



Hemchandracharya North Gujarat University, Patan

Regulations and Syllabus For the
Diploma in Health and Sanitary Inspector (DHSI)
(Effective from June 2021).

PROGRAM CODE : HNGU 3069




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HEMCHANDRACHARYA NORTH GUJARAT UNIVERSITY, PATAN

DIPLOMA IN HEALTH AND SNITARY INSPECTOR (DHSI) PROGRAMME

(TO BE EFFECTIVE FROM JUNE -2021)

Programme Objective:

The objective of the course is to impart the classroom teaching with the practical training the candidate aspiring to join health and sanitary department of Municipal Bodies, Local Bodies, District Councils, railways, Five star hotels, Airport or any other similar services as Sanitary Inspector, Health Assistant, Disinfecting Inspector, Slaughter House Inspector, Mosquito Inspector, etc.

Programme Learning Outcomes:

The programme on Diploma in Health and Sanitary Inspector is designed to develop the following learning out comes in the aspirants:

- √ The candidates will be acquainted with the skill of food safety and ability to manage food safety at the hotels and hospital pantry.
- √ To develop the skill related to disposal of various wastes like; solid, liquid and biomedical to protect the environment.
- √ To develop the skill related to sterilization and disinfection of various articles.
- √ Practice food safety, supervise and apply it to establishments as well as community.
- √ Learning of survey in housing colonies to assess sanitary standards and prescribe corrective measures.
- √ Understanding of record register and ensuring implementation of Sanitation policy of the institution/ community as per the Government norms and guidelines.

Diploma in Health and Sanitary Inspector at a Glance

Degree/Diploma	: Diploma Course (One year full-time)
Full Form	: Diploma in Health and Sanitary Inspector (DHSI)
Duration	: 1- Year
Tenure/Term	: June to November and December to May.
Minimum Eligibility	: 10+2 (in any stream) from the recognized board or equivalent
Tuition Fees	: As specified by the university by time to time.
Medium of Instruction	: English or Gujarati
Examination Pattern	: Annual basis internal and university/external examinations
Passing standard	: 40% marks in aggregate.

**REGULATIONS FOR THE
DIPLOMA IN HEALTH AND SANITARY INSPECTOR (DHSI)
PROGRAMME**

(TO BE EFFECTIVE FROM JUNE -2021)

R.DHSI-1:(Eligibility for the Admission:

Candidates who has passed 12TH Standard (10+2 or Equivalent) in any stream is eligible to secure admission in the Diploma in Health and Sanitary Inspector on merit basis.

R.DHSI-2:(Duration of the Course):

The Duration of Diploma in Health and Sanitary Inspector (DHSI) course will be one year full-time course. The examination for the Diploma in Health and Sanitary Inspector will be conducted at the end of the year. Each term of the year will comprise of 14 TO 16 working weeks.

R.DHSI-3: (Programme of study)

A student shall follow the prescribed courses and course credit as listed in Annexure- I. The detailed syllabi for these courses are given in Annexure-II.

R.DHSI-4: (Examination)

The objective of evaluation in the Diploma in Health and Sanitary Inspector Programme is not only to measure the performance of student but also to motivate them for better performance. Students are to be evaluated based on Internal and External Examinations. The internal examination will carry 30% weightage, while external examination will carry 70% weightage.

R.DHSI-5: (Examination Evaluation)

The External/University will be conducted by university at the end of the year. The internal examinations will be conducted by the concerned department/college as a part of continues evaluation shall comprise of two tests each of 10%, 5% evaluation will be based on assignments/presentation/subject specific project report and 5% evaluation will based on attendance. The external examinations will be conducted by the university at the end of each semester. The detailed breakup of the evaluation mentioned below has to be followed while evaluating the candidates;

Internal Evaluation	Marks (Wt.)	External Evaluation	Marks (Wt.)
Test-1	10-Marks (10%)	University Examinations	70-Marks (70%)
Test-2	10-Marks (10%)		
Assignment/Projects/Presentations	05-Marks (05%)		
Attendance	05-Marks (05%)		
Total	30-Marks (30%)	Total	70-Marks (70%)



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R.DHSI-6: (Project/Dissertation Evaluation)

The project/Dissertation work will be evaluated by the internal and external experts under the chairmanship and supervision of chairman of Board of the study (BOS). There will also be a viva-voce examination on the Project/Dissertation work of the students by a committee comprising internal and external experts. The project/dissertation work will be evaluated in following pattern.

	Weightage	Marks
1. Dissertation/Project Report Evaluation	70%	70-Marks
2. Viva-Voce (Presentation)	30%	30-Marks

R.DHSI-7 :(Passing Standard)

The candidate has to secure 40% marks in internal examination in each subject and 40% marks in university examinations in each subject.

R.DHSI-9: (Award of the degree)

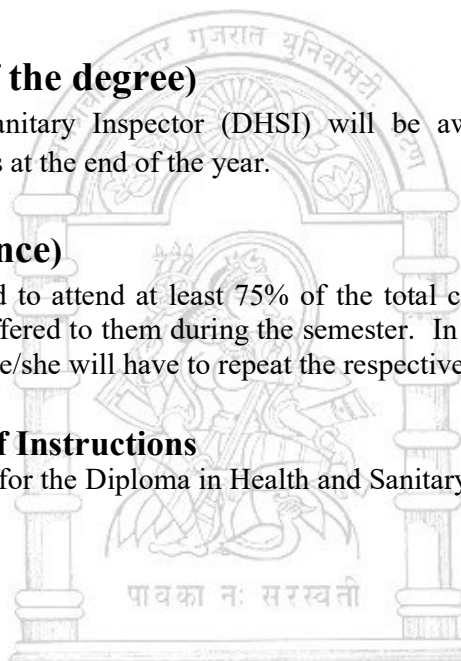
Diploma in Health and Sanitary Inspector (DHSI) will be awarded only after successful completion of the all courses at the end of the year.

R.DHSI-10: (Attendance)

Candidates shall be required to attend at least 75% of the total class room sessions separately under each of the courses offered to them during the semester. In case a candidate fails to meet the minimum requirement, he/she will have to repeat the respective semester.

R.DHSI-11: Medium of Instructions

The medium of instructions for the Diploma in Health and Sanitary Inspector shall be English or Gujarat both.



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ANNEXURE: I**PROGRAMME OF STUDIES LEADING TO THE
DIPLOMA IN HEALTH AND SANITARY INSPECTOR (DHSI)**

Course Code: DHSI					Course Credit:40		
One Year Diploma Course							
Sr. No.	Subject Code	Name of the Subject/Course	Theory Credit	Practical Credit	Internal Evaluation	External Evaluation	
						Theory	Practical
01	DHSI:101	Introduction to Sanitary Heath Inspector Programme (Foundation Course)	04	---	30-Marks	70-Makrs	-----
02	DHSI:102	Demography, Epidemiology and Health Education	04	02	30-Marks	50-Marks	20-Marks
03	DHSI:103	Liquid, Solid and Bio-Medical Waste Management	04	02	30-Marks	50-Marks	20-Marks
04	DHSI:104	Food & Nutrition	04	---	30-Marks	70-Marks	---
05	DHSI:105	Environmental and Water Sanitation	04	02	30-Marks	50-Marks	20-Marks
06	DHSI:106	Public Health Acts.	04	---	30-Marks	70-Marks	----
07	DHSI:107	Infection Control	04	02	30-Marks	50-Marks	20-Marks
08	DHSI:108	Project Work	--	04	---		100- Marks
Total Credit			28	12			



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ANNEXURE: II
DETAILED SYLLABI OF STUDIES LEADING TO THE
DIPLOMA IN HEALTH AND SANITARY INSPECTOR (DHSI)

Programme Name	Diploma In Health and Sanitary Inspector (DHSA)
Course No.	DHSI:101
Course Name	Introduction to Sanitary Health Inspector Programme (Foundation Course)
Course Credit	04
Effective From	JUNE-2021

Course Objective:

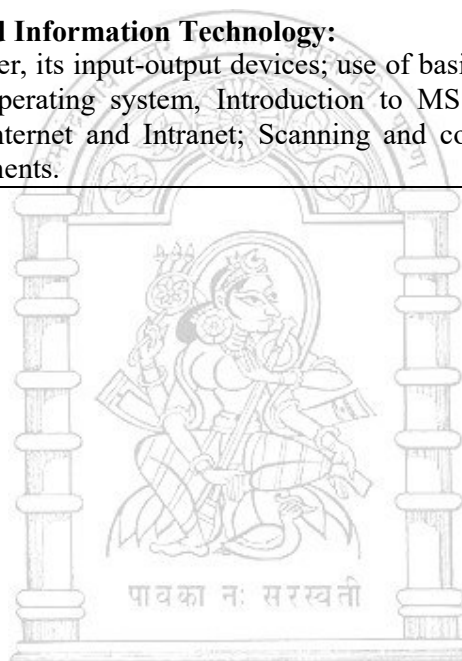
The objectives of this foundation course to develop the deep understanding about sanitary health inspector programme, role and duties of sanitary health inspector and various skills required for the job.

Learning Outcomes:

- Understanding the healthcare scenario in India
- Understanding the duties and responsibilities of sanitary health inspector.
- Develop understanding of general medical terminology.
- Develop anthropometric skill for measurement and record keeping
- Understanding the emergency care, importance of first aid, triage and disaster preparedness.
- Adhere to legislation, ethics, values and guidelines relevant to one's role and filed practice.
- Have a basic working knowledge and develop communication skills.

Unit No.	Content	Weightage
1.	Introduction to healthcare and hospitals: Healthcare delivery in India: Primary, Secondary and Tertiary care; community participation in healthcare delivery system; Issues of healthcare delivery India; Basic medical technology; National Health Mission (NHM)	20%
2	Basic Understanding of Sanitary Health Inspector: Duties and responsibilities of Sanitary health inspector; Importance of Sanitation, Health and Hygiene; Sanitary scope in Municipal Corporation, Trade fairs, public health sanitation, water bodies, slums, vulnerable pockets, restaurants, hotel etc.; Ethics in healthcare- Privacy, Confidentiality, Consent, Medico legal aspects; professionalism and values.	20%
3	Basics of Emergency Care and Life Support Skills: Basic emergency care- First aid and Triage; Vital signs; Identifying signs and taking measure for choking and Heimlich Manoeuvre, bleeding including nose bleeds, minor burns, hypothermia, asthma attack, bites and stings, fainting and sprain; Ventilation including use of bag-valve-masks (BMVs) ; One and two-rescuer CPR; Using an AED (Automated external defibrillator); Managing emergency care including moving patients- log transfer; Disaster preparedness and management.	20%

4	Anthropometric Measurement: Points for consideration before measuring Weight, Height and other parameters; Process of checking each equipment; Recording measurements; Process of measuring weight; importance of weight measurement- weight for age and weight for height; Do's and Don'ts while measuring; steps for measuring height using height measuring scale and inch tape; Measuring Circumference- arms and waist.	20%
5	Communication Skills: Basics of reading and writings skills, business communication like letters and emails, barriers of communication, barriers of communication, body language, postures and gestures; Listening and speaking skills; communicating patients with impaired hearing/visions/ speech/memory; Recognizing changes in patient behaviour and reporting to medical officer; Interpersonal skills and working with others. Computer and Information Technology: Use of computer, its input-output devices; use of basic software like MS Office, Operating system, Introduction to MS word-Excel – PowerPoint ,Internet and Intranet; Scanning and copying medical records/ documents.	20%




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Programme Name	Diploma In Health and Sanitary Inspector (DHSA)
Course No.	DHSI:102
Course Name	Demography, Epidemiology and Health Education
Course Credit	04 + 02
Effective From	JUNE-2021

Course Objective:

The objective of this course is to develop the understanding about basic demography and vital statistics and the principles of health education.

Learning Outcomes:

- Understanding the process of registration, reporting and documentation for implementation of different act within the community.
- Understand the basic demography and vital statistics.
- Understanding the concept of health education and its importance.
- Understanding the concept of health statistics, tools to analyse health statistics and interpretation of health statistics.

Unit No.	Content	Weightage
1.	Demography: Concept of demography; Demography and vital statistics; Vital event of demography and its impact on demography; Significance and recording of vital statistics; Demography and Health survey: Science of demography, Demographic cycle; Population trends and demographic indicators: Methods of demographic data collection; sources of data, population census; population composition; world population growth, growth of Indian population, morbidity, mortality, ageing, migration/urbanization	25%
2	Epidemiology Principles of epidemiology; Natural history of disease; Epidemiology of communicable and non-communicable diseases; Disease transmission; host defence immunization agent; cold chain; immunization; disease monitoring and surveillance; Sources of epidemiological data; concepts of screening, criteria for screening, sensitivity and specificity; disease surveillance; techniques for randomization, adverse events, investigation of an epidemic and role of a healthcare facility in its control; Epidemiological tools for monitoring and evaluation of health programmes	25%
3	Basics of Health statistics: Statistics and its application relating to public health; mortality and morbidity statistics; Classification of data, Source of data, data organization Method of scaling - nominal, ordinal, ratio and interval scale, building composite scales, measuring reliability and validity of scales; Measurement of central tendency, measurement of dispersion – Range, Mean deviation & Standard deviation; Data tabulation and charts;	25%
4	Health Education and Communication: Health education opportunities and approaches for health inspector in his work place; planning health education activities; education related to environmental sanitation programme; use of audio visual aids and media; utilizing community resources for health education.	25%

	Health education through Primary Health Centre; Health education through personal contract, group meeting and indirect approaches; Perception of various diseases and ailments such as HIV AIDS, Leprosy and ways to reduce/deal with stigma.	
Practical Work: Define various sections of a survey and make a short survey form for registration of births and deaths in a community and document it. Prepare a chart for educating community regarding HIV/AIDS/spread of malaria/dengue/save water/maintain hygiene and sanitation etc. Designing of posters on roles and responsibilities of a health inspector. Preparation of diet menu for hypertensive, diabetic nephritis & heart patients. Images of patients suffering from diseases. Preparing of video on Malnutrition Education/Balanced Diet/Healthy foods/Diseases occurs due to various deficiencies.		



Programme Name	Diploma In Health and Sanitary Inspector (DHSA)
Course No.	DHSI:103
Course Name	Liquid, Solid and Bio-Medical Waste Management
Course Credit	04 + 02
Effective From	JUNE-2021

Course Objective:

The objective of this course is to create the deep understanding about the various types of wastes like; solid, liquid and bio-medical wastes and the techniques for screening and disposal of these wastes.

Learning Outcomes:

- Understanding the procedure, policies and protocols for collection methods of different types of wastes.
- Learning of appropriate health and safety measures, standard precautions for infection control and use of personal protective equipment relevant to the type of wastes.
- Understanding on segregation of waste materials from work areas in line with current legislation and prevailing practices.
- Learning of techniques for effective transpiration of various waste materials.
- Understanding the record keeping of waste materials.

Unit No.	Content	Weightage
1.	Bio-medical Waste Management: Definition and description of Medical Waste, Sources of Bio-medical Waste; Waste Minimization; Classification of hazardous medical waste; Characterization of health-care waste; Legislative, Regulatory and Policy aspects of Health-care waste; Waste minimization, Recycling symbols for plastics, Recycling and recovery, Environmental management systems, Minimum approach to waste minimization; Sorting Principles, Handling of bags, Hazardous waste handling rules.; Various methods, Precautions during collection, Storage & Transportation of Hospital Waste.; Treatment and disposal methods, Incineration, Chemical disinfection, Needle extraction or destruction, Encapsulation; Personal protective equipment, Personal hygiene, Emergency measures, Training.	20%
2	Solid Waste Disposal: Source, generation, storage, collection and disposal methods of solid waste; Classification of solid waste in community; Polluting effects of different types of solid waste; System of collection of solid waste from the houses & streets; Sanitary transportation of solid waste; Sanitary process of disposal of solid waste such as composting, sanitary land filling, incineration etc.	20%
3	Liquid Waste/ Sewage Disposal: Definition of liquid waste and its sources; Various methods for liquid waste disposal; Definition and types of sewage system; Sewage disposal by biogas plant; Pollution of water due to sewage; Health hazards related to accumulation of liquid waste or sanitary drainage; Sewers and its types; Methods of laying sewers; Sewer appurtenances; Traps introductions; Types of traps; Plumbing tools and operations; Pollution of water sources from sewerage and its disinfection; Sewage farming.	20%

4	Night Soil Disposal: Numerous impact of night soil on the environmental factors; Faecal borne disease due to unsanitary disposal of night soil ; Sewage in liquid waste containing human excreta; Different types of latrines in use principal of construction of sanitary latrines and their use especially berg hole, dug well, RCA and septic tank latrine.	20%
5	Burial and Cremation Concept; Disposal of dead; Types of disposal methods; Methods of preservation of dead; Commonly and less commonly used methods for disposal of dead; Basic requirements for burial and cremation grounds; Health hazards associated with unsanitary disposal of Dead bodies.	20%

Practical Work:

- Demonstrate and describe appropriate procedures, policies and protocols for the method of collection and containment level according to the waste type.
- Identify and demonstrate methods of segregating the waste material in coloured bins.
- Demonstrate how will you report and deal with spillages and contamination in accordance with current legislation and procedures.
- Visit for an inspection of flushing tank, soil plant, traps, man holes, inspection chambers and maintenance of gully trap.
- Visit to burial or funeral ground for sanitation, proper process of disposal of dead body and maintenance of records as per the legal provision.




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Programme Name	Diploma In Health and Sanitary Inspector (DHSA)
Course No.	DHSI:104
Course Name	Food and Nutrition
Course Credit	04
Effective From	JUNE-2021

Course Objective:

The objective of this course is to create understanding on nutritional values of food and awareness about balanced diet.

Learning Outcomes:

- Understanding the importance of food and nutrients for the health.
- Learning of balanced diet, weight reduced diet and low fat diet.
- Understanding the concept Malnutrition and preventive measures to reduce malnutrition.
- Learning of food preservation techniques for various types of food.
- Calculate and suggest the calorie and nutrition requirements as per the specific requirements of the person.

Unit No.	Content	Weightage
1.	Science of Food: Food (definition) & function of food & introduction of nutrition & nutrients; Classification of food, their sources, nutrient diets proteins, fat, vitamins & minerals – sources, function, deficiency excess & daily requirement;	20%
2	Balanced Diet: Definition & importance; Factors to be considered on planning meals; Nutrient requirement of different age group; Therapeutic Diet: Introduction for balanced diet, weight reducing diet- low fat diet, bland diet, cirrhosis of liver, renal stone.	20%
3	Nutrition Education: Malnutrition- causes prevention, low birth weight (LBW), causes of LBW, prevention of LBW, special care to be given to malnourished Children; Tabular differentiation of types of malnutrition; Importance of health education to overcome the problem of malnutrition;	20%
4	Family Examination: Medical examination of family members-weight-height-height and circumferences of the head- skin folds (in case of children)- Blood test for haemoglobin- Diet survey- weight of food before cooking and after cooking.	20%
5	Food Preservation: Definition & methods; household & industrial method of preservation, self-line; Pasteurization: methods, types & importance; Refrigeration: Prevents spoilage; Food Borne Diseases – Sources, symptoms and methods of prevention and control.	20%



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Programme Name	Diploma In Health and Sanitary Inspector (DHSA)
Course No.	DHSI:105
Course Name	Environmental and Water Sanitation
Course Credit	04 + 02 = 06
Effective From	JUNE-2021

Course Objective:

The objective of this course is to create understanding on water sanitation, soil sanitation, sanitary measures, concept of healthy homes and sanitary measures for the public places.

Learning Outcomes:

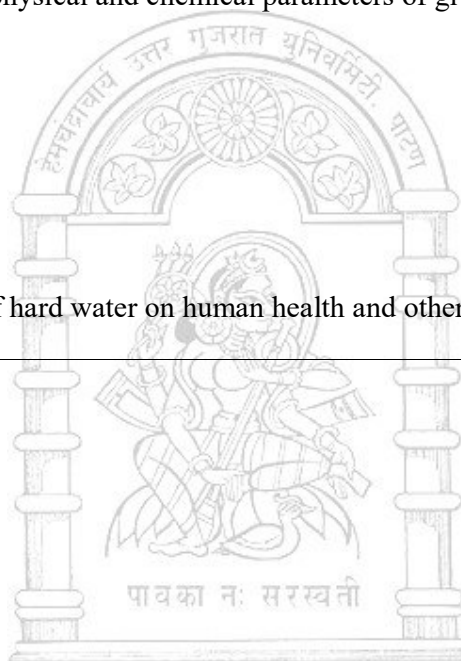
- Understanding the concept of soil sanitation and general principles of health housing.
- Learning of water testing methods, chlorination and measures for safe drinking water.
- Understanding the sanitary measures to be undertaken in festivals, fairs and during natural calamities.
- Understanding of occupational health measures and the role of employer to protect the health of workers.
- Understanding the concept of soil testing, chemical parameters of water testing like; PH, Turbidity, Chlorine, Hardness, TDS, Acidity, Alkalinity etc.

Unit No.	Content	Weightage
1.	Soil sanitation: Introduction and importance of soil; Classification of soil; Classification from the view point of importance in public health; Reason of excessive moisture in the soil; Reclamation of land; Soil health; Soil bacteria and Parasites; study on insecticides, pesticides and disinfection; Various types of spraying equipment.	20%
2	Housing, infrastructure and water supply General principle of healthy housing; Home Sanitation; Food hygiene at home; Specification for healthy housing; Construction of latrines and recommended financial assistance as per the Government norms; Maintenance of public and community water supply and ensure proper disinfection; Prepare of a sanitary well and tube well; Water supply and storage system at the community and domestic; Water testing labs; Pot method of chlorination. Water sampling for regular bacteriological and chemical analysis; Inspection of public and private well and/ or other water sources; Inspection of sanitation in hospital and health facilities.	20%
3	Sanitation Measures in Fairs, Festivals and Natural calamities Sanitation Management at fairs and festival. Sanitary problems associated with human gatherings and temporary settlements; Alternate emergency sanitary provisions to prevent sanitation crisis for food, housing, water supply, lighting, disposal of community waste and prevention of outbreak of epidemics.	20%
4	Occupational health Introduction; Occupational environment measures; Occupational diseases : importance of Safety and health at work place; State the role of employer, trade union and employees for health and safety program; Measures for health protection workers; Prevention of occupational diseases; Provision- benefit to employees; Occupational health in India.	20%

5	<p>Air Concepts and importance of adequate ventilation; Types of ventilation- Natural ventilation-Mechanical ventilation; Indicators of air pollution; Process air purification and disinfection; Greenhouse effect ; Thermal comfort; Air temperature humidity; Radiation; Evaporation and their measurements.</p> <p>Control of Biological Environment Study on insecticides, pesticides and disinfections; Sterilization & disinfections of different articles; Various spraying equipment; Uses of rodenticides & larvaecidals; Vector control.</p>	20%
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Practical Work:

- Identify soil sample equipment.
- Inspection and maintenance of sewage treatment plant.
- Measurement of noise level.
- Prepare charts or posters of global warming.
- Perform the practical for physical and chemical parameters of given water sample in testing labs.
 - PH
 - Turbidity
 - Chlorine
 - Hardness
 - TDS
 - Acidity
 - Alkalinity etc.
- Make a chart for impact of hard water on human health and other areas such as- on Plants, on industrial equipments.



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Programme Name	Diploma In Health and Sanitary Inspector (DHSA)
Course No.	DHSI:106
Course Name	Public Health Acts.
Course Credit	04
Effective From	JUNE-2021

Course Objective:

- To create the deep understanding on prevailing public health acts.
- To equant the students with legal previsions and penalties under each public health act.
- To create the understanding on rules and regulations of municipalities and local bodies and rules related to bio-medical wastes.

Learning Outcomes:

At the conclusion of course, the student will be able to;

- Describe and appreciate the value of understanding the history and evolution of health care ethics.
- Demonstrate the understanding of the various philosophical foundations for health care ethics.
- Discuss the application of legal and ethical concepts and principals in his/her capacity and responsibility as a sanitary health inspector.
- Understand the laws applicable to protect the public health and legal provisions under the acts.
- Understand the supplementary provisions and rules of local bodies.

Unit No.	Content	Weightage
1.	Public Health Acts and Role of Sanitary Health Inspector: Definition, introduction and importance of act; Familiarise with Vocabulary and terminology of different acts; Documentation process for implementation of different acts; Introduction to Public health ethics; Moral norms; Screening and Surveillance in public health ethical issues.	20%
2	Indian Epidemic Disease Act: Legal provisions of Indian Epidemic Decease Act; Power to take special measures and prescribe regulations as to dangerous epidemic disease; Powers of Central Government; Penalty; Protection to persons acting under Act.	20%
3	Air and Water Pollution Control Act: The central and state boards for prevention and control of water pollution; Functions of Central Board, Functions of State Board, Powers to give directions Prevention and control of water pollution; Penalties and Procedure under act. Prevention of Food adulteration Act: The Central Committee for Food Standards; Appointment of Secretary and other staff; Central Food Laboratory; Prohibition of Import of certain articles of food; Application of law relating to sea customs and powers of Customs Officers; Powers of Food Inspectors; Procedure to be followed by food Inspectors; Penalties under the act.	20%

4	<p>Birth and Death Registration Act: Registration of births and deaths; Maintenance of records and statistics; Special provision as to registration of births and deaths of citizens outside India; Power of registrar to obtain information regarding birth or death; Powers to give directions; Penalties.</p> <p>M. T. P. Act: Legal Provisions of the act; When pregnancies may be terminated by registered medical practitioners; Place where pregnancy may be terminated; Power to make rules; Power to make regulations; Protection of action taken in good faith.</p>	20%
5	<p>Suppression of Immoral Traffic Act (SITA), Municipal and Local Body Acts related to Housing Sanitation Act; Factory Act and ESI Acts; Legislation related to Tobacco and Drug Control; The Environment (Protection) Act; Biomedical Waste (Management & Handling) Rules;.</p>	20%



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Programme Name	Diploma In Health and Sanitary Inspector (DHSA)
Course No.	DHSI:107
Course Name	Infection Control
Course Credit	04 + 02
Effective From	JUNE-2021

Course Objective:

- To create the understanding on communicable and Non-communicable diseases.
- To understand the personal hygiene techniques.
- To understand the standard precautions for the infection control.
- To develop the practical knowledge about use of personal protective equipments and use of other protective equipments.

Learning Outcomes:

At the conclusion of course, the student will be able to;

- Understand all procedures required for infection control
- Follow high level of personal hygiene.
- Follow all standard precautions and infection control procedures.
- Identify deviation from normal health.
- Understand hospital borne infections and practices to curb them.
- Understand different types of spillages and their management

Unit No.	Content	Weightage
1.	Infection prevention and control: Evidence-based infection control principles and practices [such as sterilization, disinfection, effective hand hygiene and use of Personal protective equipment (PPE)]; Prevention & control of common healthcare associated infections; Components of an effective infection control program' Guidelines (NABH and JCI) for Hospital Infection Control.	20%
2	Personal Hygiene: a. Factors influencing health & hygiene b. Health habits & practice, customs affecting personal hygiene c. Maintenance of normal circulation, respiration, digestion, etc. d. Skin care cleanliness e. Oral hygiene and dental care f. Care of hands, washing, importance of exercises and food values g. Care of the body-habits clothing h. Menstrual hygiene i. Care of special sensory organs j. Factors influencing human behaviour k. Change of behavioural pattern in different age groups l. Interpersonal relations and defence mechanism	20%
3	Communicable Diseases: Introduction; Transmission of disease- By air, By contact, By insects and other diseases; General measures for prevention & control of communicable diseases; Role of Health Worker: Explain	20%

	<p>Communicable diseases like Swine Flu, T.B., AIDS, Diphtheria, Polio, measles, diarrhoea etc.</p> <p>Non-Communicable Diseases Introduction; Incidence and prevalence; Diagnosis & prevention; Explain in detail diseases like cancer, hypertension, cardiac Disease, Diabetes etc.</p> <p>Immunity and immunisation: Importance of immunity and immunisation; Types, purpose and effect of immunisation; National immunisation schedule; Measles, typhoid, Covid-19 vaccines and other pentavalent vaccine.</p>	
4	<p>Disinfection & Sterilization Need of disinfection and sterilisation; Importance of disinfection and sterilisation in hospitals; Introduction and uses of various disinfection agents like Halogen, KMnO₂ solution, solid and liquid agents; Effective disinfectants like formaldehyde, sulphur, chlorine gases etc.; Use of UV radiation and ozone as disinfectant; Solid chemical agent; Bleaching – Bleaching powder, Lime etc.</p>	20%
5	<p>Universal/ Standard Precautions a. Hand hygiene b. Use of personal protective equipment (e.g., gloves, gowns, masks) c. Safe injection practices d. Safe handling of potentially contaminated equipment or surfaces in the patient environment e. Respiratory hygiene/cough etiquette.</p>	20%
<p>Practical Work:</p> <ul style="list-style-type: none"> - Demonstrate the use of Personal Protective Equipment (PPE). - Conduct a programme on personal hygiene in different area and document it. - Videos on disinfection and sterilisation techniques. - Various chemicals uses with safety for disinfection through videos. - Prepare a report on general survey of health care in different area. - Prepare a report on disinfection of hospital wards, operation Theatres, Labour rooms. - Prepare a banner for immunization. 		



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Programme Name	Diploma In Health and Sanitary Inspector (DHSA)
Course No.	DHSI:108
Course Name	Project Report/Dissertation
Course Credit	04
Effective From	JUNE-2021

Course Objective:

- To create the understanding on practical knowledge of health survey.
- To understand the working of sewage treatment plant.
- To have a practical knowledge about safety practices and infection control practices at healthcare.
- To develop the practical knowledge about sanitation standards of rural and urban area.

Learning Outcomes:

At the conclusion of course, the student will be able to;

- Understand the practical aspects of family health survey.
- Understand the workings of sewage treatment plants.
- Practical knowledge on safety measures for healthcare and infection control techniques in various hospitals of rural and urban areas.
- Practical knowledge of sanitation practices prevailing at rural and urban area.

The student should prepare a detailed dissertation/ project report based on filed visit of following areas;

- Do the family health survey of 50-Houses in urban area and 50-houses of rural area and prepare the project report based on survey.
- Visit the One sewage treatment plant, One Solid Waste disposal plant and prepare the report on functioning of sewage treatment plant.
- Visit one Primary Health Centre (PHC), One Community Health Centre (CHC), one urban hospital to study the infection control practices and safety arrangements in hospital wards, operation theatre and labour rooms.
- Visit at least two gram panchayat and one Nagarpalika to study the sanitation standards of rural and urban area.



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