COURSE CURRICULUM							
P	PART- A: Introduction						
Pro	ogram: Bachelor in (Diploma / Degree		Semester - III	Session: 2024- 2	2025		
1	Course Code	ZOSC-03T	. □ 0	and the second s			
2	Course Title	Course Title Diversity of Invertebrates			<u> </u>		
3	Course Type	Discipline Speci	fic Course				
4	Pre-requisite (if, any)		As per Pr	ogram			
5	After successfully completing this course, the students will be able to - Develop understanding on Invertebrate Animals on the basis of classification and Nomenclature. Develop understanding how simple/unicellular animals changed into multicellular and diploblastic forms through their anatomy and physiology. Gain Knowledge of key processes like formation of triploblastic animals (simple to complex form of body plan). Develop understanding on parasitic adaptations and life cycle of Helminthes. Develop understanding on the diversity in Artropoda, Mollusca and						
6	Credit Value	Echinoder 3 Credits	Y	s - learning & Observa	tion		
	Total Marks	Max. Marks:	100	Min Passing Marks:	40		
PAF	RT -B: Conte	nt of the Co		Trial Lussing Trial has	40		
***************************************			Periods (01 Hr. per perio	od) - 45 Periods (45 Ho	ours)		
Uni			oics (Course contents)		No. of Period		
I	Porifera with some Phylum Protozoa up to General Characters an	special features: to order. Type studied Classification of	to order and Type Study of Protozoa: General Characters: Paramoecium, Protozo Phylum Porifera up to order.	ters and Classification of a and Disease. Porifera: Type study: Sycon.	11		
II	General Characters, Classification and Type Study of Phylum Coelenterata, Helminthes and Annelida: Coelenterata - General Characters and Classification of Phylum Coelenterata up to order. Type Study: Obelia. Helminthes - Classification of Phylum Helminthes up to order. Type study: Fasciola. Annelida- Classification of Phylum Annelida up to order. Type study: Pheretima (Earthworm).						
III	General Characters, Classification and Type Study of Phylum Arthropoda and Mollusca: Arthropoda - General Characters and Classification of Phylum Arthropoda up to order. Type study: Prawn. Mollusc- General Characters and Classification of Phylum Mollusca up to order. Type study: Pila.						
IV	Hemichordata: Gene Type Study: Aster	General Characters, Classification and Type Study of Phylum Echinodermata and Hemichordata: General Characters and Classification of Phylum Echinodermata up to order. Type Study: Asterias (Starfish). General Characters and Classification of Phylum Hemichordata Type Study: Balonoglossus					
Keywor	ds . Taxonomy, Non	nenclature, Canal S	System, Protozoa, Balanogl	ossus, Torsion			
Signa	ture of Convener & Mo		60				

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PART-C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended -

- R.L. Kotpal, Modern Textbook of Zoology Invertebrates. Rastogi Publication, Gangotri, Shivaji Road, Meerut
- V.K. Tiwari, Unified Zoology, Shivlal Agrawal and Company, Pustak Prakashak, Khajuri Bazar, Indore.
- Dr. S.M. Saxsen, Zoology, Ist Year, by a, Ram Prasad and Sons, Aagra and Bhopal.
- N. Arumugam, M.G. Ragunathan, T. Murugan, B. Ramnathan, A Textbook of Invertebrates by Saras Publication

Reference Books Recommended -

- Barrington, E.J.W. (1979). Invertebrate Structure and Functions. II Edition. E.L.B.S. and Nelson.
- Boradale, L.A. and Potts, E.A.(1961) Invertebrates: A Manual for the use of Students. Asia Publishing Home.
- Bushbaum, R. (1964). Animals without Backbones. University of Chicago Press.
- Hyman, L H. (1940-67). The Invertebrates, Vol. I-VI. McGraw-Hill, New York.

Online Resources-

http://ndl.iitkgp.ac.in/he document/inflibnet epgp/inflibnet epgp/IN I e P P 1 Z 512
 96 P 0 B o p 51542 M 1 M L c P D a P o E P 1 51562 51563?e=9|*||

PART -D: Assessment and Evaluation							
Suggested Continuous	Suggested Continuous Evaluation Methods:						
Maximum Marks:	100 Marks						
Continuous Internal As	ssessment (CIA): 30 Marks						
End Semester Exam (E	SE): 70 Marks						
Continuous Internal	Internal Test / Quiz-(2): 20 +20	Better marks out of the two Test / Quiz					
Assessment (CIA):	Assignment / Seminar - 10	+ obtained marks in Assignment shall be					
(By Course Teacher)	Total Marks - 30	considered against 30 Marks					
End Semester Two section – A & B							
Exam (ESE):	Section A: Q1. Objective $-10 \text{ x1} = 10 \text{ I}$	Mark; Q2. Short answer type- 5x4 =20 Marks					
	Section B: Descriptive answer type qts., 1 out of 2 from each unit-4x10=40 Marks						

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Name and Signature of Convener & Members of CBoS:

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			COUR	SE CURRICULUM		
P	ART	- A: I	ntroductio	n		×
		m: Bachelor in a / Degree/ Honor		Semester - III	Session: 2024-2	2025
1	Cou	rse Code	ZOSC-03P		×	·
2	Cou	rse Title	Diversity of Inv	vertebrates		
3	Cou	rse Type	Discipline Spec	ific Lab Course		· · · · · · · · · · · · · · · · · · ·
4	Pre-	requisite (if, any)		As per H	Program	1
5	After successfully completing lab course the students will be able to- Develop understanding on the diversity of life with regard nonchordates. Course Learning. Outcomes (CLO) After successfully completing lab course the students will be able to- Develop understanding on the diversity of life with regard nonchordates. Acquired the irmorphological characteristics. Develop critical understanding how animals have changed from simple form to complex body plan. Acquired the detailed knowledge to think and interpret different animal species individually.					
6		lit Value	1 Credits		ratory or Field learning/I	Training
7		l Marks	Max. Marks:	50	Min Passing Marks:	20
PA	RT -		nt of the Co			
		Total No. o	of learning-Train	ning/performance Perio	ds: 30 Periods (30 Hours)	
	dule /Field			opics (Course contention ist of labs to be conduct		No. of Period
 Study of different non-chordate taxa animals through models, slides and museum specimens in the laboratory. Emphasising classification, biogeography and diagnostic features of: Protozoa, Porifera, Coelenterata (also with special reference to Corals of Cnidarians), Helminthes, Annelida, Arthropoda, Mollusca and Echinodermata. Histological slides of different Non chordate Taxa, slides of various larval forms of Helminthes, Crustacea and Echinodermata Dissection of Pheretima to expose Alimentry canal and circum pharyngeal ganglia through Alternative methods of dissection. Dissection of Periplaneta to expose the digestive system, salivary glands and Mouth Parts through Alternative methods of dissection. Dissection of Prawn to expose appendages and statocyst through Alternative methods of dissection Dissection of Pila to expose Nervous System through Alternative methods of dissection. Study of Invertebrate animals in nature during a survey of a National Park/ Forest area/College campus. Group discussion/Viva or Seminar presentation on two related topics: Polymorphism, Parasitic adaptations, Freshwater sponges, Biodiversity and climate change, Tree of Life, Marine zooplanktons and their ecological importance including oxygen evolution. An "animal album or Practical Record" containing sketches, photographs, cut outs, with appropriate write up about the above mentioned taxa. Study of some videos to develop understanding on the animals of different taxa. Museum specimens, Histological slides, Alternative of Dissection, Animal album 						
				al slides, Alternative of Dis	ssection, Animal album	
igna	iture o	f Convener & Me	embers (CBoS):	D.	0.4	

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PART-C: **Learning Resources**

Text Books, Reference Books and Others

Text Books Recommended -

- S.S. Lal, Practical Zoology, Invertebrate. 12th Edition Rastogi Publications, Meerut, New Delhi.
- A manual of practical Zoology. Dr. P.S Verma, S. Chand Publication, New Delhi Reference Books Recommended-
 - Barrington, E.J.W. (1979). Invertebrate Structure and Functions. II Edition. E.L.B.S. and Nelson.
 - Hyman, L H. (1940-67). The Invertebrates, Vol. I-VI. McGraw-Hill, New York.

Online Resources-

- > https://www.youtube.com/watch?v=GC5Ua6m873I
- > https://www.youtube.com/watch?v=-qvM2Hski84

PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks:

50 Marks

Continuous Internal Assessment (CIA):

15 Marks

End Semester Exam (ESE):

35 Marks

Continuous Internal Assessment (CIA):

Internal Test / Quiz-(2): Assignment/Seminar +Attendance - 05

Better marks out of the two Test / Ouiz

(By Course Teacher)

Total Marks -15 + obtained marks in Assignment shall be

considered against 15 Marks

End Semester

Laboratory / Field Skill Performance: On spot Assessment

- 20 Marks

Managed by Course teacher

Exam (ESE):

A. Performed the Task based on lab. work

B. Spotting based on tools & technology (written) - 10 Marks as per lab. status C. Viva-voce (based on principle/technology)

Name and Signature of Convener & Members of CBoS:

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	ĕ			SE CURRICULUM		_
P	AR	T- A:	ntroductio	n		
		ram: Bachelor in ma/Degree/Honors		Semester - III	Session: 2024-20	025
1		ourse Code	ZOSE- 01T			
2	Co	urse Title	Parasitology			
3	Co	ourse Type	Discipline Spec	ific Elective		
4	Pr	e-requisite (if, any)		As per I	Program	
5		 Students should comprehend the life cycles of various parasites including their modes of transmission, intermediate hosts, and definitive hosts. Gain insights into the interactions between parasites and their hosts including mechanisms of host invasion, evasion of host defenses, an pathogenesis. Develop the ability to recognize clinical manifestations associated with parasitic infections Understand the epidemiology of parasitic diseases Communicate effectively about parasitic diseases, including educatin 			finitive hosts, es, and ed with	
6	Cr	edit Value	the public. 3 Credits	Credit = 15 Hou	rs - learning & Observat	ion
7	To	tal Marks	Max. Marks:	100	1	40
PA	RT	-B: Conte	nt of the Co	ourse		
					riod) - 45 Periods (45 Ho	ırs)
Un	nit			pics (Course content		No. of
I		Viral diseases: General characters, Structure and Classification of virus, A brief account of pathogenic viruses. Brief history of microbiology: germ theory of disease, Host pathogen interaction: invasion, antigenic heterogeneity, toxins and enzymes secretions. Viral diseases: hepatitis, influenza, AIDS, Covid -19 with emphasis on their causative agents, pathogenesis, diagnosis, prophylaxis and chemotherapy.		12		
I	I	Bacterial & Fungal diseases: General characters, Structure and Classification of bacteria. Bacterial Diseases: A brief account of pathogenic bacteria, discovery of penicillin, diseases caused by Streptococcus pneumonia, Salmonella typhi, Escherichia coli, Mycobacterium tuberculosis, Rickettsia, Spirochaetes Fungal diseases: Ringworm infection, Aspergillosis, candidiasis.				
I	II	Protozoan parasites: An overview of protozoa & disease. Introduction to parasites and parasitic diseases. Mode of transmission, portals of entry and implications of parasitism. Parasitic adaptations. Concept of zoonotic diseases. Protozoan diseases of		11		

Signature of Convener & Members (CBoS):

Wuchereria branrofti. Vector insects.

IV

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Helminth parasites: An overview of Helminthic diseases. Brief account of life History, pathogenicity of the following Helminths with reference to Man, prophylaxis

and treatment. Taenia solium, Schistosoma haematobium, Ascaris lumbricoides,

Micrology, pathogenic bacteria, Protozoan parasites, Helminth parasites, Toxicology, toxic againts

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PART-C: Learning Resources

Text Books, Reference Books and Others

Text Books Recommended -

- Agrawal Anju Principles of Toxicology
- Parija, S. C. (2013) Textbook of Medical Parasitology, Protozoology & Helminthology (Text and colour Atlas), IV Edition, All India Publishers & Distributers, New Delhi.
- ➤ Ichhpujani, R.L. and Bhatia, R. (2009) Medical Parasitology. III Edition, Jaypee BrothersMedical Publishers (P) Ltd., New Delhi
- Ahmed, N., Dawson, M., Smith, C. and Wood, Ed. (2007) Biology of Disease. Taylor and Francis Group.
- Chatterjee, K. D. (2009). Parasitology: Protozoology and Helminthology. XIII Edition, CBSPublishers & Distributors (P) Ltd.
- Arora, D. R and Arora, B. (2001) Medical Parasitology. II Edition. CBS Publications and Distributors
- ➤ Chatterjee, K.D (2015) Parasitology (13th edition)

Reference Books Recommended -

- > Jawetz, M. and Adelberg (2015) Medical Microbiology (27th edition)
- Noble, E.R. and Noble, G.A. (1989) Parasitology: The Biology of Animal Parasites. VIEdition, Lea and Febiger

Online Resources-

- http://ndl.iitkgp.ac.in/he document/inflibnet epgp/inflibnet epgp/IN I e P P 1 Z 512 96 P 0 B o p 51542 M 1 M L c P D a P o E P 1 51562 51563?e=9|*||
- http://ndl.iitkgp.ac.in/he document/inflibnet epgp/inflibnet epgp/IN I e P P 1 Z 512 96 P 0 B o p 51542 M 2 P d a p o w b 51594 51595?e=3|*|||

Suggested Continuous Evaluat	on Methods:	
Maximum Marks:	100 Marks	

Continuous Internal Assessment (CIA): 30 Marks End Semester Exam (ESE): 70 Marks

PART -D: Assessment and Evaluation

Continuous Internal Internal Test / Quiz-(2): 20 +20
Assessment (CIA):
(By Course Teacher)

Assignment / Seminar - 10
Total Marks - 30

Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 30 Marks

End Semester
Exam (ESE):

Two section – A & B
Section A: Q1. Objective –

Section A: Q1. Objective -10 x1=10 Mark; Q2. Short answer type- 5x4 = 20 MarksSection B: Descriptive answer type qts., 1out of 2 from each unit-4x10=40 Marks

Name and Signature of Convener & Members of CBoS:

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				SE CORRICULON		
P	ART	- A: I	ntroductio	n		
		m: Bachelor in a/Degree/Honor		Semester - III	Session: 2024-2	025
1	Cou	rse Code	ZOSE- 01P			
2	Cou	rse Title	Parasitology			
3	Cou	rse Type	Discipline Spec	Discipline Specific Elective Lab Course		
4	Pre-	requisite (if, any)		As per P		-
5		Course Learning. Outcomes (CLO) At the end of this course, the students will be able - Identify common parasitic Protozoa and Helminth. Learn techniques for studying growth of bacteria and its staining. Learn the techniques for examine Sputum, Blood, Urine and Stoo samples for pathology				
6	Cred	lit Value	1 Credits		ratory or Field learning/I	raining
7	Tota	l Marks	Max. Marks:		Min Passing Marks:	20
PA	RT -		nt of the Co		ds: 30 Periods (30 Hours)	4
81	dule			opics (Course conten		No. of Period
Study of permanent slides and specimens of parasitic Protozoans and Helminthes.						
Kevi	vords	*		elminth, ESR, Gram positiv	e and Gram negative	
		of Convener & Me		Box, Grum positiv		

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PART-C: **Learning Resources**

Text Books, Reference Books and Others

Text Books Recommended -

- Ghosh Saugala, Panikar's Text book of Parasitology. Jaipyee Brothers
- Ananthanarayan and Paniker's Textbook of Microbiology, Twelfth Edition, Universities press

Reference Books Recommended –

> K.D. Chattargee, Parasitology, CBS Publisher

Online Resources-

- http://ndl.iitkgp.ac.in/he document/swayam ugc moocs/swayam ugc moocs/IN S U M 1 U C 17 A D 4127 M L h o A L w P A o A L 34326 34327?e=7|*|||
- http://ndl.iitkgp.ac.in/he document/swayam ugc moocs/swayam ugc moocs/IN S U M 1 U C 17 A D 4127 M L h o T s a F h 10250 10251?e=8|*|||

PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

Maximum Marks:

50 Marks

Continuous Internal Assessment (CIA):

15 Marks

End Semester Exam (ESE):

35 Marks

Continuous Internal Assessment (CIA):

Internal Test / Quiz-(2): 10 & 10 Better marks out of the two Test / Quiz

(By Course Teacher)

Assignment/Seminar +Attendance - 05

+ obtained marks in Assignment shall be

Total Marks -15 considered against 15 Marks

End Semester Exam (ESE):

Laboratory / Field Skill Performance: On spot Assessment A. Performed the Task based on lab. work

Managed by - 20 Marks

Course teacher

B. Spotting based on tools & technology (written) – 10 Marks as per lab. status C. Viva-voce (based on principle/technology)

Name and Signature of Convener & Members of CBoS:

CourseType Value Added Course Pre-requisite(if, any) Course Learning. Outcomes(CLO) Create general medical awareness in daily life. Analyze the measures to live a healthy life. CreditValue 2 Credits Credit = 15 Hours -learning & Observation Min Passing Marks:20 PART -B: Content oftheCourse Total No. of Teaching-learning Periods (01 Hr. per period) - 30 Periods (30 Hours)	······································		COURS	E CURRICULUM		
Course Code ZOVAC-01	PA	ART-A: Introdu	ction			
Course Code ZOVAC-01	Pro	gram:Bachelor		Semester _ I/III/V	Sossion: 2024 2	0025
Course Title	(Certificate / Diploma / Degree)		gree)	Schiester — 1/111/ V	Session. 2024-2	1025
CourseType Value Added Course		Course Code	ZOVAC-01			
Pre-requisite(if, any) As per Program		Course Title	Public Health a	and Hygiene		
Varietion and Health: Classification of food into micro and macro nutrients. Balanced diet. Importance of dietary fibres. Significance of breast feeding. Malnutrition anomalies: Anaemia (Iron and B12 deficiency), Kwashiorkar, Marasmus, Rickets, Goiter (cause, symptoms and prevention). Sexually transmitted diseases: hypertension, and prevention). Sexually transmitted diseases: hypertension, and prevention). Sickness, Fire Safety: Fire Control and Fire Extinguisher Categories.		CourseType	Value Added C	ourse		
Course Learning Outcomes(CLO)	4	Pre-requisite(if, any)		As per Prog	gram	
TotalMarks	5 Course Learning. Outcomes(CLO)		Identify currerAware about to obesity.Create general	e importance of hygiene. nt national and global public the issues of food safety, wate I medical awareness in daily	health problems. er safety, vaccination, a	nd
TotalMarks Max.Marks:50 Min Passing Marks:20 PART -B: Content oftheCourse Total No. of Teaching-learning Periods (01 Hr. per period) - 30 Periods (30 Hours) Unit Topics (Course Contents) No. of Period Maintenance of personal hygiene: Introduction to public health and hygiene: determinants and factors. Pollution and health hazards: Water and air borne diseases. Radiation hazards: Network Towers and electronic gadgets (recommended levels, effects and precaution). Personal hygiene: Oral hygiene, Menstrual Hygiene, Ideal hand washing methods, Ideal food keeping methods. II Nutrition and Health: Classification of food into micro and macro nutrients. Balanced diet. Importance of dietary fibres. Significance of breast feeding. Malnutrition anomalies: Anaemia (Iron and B12 deficiency), Kwashiorkar, Marasmus, Rickets, Goiter (cause, symptoms, precaution and cure). III Communicable/Contagious and Non-Communicable Diseases: Communicable viral diseases: measles, chicken pox, swine flu (their causal agents, symptoms and prevention). Communicable bacterial diseases: tuberculosis, typhoid, cholera (their causal agents, symptoms and prevention). Sexually transmitted diseases: AIDS, Syphilis (their causal agents, symptoms and prevention). IV Public Health Management & General Medical Awareness: Vaccination, Benefits of institutional deliveries, Deworming drive: Use of Albendazole. First Aid: Electrocution, Road Accident, Burn, Lightning Strike, Envenomation. Importance of Cardiopulmonary resuscitation (CPR). Blood Donation: Eligibility, Health Screening. Road Safety: Good Samaritan, General safety precautions on Road and Motion Sickness. Fire Safety: Fire Control and Fire Extinguisher Categories.	6	CraditValua				
Total No. of Teaching-learning Periods (01 Hr. per period) - 30 Periods (30 Hours) Unit Topics (Course Contents) No. of Periods Maintenance of personal hygiene: Introduction to public health and hygiene: determinants and factors. Pollution and health hazards: Water and air borne diseases. Radiation hazards: Network Towers and electronic gadgets (recommended levels, effects and precaution). Personal hygiene: Oral hygiene, Menstrual Hygiene, Ideal hand washing methods, Ideal food keeping methods. II Nutrition and Health: Classification of food into micro and macro nutrients. Balanced diet. Importance of dietary fibres. Significance of breast feeding. Malnutrition anomalies: Anaemia (Iron and B12 deficiency), Kwashiorkar, Marasmus, Rickets, Goiter (cause, symptoms, precaution and cure). Communicable/Contagious and Non-Communicable Diseases: Communicable viral diseases: measles, chicken pox, swine flu (their causal agents, symptoms and prevention). Communicable bacterial diseases: tuberculosis, typhoid, cholera (their causal agents, symptoms and prevention). Non-communicable diseases: hypertension, arthritis, Diabetes, peptic ulcer, obesity, depression and anxiety (their causal agents, symptoms and prevention). IV Public Health Management & General Medical Awareness: Vaccination, Benefits of institutional deliveries, Deworming drive: Use of Albendazole. First Aid: Electrocution, Road Accident, Burn, Lightning Strike, Envenomation. Importance of Cardiopulmonary resuscitation (CPR). Blood Donation: Eligibility, Health Screening. Road Safety: Good Samaritan, General safety precautions on Road and Motion Sickness. Fire Safety: Fire Control and Fire Extinguisher Categories.						on
Unit Topics (Course Contents) No. of Periods (30 Hours) No. of Periods (Maintenance of personal hygiene: Introduction to public health and hygiene: determinants and factors. Pollution and health hazards: Water and air borne diseases. Radiation hazards: Network Towers and electronic gadgets (recommended levels, effects and precaution). Personal hygiene: Oral hygiene, Menstrual Hygiene, Ideal hand washing methods, Ideal food keeping methods. II Nutrition and Health: Classification of food into micro and macro nutrients. Balanced diet. Importance of dietary fibres. Significance of breast feeding. Malnutrition anomalies: Anaemia (Iron and B12 deficiency), Kwashiorkar, Marasmus, Rickets, Goiter (cause, symptoms, precaution and cure). III Communicable/Contagious and Non-Communicable Diseases: Communicable viral diseases: measles, chicken pox, swine flu (their causal agents, symptoms and prevention). Communicable bacterial diseases: tuberculosis, typhoid, cholera (their causal agents, symptoms and prevention). Sexually transmitted diseases: AIDS, Syphilis (their causal agents, symptoms and prevention). Non-communicable diseases: hypertension, arthritis, Diabetes, peptic ulcer, obesity, depression and anxiety (their causal agents, symptoms and prevention). IV Public Health Management & General Medical Awareness: Vaccination, Benefits of institutional deliveries, Deworming drive: Use of Albendazole. First Aid: Electrocution, Road Accident, Burn, Lightning Strike, Envenomation. Importance of Cardiopulmonary resuscitation (CPR). Blood Donation: Eligibility, Health Screening. Road Safety: Good Samaritan, General safety precautions on Road and Motion Sickness. Fire Safety: Fire Control and Fire Extinguisher Categories. Health, Hygiene, Nutrition, Disorders, Vaccination, Safety, Fire, Blood, Medication.			L		ini i assing wai ks.20	
Unit Topics (Course Contents) No. of Period Maintenance of personal hygiene: Introduction to public health and hygiene: determinants and factors. Pollution and health hazards: Water and air borne diseases. Radiation hazards: Network Towers and electronic gadgets (recommended levels, effects and precaution). Personal hygiene: Oral hygiene, Menstrual Hygiene, Ideal hand washing methods, Ideal food keeping methods. II Nutrition and Health: Classification of food into micro and macro nutrients. Balanced diet. Importance of dietary fibres. Significance of breast feeding. Malnutrition anomalies: Anaemia (Iron and B12 deficiency), Kwashiorkar, Marasmus, Rickets, Goiter (cause, symptoms, precaution and cure). Communicable/Contagious and Non-Communicable Diseases: Communicable viral diseases: measles, chicken pox, swine flu (their causal agents, symptoms and prevention). Sexually transmitted diseases: AIDS, Syphilis (their causal agents, symptoms and prevention). Non-communicable diseases: hypertension, arthritis, Diabetes, peptic ulcer, obesity, depression and anxiety (their causal agents, symptoms and prevention). IV Public Health Management & General Medical Awareness: Vaccination, Benefits of institutional deliveries, Deworming drive: Use of Albendazole. First Aid: Electrocution, Road Accident, Burn, Lightning Strike, Envenomation. Importance of Cardiopulmonary resuscitation (CPR). Blood Donation: Eligibility, Health Screening. Road Safety: Good Samaritan, General safety precautions on Road and Motion Sickness. Fire Safety: Fire Control and Fire Extinguisher Categories. Puwords Health, Hygiene, Nutrition, Disorders, Vaccination, Safety, Fire, Blood, Medication.					- 30 Periods (30 Hou	re)
determinants and factors. Pollution and health hazards: Water and air borne diseases. Radiation hazards: Network Towers and electronic gadgets (recommended levels, effects and precaution). Personal hygiene: Oral hygiene, Menstrual Hygiene, Ideal hand washing methods, Ideal food keeping methods. II Nutrition and Health: Classification of food into micro and macro nutrients. Balanced diet. Importance of dietary fibres. Significance of breast feeding. Malnutrition anomalies: Anaemia (Iron and B12 deficiency), Kwashiorkar, Marasmus, Rickets, Goiter (cause, symptoms, precaution and cure). III Communicable/Contagious and Non-Communicable Diseases: Communicable viral diseases: measles, chicken pox, swine flu (their causal agents, symptoms and prevention). Communicable bacterial diseases: tuberculosis, typhoid, cholera (their causal agents, symptoms and prevention). Sexually transmitted diseases: AIDS, Syphilis (their causal agents, symptoms and prevention). Non-communicable diseases: hypertension, arthritis, Diabetes, peptic ulcer, obesity, depression and anxiety (their causal agents, symptoms and prevention). IV Public Health Management & General Medical Awareness: Vaccination, Benefits of institutional deliveries, Deworming drive: Use of Albendazole. First Aid: Electrocution, Road Accident, Burn, Lightning Strike, Envenomation. Importance of Cardiopulmonary resuscitation (CPR). Blood Donation: Eligibility, Health Screening. Road Safety: Good Samaritan, General safety precautions on Road and Motion Sickness. Fire Safety: Fire Control and Fire Extinguisher Categories.	Unit Topics (Course Contents) No. of					
Nutrition and Health: Classification of food into micro and macro nutrients. Balanced diet. Importance of dietary fibres. Significance of breast feeding. Malnutrition anomalies: Anaemia (Iron and B12 deficiency), Kwashiorkar, Marasmus, Rickets, Goiter (cause, symptoms, precaution and cure). III Communicable/Contagious and Non-Communicable Diseases: Communicable viral diseases: measles, chicken pox, swine flu (their causal agents, symptoms and prevention). Communicable bacterial diseases: tuberculosis, typhoid, cholera (their causal agents, symptoms and prevention). Sexually transmitted diseases: AIDS, Syphilis (their causal agents, symptoms and prevention). Non-communicable diseases: hypertension, arthritis, Diabetes, peptic ulcer, obesity, depression and anxiety (their causal agents, symptoms and prevention). IV Public Health Management & General Medical Awareness: Vaccination, Benefits of institutional deliveries, Deworming drive: Use of Albendazole. First Aid: Electrocution, Road Accident, Burn, Lightning Strike, Envenomation. Importance of Cardiopulmonary resuscitation (CPR). Blood Donation: Eligibility, Health Screening. Road Safety: Good Samaritan, General safety precautions on Road and Motion Sickness. Fire Safety: Fire Control and Fire Extinguisher Categories.	Ι	Maintenance of personal hygiene: Introduction to public health and hygiene: determinants and factors. Pollution and health hazards: Water and air borne diseases. Radiation hazards: Network Towers and electronic gadgets (recommended levels, effects and precaution). Personal hygiene: Oral hygiene, Menstrual Hygiene, Ideal hand			07	
diseases: measles, chicken pox, swine flu (their causal agents, symptoms and prevention). Communicable bacterial diseases: tuberculosis, typhoid, cholera (their causal agents, symptoms and prevention). Sexually transmitted diseases: AIDS, Syphilis (their causal agents, symptoms and prevention). Non-communicable diseases: hypertension, arthritis, Diabetes, peptic ulcer, obesity, depression and anxiety (their causal agents, symptoms and prevention). IV Public Health Management & General Medical Awareness: Vaccination, Benefits of institutional deliveries, Deworming drive: Use of Albendazole. First Aid: Electrocution, Road Accident, Burn, Lightning Strike, Envenomation. Importance of Cardiopulmonary resuscitation (CPR). Blood Donation: Eligibility, Health Screening. Road Safety: Good Samaritan, General safety precautions on Road and Motion Sickness. Fire Safety: Fire Control and Fire Extinguisher Categories. Perwords Health, Hygiene, Nutrition, Disorders, Vaccination, Safety, Fire, Blood, Medication.	II Nutrition and Health: Classification of food into micro and macro nutrients. Balan diet. Importance of dietary fibres. Significance of breast feeding. Malnutrit anomalies: Anaemia (Iron and B12 deficiency), Kwashiorkar, Marasmus, Rick			feeding. Malnutrition, Marasmus, Rickets,	07	
Public Health Management & General Medical Awareness: Vaccination, Benefits of institutional deliveries, Deworming drive: Use of Albendazole. First Aid: Electrocution, Road Accident, Burn, Lightning Strike, Envenomation. Importance of Cardiopulmonary resuscitation (CPR). Blood Donation: Eligibility, Health Screening. Road Safety: Good Samaritan, General safety precautions on Road and Motion Sickness. Fire Safety: Fire Control and Fire Extinguisher Categories. Paywords Health, Hygiene, Nutrition, Disorders, Vaccination, Safety, Fire, Blood, Medication.	Ш	diseases: measles, chicken pox, swine flu (their causal agents, symptoms and prevention). Communicable bacterial diseases: tuberculosis, typhoid, cholera (their causal agents, symptoms and prevention). Sexually transmitted diseases: AIDS, Syphilis (their causal agents, symptoms and prevention). Non-communicable diseases: hypertension, arthritis, Diabetes, peptic ulcer, obesity, depression and anxiety (their causal agents,			09	
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PART-C:Learning Resources

Text Books, Reference Books and Others

Text BooksRecommended -

- Mary Jane Schneider (2011) Introduction to Public Health.
- Muthu, V.K. (2014) A Short Book of Public Health.

Reference Books Recommended

- Detels, R. (2017) Oxford Textbook of Public Health (6th edition).
- Gibney, M.J. (2013) Public Health Nutrition.
- ➤ Wong, K.V. (2017) Nutrition, Health and Disease.

Online Resources-

- > https://www.fda.gov/drugs/investigational-new-drug-ind-application/general-drug-categories
- https://www.nfpa.org/news-blogs-and-articles/blogs/2023/08/01/fire-extinguisher-types
- > https://www.redcross.org/take-a-class/cpr/performing-cpr/what-iscpr#:~:text=What%20Is%20the%20Purpose%20of,healthcare%20workers%20and%20eme rgency%20responders.
- https://unesdoc.unesco.org/ark:/48223/pf0000226792

Online Resources-

- https://epgp.inflibnet.ac.in/epgpdata/uploads/epgp_content/S001827/P001833/M029447/ET/15 245666876.21O1.pdf
- https://www.nhm.gov.in/images/pdf/programmes/mhs/Training Materials/PDF English/read ing material.pdf

PART-D:Assessment and Evaluation

Suggested Continuous Evaluation Methods:

MaximumMarks: 50 Marks

ContinuousInternal As	ContinuousInternal Assessment(CIA):15 Marks						
EndSemesterExam(ES	EndSemesterExam(ESE):35Marks						
Continuous	Internal Test / Quiz-(2): 10 &10	Better marks out of thetwo Test /					
InternalAssessment	Assignment/Seminar +Attendance- 05	Quiz+obtained marks in Assignment					
(CIA):	Total Marks -15	shall be considered against 15 Marks					
(By Course Teacher)							
End Semester	End Semester Two section – A & B						
	Section A: Q1. Objective $-05 \text{ x1} = 05 \text{ Mark}$; Q2. Short answer type- $5x2 = 10 \text{ Mark}$						
	Section B: Descriptive answer type qts., 1 out of 2 from each unit-4x05=20Marks						

Name and Signature of Convener & Members of CBoS: Mahallar offy benow lo