKS:

- 1) Swami SatyanandaSaraswati: Asana, Pranayama, Mudra, Bandha (Yoga Publications Trust, Munger, Bihar, India).
- 2) Swami MuktibodhanandaSaraswati: Hatha Yoga Pradeepika, Yoga Publications Trust (Munger, Bihar, India).
- 3) Light on Yoga: B K S Iyengar