Gyanmanjari Innovative University

Course Syllabus

Gyanmanjari Institute of Medical Science and Healthcare

Semester-1

Subject: Practical-PGDSI11503

Type of course: Major

Prerequisite: -To develop basic knowledge and practical skills in nutrition, sanitation, waste management, human health, and community health for effective public health practice.

Rationale: - Students should have a basic knowledge of biology, health and hygiene, environmental science, nutrition, and general science. Familiarity with fundamental concepts of the human body, microorganisms, disease prevention, sanitation, and community health will help students understand and perform the theoretical and practical components of these papers effectively.

Teaching and Examination Scheme:

Teaching Scheme			Credits	Examination Marks					Total Marks
CI	T	P	C	Theory Marks		Practical Marks		CA	
				ESE	MSE	V	P	ALA	
0	0	12	6	00	00	40	80	30	150

Legends: CI-Class Room Instructions; T – Tutorial; P - Practical; C – Credit; ESE - End Semester Examination; MSE- Mid Semester Examination; V – Viva; CA - Continuous Assessment; ALA- Active Learning Activities.

Continuous Assessment:

Sr. No	Active Learning Activities	Marks
1	Journal Unit wise Practical will be given by faculty and students will prepare Journal for the Practicals.	30
Total		30

List of Practicals:

1	Identification of major nutrients in common food samples	3
2	Test for carbohydrates in food samples	3
3	Test for proteins in food samples	3
4	Test for fats in food samples	3
5	Estimation of Vitamin C in food samples	6
6	Detection of food adulterants in milk, spices and edible oils	6
7	Determination of moisture content in food	6
8	Measurement and interpretation of Body Mass Index (BMI)	6
9	Preparation of a balanced diet chart for different age groups	6
10	Identification of foods that support immune function	6
11	Survey and assessment of sanitary conditions of a residential area	6
12	Demonstration of sanitary inspection of drinking-water sources	3
13	Collection and examination of drinking-water samples	6
14	Determination of pH of water samples	6
15	Determination of turbidity of water samples	3
16	Demonstration of residual chlorine testing in drinking water	3
17	Microbiological examination of drinking water for coliforms	3
18	Demonstration of household water purification methods	3
19	Demonstration of segregation of municipal solid waste	3
20	Preparation of a solid waste management plan for a locality	6
21	Demonstration of composting of biodegradable waste	6
22	Identification and segregation of biomedical waste using colour-coded containers	6
23	Identification of major human body organs using models/charts	3
24	Identification of different types of human tissues	3
25	Study of normal pulse rate and factors affecting pulse rate	3
26	Measurement of blood pressure using a sphygmomanometer	6

27	Measurement of respiratory rate and observation of breathing pattern	6
28	Determination of body temperature using a clinical thermometer	6
29	Identification of blood cells using a prepared/permanent smear	3
30	Determination of ABO and Rh blood groups	3
31	Demonstration of haemoglobin estimation	6
32	Demonstration of basic first aid for common injuries	3
33	Demonstration of handwashing technique for infection prevention	6
34	Preparation and maintenance of basic health records	3
35	Demonstration of collection and recording of vital statistics	6
36	Calculation of birth rate, death rate and infant mortality rate from given data	3
37	Preparation of a health-information register for a community	3
38	Preparation of an antenatal care checklist for pregnant women	3
39	Preparation of an immunization schedule/chart for children	6
40	Health education and counselling demonstration on maternal, child and reproductive health	6

Suggested Specification table with Marks (Practical):

Distribution of Practical Marks (Revised Bloom's Taxonomy)						
Level	**Remembrance (R)**	**Understanding (U)**	**Application (A)**	**Analyze (N)**	**Evaluate (E)**	**Create (C)**
Weightage	**10%**	**30 %**	**40%**	**20%**	-	-

Note: This specification table shall be treated as a general guideline for students and teachers. The actual distribution of marks in the question paper may vary slightly from above table.

Instructional Method:

The course delivery method will depend upon the requirement of content and the needs of students. The teacher, in addition to conventional teaching methods by black board, may also use any tools such as demonstration, role play, Quiz, brainstorming, MOOCs etc.

From the content 10% topics are suggested for flipped mode instruction.

Students will use supplementary resources such as online videos, NPTEL/SWAYAM videos, e-courses, Virtual Laboratory

The internal evaluation will be done on the basis of Active Learning Assignment

Practical/Viva examination will be conducted at the end of semester for evaluation of performance of students in the laboratory.