SRI VENKATESWARA UNIVERSITY B.Sc. DEGREE COURSE IN PARAMEDICAL TECHNOLOGY

(Syllabus under CBCS w.e.f. 2020-21)

PARAMEDICAL



(With Learning Outcomes, Unit-wise Syllabus, References, Co-curricular Activities & Model Q.P.)

(To be Implemented from 2020-21 Academic Year)

Domain Subject: MARKET ORIENTED COURSE PARAMEDICAL SCIENCE

Activities, References & Model Q.P For Five Courses of 1, 2, 3, 4 & 5 Semesters)

"The domain subject "PARAMEDICAL SCIENE", embracing the fields of human anatomy, human physiology, bio chemistry and hematology and microbiology. This course is meat for providing employment opportunities for the graduates in the paramedical sector.

GENERAL CURRICULAR ACTIVITIES

Lecturer-based:

- 1) **Class-room activities**: Organization of Group discussions, question-answer sessions, scientific observations, use of audio-visual aids, guidance programmes, examination and evaluation work (scheduled and surprise tests), quizzes, preparation of question banks, student study material, material for PG entrance examinations etc.
- 2) **Library activities**: Reading books and magazines taking notes from prescribed and reference books and preparation of notes on lessons as per the syllabus; Reading journals and periodicals pertaining to different subjects of study; Making files of news-paper cuttings etc.
- 3) **Lab activities**: Organization of practicals use of virtual laboratory , maintenance of lab attendance registers/log registers, maintenance of glassware and chemicals
- 4) **Activities in the Seminars, workshops and conferences**:Organization of at least one seminar/workshop/conference per academic year either on academic/research aspects and inculcate research spirit among students
- 5) **Research activities**: Student study projects (General / RBPT model), Minor or Major research projects, Research guidance to research scholars, Publication of research articles/papers (at least one in 2 years) in UGC-recognized journals, Registration in Vidwan/Orcid/Scopus/Web of Science
- 6) **Smart Classroom Activities**: Organization of Departmental WhatsApp groups, Ed Modo groups/Google Class Rooms/Adobe Spark groups for quick delivery of the subject; Preparation of Moocs content & presentation tube lessons by trained lecturers; Using smart/digital/e- class rooms (mandarory) wherever present; Utilization of YouTube videos (subject to copy rights) etc.

4 Student-based:

- 1) Class-room activities: Power point presentations, seminars, assignments
- 2) Library activities: Visit to library during library hour and preparation of notes
- 3) Lab activities: Maintenance of observation note book and record, keeping lab clean and tidy
- 4) **Activities in the Seminars, workshops and conferences**:Participation/presentation in seminar/workshop/conference

CO-CURRICULAR ACTIVITES

OBJECTIVES:

The co-curricular activities are aimed at strengthening the theoretical knowledge with an activity related to the content taught in the class room. The aesthetic development, character building, spiritual growth, physical growth, moral values, creativity of the student.

The different types of co-curricular activities relevant to Sericulture domain are listed below:

♣ Academic – based

- Preparation of Charts/Clay or Thermocol Models
- Debates, Essay Writing Competitions
- Group Discussions
- Departmentalmagazine
- Formation of Book clubs
- Paramedical importance album-making
- Viva-Voce

Lab/Research –based

- Documentaries
- Field Visit/Excursions/to Paramedical centres
- Training at paramedical centres
- Exposure to scientific instruments and hands-on experience

♣ Value - based

 Organization of works shop with the doctors from the primary health centres for awareness on the role of paramedics in the Medical & healthsector

➤ Observation of Days of National/International Importance

World Cancer Day (February 4th)	International Biological Diversity Day (May 22nd)
Darwin Day (February 12th)	World Turtle Day (May 23rd)
National Science Day (Feb 28th)	World blood Donor Day (June 14th)
World Wildlife day (March 3rd)	World Zoonoses Day (July 6th)
National Vaccination Day (March 16th)	World Mosquito Day (August 20th)
World Health Day (April 7th)	World Turtle Day (May 23rd)
Earth Day (April 22nd)	World Mosquito Day (August 20th)
Malaria Day (April 25th)	World Animal day (October 4th)
World Hepatitis Day (May 19th)	World Fisheries Day (November 21)
National Doctors Day (July 1)	Blood Donor's Day- (June 14)

SRI VENKATESWARA UNIVERSITY B.Sc. DEGREE COURSE IN PARAMEDICAL TECHNOLOGY

FIRST YEAR - FIRST SEMESTER (Syllabus under CBCS w.e.f. 2020-21)

Core Course Paper-I: HUMAN ANATOMY

(Total hours of teaching – 60 @ 04 Hrs./Week)

Course Outcomes: By the completion of the course the graduate should able to –

CO1: Explain the different types of cells and Tissues

CO2: Explain the mechanism of digestion, absorption & breathing

CO3:Describe the cardiovascular and excretory systems

CO4: Explain the hepatobiliary and endocrine regulations

CO5: Describe the neurotransmitters ,male and female genitals

Learning objectives

- 1. To understand the concept different types of cells and Tissues
- 2. To understand the mechanism of digestion, absorption & breathing.
- 3. To understand the cardiovascular and excretory systems .
- 4. To understand the hepatobiliary and endocrine regulations.
- 5. To understand the neurotransmitters ,male and female genitals

SYLLABUS

UNIT-1

- 1.1Cell and its structure,
- 1.2Cell organelles and its functions,
- 1.3Types of cells- Eukaryotic, Prokaryotic and its difference,
- 1.4 Tissues- types, properties, differences.

UNIT-2

- 2.1 Digestion & Absorption.
- 2.2 Breathing Exchange of Gases.

UNIT-3

- 3.1 Excretory System Excretory Products and their Elimination.
- 3.2 Cardio Vascular System- Structure of Heart, Cardiac Cycle.

UNIT-4

- 4.1 Hepatobiliary system- Liver and its Functions.
- 4.2 Endocrine System- Hormonal regulation.

UNIT-5

- 5.1 Nervous System- Neurotransmitters.
- 5.2 Reproductive System Male and Female Genitals.

Reference Books:

- 1. Ross & Wilson Anatomy & Physiology in Health & Illness by Waugh(A).
- 2. Textbook of Medical Physiology by G.K.Pal.
- 3. Review of Medical Physiology by Ganong.
- 4. Text book of Medical Physiology byGuyton(AC)

SRI VENKATESWARA UNIVERSITY B.Sc. DEGREE EXAMINATION IN PARAMEDICAL TECHNOLOGY

FIRST YEAR - FIRST SEMESTER (Revised Syllabus under CBCS w.e.f. 2020-21)

Core Course Paper - I: HUMAN ANATOMY MODEL QUESTION PAPER

Time: 3 hrs Max. Marks: 75

SECTION -I

Answer any FIVE of the following

5x5 = 25 Marks

(Draw labelled diagrams wherever necessary)

- 1. Lysosomes
- 2. Epithelial tissue
- 3. Absorption
- 4. Cardiac Cycle
- 5. Ammonia
- 6. Liver

9.

- 7. Male Productive System
- 8. Nerve Cell

SECTION -II

Answer ALL the questions each question carries 10 marks

5x10=50 Marks

- (Draw diagrams wherever necessary)
 - (b) Explain about Structure and functions of Mitochondria.

(a) Describe about Eukaryotic cell structure. (or)

- 10. (a) Write about Digestion process in Humans. (or)
 - (b) Give an account on O2 oxygen transport
- 11. (a) Explain about structure and function of Excretory System (or)
 - (b) Describe about structure and function of human heart.
- 12. (a) Describe about hormonal regulation (or)
 - (b) Explain abouthepatobiliary system
- 13. (a) Write about neurotransmission in brief. (or)
 - (b) Describe about female reproductive system.

SRI VENKATESWARA UNIVERSITY B.Sc. DEGREE COURSE IN PARAMEDICAL TECHNOLOGY

FIRST YEAR - FIRST SEMESTER (Syllabus under CBCS w.e.f. 2020-21)

Practical Paper-I: HUMAN ANATOMY

- 1. Structure and Parts of Human DigestiveSystem.
- 2. Structure and Parts of CirculatorySystem.
- 3. Structure and Parts of ReproductiveSystem.
- 4. Structure and Parts of Central NervousSystem.
- 5. Structure and Parts of RespiratorySystem.
- 6. Structure and Parts of ExcretorySystem.
- 7. Different Types of Tissues.
- 8. Structure and Parts of Eye.
- 9. Structure and Parts of Ear
- 10. Structure and Parts of Nose
- 11. Cellstructure
- 12. Cell Organelles and itsstructures
- 13. Endocrine Glands and ItsFunctions