

SCHEME OF EXAMINATION & SYLLABUS
for
Certificate in Health Inspector
1 year Certificate Course
(Academic Session 2021-22)

**Institute of Paramedical Science and Research,
Jiwaji University, Gwalior (M.P.)-India**

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Certificate in Health Inspector

About the course:

The **Certificate in Health Inspector** is a one-year paramedical course offered by the Jiwaji University. The Certificate in Health Inspector course deals with the maintenance of health & hygiene in such places where medical facilities are being provided. This course is totally based on imparting practical knowledge to the students, including elementary healthcare practices, rural healthcare practices, communication skills, patient/community education, etc.

Course objectives

The main objective of the course is to provide technical training supplemented by practical training programme to aspirants who wish to join Health & Sanitation departments of Municipal Bodies, District Councils, Railways, Five-Star Hotels, Food & Drugs Administration, Airports or similar services in various organizations, to deal with Health & Sanitation problems. It comprises preventive health, family welfare, environmental conditions, etc.

Scope of the Course:

Certificate in Health Inspector career path in many industries including **Public Health, Sanitation, and Private Medical Bodies**. The roles in these industries vary as follows: Multipurpose Medical Assistant, Laboratory Assistant, Field Assistant, Medical Assistant, Food Inspector, Sanitation Inspector, Health Inspector.

Eligibility for admission in certificate Course

The Candidate must have passed 10+2 with Biology and with atleast 40% marks in aggregate.

For SC/ST candidates, a relaxation of 5% in eligibility marks is permissible.

Other weightages will be given as per University admission norms for other courses


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SYLLABUS&SCHEME OF EXAMINATION**Certificate in Health Inspector**

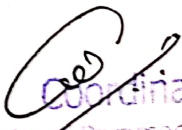
Course code	Subject	Max. Marks	Min. Passing Marks	Internal Assessment	Min. Passing Marks	Total
HLIN 01	Elementary Concept of Health Sciences	100	30	-		100
HLIN 02	Concept of Disease and Epidemiology	100	30	-		100
HLIN 03	Nutrition and Health	100	30	-		100
HLIN 04	Environment and Health	100	30	-		100
HLIN 06	Lab-I: Practical (Homework+ Unit Test+ Graph/Sketch Book+ Project Work)	-	-	20+30+30+20 =100	10+15+15+10= 50	100
HLIN 07	Viva voice	200	100	-	-	200
HLIN 08	Field work	-	-	50	25	50
HLIN 09	Visit trade premises*	-	-	50	25	50
	TOTAL	600	+	200		800

***INSPECTION OF TRADE PREMISES (50 MARKS)**

Immediately after the theory examination student shall visit trade premises assigned to him/ her by principal for factual in – site infection such as eating houses bakery, stables, sweet –meat shop, aerated factory etc. Student shall complete this assignment and submit the report to the principal for assessment.

PRACTICAL (150 MARKS)

The student shall appear for 4 periodic tests (unit test) in a year before the final examination in addition, the student shall also complete project work assigned to them. The marks secured by the students in the periodic unit tests and project work shall be considered for the final examination under practical as per details below:


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HOMEWORK (20 marks):

student shall answer minimum 4- model question paper and the student shall be assessed on the basis of his /her answer paper.

UNIT TEST (30 marks):

Student shall appear for 4 - unit test in a year, out of which best 3-unit test, where student secured highest marks will be considered for final exam.

FIELD WORK (50 marks):

Student shall record his/ her observation of the relevant subject taught /demonstrated at the time of field visit to water complex, milk dairy, hospital, office of the medical officer health and other rural primary health center etc. Every such visit must be got attested of the very same day of next day or next day by the principal or faculty member in his absence. the principal shall assess student with appropriate marks on the basis of his /her presentation contents of the field visit /demonstration.

GRAPH / SKETCH BOOK (30 marks):

Student shall present minimum 25 drawing /sketch of the subject taught student shall be assessed by the principal for the quality drawing/ sketches and the explanatory notes.

PROJECT WORKS (20 marks):

After completion of the field visit, student shall attend to the project work assigned to him/ her the principal. The students are required to report to the officer in charging to the respective project the student shall survey the assigned project in detail and analyze the merits and demerits of the project assigned students shall prepare project report and submit the same to the principal through the concerned officer of the project.

Practical – Journal:

Student shall maintain one practical zonal where he / she shall record all different components of practical viz. Homework file visit graph / sketch and project work:


ORAL VIVA VOCE (200 marks):

Student shall appear for the oral examination before a panel of 4 examiners student shall be assessed on the basis of his / her performance during the viva.

Marks required for passing & grading in the final exam:

The student must secure 30% of marks in each individual written paper and 40% of marks in aggregate in all the paper and 50% in practical and oral examination. However, a candidate must secure 50% of total marks in aggregate pass the examination. If the student secured <60% of the aggregate marks, he will be declared to have passed in 2 second class and the candidate who secure 70% mark in the aggregate, will be declared to have passed in the first class. A student who secures 60% marks, in any theory paper, and yet fails in the examination, He will be granted exemption for that particular paper in subsequent examination. (As per M.P. Paramedical Council)

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PAPER-1

HLIN 01: Elementary concept of Health Sciences

1. Introduction to public health
2. Role of sanitary inspector
3. Elementary physics, chemistry and mathematics (as applied to public health)
4. Elementary anatomy and physiology (as applied to public health)
5. First aid (the course prescribed by the St. John ambulance)
6. Elementary microbiology and parasitology.
7. Elementary entomology.
8. Elements of social sciences, behavioral science
9. Personal hygiene
10. Elementary pharmacology
11. Drugs used in preventive medicine and
12. Public health and practice
13. Minor elements and their treatment.
14. Chemical agents used in public health.

PRACTICALS:

1. Physics: force. Gravity. Motion. (newton 's law) pressure electric, current, etc.
2. Chemistry. Acid, base, chemical – symbols, formula, elements, chemical reaction,
3. Mathematics: practical problem, conversion of temperature, Measurement of height, weight.
4. Microbiology: handling microscope, culture media preparation, staining of bacteria
5. Pharmacology: Demonstration of drug separation & standardization.
6. Chemical agents in public health: Demonstration of sanitary sprays.
7. First aid kit: Demonstration

References:

- K Park; Textbook of Preventive and Social Medicine; 26th edition
- SRIDHAR RAO; Textbook of Community Health for Health Inspector; AITBAS.
- Priya; Health Sanitary Inspector; Neelkanth


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PAPER -II

HLIN 02: CONCEPT OF DISEASE AND EPIDEMIOLOGY


1. Epidemiology definition and mode of transmission
2. Communicable diseases and its classification
3. General control measure in communicable diseases
4. Vaccines and disinfectations
5. Classification
6. Non – communicable diseases and their control
7. Health education
8. School health
9. Maternal and child health
10. Family planning
11. Vital statistics
12. Registration of birth and death act
13. Disposal of death

PRACTICALS

1. Visit of a major general hospital case, isolation, quarantine, management.
2. Malaria- blood, smear preparation and demonstration
3. Cold chain equipment, visit to ward of M.O.H./ birth
4. Vaccine's demonstration – Journals
5. Health education posters preparation
6. Family planning, demonstration of contraceptives

References

- Raj S. Bhopal; Concepts of Epidemiology; oxford university press
- G.N. Prabhakara; Textbook of community health for health inspector; Jaypee
- Sunder Lal; Textbook of Community Medicine, Preventive and Social Medicine; 6th edition; Jaypee publishers.


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PAPER –III

HLIN 03: NUTRITION AND HEALTH

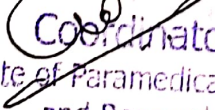
1. Nutrition
2. Food sanitation and food chemistry
3. The privation of food adulteration act of 1954 of government of India and rules framed there under.
4. National health programmes
5. Provision in municipal act pertaining to public health
6. Public health chemistry.
7. Food establishment markers and slaughter houses.
8. Industrial health
9. factories, trades and hygiene and offensive trade
10. Public health administration, national and international health agencies
11. Book keeping

PRACTICALS

1. Nutrition: Poster's preparation
2. Nutrition and Nutritional Assessment
3. Visit to public health lab
4. Hotel inspection / Market place inspection
5. Slaughter house visit
6. Visit to urban health center
7. Visit to Primary health center / sub center (2 days)
8. Visit to dairy milk Factory.
9. Visit to any factory for ex; Eatables and consumer goods/ Heavy industry/ Textile mill etc.
10. Visit to voluntary health organization; Home for aged / Handicapped deaf/ dumb/ mentally retarded institute (or any other with a social humanitarian cause

References

- Vijay Kumar; A Textbook of Nutrition; 1st ed (2006) JayPee
- Prabhakara; Policies and programmes of health in India; JayPee


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PAPER-IV

HLIN 04: ENVIRONMENT AND HEALTH


1. Water supply and quality control
2. Waste and its disposal including the disposal of refuse and household and trade refuse.
3. Excrete disposal
4. Housing (sketching, designing, and building construction etc.,)
5. Air and ventilation
6. Engineering methods in relation to disease control
7. Environmental pollution
8. Sanitation of fairs, festivals and comps.

PRACTICALS

1. Water – chlorine demand (chart/poster).
2. Visit to sewage plant.
3. Visit to chlorination plant
4. Visit to source of water supply to the city
5. Dumping ground.
6. Visit to hospital – waste disposal methods.
7. Insecticidal spraying operation.
8. Disinfection of well primary health center.

MISCELLANEOUS PRACTICALS

1. Environmental health – instruments
2. Conducting a bassline survey in both –a) village (P.H.C) b) city area (health post)
3. Visit to I.C.D.S unit (Anganwadi)
4. Participation in pulse polio immune. Other national health programmes
5. Health education in schools/ community
6. Follow up of a family (on going) or an under five children in rural & urban area (4hrs/wks x 6 months)


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