

AMENDMENTS IN CURRICULUM OF SEMESTER III & IV OF MASTER OF PUBLIC HEALTH PROGRAM UNDER REGULATION 2023

For candidates admitted from the academic year 2023-24

FACULTY OF MEDICAL AND HEALTH SCIENCES

SRM Institute of Science and Technology

(Deemed to be University u/s 3 of UGC Act, 1956)
Kattakulathur-603203,
Chengalpattu Dist, Tamil Nadu, India



1. Short Title and Commencement

These regulations shall be called **'MASTER OF PUBLIC HEALTH** regulations 2023 amendment', in short title MPH under SRM Institute of Science and Technology, Kattankulathur, Chengalpattu District, Tamil Nadu. This has been approved by the 55th Academic Council meeting of SRM Institute of Science and Technology held on 25 May 2024. The regulations shall come into force for the candidates admitted from the academic year 2023-2024 onwards.

In the **Second year** (third semester), the students will select any one of the specializations offered by the School of Public health. The specializations currently offered are:

- · Health Services Management
- · Epidemiology and Biostatistics
- · Advanced Health Economics and Financing
- Environmental Health
- Health Communication

The third semester consists of course work in the chosen specialization. Students identify a topic of their interest and make an in-depth study of the topic and submit a dissertation.

In the fourth semester, the students will be attached to relevant organizations for internship for 4 months. The students get involved in day-to-day functioning of the organization and get hands on experience. They prepare a report describing the organisation and their experience and make a presentation. This is followed by a viva voce. An Evaluation Committee of the School consisting of minimum one external and one internal faculty member would evaluate the candidates based on their presentation, internship report and viva voce.

2. List of Courses

Course code	Name of Course	L	Т	Р	С
	Semester – FAD				
PH23101T	Introduction to public health	1	1	0	2
PH23102T	Basic Epidemiology	2	2	0	4
PH23103T	Basic Biostatistics	2	2	0	4
PH23104T	Public Health Programs: An overview; Practical on searching information and preparing scientific write ups and making presentations	3	3	0	6
PH23105T	Demography	2	1	0	3
PH23106T	Health systems, health related policies, and laws/ acts, and field visits (SC, PHC, CHC, DH, DHO)	3	2	0	5
VACSPH01	##Fundamentals of Microsoft office	2	0	0	0
	Total Learning Credits				24
	Semester - II				
PH23201T	Introduction to health management	2	1	0	3
PH23202T	Introduction to health economics – Cost-effective analysis, cost-benefit analysis, cost-utilization and benefit incidence analysis	2	1	0	3
PH23203T	Introduction to environmental health	2	1	0	3
PH23204T	Introduction to health promotion and health communication	2	1	0	3

PH23205T	Research methodology		2	2	0	4
PH23206P	Practicum - designing and conducting a research study (including data collection in field) and repowriting and presentation*		0	0	8	4
PH23207P	Data analysis using statistical software, practicum of data analysis*					
VACSPH02	##Communication skills		2	0	0	0
	Total Learning Cred	its				24
	Semester III					
Common Mod	lules	L	Т		Р	С
PH23301T	Systematic review and meta-analysis*	1	1		0	2
PH23302T	Public health informatics	2	0		0	2
PH23303T	Health promotion	2	0		0	2
PH23304T	Geospatial statistics	1	1		0	2
VACSPH07	##Interview skills and CV writing	1	0		0	0
Specialization	: Health Services <mark>Management</mark>					
	Project planni <mark>ng, impl</mark> ementation, monitoring and evaluation (PIME)	3	2		0	5
PH23306T	Management of public health programs	3	2		0	5
Specialization	: Epi <mark>demi</mark> ology & Biostatistics	3				
PH23307T	Epid <mark>emi</mark> ological methods and epidemic management	3	2		0	5
PH23308T	Ap <mark>plied</mark> multivariate analysis	3	2		0	5
Specialization	: Advanced Health Economics and Financing					
PH23309T	Health economics and healthcare financing	3	2		0	5
PH23310T	Bu <mark>dge</mark> t analysis and economic evaluation	3	2		0	5
Specialization	: E <mark>nvir</mark> onmental Health					
PH23311T	Environmental health risk assessment	3	2		0	5
PH23312T	Geo-s <mark>patia</mark> l technologies in environmental health	3	2		0	5
Specialization	: Health Communication					•
	Strategic communication and designing health campaigns	3	2		0	5
PH / 3 3 1 / 1	Media analysis and evaluating health promotion interventions	3	2		0	5
	Total Learning Credits					20
	Semester IV		•	•		
PH23401P	Dissertation*	0	0		10	5
PH23402P	Internship	0	0		30	15
	Total Learning Credits					20

Course code ending with T are theory course and course code ending with P are practical course. *Fully Internal courses. End semester examination shall be conducted by the department and marks shall be submitted to the University.

##Fully internal value-added course and grades not included to compute SGPA & CGPA

3. Semester-wise distribution of marks

Internal assessment	University E	Examination	Total (IA + 50% weightage of university Examination)				
50	Min	Max	Min	Max			
30	25	50	50	100			

Course No.	Name of Course	Internal		ersity ination	То	tal
		Assessment	Min	Max	Min	Max
	Semester - I					
PH23101T	Introduction to public health	50	25	50	50	100
PH23102T	Basic Epidemiology	50	25	50	50	100
PH23103T	Basic Biostatistics	50	25	50	50	100
PH23104T	Public Health Programs: An overview; Practical on searching information and preparing scientific write ups and making presentations	50	25	50	50	100
PH23105T	Demography	50	25	50	50	100
PH23106T	Health systems, health related policies, and laws/ acts, and field visits (SC, PHC, CHC, DH, DHO)	50	25	50	50	100
VACSPH01	##Fundamentals of Microsoft office	100	-	-	50	100
	Semester -II					
PH23201T	Introduct <mark>ion to</mark> health management	50	25	50	50	100
PH23202T	Introduction to health economics – Costeffective analysis, cost-benefit analysis, cost-utilization and benefit incidence analysis	50	25	50	50	100
PH23203T	Intr <mark>oduc</mark> tion to environmental health	50	25	50	50	100
PH23204T	Intr <mark>oduc</mark> tion to health promotion and health communication	50	25	50	50	100
PH23205T	Res <mark>earc</mark> h methodology	50	25	50	50	100
PH23206P	Practicum - designing and conducting a research study (including data collection in field) and report writing and presentation*	100 EAD	-	-	50	100
PH23207P	Data analysis using statistical software, practicum of data analysis*	100	-	-	50	100
VACSPH02	##Communication skills	100	-	-	50	100
	Semester -III					
Common Mo	dules					
PH23301T	Systematic review and meta-analysis*	100	-	-	50	100
PH23302T	Public health informatics	50	25	50	50	100
PH23303T	Health promotion	50	25	50	50	100
PH23304T	Geospatial statistics	50	25	50	50	100
VACSPH07	##Interview skills and CV writing	100	-	-	50	100
	Specialization: Health Service	es Managemen	nt			
PH23305T	Project planning, implementation, monitoring and evaluation (PIME)	50	25	50	50	100
PH23306T	Management of public health programs	50	25	50	50	100
	Specialization: Epidemiology &	Biostatistics				
PH23307T	Epidemiological methods and epidemic management	50	25	50	50	100
PH23308T	Applied multivariate analysis	50	25	50	50	100
	PM Institute of Science and Technology - Academic C					

Specialization: Advance Health Eco	nomics and Fi	nancing	l							
Health economics and healthcare financing	50	25	50	50	100					
Budget analysis and economic evaluation	50	25	50	50	100					
Specialization: Environm	ental Health									
Environmental health risk assessment	50	25	50	50	100					
Geo-spatial technologies in environmental health	50	25	50	50	100					
Specialization: Health Co	mmunication									
Strategic communication and designing health campaigns	50	25	50	50	100					
Media analysis and evaluating health promotion interventions	50	25	50	50	100					
Semester IV										
Dissertation*	100	-	-	50	100					
Internship	50	25	50	50	100					
	Health economics and healthcare financing Budget analysis and economic evaluation Specialization: Environm Environmental health risk assessment Geo-spatial technologies in environmental health Specialization: Health Cor Strategic communication and designing health campaigns Media analysis and evaluating health promotion interventions Semester IV Dissertation*	Health economics and healthcare financing Budget analysis and economic evaluation Specialization: Environmental Health Environmental health risk assessment Geo-spatial technologies in environmental health Specialization: Health Communication Strategic communication and designing health campaigns Media analysis and evaluating health promotion interventions Semester IV Dissertation* 100	Health economics and healthcare financing Budget analysis and economic evaluation Specialization: Environmental Health Environmental health risk assessment Geo-spatial technologies in environmental health Specialization: Health Communication Strategic communication and designing health campaigns Media analysis and evaluating health promotion interventions Semester IV Dissertation* 100 -	Sudget analysis and economic evaluation 50 25 50	Health economics and healthcare financing50255050Budget analysis and economic evaluation50255050Specialization: Environmental HealthEnvironmental health risk assessment50255050Geo-spatial technologies in environmental health50255050Specialization: Health CommunicationStrategic communication and designing health campaigns50255050Media analysis and evaluating health promotion interventions50255050Semester IVDissertation*10050					

Course code ending with T are theory courses and course code ending with P are practical courses. *Fully Internal courses. End semester examination shall be conducted by the department and marks shall be submitted to the University.

##Fully internal value-added course and grades not included to compute SGPA & CGPA



ACADEMIC CURRICULA

POSTGRADUATE DEGREE PROGRAMMES

Master of Public Health

Two Years (Full-Time)

Learning Outcome Based Education
Academic year 2023 - 2024



FACULTY OF MEDICINE AND HEALTH SCIENCES

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

(Deemed to be University u/s 3 of UGC Act, 1956) Kattankulathur, Chengalpattu District 603203, Tamil Nadu, India





SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

Kattankulathur, Kancheepuram District 603203, Tamil Nadu, India

MASTER IN PUBLIC HEALTH

1. Department Vision Statement

Stmt - 1 Leadership for equitable, sustainable and holistic health

2. Depa	Department Mission Statement						
Stmt - 1	tmt - 1 Create thought leaders and change makers for public health						
Stmt - 2	Design appropriate holistic and sustainable programs						
Stmt - 3	tmt - 3 Converge multi-disciplinary efforts to make a difference						
Stmt - 4	Be guided by the values of LEAPS (Leadership, Ethics, Accountability, Perseverance and Sensitivity)						

3. Pro	3. Program Education Objectives (PEO)						
PEO - 1	PEO - 1 Development in chosen profession and or progress towards an advance degree						
PEO - 2	EO - 2 The trust and respect of other public health professionals as effective and ethical members						
PEO - 3	A reputation as a source of innovative public health solutions to complex public health issues						
PEO - 4	O - 4 The core competencies will lead to achieve zero harm in any disasters						
PEO - 5	PEO - 5 To conceptualize design, conduct and analyses public health Research/ data						

4. Consi	stency of PEO's wi <mark>th I</mark>	Mission of the Departme	nt	18 11	
	Mission Stmt 1	Mission Stmt 2	Mission Stmt 3	Mission Stmt 4	
PEO - 1	Н	Z SHZZ	Howard	2 H	
PEO - 2	Н	H. Salah	H	Н	
PEO - 3	Н	HYPER	H H	Н	
PEO - 4	Н	Н	H H	Н	
PEO - 5	Н	H	H	H	

H – High Correlation, M – Medium Correlation, L – Low Correlation

5. Cons	5. Consistency of PEO's with Program Learning Outcomes (PLO)														
		Program Learning Outcomes (PLO)													
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.
	Disciplinary Knowledge	Critical Thinking	Problem Solving	Analytical Reasoning	Research Skills	Team Work	Scientific Reasoning	Reflective Thinking	Self-Directed Learning	Multicultural Competence	Ethical Reasoning	Community Engagement	ICT Skills	Leadership Skills	Life Long Learning
PEO - 1	Н	Н	М	Н	Н	Н	Н	М	L	М	Н	Н	М	Н	М
PEO - 2	Н	Н	М	Н	Н	Н	Н	М	L	М	Н	Н	М	Н	М
PEO - 3	Н	Н	М	Н	H	Н	Н	М	L	М	Н	Н	М	Н	М
PEO - 4	Н	Н	М	Н	Н	Н	Н	М	L	М	Н	Н	М	Н	М
PEO - 5	Н	Н	М	Н	Н	Н	Н	М	L	М	Н	Н	М	Н	М

H - High Correlation, M - Medium Correlation, L - Low Correlation

6. Programme Structure (86 Total Credits)

1. Professional Core Courses (C)

Code	Course Title	L	T	Р	С
PH23101T	Introduction to public health	1	1	0	2
PH23102T	Basic Epidemiology	2	2	0	4
PH23103T	Basic Biostatistics	2	2	0	4
PH23104T	Public Health Programs: An overview; Practical on searching information and preparing scientific write ups and making presentations	3	3	0	6
PH23105T	Demography	2	1	0	3
PH23106T	Health systems, health related policies, and laws/ acts, and field visits (SC, PHC, CHC, DH, DHO)	3	2	0	5
PH23201T	Introduction to health management	2	1	0	3
PH23202T	Introduction to health economics – Cost-effective analysis, cost-benefit analysis, cost-utilization and benefit incidence analysis	2	1	0	3
PH23203T	Introduction to environmental health	2	1	0	3
PH23204T	Introduction to health promotion and health communication	2	1	0	3
PH23205T	Research methodology	2	2	0	4
PH23302T	Public health informatics	2	0	0	2
PH23303T	Health promotion	2	0	0	2

2. Skill Enhancement Courses (S)

Code	Course Title	L	T	Р	С
PH23301T	Systematic review and meta-analysis*	1	1	0	2
PH23206P	Data analysis using statistical software, practicum of data analysis*	0	0	8	4
PH23304T	Geospatial statistics	1	1	0	2

3. Professional Elective Courses (PE)

Code	Course Title	L	Т	Р	C
PH23305T	Project planning, implementation, monitoring and evaluation (PIME)	3	2	0	5
PH23306T	Manag <mark>eme</mark> nt of public health programs	3	2	0	5
PH23307T	Epidemio <mark>logic</mark> al methods and epidemic management	3	2	0	5
PH23308T	Applied multivariate analysis	3	2	0	5
PH23309T	Health economics and healthcare financing	3	2	0	5
PH23310T	Budget analysis and economic evaluation	3	2	0	5
PH23311T	Environmental health risk assessment	3	2	0	5
PH23312T	Geo-spatial technologies in environmental health	3	2	0	5
PH23313T	Strategic communication and designing health campaigns	3	2	0	5
PH23314T	Media analysis and evaluating health promotion interventions	3	2	0	5

4. Project work / Internship in Industry / Higher Technical Institutions (P)

Code	Course Title	L	T	Р	С
PH23205P	Practicum - designing and conducting a research study (including data collection in field) and report writing and presentation*	0	0	8	4
PH23401P	Dissertation*	ı	ı	10	5
PH23402P	Internship	ı	ı	30	15

5. Value added courses

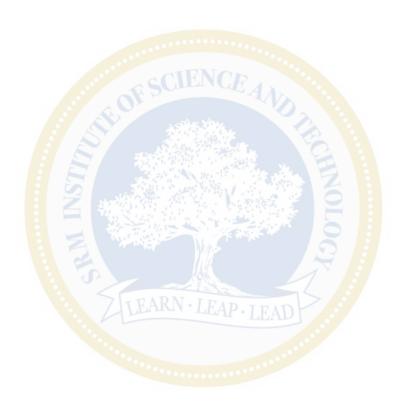
Code	Course Title	L	Т	Р	С
VACSPH01	Fundamentals of Microsoft office#	2	0	0	0
VACSPH02	Communication skills#	2	0	0	0
VACSPH07	Interview skills and CV writing#	1	0	0	0

<u>. Implementat</u>	ion plan				
	Semester I				
Course Code	Name of Course	L	Т	Р	С
PH23101T	Introduction to public health	1	1	0	2
PH23102T	Basic Epidemiology	2	2	0	4
PH23103T	Basic Biostatistics	2	2	0	4
PH23104T	Public Health Programs: An overview; Practical on searching information and preparing scientific write ups and making presentations	3	3	0	6
PH23105T	Demography	1	2	0	3
PH23106T	Health systems, health related policies, and laws/ acts, and field visits (SC, PHC, CHC, DH, DHO)	1	2	4	5
VACSPH01	Fundamentals of Microsoft office#	2	0	0	0
	Total Learning Credits				24
	Semester II	l			
PH23201T	Introduction to health management	2	1	0	3
	Introduction to health economics – Cost-effective analysis, cost-				
PH23202T	benefit analysis, cost-utilization and benefit incidence analysis	2	1	0	3
PH23203T	Introduction to environmental health	2	1	0	3
PH23204T	Introduction to health promotion and health communication	2	1	0	3
PH23205T	Research methodology	2	2	0	4
PH23206P	Practicum - designing and conducting a research study (including data collection in field) and report writing and presentation*	0	0	8	4
PH23207P	Data analysis using statistical software, practicum of data analysis*	0	0	8	4
VACSPH02	Communication skills#	2	0	0	0
	Total Learning Credits				24
	Semester III (Common modules)				
PH23301T	Systematic review and meta-analysis*	1	1	0	2
PH23302T	Public health informatics	2	0	0	2
PH23303T	Health promotion	2	0	0	2
PH23304T VACSPH07	Geospatial statistics Interview skills and CV writing#	1	0	0	0
VACSFIIII	Semester III (Specializations)	!	U	U	U
	Specialization - Health Services Management				
PH23305T		3	2	0	5
PH23306T	Project planning, implementation, monitoring and evaluation (PIME) Management of public health programs	3	2	0	5
1 11233001	Specialization – Epidemiology and Biostatistics	J		U	
DUIDOOTT		2	2	_	F
PH23307T	Epidemiological methods and epidemic management	3	2	0	5
PH23308T	Applied multivariate analysis	3	2	0	5
	Specialization - Health Economics and Healthcare Financing		1		
PH23309T	Health economics and healthcare financing	3	2	0	5
PH23310T	Budget analysis and economic evaluation	3	2	0	5
	Specialization – Environmental Health		1		
PH23311T	Environmental health risk assessment	3	2	0	5
PH23312T	Geo-spatial technologies in environmental health	3	2	0	5
PH23313T	Specialization – Health Communication	3	2	0	5
	Strategic communication and designing health campaigns				5
PH23314T	Media analysis and evaluating health promotion interventions	3	2	0	5
	Total Learning Credits				18
DUSSAGAD	Semester IV Dissertation*			10	
PH23401P PH23401P	Internship	-	-	10 30	5 15
F1123401P	Total Learning Credits	-	-	30	20
	rotal Learning Greuits	l			20

					Pro	gra	m l	_ea	rniı	ng (Out	cor	nes			
Course Code	Course Name	Disciplinary Knowledge	Critical Thinking	Problem Solving	Analytical Reasoning	Research Skills	Team Work	Scientific Reasoning	Reflective Thinking	Self-Directed Learning	Multicultural Competence	Ethical Reasoning	Community Engagement	ICT Skills	Leadership Skills	life Long Learning
PH23101T	Introduction to public health	Н	М	М	М	М	М	М	М	М	Н	М	М	L	М	M
PH23102T	Basic Epidemiology	Н	М	М	М	М	М	М	М	Н	М	М	М	L	М	L
PH23103T	Basic Biostatistics	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	М	Н	M
PH23104T	Public Health Programs: An overview; Practical on searching information and preparing scientific write ups and making presentations	E,	H L	H	Н	Н	Н	Н	Н	М	L	L	L	Н	Н	M
PH23105T	Demography	Н	M	М	M	M	М	M	М	М	Н	М	M	L	M	M
PH23106T	Health systems, health related policies, and laws/ acts, and field visits (SC, PHC, CHC, DH, DHO)	Н	М	М	M	M	М	М	М	М	Н	М	М	L	М	М
PH23201T	Introduction to health management	H	М	M	М	М	М	М	M	М	Н	М	М	L	М	М
PH23202T	Introduction to health economics – Costeffective analysis, cost-benefit analysis, cost-utilization and benefit incidence analysis	Н	М	М	М	М	М	М	М	М	Н	М	М	L	М	М
PH23203T	Introduction to environmental health	Н	М	М	М	М	М	М	М	М	Н	М	М	L	М	М
PH23204T	Introduction to health communication and health promotion	н	М	М	М	М	М	М	М	М	Н	М	М	L	М	М
PH23205T	Research methodology	Н	Н	Н	Н	Н	Н	Н	Н	М	L	L	L	Н	Н	М
PH23206T	Practicum - designing and conducting a research study (including data collection in field) and report writing and presentation*	Н	Н	Н	Н	Н	Н	Н	Н	М	L	L	L	Н	Н	М
PH23207P	Data analysis using statistical software, practicum of data analysis*	Н	М	М	М	М	М	М	М	М	Н	М	М	L	М	М
PH23301T	Systematic review and meta-analysis*	Н	М	М	М	М	М	М	М	М	Н	М	М	L	М	М
PH23302T	Public health informatics	Н	Н	Н	Н	Н	Н	Н	Н	М	L	L	L	Н	Н	М
PH23303T	Health promotion	Н	М	М	М	М	М	М	М	М	Н	М	М	L	М	М
PH23304T	Geospatial statistics	Н	М	М	М	М	М	М	М	М	Н	М	М	L	М	М
PH23305T	Project planning, implementation, monitoring and evaluation (PIME)	Н	М	М	М	М	М	М	М	М	Н	М	М	L	М	М
PH23306T	Management of public health programs	Н	М	М	М	М	М	М	М	М	Н	М	М	L	М	М
PH23307T	Epidemiological methods and epidemic management	Н	М	М	М	М	М	М	М	М	Н	М	М	L	М	М
PH23308T	Applied multivariate analysis	Н	Н	Н	Н	Н	Н	Н	Н	М	L	L	L	Н	Н	М

PH23309T	Health economics and healthcare financing	Н	Н	Н	Н	Н	Н	Н	Н	М	L	L	L	Н	Н	М
PH23310T	Budget analysis and economic evaluation	Н	Н	Н	Н	Н	Н	Н	Н	М	L	L	L	Н	Н	М
PH23311T	Environmental health risk assessment	Н	Н	Н	Н	Н	Η	Н	Н	М	L	L	L	Н	Н	М
PH23312T	Geo-spatial technologies in environmental health	Н	Н	Н	Н	Н	Н	Н	Н	М	L	L	L	Н	Н	М
PH23313T	Strategic communication and designing health campaigns	Н	Н	Н	Н	Η	Η	Η	Н	М	L	L	L	Η	Ι	М
PH23314T	Media analysis and evaluating health promotion interventions	Н	Н	Н	Н	Ι	Ι	I	Н	М	┙	L	Г	Ι	Η	М
PH23401P	Dissertation*	Н	Н	М	М	Н	Н	М	Н	М	L	М	L	М	Н	М
PH23402P	Internship	Н	Н	М	М	Н	Н	М	Н	М	L	М	L	Н	Н	М

H - High Correlation, M - Medium Correlation, L - Low Correlation



Course	PH23301T	Course Name	Systematic review and	meta-analysis	Course	S	Skill	L	T	Р	С
Code					Category	_	Enhancement	1	1	0	2
Pre-requisi	te Courses	Nil	Co-requisite Courses	Nil	Progressiv	e Courses	N	il			
Course Offe	ering Departm	ent	School of Public Health	Data Book / Codes/Standar	ds		Nil				

	Learning le (CLR):	The purpose of learning this course is to:	Le	arni	ng				Pro	ogra	m Le	arni	ng C	Outco	ome	s (PL	.O)			
CLR-1:	Understand methods to observational studies	to perform systematic reviews and meta-analysis of and clinical trials.	1	2	3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CLR-2:	Develop search query	and perform literature search in academic databases													σ		t			
CLR-3:	formulate an answeral review	ble research question and prot <mark>ocol</mark> for systematic	(Bloom)	%) k	nt (%	edge	D	D	ing	'n		ing	рu	ning	Competence	βι	Engagement		<u>s</u>	ng
CLR-4:	In-depth understandin design	g of risk of bias assessment t <mark>ool</mark> for different study		sienc	ımer	Nove	nkin	olvin	asor	Skills	ork	Reasoning	Thinking	Lear	mpe	sonir	gage	S	Skills	arni
CLR-4:	30 1/2.12		Thinking	Profic	Attainment (%)	ary Kr	Critical Thinking	Problem Solving	al Re	Research	Teamwork		tive T	ected	ral Cc	⊑thical Reasoning		ICT Skills	eadership	Long Learning
	Course Learning Outcomes CLO): At the end of this course, learners will be able to:		Level of T	Expected Proficiency (%)	Expected	Disciplinary Knowledge	Critic	Prob	Analytical Reasoning	Res)L	Scientific	Reflective	Self-Directed Learning	Multicultural	Ethica	Community)	Геаф	Life Lo
CLO-1:	To describe the steps	in conducting a systematic review	1	95	85	Н	<u> </u>	-	-	-	-		-		-	1	1	-	-	-
CLO-2:		rable question using the "Participants Interventions es" (PICO) framework	• 1	90	85	М	-	-	-	-	М	L	-	L	-	-	1	-	-	-
CLO-3:	To describe the proce	ss used to collect and extract data from reports	2	90	85	М	L	-	М	L	Н	Н	Н	L	-	L	-	-	-	-
CLO-4:	LO-4: To describe methods to critically assess the risk of bias		2	90	85	Н	L	L	М	L	Н	Н	-	L	-	L	-	-	-	-
CLO-5:	LO-5: To describe and interpret the results of meta-analyses		3	90	75	Н	L	L	М	Н	М	Н	Н	-	-	-	-	Н	-	-

Dura (1.5 ł		Introduction to Systematic Review	Finding the Evidence	Risk of Bias Assessment	Qualitative synthesis	Meta-analysis
S-1	SLO	Understand the basics systematic review and meta- analysis – Need, Importance and users of systematic review	Frame a systematic review question (PICO)	Quality Assessment of individual studies – Methods and tools	Developing data extraction sheet	Introduction to Meta-Analysis – Importance, forest plot basics
S-2	SLO	Illustrate the Steps in systematic review Search principles – Key sources and techniques Risk of bias assessment - Exercise		Data extraction guidelines - Exercise	Evaluate the Heterogeneity in included studies	
S-3	SLO	Discuss Systematic review Examples in Cochrane Library	Identifying search keywords and developing search strategy – Case study	Protocol registration (Prospero, Cochrane)	Reporting guidelines (PRISMA)	Sensitivity analysis – Case studies
S-4	SLO	Systematic Review Case studies – for different types of review question and study design Exercise to execute search queries in different databases protocol on their own research area - Discussion		Describe Qualitative synthesis	Fixed effect and Random effect model - Exercise	

Learning Resources

- Cochrane handbook for systematic reviews of interventions. Julian PT Higgins, Sally Green, Oxford: Cochrane collaboration, 2011
- Practical meta-analysis. Mark W Lipsey, David B Wilson, Sage Publications 2001
- 3. The handbook of research synthesis harris cooper, Larry V Hedges, Russel sage 1994.
- 4. Systematic reviews and meta-analysis pocket guide to social work research methods. Julia H Littell, Oxford Univ Press, 2008.
- 5. Beginner's guide for systematic review.

 https://main.icmr.nic.in/sites/default/files/upload_documents/BEGINNERS_GUIDE_FINAL_BOOK.pdf



				arning Assessment Weightage)	
Level	Blooms Levels of Thinking		A-1 0%)	CLA (50%	
		Theory	Practice	Theory	Practice
1	Remember	40%		40%	
2	Understand	40%		40%	- -
3	Apply	40%	GIENOR	400/	
4	Analyze	40%	ESCIENCE	40%	-
5	Evaluate	20%	North March	200/	
6	Create	20%		20%	-
	Total	10	0%	100	%

Course Designers		
Experts from Industry	Experts from Higher Technical Institutions	Internal Experts
Mrs.Devika, Scientist B, NIE, ICMR, Chennai	1. Mr. Richard, Cochrane Asia, CMC, Vellore	Dr Dhivya K Dr Janmejaya Samal

Course	PH23302T	Course Name	Public Health Infe	ormatics	Course	C	Professional	L	T	Р	С
Code	PH233021	Course Marrie	Public Health IIII	ormatics	Category	C	Core	2	0	0	2
Pre-requisit	te Courses	Nil	Co-requisite Courses	Nil	Progressiv	e Courses	N	il			
Course Offe	ering Departm	ent	School of Public Health	Data Book / Codes/Standard	ds		Nil				

	Learning le (CLR):	The purpose of learning this course is to:	Le	arni	ng				Pro	ogra	m Le	arni	ng C	Outco	ome	s (PL	.O)			
CLR-1:	Obtain the basics of components of Infor	Management Information Systems and mation Systems	11	2	3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CLR-2:	To critically evaluate strengths and limitat	e the existing information system and analyze its tions	(1975));	(a)		t			
CLR-3:		th informatics tools for dise <mark>ase surveillance and on, and project manageme<mark>nt</mark></mark>	loom	%) K:	nt (%	edge	g	D	guir	S		ing	ng	ning	tenc	рu	men		<u>s</u>	ng
CLR-4:	data privacy and sec		ng (B	Proficiency (%)	nmer	nowle	inkin	olvin	asor	Skill	ork	ason	Thinking	Lear	ədwc	Isonii	Engagement	Skills	Skills	earni
CLR-4:	Obtain an understanding of the roles of AI in Public Health Information Systems		Thinking (Bloom)	Profi	Attai	ary K	Critical Thinking	Problem Solving	al Re	Research Skills	Teamwork	fic Re		ected	ral Co	II Rea		ICT Sk	eadership	Long Learning
	Durse Learning At the end of this course, learners will be able to:		Level of 1	Expected	Expected Attainment (%)	Disciplinary Knowledge	Critic	Prob	Analytical Reasoning	Res)L	Scientific Reasoning	Reflective	Self-Directed Learning	Multicultural Competence	Ethical Reasoning	Community)	Геад	Life Lo
CLO-1:	Explain the basics o components	f information systems along with their	1	90	80	Н	L	М	L	L	-	L	-	L	L	-	-	-	Н	Н
CLO-2:	Develop skills to ass	sess existing IS based on indicators	3	85	75	Н	Н	М	М	Н	М	L	М	Н	М	-	Н	-	М	Н
CLO-3:	Can demonstrate an understanding of project management principles applicable to public health informatics initiatives		2	70	65	М	Н	М	Н	L	-	L	-	М	L	-	М	-	-	М
CLO-4:	Can able to follow othical guidelines while designing information		2	85	75	Н	М	Н	М	М	L	L	-	L	L	-	М	-	-	Н
CLO-5:	Can explain how AL	and ML can be integrated with PHIS	3	85	75	L	Н	Н	Н	L	Н	L	Н	М	L	-	Н	-	Н	L

	ration lour)	Introduction to Public Health Informatics (6)	Surveillance data handling (6)	Informatics Systems			
S-1	SLO-1	Understanding the Basic concepts of Informatics, Explaining Different Information systems and its purpose	Understanding the basics of surveillance system	Identifying problems and planning, Analyzing system needs	Understanding the basic need for Evaluating Public health informatics, Understanding types of evaluation in PHI	Understanding the need for Al in informatics	
S-2	SLO-1	Understanding Components of information systems, Understanding Management information systems (MIS)	Overview of EHR – Visiting MDRF and SRM Medical College to learn the EHR	Designing the system, developing indicators to measure, Practical sessions to develop indicators for a program	Overview of Standards and Benchmarks in Public Health Informatics	Understanding current trends in Health informatics	
S-3	SLO-1	Understanding Levels of MIS	Clarifying basic concepts of database management, Understanding the Privacy, security and Ethical issues with Health data	Testing the system and implementing and maintenance	Demonstrating Protocol development for evaluation of Informatics, Developing the indicator for the evaluation framework	Demonstrate surveillance system in India, Explain the need of AI in addressing the Gaps in Surveillance system	
S-4	SLO-1	In-depth understanding of MIS	Clarifying Ethical issues for data and interpretation	IDSP system- from Govt health system, PHC and CHC	Case study- Evaluation of Information Systems Project Success – Insights from Practitioners	Presentation of individual on one selected information system	
Learr Reso	ning eurces	Paul C. (Eds.) 2nd ed. 2 2. Fried, A. and O'Carroll, J.M.(ed) Maxcey-Roser	es and Inf <mark>orm</mark> ation Systems M 2014, XVIII <mark>, 6</mark> 66 p. 114 illus., 3 P.W. (199 <mark>8) "P</mark> ublic Health In nau- Last Pu <mark>blic H</mark> ealth & Prev nand Lange, N <mark>orwa</mark> lk, CT.	35 illus. in color. formatics." In Last,	air, R.M., & Reynolds, G.W. (20 ystems 7th Edition Cambridge, I	· ·	

	Diagramic Loyal of		Continuous Learni 50% weiç)	University E	xamination					
Level	Bloom's Level of Thinking	CLA (25	. – 1	CL	A – 2 5%)	(50% weightage)				
		Theory	Practice	Theory	Practice	Theory	Practice			
1	Remember	40%		40%		40%	_			
2	Understand	40 %	CIEN	40 %	-	40 76				
3	Apply	40%	OF SCIEN	40%		40%	-			
4	Analyze	40 %	A STATE AND A STAT	40 %	-	40 %				
5	Evaluate	20%		20%	1	20%	-			
6	Create	20%		2076	-	2076				
	Total	100) %	10	0 %	100 %				

Course Designers		
Experts from Industry	Experts from Higher Technical Institutions	Internal Experts
Mr Suresh Mariaselvam, Independent Consultant, Chennai	Dr GaneshKumar Parasuraman, Scientist C, ICMR-NIE	Dr M Prakash, Asst prof, SRMIST

Course	PHYSSIS I COURS NAME HEALTH PROMOTION		otion	Course	С	Professional	L	T	Р	С			
Code			Category		Core	2	0	0	2				
Pre-requisit	Pre-requisite Courses		Co-requisite Courses	Nil	Progressiv	e Courses	Nil						
Course Offering Department			School of Public Health	Data Book / Codes/Standar	ds	Nil							

	Learning le (CLR):	The purpose of learning this course is to:	Le	earni	ng				Pro	ogra	m Le	arni	ng C	Outco	ome	s (PL	-O)			
CLR-1:	Understand the fund Public Health	damentals of Health Promotion and its role in	CITE	2	3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CLR-2:	Identify the Strategi Ecological Model ap	es for effective communication from a Socio- oproach	((0											Ф		ī			
CLR-3:	promotion Design health promotion compaigns for select social and		(Bloom)	cy (%	nt (%	edge	g	D _C	ning	S		guir	ing	rning	etenc	ng	Engagement		<u>s</u>	ing
CLR-4:	community Health Issues		a set a second	icien	inme	now	inkin	Solvir	easo	Skill	/ork	Reasoning	Fhink	Leal	ompe	asoni	ngage	Skills	p Skills	earn
CLR-4:			Thinking	ed Prof	ed Atta	Disciplinary Knowledge	Critical Thinking	Problem Solving	Analytical Reasoning	Research Skills	Teamwork	itific Re	Reflective Thinking	Self-Directed Learning	tural C	Ethical Reasoning		ICT SI	eadership	Long Learning
	Course Learning Outcomes (CLO): At the end of this course, learners will be able to:		Level of	Expected Proficiency (%)	Expected Attainment (%)	Discipl	Cri	Pro	Analy	Re		Scientific	Refle	Self-D	Multicultural Competence	Ethi	Community		Lea	Life
CLO-1:	Learn about health	promotion and its role in Public health	3	85	80	Н	L	-	-	М	Н	-	Н	М	-	Н	М	L	М	Н
CLO-2:	Apply knowledge ar strategic communic	nd build skills for effective communication and ation	3	85	80	Н	L	-	-	М	Н	-	Н	М	-	Н	М	L	М	Н
CLO-3:	Pagema a wall informed public health appaiglist about national		3	85	80	Н	L	-	-	М	Н	-	Н	М	-	Н	М	L	М	Н
CLO-4:	Understand and find solutions for Community and Social health problems		3	85	80	Н	L	-	1	М	Н	-	Н	М	-	Н	М	L	М	Н
CLO-5:	Learn about Health	Literacy, Readability and Numeracy	3	85	80	Н	L	-	-	М	Н	-	Н	М	-	Н	М	L	М	Н

_	ation our)	Health Promotion	Health Communication Strategies	Health Programs / Needs Assessment/ Social and Community Health Issues	Health Campaigns	Campaign Evaluation / Health Literacy and Numeracy
S-1	SLO-1	Definition and scope of Health Promotion	Planning Models: Socio- Ecological Model			Formative or baseline evaluation before a project is
S-1	SLO-2	Learn and differentiate Health Promotion vs Prevention vs Health Protection	Social Organizing Framework	Go Red for Women: Case Study Effective public health campaigns Addressing determinants of health		implemented: Secondary data or conduct research for primary data Log Frame: IPO model
	SLO-1		,··	Community Needs Assessment: A community needs assessment for	Characteristics of Effective Public Health Campaigns Learning about, and practicing	
S-2	SLO-2	Learn and apply Health Promotion Strategies: Role of Communication in crafting Strategies	Planning Models: WHO Framework	rural mental health promotion. Margaret M. Barry, Ann Doherty, Ann Hope, Jane Sixsmith, C. Cecily Kelleher Health Education Research, Volume 15, Issue 3, June 2000, Pages 293–304, https://doi.org/10.1093/her/15.3.29 3 - Review	development, of SOCOS – Single Overarching Communication Outcome that you want to archive Defining and mapping your target audience • Developing key messages for your SOCO • Tools and tactics for creating a campaign	Mid-point evaluations are conducted as the project progresses: Process Evaluation.
S-3	SLO-1	Basics of Communication: Overview / Oral / Written		Learn about social and personal responsibilities and control measures in Public Health	Develop a SOCO:	Summative evaluation is
	SLO-1			Community Health Issues:		conducted at the end of a project to compare outputs
S-5	SLO-2	Shannon Weaver Model	Planning Models: SEM / Precede- Proceed	Tobacco Use, Analyze and discuss	Group activity: map target audience	and outcomes with baseline measures
S-6	SLO-1 SLO-2	Barriers / Facilitator for effective communication		Community Health issues: Obesity? Individual problem or population issue - Discussion	Develop effective key Messages soco & key message grid	General Pulse of the
S-7	SLO-1	Precede-Proceed	Learn and Apply social media as	Drug Use in Young Indians – An	PREPARING A PUBLIC HEALTH CAMPAIGN: Build Your Own Model	community about the campaign. Example: Swacch Bharat Campaign / Oral Polio
3-1	SLO-2	Model of Planning	a Health Promotion Tool	issue or not. Discussion	Campaign	Campaign

S-8	SLO-1	Applications of the Precede Proceed Model		Alcoholism: A community problem enabled by the Government? Discuss	Choose one or at most two "TARGET AUDIENCEs" that you want to convince of your aim:	
S-9	SLO-1	Behavior: Human behavior	Learn about Overview of Current National Policies In HP	https://www.thehindu.com/news/national/tamil-nadu/81-of-rural-families-in-tn-suffered-domestic-violence-during-lockdown-survey/article31915775.eceDiscussion	Map your audience in terms of champions, silent boosters, blockers, avoiders	Defining Health Literacy; Literacy in India investigate
S 10	SLO-1	Attitudes and Knowledge: Traits of behavior	Learn and review National Health Promotion: Communicable / Non Communicable Diseases	Road Traffic Accidents: Unintentional Injuries / mortality. A Socio-Ecological Analysis	Develop your audience "Avatar"; Key messages	Defining Numeracy, Need for Health Literacy for better Health Outcomes
S 11	SLO-1	Behavior Change Communication	Learn about Evidence Based Communication in Health Promotion: Need for evaluation		Tools - What sources of information does this group rely upon most; Tactics and Setting	Identifying and analysing barriers of Health Literacy and Tools to assess Health Literacy
S 12	SLO-1	Various Models of Behavior Change	https://www.researchgate.net/profile/Nicolaas Pronk/publication/23 733236 Designing and Evaluating Health Promotion Programs Simple Rules for a Complex Is sue/links/5b3b5fc7aca272078505 8e3f/Designing-and-Evaluating-Health-Promotion-Programs-Simple-Rules-for-a-Complex-Issue.pdf - Discuss/ Review	Mid-term Exam: MCQ RARN LEAP LEAD	Based on this consideration of your AIM (SOCO) + Target Audience, complete your initial strategy SOCO • Target Audience Mapping • Avatar (optional) • KEY Messages • TOOLSs • TACTICS and SETTINGS • What your Audience will think, feel and DO, as a result of your campaign (SOCO)	Class Activity; Flesch Kincaid Reading Levels Learn and apply SMOG scores for reading materials:

Learning
Resources

1. Health promotion Principles and Approaches: Bishan Swarup Garg Mahatma Gandhi Institute of Medical Sciences, India 10.5772/intechopen.107637

2. Public Health Approaches to Health Promotion Edited By Monika Arora, Shifalika Goenka, 1st Edition

	Dia suria i susi af		Continuous Learning (50% weig	University Examination						
Level	Bloom's Level of Thinking	CLA (25	-1	CL	A – 2 5%)	(50% weightage)				
		Theory	Practice	Theory	Practice	Theory	Practice			
1	Remember	40%	A SHE SHE	40%		40%	-			
2	Understand	40%		40%	<u> </u>	40 %				
3	Apply	400/		40%		400/	-			
4	Analyze	40%		40%		40%				
5	Evaluate	200/		200/		200/	-			
6	Create	20%	A THE THE PARTY OF	20%		20%				
	Total	100	%	10	0 %	100 %				

Course Designers	LEARN · LEAP · LEAD	
Experts from Industry	Experts from Higher Technical Institutions	Internal Experts
Dr. Gayatri Mishra Oleti, Head L&T Foundation	Dr.Vijayaprasad Gopichandran, Independent consultant	1. Geetha Veliah

Course	PH23304T	Course Name	Goognatial Sta	tietice	Course	9	Skill Enhancement	L	T	Р	С		
Code	ode PH23304T Course Name Geospatial Statistics		llistics	Category	3	Skill Elillancement	1	1	0	2			
Pre-requisi	Pre-requisite Courses		Co-requisite Courses	Nil	Progressiv	e Courses	Nil						
Course Offering Department			School of Public Health	Data Book / Codes/Standar	ds								

	Learning le (CLR):	The purpose of learning this course is to:	Le	arni	ng				Pro	gra	m Le	arni	ng C	Outco	ome	s (PL	.O)			
CLR-1:	Utilize various GIS and and non-spatial databa	d navigation tools and techniques to handle spatial ase	4	2	3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CLR-2:	CLR-2: Understand concepts of data visualization of spatial data		(i	cy (%)		0									e		٦t			
CLR-3:	CLR-3: Able to conceptualize spatial autocorrelation		(Bloom)			edge	g	D	ing	S		ing	ng	ning	tenc	ng	me		<u>s</u>	ng
CLR-4:			1. 18.11	Proficiency	Attainment	Knowledge	Thinking	Solving	asor	Research Skills	۲	Reasoning	Thinking	Lear	mpe	Ethical Reasoning	Engagement	<u>s</u>	Skills	arning
CLR-4:	LR-4: Able to use knowledge to solve spatial problems		Thinking	rofic	\ttair		Thi	m Si	I Re	ırch	eamwork		/e Tl	ted	I Co	Rea		- Skills	ership	ig Le
						linar	Critical	Problem	⁄tica	sea	Теа	cientific	Reflective)irec	ltura	ical	unit	ICT	eader	Long
	Course Learning Outcomes (CLO): At the end of this course, learners will be able to:		Level of	Expected	Expected	Disciplinary	Ö	Pre	Analytical Reasoning	R		Sciel	Refl	Self-Directed Learning	Multicultural Competence	Eth	Community		Le	Life
CLO-1:		and Navigation tools and techniqu <mark>es withi</mark> n spatial and handle spatial and non-spatial dat <mark>abase</mark> .	1	95	85	H		-	-	-	-		-		-	-	-	Н	-	-
CLO-2:	Able to visualize spatia	al data for better understanding	1	90	85	М	-	-	-	-	-	L	-	Н	-	-	-	Н	-	-
CLO-3:	Analyze spatial data fo	Analyze spatial data for spatial autocorrelation		90	85	М	L	L	М	L	L	Н	Н	I	1	L		Н	-	-
CLO-4:	Predict using spatial regression models		2	90	85	Н	L	L	М	L	L	Н	-	Н	-	L	-	Н	-	-
CLO-5:	Apply integrated geospatial techniques in health care problems.		3	90	75	Н	L	L	М	Η	М	Н	Н	Н	-	-	-	Н	-	-

Duration (1.5 hour)		Spatial Data (8)	Visualization of Spatial Data (8)	Spatial Auto Correlation Analysis (8)	Spatial Regression Analysis (8)	Project Work (8)
S-1	SLO	Understanding the Global Information System: Definition, Philosophy & Historical evolution of GIS	Understanding the basics of Visualization	Explain the concept of autocorrelation	Introduction to spatial regression concept	Discuss on spatial problem
S-2	SLO	Understanding the components of GIS	Explain different type of maps for point and areal features	Understand the assumptions and aims of autocorrelation	Fitting of Regression Models for Independent and Spatially Auto Correlated Data	Conceptualize the problem for spatial analysis
S-3	SLO	Understanding basic concepts of spatial data and non-spatial data	Differentiate symbolization in Maps, Explain visual variables and color	Explain the statistics for autocorrelation	Interpretation of spatial data	Tools for spatial data collection
S-4	SLO	Understanding basic concepts of spatial data models – Raster and Vector data	Explain different spatial analysis techniques	Morans I and Geary's C	Spatial Error and spatial lag model	Spatial Data collection
S-5	SLO	QGIS – Introduction Practical	QGIS Spatial analysis Practical	Understanding Local Indicators of Spatial Associations, Assumptions and Aim	Spatial regression - Practical	Spatial Data collection
S-6	SLO	In depth understanding of Raster Data, Vector data and its Representation	Perstanding of Vector data and		Spatial Regression model - interpretation	Spatial Data analysis
S-7	SLO	Understanding data structures and file format	GeoDa - Introduction	GeoDa Maps - Practtical	Spatial technologies in public health - Applications	Spatial Data analysis
S-8	SLO	Understanding Geocoding Issues and Location uncertainty	Spatial weights - Practical	Autocorrelation - Practical	Case study on Public health applications	Spatial Data analysis

Learning
Resources

- Applied spatial statistics for public health data by Walter LA, Gotway CA. Wiley Series, 2004
- 2. Applied spatial data analysis with R by Roger SB, Edzer JP. Springer Series, 2013.
- 3. Geoda User guide by Luc Anselin, Center for spatially integrated social science, 2003.
- 4. Interactice spatial data analysis by Trevor Bailey. Prentice Hall, 2nd Ed 2009.

Level	Dia amia i aval af		University Examination						
	Bloom's Level of Thinking	CLA (25			√ – 2 5%)	(50% weightage)			
		Theory	Practice	Theory	Practice	Theory	Practice		
1	Remember	400/		40%		40%	-		
2	Understand	40%		40 %	-	40%			
3	Apply	400/	SCIEN	100/		400/	-		
4	Analyze	40%	SON -	40%	-	40%			
5	Evaluate	200/		200/	•	200/	-		
6	Create	20%		20%		20%			
	Total	100	%	100) <mark>%</mark>	100 %	, 0		

Course Designers		
Experts from Industry	Experts from Higher Technical Institutions	Internal Experts
Dr Vasna Josua , Scientist C , ICMR NIE , Chennai	1. Dr.L.Jeyseelan, Professor, CMC, Vellore	Dr Gladius Jennifer, SRMIST Dr Dhivya K, SRM IST

Course PH23305T		Course Name	Project planning, imp	Course	PE	Professional	L	Т	Р	С		
Code	PH233031	Course Marine	monitoring and evalu	Category	FL	Elective	3	2	0	5		
Pre-requisite Courses Nil		Co-requisite Courses	Nil	Progressiv	A Courses	Nil						
i ie-iequisi	le Oourses	1411	•		1 Togressive Courses 1411							
Course Offering Department			School of Public	Data Book /		Nil						
Course Offering Department		Health	Codes/Standar	ds	NII							

	Learning le (CLR):	The purpose of learning this course is to:	Le	arni	ng				Pro	gra	m Le	arni	ng C	outco	ome	s (PL	.O)			
CLR-1:	Understand Public	health project planning	1	2	3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CLR-2:	Understand ways projects	and means to implement public health	m)	(%)	(%)	Ф			_					g	ce		ınt			
CLR-3:	Understand monito	oring of public health pr <mark>ojec</mark> ts	(Bloom)	cy (nt (ledg	edg g		ning	<u>s</u>		ning	ing	rnin	əten	ing	eme		SII	ing
CLR-4:	Understand evalua	ation of public health p <mark>roje</mark> cts	12 1 1 1	cien	nme	Knowledge	Thinking	Solving	aso	Skil	ork	Reasoning	Thinking	Lea	mp	soni	Engagement	Skills	Skills	Learning
CLR-4:	4: Learn writing a public health project prop <mark>osal</mark>		Thinking	Proficiency	Attainment		al Th	S m	al Re	Research Skills	eamwork	c Re	ive T	cted	al Cc	Rea			adership	Long Le
Course Learning Outcomes (CLO): At the end of this course, learners will be able to:		Level of T	Expected	Expected	Disciplinary	Critical	Problem	Analytical Reasoning	Rese	Те	Scientific	Reflective	Self-Directed Learning	Multicultural Competence	Ethical Reasoning	Community	ICT	Leade	Life Lo	
CLO-1:	Plan public health	project(s)	2	85	80	М	М	L	М	М	Н	М	Н	Н	М	М	Н	Н	М	М
CLO-2:	Design and impler	nent a public health project(s)	3	85	75	М	М	L	М	М	Н	М	Н	Н	М	М	Н	Н	М	М
CLO-3:	3: To supervise and monitor public health project(s)		2	80	75	М	М	L	М	М	Н	М	Η	Η	М	М	Н	Н	М	М
CLO-4:	LO-4: To conduct evaluation of public health project(s)		3	85	80	М	М	L	М	М	Н	М	Н	Н	М	М	Н	Н	М	М
CLO-5:	To write proposal for public health project(s)		3	80	75	М	М	L	М	M	Н	М	Н	Η	М	М	Η	Н	M	М

Dura (1 h		Project Planning (12)	Project Implementation (12)	Project Monitoring (12)	Project Evaluation (12)	Proposal writing (12)
S-1	SLO	Health projects and its types	Preparing an implementation plan- resource mapping, microplanning	Definition and process of monitoring	Difference between monitoring and evaluation	Orientation on proposal writing
S-2	SLO	Management cycle and Health project planning	HR- Developing a team	Preparing a monitoring plan	Types and scope of evaluation	Practicum (15): Group work: Prepare a proposal on "Promoting use of ORS and zinc in diarrhoea"
S-3	SLO	Situational analysis and stakeholder mapping	Job responsibilities of staff members	Develop tools for monitoring Donabedian's model		Group work: Prepare a proposal on "Increasing uptake of postpartum IUCD
S-4	SLO	Prioritization	Capacity building of the team	Assignment	Designing evaluation of a health project	Group work: Prepare a proposal on "Reducing gender based discrimination in a conservative society"
S-5	SLO			Developing tools for evaluation	Group work: Prepare a proposal on "Reducing tobacco dependence in adolescents"	
S-6	SLO	Objective formulation Motivation Data analysis		Data analysis	Impact evaluation	Group work: Prepare a proposal on "Organizing screening of cervical cancer"
S-7	SLO	Logical Framework Analysis	Finance -Preparing a budget	Report writing	Report writing	Group work: Prepare a proposal on "Early initiation of breast feeding"
S-8	SLO	Formulation of Gantt Chart	Assignment	Monitoring quality of project implementation	Practicum (11): Group work: Evaluation of health projects	Group work: Prepare a proposal on "Reducing anaemia in adolescent girls in a rural district"
S-9	SLO	Practicum (1): Group work: Brainstorm and identify a health problem	Health Information System	Field work: Visit a Project site/health camp/session and observe the delivery of services from monitoring perspective	Gr-1- Evaluate ICDS program. Gr-2, Evaluate NTEP Gr-3, Evaluate NPCDCS	Group work: Prepare a proposal on "Increasing age of marriage"
S-10	SLO	Practicum (2): Plan a project	Practicum (5): Group work: Gr- 1-Conduct resource mapping of a health camp on Active Case Finding on TB Gr-2, Prepare the job responsibilities of team members for the camp. Gr-3, Prepare a tentative budget for the camp	Practicum (8): Group work: Gr-1-Conduct indicator mapping Gr-2, Prepare a monitoring tool. Gr-3, Prepare an analysis plan	Practicum (12): Present the Group work	Group work: Prepare a proposal on "Reducing anaemia in adolescent girls in a rural district"

S-11	SLO	Practicum (3): Present the plan	Practicum (6): Present the Group work	Practicum (9): Present the Group work	Practicum (13): Open discussion and feedback	Group work: Prepare a proposal on "Increased uptake of TB Preventive Treatment in a rural community"
S-12	SLO	Practicum (4): Open discussion and feedback	Practicum (7): Open discussion and feedback	Practicum (10): Open discussion and feedback	Practicum (14): Open discussion and feedback	Group work: Prepare a proposal on "Increased uptake of comprehensive primary healthcare services at the HWCs"

1
Learning
Resources

- 1. Plan Implementation, Monitoring and Evaluation, Unit 10, Vanishree J, Uma G. IGNOU, Apr 2017
- 2. Field E, Vila M, Runk L, Mactaggart F, Rosewell A, Nathan S. Lessons for health program monitoring and evaluation in a low resource setting. Rural and Remote Health 2018; 18: 4596. https://doi.org/10.22605/RRH4596
- 3. A Framework for Program Evaluation, Centers for Disease Control and Prevention, https://www.cdc.gov/evaluation/framework/index.htm

earning As	sessment	LS	Continuous Learni (50% weig		University Examination			
Level	Bloom's Level of Thinking	CLA (25		The state of the s	A <mark>– 2</mark> 5%)	(50% weightage)		
		Theory	Practice	Theory	Practice	Theory	Practice	
1	Remember	40%		40%		40%	-	
2	Understand	40%	S DADN	40%	-	40%		
3	Apply	40%	LEARN · LEA	P-1F _{40%}		40%	-	
4	Analyze	40%	-	40 %	-	4070		
5	Evaluate	20%		20%		20%	-	
6	Create	20%	••••••	20%	-	20%		
	Total	100	%	10	00 %	100 °	6	

Course Designers		
Experts from Industry	Experts from Higher Technical Institutions	Internal Experts
Dr Nirmala Murthy, FRHS	Dr. Balraj Dhiman, Director- Professor Community Medicine, Lady Harding Medical College, New Delhi	 Dr. B. Kalpana, SRMIST Dr Janmejaya Samal Dr Hari Singh

Course PH23306T Course N		Course Name	Management of public h	Course	PE	Professional	L	Т	Р	С		
Code	PH233001	Course Marine	Management of public in	Category	r L	Elective	3	2	0	5		
Pre-requisite Courses Nil		Co-requisite Courses	Nil	Progressiv	/e Courses	Nil						
Course Offering Department			School of Public Health	Data Book / Codes/Standard	ds	Nil						

Course I Rational	Learning e (CLR):	The purpose of learning this course is to:	Le	arni	ng				Pr	ogra	m L	earn	ing (Outc	ome	s (P	LO)			
CLR-1:	Understand the manag Disease Control Progra	ement tools and techniques for Non-communicable ams in India	4	2	3	11,	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CLR-2:	_R-2: Communicable Disease Control Programs in India		J)	(0)		2								ë		ıt			
CLR-3:	.R-3: National Digital Health Mission/ABDM		(Bloom)	(%) k	ıt (%)	edge	D	D	ing	(0		ing	ng	ning	tenc	βر	Engagement		<u>s</u>	Вu
CLR-4:				ienc	mer	owle	nkin	olvin	asor	Skills	ork	ason	ninki	Learning	mpe	sonir	gage	<u>s</u>	Skil	earning.
CLR-4:	-4: National Health Mission		Thinking	Proficiency	Attainment	V Z	Τ	m Sc	l Re	ırch	Teamwork	Re.	/e TI		II Co	Reasoning		. Skills	ship	
Course Learning Outcomes (CLO): At the end of this course, learners will be able to:		Level of Th	Expected	Expected	Disciplinary Knowledge	Critical Thinking	Problem Solving	Analytical Reasoning	Research	Tea	Scientific Reasoning	Reflective Thinking	Self-Directed	Multicultural Competence	Ethical	Community	IOI	Leadership Skills	Life Long	
CLO-1:	Contribute to managen Programs in India	nent of Non-communicable Disease Control	1	75	70	Н	Н	-	-	L	Н	-	-	-	-	•	•	-	-	Н
CLO-2:	Communicable Diseas	e Control Programs in India	2	85	75	М	Н	М	-	М	I	-		Н	Τ	М	I	-	-	М
CLO-3:	National Digital Health Mission/ABDM		3	75	70	Н	Н	М	Н	М	Τ	-	Τ	Τ	Н		H	-	,	Н
CLO-4:	Ayushman Bharat and Comprehensive Primary Healthcare		3	85	80	М	Н	Н	-	L	Н	-	-	М	Η	Η	Η	-	-	М
CLO-5:	CLO-5: National Health Mission		3	80	75	М	Н	Н	-	Η	-	-	-	Н	Η	Η	Η	Н	-	М

Dura (ho	ation our)	Non-communicable Disease Control Programs in India (12)	Infectious Disease Control Programs in India (12)	National Digital Health Mission/ /ABDM and other programs of national Importance (12)	Ayushman Bharat (AB) and Comprehensive Primary Healthcare (CPHC) 12	National Health Mission (12)
S-1	SLO	National Program for prevention & Control of Cancer, Diabetes, Cardiovascular Diseases & stroke (NPCDCS)	National TB Elimination Program (NTEP)	Context and Rationale of National Digital Health Mission/ABDM	Overview of AB, E-Sanjivanee and ABHA ID	Rationale and evolution of National Health Mission
S-2	SLO	India Hypertension Control Initiative (IHCI)	National Vector Borne Control Program (NVBDCP)	Objectives of National Digital Health Mission/ABDM	National Health Authority	Structure and Function of NHM (including the National urban Health Mission)
S-3	SLO	National Mental Health Program (NMHP)	National AIDS Control Program (NACP)	Implementation arrangements of National Digital Health Mission/ABDM	Pradhan Mantri Jan Arogya Yojana (PMJAY)	Role of Common Review Mission and critical appraisal of some CRM(s). Role of National Health System Resource Centre (NHSRC) as a think tank of NHM
S-4	SLO	Practicum (1): Group work: Literature review of NCD(s) and present in the class	COVID-19 and recent developments	Integrated Disease Surveillance Project (IDSP)	Comprehensive Primary Healthcare (CPHC)	Practicum (6): Group work: Visit NHM-DPMU of a district to understand the structure and functions
S-5	SLO	Practicum (2): Group work: Visit a district program management unit and study a NCD program	Practicum(4): Group work: Visit a Development agency and critically appraise the organization and a currently run public health project related to CD	National AYUSH Mission	HWC/Ayushman Arogya Mandir	Practicum (7): Group work: Prepare a report
S-6	SLO	Practicum (3): Group work: Prepare report, present and open discussion based on field visit	Practicum(5): Group work: Prepare a report and present	School Health Program/ RBSK/ MDM/ ICDS	Practicum: Individual Assignment: Literature review on progress of AB and submit a report	Practicum (8): Group work: Presentation and open discussion
S-7	SLO	Viva	Viva	Viva	Viva	Exam
S-8	SLO	Viva	Viva	Viva	Viva	Exam

1. Park's Textbook of Preventive and Social Medicine 24th/2017. Banarsidas Bhanot publication

2. Public Health and Community Medicine Rajvir Thalwar. First edition-AFMC & WHO, 2009

Learning

Resources

- 3. National Digital Health Mission. Ministry of Health and Family Welfare. https://www.niti.gov.in/sites/default/files/2023-02/ndhm_strategy_overview.pdf
- 4. National Health Mission. Ministry of Health and Family Welfare. https://nhm.gov.in/images/pdf/NHM/NHM more information.pdf
- 5. National Rural Health Mission. Ministry of Health and Family Welfare. https://nhm.gov.in/WriteReadData/l892s/nrhm-framework-latest.pdf
- 6. National AYUSH Mission. Ministry of AYUSH, Govt. of India. https://namayush.gov.in/sites/all/themes/webcms/images/org_str/National_AYUSH_Mission2021-22to2025-26.pdf
- 7. Ayushman Bharat, Comprehensive Primary Healthcare through Health and Wellness Centres.
 https://www.nhm.gov.in/New_Updates_2018/NHM_Components/Health_System_Stregthening/Comprehensive_primary_health_care/letter/Operational_Guidelines_For_CPHC.pdf

Learning As	ssessment		A TO THE STATE OF								
	Disamin Lovel of		Continuous Learni (50% weig			University Examination					
Level	Bloom's Level of Thinking	CLA (25	(– 1 5%)		A - 2 5%)	(50% weigl	ntage)				
		Theory	Practice	Theory	Practice	Theory	Practice				
1	Remember	400/	The second second	400/		400/					
2	Understand	40%	White The Park of	40%	-	40%	-				
3	Apply	40%	11/2	40%		40%					
4	Analyze	40%		40%	-	40%	-				
5	Evaluate	20%	TEARN LE	D I I 200/		20%					
6	Create	20%	The state of the s	P- 1 20%	-	20%	-				
	Total	100) %	10	0 %	100 %)				

Course Designers		
Experts from Industry	Experts from Higher Technical Institutions	Internal Experts
Dr Nirmala Murthy, FRHS	Dr. Balraj Dhiman, Director- Professor Community Medicine, Lady Harding Medical College, New Delhi	 Dr Kalpana B, SRMIST Dr Janmejaya Samal Dr Hari Singh

Course	PH23307T	S307T Course Name Epidemiological methods and		Course	PE	Professional	L	T	Р	С	
Code	PH233071	Course Name	Epidemic Mana	gement	Category	PE	Elective	3	2	0	5
Pre-requisi	te Courses	Nil	Co-requisite Courses	Nil	Progressiv	e Courses	N	il			
Course Offering Department		ent	School of Public Health	Data Book / Codes/Standar	ds		Nil				

	Learning le (CLR):	The purpose of learning this course is to:	Le	arni	ng				Pro	gra	m Le	earni	ng C	Outco	ome	s (PL	. O)			
CLR-1:	Examine salient fear efficient research m	tures of case control study design as an ethod	1	2	3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CLR-2:	Scrutinize cohort studies in public hea	udy designs and its variants in longitudinal alth													O)		t			
CLR-3:	public nealth		(Bloom)	Proficiency (%)	nt (%	edge	D	D	guir	s		ing	ng	ning	tenc	υg	Engagement		<u>s</u>	ng
CLR-4:	LR-4: Understand concept of bias in research studies and strategies to minimize bias in research studies		Thinking (B	cienc	nmer	Knowledge	Thinking	Solving	asor	Skill	ork	ason	Thinking	Lear	ədwc	ısoniı	ıgage	Skills	Skills	Learning
CLR-4:	Puild skills in diagons outbrook investigation control and				Attai	ary K	al Th	lem S	cal Re	Research Skills	eamwork	fic Re	tive T	ected	ral Co	Ethical Reasoning		ICT Sk	eadership	Long L
	Course Learning Outcomes (CLO): At the end of this course, learned able to:		Level of 1	Expected	Expected Attainment (%)	Disciplinary	Critical	Problem	Analytical Reasoning	Res	Ĕ	Scientific Reasoning	Reflective	Self-Directed Learning	Multicultural Competence	Ethica	Community	3	Lead	Life L
CLO-1:	Compare and contra various epidemiolog	ast nuances, strength and weakne <mark>sses of</mark> ical study designs	3	80	70	L	Н	-	Н	L	-	-		L	L	,	Н	-	-	-
CLO-2:	Validation of diagno precision in clinical r	stic tests for enhancing accuracy and research	3	85	75	М	Н	L	М	L	-	-	-	М	L	-	Н	-	-	-
CLO-3:	Hypothesis testing in both in Retrospective and prospective research designs		3	75	70	М	Н	М	Н	L	-	ı	ı	М	L	-	Η	-	ı	-
CLO-4:	O-4: Promote Evidence based medicine practice in clinical and public health practice		3	85	80	М	Н	М	Н	L	-	ı	-	М	L	-	Η	-	-	-
CLO-5:	Implement Enidemia/pandamia proparadness plan with inter		3	85	75	Н	Н	М	Н	L	-			М	L	-	Н	-	-	-

	ation our)	Descriptive study design (15)	Case control study design (15)	Cohort Study Design (15)	Experimental Study Design And Bias (15)	Field Epidemiology: Outbreak Management (15)
S-1	SLO	Basic epidemiology: Recap	Case control study design; When is a case- control study warranted	Cohort study design; selection of study population; When is a cohort study warranted	Experimental study design; RCT	Define outbreak, epidemic, pandemic, endemic; criteria for establishing outbreak
S-2	SLO	Basic epidemiology: Recap	Selection of cases and controls; Matching, Bias	Prospective and retrospective study design	Randomization and blinding	Understand the SIR model
S-3	SLO	Basic epidemiology: Recap	Odds ratio	Relative risk	Quasi-experimental designs	Steps of outbreak investigation
S-4	SLO	Epidemiological study designs; Observational studies; Descriptive study design	Case study on Nested case control study	Attrition in cohort studies	Concept and types of bias in epidemiology	Discuss WHO pandemic stages
S-5	SLO	Cross sectional study design	Assignment	Case studies on prospective and retrospective study design	Interpretation of results; tests of significance	Case study - Covid-19 Pandemic
S-6	SLO	Ecological study design	Feedback	Presentations	Assignment	Assignment – Outbreak investigation
S-7	SLO	Assignment	Confounding; strategies to reduce confounding	Feedback	Feedback	Presentation - Public Health Response to Pandemics
S-8	SLO	Viva	Viva	Viva	Viva	Exam

Learning Resources

- 1. Case-control studies. By Schlesselman, James J.Oxford University Press, New York, 1982. WA950 S342x. Oxford University Press; 1 edition (January 21, 1982)
- 2. Epidemiology. By Leon Gordis, Elsevier Publications. 2004, Third Edition
- 3. Epidemiology: Beyond the Basics by MoysesSzklo. Jones & Bartlett Learning; 3 edition (October 24, 2012)
- 4. Outlook of pandemic preparedness in a post-COVID-19 world. https://doi.org/10.1038/s41541-023-00773-0

	Dia amia i aval af		Continuous Learni (50% weig		University Examination						
Level	Bloom's Level of Thinking	CLA (25°			A – 2 5%)	(50% weightage)					
		Theory	Practice	Theory	Practice	Theory	Practice				
1	Remember	400/		400/		400/					
2	Understand	40%		40%	-	40%	-				
3	Apply	40%	CCIEN	JF 40%		40%					
4	Analyze	40%	OFSCHAN	40%	-	40 %	_				
5	Evaluate	20%	A SHEAL WAY	200/		200/					
6	Create	20%		20%	-	20%	-				
	Total	100	%	100	0 %	100	%				

[#] CLA – 2 can be from any combination of these: Assignments, Seminars, Short Talks, Mini-Projects, Case-Studies, Self-Study, MOOCs, Certifications, Conf. Paper etc.,

Course Designers		
Experts from Industry	Experts from Higher Technical Institutions	Internal Experts
Dr. Aneesh Thomas George, Consultant, Novartis, Hyderabad	Dr. Rajeev Sarkar, Associate Professor, IIPH, Shillong	Dr Alex Joseph Dr Hari Singh

Course	PH23308T	Course Name	Applied multivariat	to analysis	Course	PE	Professional	L	T	Р	С
Code	PH233001	Course Marrie	Applied illultivarial	le allalysis	Category	PE	Elective	3	2	0	5
Pre-requisi	te Courses	Nil	Co-requisite Courses	Nil	Progressiv	e Courses	N	il			
Course Offering Department		ent	School of Public Health	Data Book / Codes/Standar	ds		Nil				

	Learning le (CLR):	The purpose of learning this course is to:	Learning Program Learning Outcomes (PLO)																	
CLR-1:	Gain basic unders multivariate	tanding of the theoretical rationale for	1	2	3	113	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CLR-2:	statistics		42		v.,		2													
CLR-3:	Gain an understanding of various designs of experimental techniques Develop skills in using statistical software like SPSS &		oom)	(%) k	t (%)	edge			ing			ing	ĵر	guir	tence	<u>g</u>	ment		S	Б
CLR-4:	Develop skills in using statistical software like SPSS & STATA to analyze multivariate data		ng (B	Proficiency (%)	Attainment (%)	nowle	inking	Solving	ason	Skills	ork	ason	hinkir	Learı	ompe	Reasoning	ıgage	Skills	Skill	Learning
CLR-4:	4: Able to interpret results, and communicate the results for given data		Thinking (Bloom)		d Attai	nary K	Critical Thinking	Problem S	cal Re	Research	Teamwork	Scientific Reasoning	Reflective Thinking	ected	ıral Co		ity En	ICT Sk	Leadership Skills	Long L
	Course Learning Outcomes At the end of this course, learners will be		Level of	Expected	Expected	Disciplinary Knowledge	Criti	Prok	Analytical Reasoning	Res	1	Scient	Refle	Self-Directed Learning	Multicultural Competence	Ethical	Community Engagement	1	Leac	Life L
CLO-1:	Identify and understan	d the structure of multivariate data	3	95	85	Н	Н	М	Н	Н	Н	Н	Н	Н	Н	М	Н	М	Н	Н
CLO-2:	Able to perform Analys	is of variance and Factorial designs	3	90	80	Н	Н	М	Н	Η	Н	Τ	Η	Н	Τ	М	Н	М	Н	Н
CLO-3:	Understand the assumptions needed for the classification analysis and able to do exploratory analysis with SPSS		3	90	80	Н	Н	М	Н	Н	Н	Н	Н	Н	Н	М	Н	М	Н	Н
CLO-4:	Analyses and interpret various types of cluster analysis in community based studies		3	90	80	Н	Н	М	Н	Н	Н	Н	Н	Н	Н	М	Н	М	Н	Н
CLO-5:	Able to understand and	d draw meaningful multilevel analysis and interpret it	3	90	80	Н	Н	М	Н	Ι	Н	Τ	Η	Ι	I	М	Н	М	Н	Н

	ation our)	Introduction to Multivariate Data(8)	ANOVA & Factorial Designs(8)	Exploratory Analysis(8)	Cluster analysis (8)	Path analysis & SEM (8)
S-1	SLO	Introduction to Multivariate approach	Completely randomized design, Randomized block design	Learn Principal components analysis	concepts of Distance, Similarity	Concepts of Path analysis
S-2	SLO	difference between univariate and multivariate analysis	Repeated Measures and Summary statistics	Understand Rotation, Varimax	Evaluate K-Means cluster analysis	Introduction of AMOS software
S-3	SLO	Normality Test, assumptions	Multivariate ANOVA	Learn correlation matrix, Eigen value	Compute K mean centroid - SPSS	Structural Equation Modeling
S-4	SLO	Methodologies of Data Cleaning, missing data handling	Understand One-way Manova	Evaluate Factor analysis	Two-Step cluster analysis - SPSS	Construction of SEM
S-5	SLO	Two mean comparison & two proportion tests	Factorial design and types	FA Practical – Record Output with SPSS	Practical – Record Output with SPSS	Concepts of Multi level models
S-6	SLO	Relate Distribution of F & t	22 , 23 <mark>, 32</mark> Factorial analysis	Predict Corspondence analysis	Hierarchical Clustering Techniques	Multilevel model fits
S-7	SLO	Restate of one-way ANOVA with SPSS	Factoria <mark>l a</mark> nalysis - Problem Solving Exercises SPSS	Multidimensional Scaling	Construct Discriminant Analysis	Discussion and presentation with article examples
S-8	SLO	Multiple Linear Regression with SPSS	Discussion and presentation with article examples	CA, MDA Practical – Record Output with SPSS	HCA, DA Practical – Record Output with SPSS	Practical – Record Output with SPSS / AMOS

		2. Multivariate data analysis by Joseph FH, William CB, Prentice
Learning	Applied multivariate statistical analysis by Johnson RA,	Hall pub, 7th ED, 2010
Resources	Wichern DW, Pearson Prentice hall, NY, 6th Ed, 2007.	3. Multivariate data reduction and discrimination with SAS
		software, Khattree RN, Naik DN, SAS institute inc, 2000.
		software, Knattree Kin, Inaik Din, SAS institute inc, 2000.

Learning As	ssessment								
			Continuous Learni (50% weig	University Examination					
Level	Bloom's Level of Thinking	CLA (25	\		A – 2 5%)	(50% weightage)			
		Theory	Practice	Theory	Practice	Theory	Practice		
1	Remember	400/	_,,,,,,,,,,,	400/		400/	-		
2	Understand	40%		40%	-	40%			
3	Apply	40%	SCIENC	40%		40%	-		
4	Analyze	40%	A SHE SHE	40%	-	40%			
5	Evaluate	200/		200/		200/	-		
6	Create	20%	7	20%		20%			
	Total	100	0 %	10	0 <mark>%</mark>	100 %			

Course Designers		
Experts from Industry	Experts from Higher Technical Institutions	Internal Experts
Mrs. Kanimozhi, Biostatistician, Pfizer, Bangalore	Dr.Prasanna samuel, Associate Professor, CMC, Vellore	Dr H Gladius Jennifer, Associate Professor, SRMIST

Course Code	PH23309T	Course Name		Health economics and healthcare Course financing Category PE Professional Elective								
Pre-requisi	te Courses	Nil	Co-requisite Courses	Nil	Progressive	e Courses	Nil					
Course Offering Department			School of Public Health	Data Book / Code	es/Standards	Nil						

	Learning le (CLR):	The purpose of learning this course is to:	Le	earni	ing				Pr	ogra	am L	earn	ing	Learning Outcomes (PLO)							
CLR-1:		omics concepts, theories and methods applicable in re and everyday economic problems	(1)	2	3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
CLR-2:	health	valuation techniques used in the field of public		() (Φ								J	ce		nt				
CLR-3:	I be dependent of the court of) tr	ledg	<u>D</u>	<u>و</u>	ning	<u>s</u>		ning	ing	rning	eten	ing	Engagement		SIII	ing	
CLR-4:					Attainment (%)	now	inkir	Solving	aso	Skills	ork	Reasoning	hin Ā	Lea	duc	son	ıgag	Skills	Skills	Learning	
CLR-4:	financing, its advantag	of healthcare financing, various sources of es and limitations as well as to provide the training on care financing to analyse the financial status of us and health services	of Thinking (Bloom)	Expected Proficiency (%)	Expected Attai	Disciplinary Knowledge	Critical Thinking	Problem S	Analytical Reasoning	Research	Teamwork	Scientific Re	Reflective Thinking	Self-Directed Learning	Multicultural Competence	⊑thical Reasoning	Community Er	ICT Sk	Leadership	Long	
	Learning es (CLO):	At the end of this course, learners will be able to:	Level	Expe	Expe	Disci			Ana	Ь		Sci	Re	-JIeS	Multic	ŧΞ	Comr		P	Life	
CLO-1:	applied in the health ca	nding of how economic theory a <mark>nd methods are are sector and the financing of health services in</mark>	3	85	80	EAD	H	Н	H	Н	L	М	Н	Н	L	L	L	М	L	Н	
CLO-2:	the strengths and weal perspective of econom		3	85	80	Н	Н	Н	M	Н	L	М	Н	Н	L	L	L	М	L	Н	
CLO-3:	Ability to perform the a interventions/programm	pplication of economic evaluation on healthcare nes and other related issues	3	85	80	Н	Н	Н	Н	Н	L	Н	Н	Н	L	L	L	Н	L	Н	
CLO-4:	Enhanced conceptual approaches and method	clarity on healthcare financing, sources of finance, ods	3	85	80	Н	Н	Н	Н	Н	М	Н	Н	М	L	L	L	Н	L	Н	
CLO-5:	Have a good empirical understanding about various health systems are organised and financed by central government, public and private care providers as well as to have ability to critically analyse the applicability and impact of public health policies and interventions		3	85	80	Н	Н	Н	Н	н	L	Н	Н	н	L	М	М	L	L	Н	

	ation our)	Fundamentals of Health Economics (12)	Demand and Supply for Health Care Services (12)	Techniques of economic evaluation (12)	Health Care Financing Concepts (12)	Health Financing Models (12)
S-1	SLO-1	To familiarise with the introduction to health	To understand the concept of demandNeed and demand- elasticity of	To know the principles and application of economic	To describe the strategizing and prioritizing within scarce resources (decision making)	To know the Universal health coverage and role of
		economics	onomics demand evaluation in health care		To recognise 'How much we are spending'	health care financing
S-2	SLO-1	To understand the key concepts of economics	To know the demand for health and health services	To illustrate the types of economic evaluation	Class Presentation: To demonstrate the Trends in Per-capita healthcare expenditure in the World, India and States	Discussion: To illustrate the Universal Health Coverage by WHO, Universal Health Coverage in India
S-3	SLO-1	To learn about micro and macroeconomics-opportunity cost	To recognise the concept of Supply-Analysing supply and supply shifters	To understand the measurement of health benefits in terms of QALYS and related measures	To know the three functions of health financing	To describe the Private Health Insurance, Social Health Insurance - Community Health Insurance
S-4	SLO-1	To know the goods and services in public health-merit good- public good or social good	To familiarise with the elasticity of supply of health services	To prepare Disability Adjusted Life Years (DALY)	To analyse the types of Financing- (a) General revenue – (b) Insurance	Class Presentation: To present the Health Insurances in India (Government, Private, Community, Employees funded etc.)
S-5	SLO-1	Class Presentation: To demonstrate the concepts used in the health economics	To recognise the issues in the interactions of supply and demand in health care days	To produce Disability Free Life Expectancy (DFLE)	(c) Community financing – (d) Out of pocket Payment and (e) User fee(g) External sources of finance	To know the provider payment methods - Hospital Payment Method - Contracting
S-6	SLO-1	To outline the actors and institutions in health care-	To understand about the supplier induced demand	Class Presentation: To demonstrate (i) Trends in DALY for India	Class Presentation: To illustrate Trends in the types of healthcare financing	To understand the effect of payment systems on patients
S-7	SLO-1	Informational asymmetry and concept of agency	Class Presentation: Demand and supply in healthcare in India and its determinants	Class Presentation: (ii) Disparities in DALY by sub- population (iii) DALY by causes	To explain the Contracting in - contracting out	Discussion: To demonstrate the health financing models by different countries
S-8	SLO-1	Class test/Internal assignment submission	Class test/Internal assignment submission	Class test/Internal assignment submission	Class test/Internal assignment submission	Class test/Internal assignment submission

Learning

Resources

- 1. Guinness, D., & Wiseman, V, 2011, "Introduction to health economics" (2nd ed) Berkshire: Open University Press.
- 2. Dakin, H, Devlin, N, Feng, Y, Rice, N, O'Neill, P, and Parkin, D., 2015, "The Influence of Cost-Effectiveness and Other Factors on NICE Decisions" Health Economics, 24, 1256–1271. doi: 10.1002/hec.3086.
- 3. Drummond, M.F., Sculpher, M.J., Claxton, K., Stoddart, G.L. and Torrance, G.W., 2015, "Methods for the Economic Evaluation of Health Care Programmes", Oxford University Press
- 4. Murray, Christopher J L et al, 2012, "Disability-adjusted life years (DALYs) for 291 diseases and injuries in 21 regions, 1990–2010: a systematic analysis for the Global Burden of Disease Study 2010", The Lancet, Volume 380, Issue 9859, 2197 2223 4.
- 5. Mauskopf J., Rutten F, Schonfeld W., 2003, Cost-Effectiveness League Tables: Valuable Guidance for Decision Makers? Pharmaco Economics, 21:991-1000

earning As	ssessment	7	CIEN	CE					
Level	Disamin Lovel of		Continuous Learni (50% weig		University Examination				
	Bloom's Level of Thinking	CLA (25			<mark>4 -</mark> 2 5%)	(50% weightage)			
		Theory	Practice	Theory	Practice	Theory	Practice		
1	Remember	40%		40%		40%	-		
2	Understand	40%	· 数据是需要。	40%	-	40%			
3	Apply	40%		40%		40%	-		
4	Analyze	40%	Marie Charles	40 %		4070			
5	Evaluate	20%	1/1/2	200/		200/	-		
6	Create	20%		20%	-	20%			
	Total	100	% TEARN-LEA	P. IFAD 10	0 %	100	%		

Course Designers		
Experts from Industry	Experts from Higher Technical Institutions	Internal Experts
 Mr. Jaykrishnan Menon, Applied Wonder, Bangalore Dr. Mohan.V, MD, PhD Mohan Diabetes Research Foundation, Chennai 	Prof D. Narayana, India Health Economics and Policy Association (IHEPA), narayanadelampady@gmail.com Dr. Godwin S K, University of Kerala & IHEPA, godwinsk@yahoo.com	Dr. Benson Thomas, Assoc Professor, SRMIST

Course	PH23310T	Course Name	Budget analysis and	d economic	Course	PE	Professional	L	T	Р	С		
Code	PH233101	Course Name	evaluatio	n	Category	PE	Elective	3	2	0	5		
Pre-requisi	Pre-requisite Courses Nil		Co-requisite Courses	Nil	Progressiv	re Courses	N	ii					
Course Offering Department			School of Public Health	Data Book / Codes/Standar	ds	Nil							

	Learning	The purpose of learning this course is to:	Le	arni	na				Pro	ogra	m Le	arni	ng C	outco	ome	s (PL	_O)			
Rational	le (CLR):			13b.T	3					3		-	- 3			- (,			
CLR-1:	Describe the concepts finance etc. with health	such as OOPE, Catastrophic Paym <mark>ent, Dis</mark> tress ncare expenditures	1	2	3	3 1 2 3 4 5 6 7 8 9 10 11 12 13 14							14	15						
CLR-2:	Familiarize with India a pattern to healthcare of	and state budgets, allocation and expenditure components	(Bloom)	200			2								ë		ıt			
CLR-3:	Describe hydrete (control and state) and import the knowledge about			(%) /	t (%)	edge	б	D	ing	w		ing	ng	ning	tenc	βL	gement		<u>s</u>	рu
CLR-4:	Illustrate various economic evaluation techniques such as CBA, CEA, CUA etc.					Knowledge	Thinking	Solving	asor	Skills	ork	ason	Thinking	Learning	эдш	Ethical Reasoning	Engage	<u>s</u>	Skills	earning
CLR-4:	Describe government	spending and its impacts	Thinking	Proficiency	Attainment	조	T	S	al Re	Research	eamwork	c Re		sted	al Cc	Rea		r Skills	eadership	Long Le
			È			na	<u>8</u>	ole Pie	S	ĕ	-ĕ	tifi	cti	ľē(ur	ā	l it	ICT	ge	Ö
Course I Outcome (CLO):	Learning es	At the end of this course, learners will be able to:	Level of	Expected	Expected	Disciplinary	Critical	Problem	Analytical Reasoning	Re	L	Scientific Reasoning	Reflective	Self-Directed	Multicultural Competence	Ethic	Community		Lea	Life I
CLO-1:	Understand the conce finance etc. with health	pts such as OOPE, Catastrophic Payment, Distress	3	95	85	Н	Н	М	Н	Н	I	Н	Τ	Н	Τ	М	Н	М	Н	Н
CLO-2:	Familiarize with India a pattern to healthcare of	and state budgets, allocation and expend <mark>iture</mark> components	3	90	80	80 H H M H H H H H					Н	Н	М	Н	М	Н	Н			
CLO-3:	Understand budget an	d its healthcare and healthcare related components	3	90	80 H H M H H H H H H M					Н	М	Н	Н							
CLO-4:	O-4: Practical knowledge various economic evaluation techniques such as CBA, CEA, CUA etc.			90	80	Н	Н	М	Н	Н	Н	Н	Н	Н	Н	М	Н	М	Н	Н
CLO-5:	Understand governme	ent spending and its impacts	3	3 90 80 H H M H H H H H H M					Н	М	Н	Н								

	ation our)	Healthcare Expenditure (12)	Budget (12)	Gender Budgeting (12)	Economic Evaluations (12)	Budget Impact Analysis (12)
S-1	SLO	Expenditure		Describe about Gender Budget	Describe- Economic Cost Benefit Analysis (CBA) - Concept – Merits - Limitation	Discuss about Equity in Health
S-2	SLO	Explain about Out-of-of pocket expenditure and measurement	Explain the Importance of Public Healthcare Budgets	Meaning and Concept	Steps to perform the CBA	Discuss about the global health expenditure and healthcare equity
S-3	SLO	Discuss about Catastrophic Expenditure and distress financing	Discuss about the Component of Indian Healthcare Budget	Describe Gender Development Index	Discuss – Cost Effective Analysis (CEA): Concepts, Merits and Limitations	Explain about the role of finance commission and NITI Ayog in Health
S-4	SLO	Explain the concept of healthcare financing – Public and Private healthcare financing	Discuss about budget components - Medical and Public Health, Family Welfare	Discuss about Gender Inequality Index	Steps to perform CEA	Describe Budget Incident Analysis
S-5	SLO	Discuss about inequalities in healthcare use and expenditures (1/2)	Discuss budget components - Water and Sanitization, Nutrition	Explain the importance of Gender Budgeting	Describe – Cost Utility Analysis (CUA) – Concepts, Merits and Limitations	Concept, Steps to perform BIA
S-6	SLO	Discuss about inequalities in healthcare use and expenditures (2/2)	Explain Types of Public Healthcare Accounts – Capital and revenue Accounts	Class Presentation – Gender Budget in India (1/2)	Steps to Perform CUA	Describe about Budget Impact Analysis -Concept and performance
S-7	SLO	Class presentation: inequalities in healthcare use and expenditures in India (1/2)	Class Presentation – Trends in Public Healthcare Expenditure in India	Class Presentation – Gender Budget in India (2/2)	Explain about Cost Minimization Analysis (CMA)	Class test/Internal assignment submission (1/2)
S-8	SLO	Class presentation: inequalities in healthcare use and expenditures in India (2/2)	Class Pres <mark>enta</mark> tion – Trends in the Public Healthcare Expenditure in States	Class test/Internal assignment submission	Class Presentation – Various methods of economic analysis	Class test/Internal assignment submission (2/2)

Learning Resources

- 1. Tyagi B.P "Public Finance," Jai Prakash Natu & Co, Meerut,7th Edition,1994.
- 2. Srivastava D.K., "Issues in Indian Public Finance," New Century Publications, 2005.
- 3. Stostsky, J G, Zaman, A (2016) The Influence of Gender Budgeting in Indian States on Gender Equality and Fiscal Spending, IMF Working Paper
- 4. Chakraborty, L (2016) Asia: A Survey of Gender Budgeting, IMF Working Paper
- 5. Ashok, K. Chakraborty LS, Bhattacharrya PN (2005), Gender Budgeting in India, United Nations Fund for Women, South Asia, Regional Office
- 6. WHO (2013), The Economics of Social Determinants of Health and Health Inequalities: A resource book
- 7. Papanicolas,I Cylus, J. Smith, PC (2016) Health System Efficiency: How to make measurement matter for policy and management, World Health Organisation, Geneva
- 8. Aday LA, Begley CE, Lairson DR, Balkrishnan R (2004) Evaluating the Healthcare System: Effectiveness, Efficiency and Equity
- 9. Sculpher M 'Economic Evaluation' in Fulop N et.al (eds) Studying the organization and delivery of health services: Research Methods, London: Routledge 2001

		(Continuous Learni (50% weig	University Examination					
Level	Bloom's Level of Thinking	Bloom's Level of CLA – 1				(50% weightage)			
		Theory	Practice	Theory	Practice	Theory	Practice		
1	Remember	40%		40%		40%	-		
2	Understand	40%		40%	-	40%			
3	Apply	40%		400/		40%	-		
4	Analyze	4070	SCIEN	40%	-	40%			
5	Evaluate	20%	\$ O1	20%		20%	-		
6	Create	20%	A SHE VILLE	20%	-	20%			
	Total	100	%	10	0 %	100 %	6		

Course Designers		
Experts from Industry	Experts from Higher Technical Institutions	Internal Experts
Dr. Francis Zavier, Population Council, New Delhi. fzavier@popcouncil	Dr. Godwin S K, University of Kerala & IHEPA, godwinsk@yahoo.com	Dr D Narayana, Adj Professor, SRMIST Dr. Benson Thomas, Assoc Professor, SRMIST

Course Code	PH23311T	Course Name		Environmental Health Risk Assessment		PE	Professional Elective	3	T 2	P 0	C 5
Pre-requisi	Pre-requisite Courses Nil		Co-requisite Courses	Nil	Progressiv	e Courses	Nil				
Course Off	ering Departm	ent	School of Public Health	Data Book / Codes/Standar	Nil						

	Learning le (CLR):	The purpose of learning this course is to:	Le	earni	ng				Pro	ogra	m Le	arni	ng C	outco	ome	s (PL	. O)			
CLR-1:		es and fundamental steps involved in conducting a t	CH	2	3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CLR-2:	Develop exposure assessment strategies for health risk assessment and epidemiological studies		A FAIR	Ján.											4					
CLR-3:	Evaluate a particular hazard's potential effects on public health while taking into consideration its varying sensitivities, uncertainties, and other factors		(Bloom)	cy (%)	ent (%)	Knowledge	βL	D _C	ning	s _l		ning	king	Learning	etence	ing	Engagement		Skills	ing
CLR-4:	Apply right appearment mathed at a page the health impact of avposure			Proficiency	Attainment	now	Thinking	Solving	easc	Skills	/ork	aso	Thinking	Lea	omp	ason	ıgag	Skills		earning
CLR-4:	Understand how social communication of envi	l and cultural values shape perceptions and ironmental risks	Thinking				Critical Th	Problem S	Analytical Reasoning	Research	Teamwork	Scientific Reasoning	Reflective ⁷	Self-Directed	tural C	Ethical Reasoning		ICT SI	eadership	Long L
Course I Outcome (CLO):	Learning es	At the end of this course, learners will be able to:	Level of	Expected	Expected	Disciplinary	Cri	Pro	Analy	Re	•	Scier	Refle	Self-D	Multicultural Competence	Ethi	Community		Lea	Life
CLO-1:	Describe the procedur	es for carrying out a health risk assessment	1	95	85	Н	32	-	-	-	-		-		-	-	-	-	-	-
CLO-2:	Identify and create appendemiological research	propriate exposure assessment methods for rch and health risk assessment	1	90	85	М	-	-	-	-	М	L	-	Н	-	-	L	-	·	L
CLO-3:	Examine a specific hazard's possible impact on public health		2	90	85	М	L	L	М	L	L	Н	I	Н	1	L	-	-	-	L
CLO-4:	Utilize risk assessment techniques to evaluate the impacts of environmental hazard exposure on health.		2	90	85	Н	L	L	М	L	L	Н	-	Н	-	L	-	-	-	L
CLO-5:	Plan risk communication to the community involved		3	90	75	Н	L	L	М	Н	М	Н	Н	Н	-	-	Н	-	-	L

Dura (1.5 l	ation hour)	Health Risk Assessment	Hazard Identification	Exposure Assessment	Risk Characterization	Risk Communication
S-1	SLO	Understanding Risk Assessment – Introduction, types and Frameworks	Identification of hazards – Introduction	Understanding of Terminologies used in exposure assessment	Risk characterization - Introduction	Risk perception and risk communication in the context of community engagement
S-2	SLO	Illustrate Risk assessment models – Methods and approaches	Explain Dose–response assessment	Planning an exposure assessment	Key principles in environmental health risk characterization	Risk communication – things to know and things to avoid
S-3	SLO	Describe Stages of environmental health risk assessment (EHRA)	Understand the prime role of animal studies in risk assessment	Approaches to quantifying exposures	Quantitative and qualitative risk characterization	Risk communication – understanding conflicts
S-4	SLO	Environmental health risk assessment and health impact assessment	Illustrate dose-response modeling	Demonstrate the Issues in exposure assessments	Risk estimation	Planning risk communication
S-5	SLO	Evaluating risk assessment methods	Discuss haza <mark>rd id</mark> entification in different sc <mark>enari</mark> os	Exposure assessment calculations	Combining risk estimates	Preparing EHRA report
S-6	SLO	Identifying and describing issues within existing environmental conditions	Carcinogen Vs non carcinogen	Case study- Discussion	Guidance on selecting sources of toxicological data and environmental health criteria	EHRA – review and appraise
S-7	SLO	Identifying susceptible populations and exposure pathways	Carcinogens – identification and assessment, quantification	Sources of exposure assessment data.	Bio monitoring and microbiological risk assessment	National and international programs
S-8	SLO	EHRA – Case study	Environmental sampling and analysis	Exposure Assessment – Practical – Sample data - Problem solving	Case study - Discussion	Risk communication examples- Activity

Learning Resources

- 1. Risk Assessment for Environmental Health, 2nd Edition, By Mark G. Robson, William A. Toscano, Qingyu Meng, Debra A. Kaden, Published December 30, 2022 by CRC Press
- 2. Exposure Assessment in Environmental Epidemiology (2 edn), By Mark J. Nieuwenhuijsen (ed.) Published: June 2015. https://doi.org/10.1093/med/9780199378784.001.0001
- 3. Environmental Risk Communication, Principles and Practices for Industry By Susan Zummo Forney, Anthony J. Sadar, Published May 31, 2023 by CRC Press
- 4. Fundamentals of Environmental and Toxicological Chemistry, Sustainable Science, Fourth Edition, By Stanley E. Manahan. Published April 10, 2013

	Diagram in Loyal of		Continuous Learnir (50% weig		University Examination				
Level	Bloom's Level of Thinking	CLA (25	. – 1	CL	A – 2 (5%)	(50% weightage)			
		Theory	Practice	Theory	Practice	Theory	Practice		
1	Remember	400/		40%		40%	-		
2	Understand	40%		40%	-	40%			
3	Apply	400/	SCIEN	E 440%		400/	_		
4	Analyze	40%	801	40%	-	40%			
5	Evaluate	20%		200/		20%	-		
6	Create	20%		20%	<u> </u>	20%			
	Total	100	%	10	00 %	100 %			

Course Designers		
Experts from Industry	Experts from Higher Technical Institutions	Internal Experts
Mr.Girish Raghav, Plant Operations Lead, Mawaad Environmental Services, United Arab Emirates	1. Dr.K.Elangovan, DDG, DGFASLI, Govt.of India	1. Dr Dhivya K, SRM IST

Course Code	PH23312T	Course Name	•	Geo-spatial Technologies in environmental health		PE	Professional Elective	3	T 2	P 0	C 5	
Pre-requisi	Pre-requisite Courses Nil		Co-requisite Courses	Nil	Progressiv	e Courses	Nil					
Course Off	Course Offering Department		School of Public Health	Data Book / Codes/Standar	ds	Nil						

	Learning le (CLR):	The purpose of learning this course is to:	Le	arni	ng				Pro	ogra	m Le	earni	ing C	Outco	ome	s (PL	.O)			
CLR-1:	Describe various GIS handle spatial and nor	techniques within spatial analytical framework and n-spatial database	Cal	2	3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CLR-2:	Obtain understating about coordinate systems, differential positioning concepts				()		2								è		ıt			
CLR-3:	Understand the physical principles and sensing process in remote sensing		(Bloom)	(%) k	nt (%)	egpe	D	g G	ing	w		ing	ng	ning	tenc	βL	lement		<u>s</u>	ng
CLR-4:	Likilia Ilmandada Andiffananki Antana afananan Ilman Anii tiranad				ımer	Novle	Thinking	Solving	asor	Skills	놋	ason	Thinking	Lear	mpe	sonir	Engage	<u>s</u>	Skills	earning
CLR-4:	Utilize geospatial tech and risk reduction	niques for environmental he <mark>alth</mark> risk assessment	Thinking	Proficiency	Attainment	≥ Z	I T	E S	I Re	Research Skills	eamwork	Re	ve T	ted	al Co	Ethical Reasoning		r Skills	eadership	
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ļ	P 1 /2		ina	Critical	Problem	tice	ses	Les	ıtific	ecti	i.e	tura	sal	ınit	ICT	der	Long
Course Outcome (CLO):	Learning es	At the end of this course, learners will be able to:	Level of	Expected	Expected	Disciplinary Knowledge	Cri	Pro	Analytical Reasoning	Re	·	Scientific Reasoning	Reflective	Self-Directed Learning	Multicultural Competence	Ethi	Community		Геа	Life
CLO-1:	Understand various G spatial and non-spatia	IS and navigation tools and techniques to handle I database	1	95	85	L		-	-	-	-		-		-	-	-	Н	-	-
CLO-2:	Explain various datum concepts	s, coordinate systems, differential positioning	1	90	85	М	-	-	-	-	-	L	-	Н	1	ı	-	Н	-	L
CLO-3:	Explain the physical p	rinciples and sensing process in remote sensing	2	90	85	М	М	М	-	М	L	Н	Н	Н	L	-	-	Н	-	L
CLO-4:	Differentiate the type of sensors, characteristics and different data acquisition techniques.		2	90	85	Н	М	М	-	М	L	Н		Н	L	•	•	Н	-	L
CLO-5:	Apply integrated geospatial techniques in disaster management and disaster risk reduction		3	90	75	Н	Н	Н	-	Н	L	Н	Н	Н	L	-	-	Н	-	L

Dura (1 h	ation our)	Geographical Information System (8)	Spatial Data visualization and Analysis (8)	Remote sensing - Basics (8)	Data Acquisition (8)	Risk management (8)
S-1	SLO	Global Information System – Introduction, Principles	Cartography – Type of Maps	Basic concepts of Remote Sensing – History and Development	Understanding Satellites, Sensors and Specifications	Basic concepts of Hazard Evaluation, Zonation
S-2	SLO	Basic concepts of spatial data and non-spatial data representation	Understanding of Coordinate system	Electromagnetic Radiation (EMR) and Its Characteristics	Concepts related to Weather Satellites	Basics of Land use planning
S-3	SLO	Spatial data– Raster and Vector data	symbolization in Maps – Visual variables and color	Wavelength Regions and Wavelength Significance	Screen transformations of Raster and Vector Data	Performing Risk Assessment - Practical
S-4	SLO	Understanding data structures and file format - QGIS	Spatial data Analysis –Basic Functions	Conceptualization of Interaction of EMR with Atmosphere and Earth's Surface	Satellite imagery and geospatial datasets - Acquisition	Case Study Discussion
S-5	SLO	In depth understanding of Vector and raster Data & its Representation	Application of Spatial analysis	Absorption in the context of Interaction of EMR with Atmosphere and Earth's Surface	Data acquisition - Practical	Exposure Assessment - Practical
S-6	SLO	Illustrate Problems with spatial data	Spatial D <mark>ata –</mark> Measure <mark>men</mark> ts and Transform <mark>ati</mark> ons	Atmospheric Windows and Energy Balance Equation	Understanding basics of digitizing	Exposure Assessment - Practical
S-7	SLO	Importance of geospatial data and analysis in disaster management	QGIS – Measurement options, Application and example	Resolution, Spectral Response and Spectral Signature	Remote sensing data – Preprocessing requirements	Spatial applications for Risk Management
S-8	SLO	Geocoding Issues and challenges	Case study - Practical	Application of Remote sensing data	Case study – Discussion - Practice	Case study Discussion

Learning Resources

- 1. Lillesand, Thomas M. and Kiefer, Ralph, W., "Remote Sensing and Image Interpretation", 4th Edition, John Wiley and Sons, New York, 2007
- 2. George Joseph & C. Jeganathan, Fundamentals of Remote Sensing 3rd edition, Universities Press, India, 2018
- 3. GIS for Environmental Applications: A practical approach Paperback (7 June 2016) by Xuan Zhu, Publisher: Routledge; 1st edition
 4. GIS for Environmental Applications: A practical approach Paperback (7 June 2016) by Xuan Zhu, Publisher: Routledge; 1st edition

	Diam's Level of		Continuous Learni (50% weig	University Examination					
	Bloom's Level of Thinking	CLA (25			A – 2 5%)	(50% weightage)			
Level		Theory	Practice	Theory	Practice	Theory	Practice		
1	Remember	40%		40%		40%	-		
2	Understand	40%		40 %	-	40 %			
3	Apply	400/	SCIEN	E 4 4000		400/	-		
4	Analyze	40%	SEOTION TO SAME	40%	-	40%			
5	Evaluate	200/		200/		200/	_		
6	Create	20%		20%		20%			
	Total	100) %	100) <mark>%</mark>	100 9	· %		

Course Designers		
Experts from Industry	Experts from Higher Technical Institutions	Internal Experts
Dr.Manikanda Bharathi, Business Development Manager, GEMS Tamil Nadu	Dr S.Sanjeevi Prasad, Associate Professor, sanjeevi.geo.unom@gmail.com	Dr Vignesh KS, SRM IST Dr Dhivya K, SRM IST

Course	PH23313T	Course Name			Course	PE	Professional	L	Т	Р	С
Code	PH233131	Course Marrie	designing health of	ng health campaigns C		PE	Elective	3	2	0	5
Pre-requisi	te Courses	Nil	Co-requisite Courses	Nil Progressive		ve Courses	N	il			
Course Offe	ering Departm	ent	School of Public Health	Data Book / Codes/Standards		Nil					

	Learning le (CLR):	The purpose of learning this course is to:	Le	arni	ng		900			Pro	ogra	Program Learning Outcomes (PLO)						-O)			
CLR-1:	Describe the theorie	es and concepts in Health Comm <mark>unicati</mark> on.	591	2	3	A	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CLR-2:	Understand role of oimproving communi	context in changing social nor <mark>ms</mark> and cation	(%) (%) (%)								_	e		<u>ب</u>							
CLR-3:	Behavior Change C	communication - Basics	(Bloom)		1t (%	*	agpe	D	D	ing	"		ing	ng	ning	tenc	βι	me		<u>s</u>	bu
CLR-4:	Develop a campaign for behavior change			Proficiency	mer		owle	JKin,	Solving	asor	Skills	ź	Reasoning	Thinking	Learning	μpe	onir	Engagement	<u>s</u>	Skills	Learning
CLR-4:	Understand the role protection	erstand the role of strategic communicati <mark>on i</mark> n Health			Attainment (%)	対象	Iry Kn	al Thinking	em Sc	al Rea	Research Skills	Feamwork	c Rea	-	cted L	al Cor	Reasoning		ICT Skills	adership	Long Le
Course Outcome (CLO):	Learning es	At the end of this course, learners will be able to:	Level of Thinking	Expected	Expected	LI	Disciplinary Knowledge	Critical	Problem	Analytical Reasoning	Rese) <u> </u>	Scientific	Reflective	Self-Directed	Multicultural Competence	Ethical	Community)	Геад	Life Lo
CLO-1:	Understand about the	heories of public health communication	3	95	85		Н	Н	M	Н	Н	Н	Н	Н	Н	Н	М	Н	М	Н	Н
CLO-2:	Have knowledge ab	out strategies to change behaviors based on	3	90	80	•••	Н	Н	М	Н	Н	Н	Н	Н	Н	Н	М	Н	М	Н	Н
CLO-3:	Understand the role	3	90	80		Н	Н	М	Н	Н	Н	Н	Н	Н	Н	М	Н	М	Н	Н	
CLO-4:	Conceptual clarity on role of strategic communication in socia change		3	90	80		Н	Н	М	Н	Н	Н	Н	Н	Н	Н	М	Н	М	Н	Н
CLO-5:	Conceptual clarity of Social Change	of deriving and identifying indicators for	3	90	80		Н	Н	М	Н	Н	Н	Н	Н	Н	Н	М	Н	М	Н	Н

	ration nour)	Concepts in health communication/ Crafting Campaign (12)	Campaign Designing (12)	Campaign channels (12)	Campaign Implementation (12)	Case Study and Presentation (12)
S-1	SLO	Define the Concept Health Communication	Situation Analysis # 1 Case Study	Barriers and Facilitators of Change	Creative Messaging: Activity	Formative or baseline evaluation: Secondary data or conduct research for primary data Log Frame: IPO model
S-2	SLO	Evolution of Health Communication	Situation Analysis # 2 Case Study	Developing communication Objectives	Concept, Field Testing	Mid-point evaluations: Process Evaluation.
S-3	SLO	Basics of Strategic communication in Health	Layers of Cause and Effect	Channel Activity and Material Mix	Drafting and Reviewing materials	Summative evaluation to compare outputs and outcomes with baseline measures
S-4	SLO	SLO -1	Role of the Government in information dissemination about health &healthcare	Activity: Layers of Cause and Effect	Refinement of the Communication Strategy	Overview of implementation plans
S-5	SLO	Sood S, Shefner-Rogers C, Skinner J. Health communication campaigns in developing countries. Journal of creative communications. 2014 Mar;9(1):67-84.	Communication Strategy Overview	Getting ready to create	Implementation planning: Gantt Chart	Team Work: Effective Campaigns in India and Globally – A review and discussion
S-6	SLO	Discussion:	Communication Strategy Exercise	Getting ready to create: Activity	Planning activities: Stakeholder Meetings	AIDS campaign
S-7	SLO -1	Hagg E, Dahinten VS, Currie LM. The emerging use of social media for health-related purposes in low and middle-income countries: A scoping review. International journal of medical informatics. 2018 Jul 1;115:92-105.	Developing Communication Objectives	Creative Briefs: An introduction / Creative brief	Planning activities: Team Meetings	Smoke Free Tobacco Campaigns

S-8	SLO -1	Discussion	Strategic Approach and Positioning	Effective Messages: An overview / Creating Effective Message	Indicators for Monitoring SBCC activities	
S-9	SLO -1	Basics of Campaign Creation (WHO Guide)	Audience Segmentation	Drafting and Reviewing materials / Concept, Field Testing	Monitoring plan for SBCC campaigns	
S-10	SLO -1	Learning about, and practicing development, of SOCOS – Single Overarching Communication	······································	IENCE 4.		Presentation of
		Outcome that you want to archive	Audience Segmentation:	Display of activities and	Budgeting for SBCC Discussion of Budget Line	Campaign Strategy and Campaign
		Defining and mapping your target audience	Activity	presentation	items	
		Developing key messages for your SOCO Tools and tactics for creating a campaign	INST NO STATE OF THE STATE OF T	NoToC		
S-11	SLO -1	People Analysis activity	Activity: Audience		Example of a budget and	Feedback of the
S-12	SLO -1	Formative Research Gaps	Segmentation for their research Problem	Mid Term Exams	discussion	program

Learning Resources

- 1. Adapting Materials for Audiences with Lower Literacy Skills. Washington, DC: FHI 360/C-Change.
- 2. National Cancer Institute. 1989. Making health communications work: A planner's guide. Rockville, MD.: U.S. Department of Health and Human Services
- 3. O'Sullivan, Gael, Joan Yonkler, Win Morgan, and Alice Payne Merritt. 2003. A field guide to designing a health communication strategy. Baltimore: Johns Hopkins Bloomberg School of Public Health/Center for Communications Programs.
- 4. Smith, Bill and John Strand. 2008. Social Marketing Behavior: A Practical Resource for Social Change Professionals. Washington, DC: AED.

	Dia suria i susi ef		Continuous Learni (50% weig			University E	xamination		
Level	Bloom's Level of Thinking	CLA (25°	1	CL/	A – 2 5%)	(50% weightage)			
		Theory	Practice	Theory	Practice	Theory	Practice		
1	Remember	400/		400/		400/	-		
2	Understand	40%		40%	-	40%			
3	Apply	40%	SCIEN	400/		400/	-		
4	Analyze	40%	OFSCHAN	40%	-	40%			
5	Evaluate	200/	A SHE AND	200/		200/	-		
6	Create	20%		20%	-	20%			
	Total	100	%	10	0 %	100	%		

Course Designers		
Experts from Industry	Experts from Higher Technical Institutions	Internal Experts
1. Dr. Sugata Roy	1. Dr. Sunitha Kuppuswamy	1. Geetha Veliah

Course Code	PH23314T	Course Name	_	dia analysis and evaluating health promotion interventions		PE	Professional Elective	L 3	T 2	P 0	C 5
Pre-requisi	ite Courses	Nil	Co-requisite Courses	Nil	Progressiv	e Courses	N	il			
Course Off	ering Departm	ent	School of Public Health	Data Book / Codes/Standar	ds		Nil				

	Learning le (CLR):	The purpose of learning this course is to:	Le	arni	ng					Pro	ogra	m Le	arni	ng C	Outco	ome	s (PL	-O)			
CLR-1:	Understand the role	of Media in Health Literacy	391	2	3	V	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CLR-2:	Understand the con Disinformation	text of various media in spreading	(n	(%)	(%)		Φ	2								9		nt			
CLR-3:	Understand social listening in Public Health					*	edg	б	D	ning	S		ing	ing	nin	ten	ng	me		<u>s</u>	ng
CLR-4:	Appy tools for social listening			sieno	ıme		lwor	Thinking	Solving	asor	Skill	Ť	asor	Thinking	Learning	mpe	soni	Engagement	<u>s</u>	Skills	arning
CLR-4:				Proficiency	Attainment		고 자	I Thi	m Sc	al Re	Research Skills	Feamwork	c Re			a Co	Rea		ICT Skills	eadership	Long Le
Course Outcome (CLO):	Learning es	At the end of this course, learners will be able to:	Level of Thinkin	Expected	Expected	TH	Disciplinary Knowledge	Critical	Problem	Analytical Reasoning	Res	Ĕ	Scientific Reasoning	Reflective	Self-Directed	Multicultural Competence	Ethical Reasoning	Community	3	Lead	Life L
CLO-1:	In-depth knowledge intervention evaluat	on how media analysis and he <mark>alth</mark> ion is conducted	3	80	75	LIL	H	М	М	Н	Н	Н	L	М	Ι	М	Τ	Н	М	Н	Н
CLO-2:	Understand the how	v media influences behavior	3	80	75		Н	M	М	Н	Н	Н	L	М	Η	М	Η	Н	М	Н	Н
CLO-3:	Have knowledge about how disinformation is spread			80	75		Н	М	М	Н	Н	Н	L	М	Н	М	Н	Н	М	Н	Н
CLO-4:	Understand the role of responsible journalism		3	80	75		Н	М	М	Н	Н	Н	L	М	Н	М	Н	Н	М	Н	Н
CLO-5:	Social listening and its importance in Public Health Data Collection			80	75		Н	М	М	Н	Н	Н	L	М	Н	М	Н	Н	М	Н	Н

Durat	ion (hour)	Role of Media in Health Literacy /Disinformation (12)	Responsible Journalism (12)	Social Listening (12)	Tools for Media Analysis (12)	Evaluation of Health Promotion Interventions (12)
S-1	SLO -1	Define the Concept Health Literacy	The perils of misinformation: when health literacy goes awry: Peter J. Schulz 1 ☑ and Kent Nakamoto2,3: Review	Social Listening: What is SL?	Tools available for Media Analyis: Social Media Listening	RE-AIM Model: Basics of Health Promotion Evaluation
S-2	SLO -1	Importance of Health Literacy In LMICs	Approaches to Identify Fake News: A Systematic Literature Review Dylan de Beer and Machdel Matthee Review and discussion	What is Social monitoring?	https://www.youtube.com/ watch?v=rjwEdYfABeU	Reach: Reporting on demographic characteristics - Comparison between participants in different study conditions and between those who stayed in the
S-3	SLO -1	Media: All types of Media	Ethical Journalism: What is?	What is Social Rage?	PEMAT Tools for Print Material	intervention and those lost to follow-up - Unknown as to the degree to which those in the intervention were similar to the target audience
S-4	SLO -1	Digital Media and the future	Principles of Ethical Journalism: Truth and Accuracy	https://www.youtube.c om/watch?v=pTD78bl bLdU	Activity with Print Material	Effectiveness The impact of an intervention on important outcomes, including potential negative effects, quality of life, and economic outcomes. "How do I know my intervention is effective?"
S-5	SLO -1	Conceptualizing "Critical Media Health Literacy"	The Eth <mark>ics of Truth-</mark> Telling in Health-Care	Discussion on Social Listening		
S-6	SLO -1	Understanding TOHFLA/ REALM	Settings Yusrita Zolkefli Reading Principles of Ethical Journalism: Independence	https://blog.hubspot.co m/service/social- listening-examples	PEMAT Tools for Video	Adoption: "How do I develop organizational support to deliver my intervention?"
S-7	SLO -1	https://digitalcommons.uri.edu/cgi/viewcontent.cgi?article=1184&context=jemle	Principles of Ethical Journalism: Fairness and Impartiality Principles of Ethical	Strategy creation for effective social listening for Health Content in the Indian	PEMAT VIDEO - Activity	intervention?

S-8	SLO -1	Discussion regarding SMLscale	Journalism:Humanity	Context: Discussion		Implementation: At the individual level, implementation refers to clients' use of the intervention and implementation strategies. "How do I ensure the intervention is delivered properly
S-9	SLO -1	Understanding Misinformation	Principles of Ethical Journalism: Accountability	Social Listening as Social Diagnosis or needs assessment?	Using Sentiment Analysis in Social media	Maintenance: The extent to which: a) behavior is sustained 6 months or more after treatment or intervention; and b) a program or policy becomes institutionalized or part of the routine organizational practices and policies.
S-10	SLO -1	Understanding Disinformation	Case Study: Naming Survivors of Sexual Assault	Using Instagram and Facebook for better journalism		RE-AIM: Case study https://www.researchgate.net /publication/338070068_Ada
S-11	SLO -1	COVID-19 Misinformation Online and Health Literacy: A Brief Overview	Debate: should the name of the survivor be released to empower the	Social network analysis: Learning and	Understanding Ngrams and how we can track	pting_and_Operationalizing_t he_RE- AIM_Framework_for_Implem entation_Science_in_Environ
S-12	SLO -1	Group activity: Discussion / Debate	person or keep it confidential to protect her?	using in Healthcare	"phenomenon" on social media	mental_Health_Clean_Fuel_ Cooking_Programs_in_Low_ Resource_Countries/figures? lo=1

Learning resources:

- https://www.researchgate.net/publication/343795206_Social_listening_a_potential_game_changer_in_reputation_management_How_b ig_data_analysis_can_contribute_to_understanding_stakeholders%27_views_on_organisations
 Social media analytics: a survey of techniques, tools and platforms Bogdan Batrinca Philip C. Treleaven
- 3 https://www.who.int/health-topics/infodemic#tab=tab 1

Learning As	ssessment						
	Diagramia Lavral of		Continuous Learning (50% weig			University Ex	amination
Level	Bloom's Level of Thinking	CLA (25			A – 2 5%)	(50% weig	htage)
		Theory	Practice	Theory	Practice	Theory	Practice
1	Remember	40%		400/		40%	-
2	Understand	40%		40%	-	40%	
3	Apply	40%		40%		40%	-
4	Analyze	40%		40%	-	40 70	
5	Evaluate	20%		200/		20%	-
6	Create	20%		20%	-	20%	
	Total	100) %	910	0 %	100 %	6

Course Designers	TIEARN LEAD, LEAD	
Experts from Industry	Experts from Higher Technical Institutions	Internal Experts
Dr. Sugata Roy	Dr. Sunitha Kuppuswamy	Ms. Geetha Veliah

Course	PH23401P	Course Name	Dissertation	Course	D	Project/	Г	Т	Р	С
Code	PH23401P	Course Name	Dissertation	Category	F	Research/Internship	0	0	10	5

Pre-regu	uisite Courses	Nil	Co-requisite C	ourse	es		Nil		Prog	ressi	ve Co	ourse	s				Nil	1			
-	Offering Departme	ent	School of Public				Dat Codes	a Boo	ok /				-			Nil					
	Learning le (CLR):	The purpose of lea is to:	rning this course	L	earni	ng					Prog	ıram I	_earn	ing O	utcor	nes (PLO)				
CLR-1:	Identify a researc	h problem and condu	uct review of	1	2	3 1 2 3 4 5 6 7 8 9 10 11 12 13 14 1						15									
CLR-2:	Formulate the hyp	ootheses and finalize	the study desi <mark>gns</mark>	. (BS		L VOLU	1/													
CLR-3:	Familiar with vario	ous ethical issues in	public health	m)	(%	(%)										eo		nt			
CLR-4:	Execute the meth	ods of data collection	n in field	Bloo) C	nt (9	egpe			Bu			Б	_	Jing	eten		eme			
CLR-5:	Analyze data, inte	erpret the results and	write research	Thinking (Bloom)	oficien	Attainment (%)	Knowle	ing	ving	asoni	Skills		asonir	inking	Lear	Competence	oning	Engagement		Skills	earning
	Learning les (CLO):	At the end of this co	ourse, lea <mark>rne</mark> rs will	evel of Thir	Expected Proficiency (%)	Expected At	Disciplinary Knowledge	Critical Thinking	Problem Solving	Analytical Reasoning	Research Sk	Feamwork	Scientific Reasoning	Reflective Thinking	Self-Directed Learning	Multicultural	Ethical Reasoning	Community	ICT Skills	Leadership 5	Life Long Le
CLO-1:	Identify a researc	h problem and condu	uct review of	4	85	80	EAH.	HA		M	Н	Н	Н	Н	M	M	М	М	M	Н	Н
CLO-2:	Formulate the hyp	ootheses and finalize	the study designs	5	80	80	Н	Н	Н	М	Н	Н	Н	Н	Н	Н	М	Н	М	М	Н
CLO-3:	Familiar with vario	ous ethical issues in	public health	5	85	80	Н	Н	Н	Н	Н	Н	Н	Н	М	М	Н	Н	М	Н	М
CLO-4:	Execute the meth	ods of data collection	n in field	6	80	80	Н	Н	М	М	Н	Н	Н	Н	М	М	Н	Н	М	Н	Н
CLO-5:	Analyze data, inte	erpret the results and	write research	5	80	80	Н	Н	М	Н	Н	Н	Н	Н	Н	Н	Н	Н	М	Н	Н

Learning Assessment		
	Final Evaluation – Fully	/ Internal (100% weightage)
Dissertation	Dissertation Report	Viva-Voce
	50%	50%

Course Designers	CCIENCE	
Experts from Industry	Experts from Higher Technical Institutions	Internal Experts
	and a state of the	1. Dr Hari Singh
Dr Nirmala Murthy, FRHS	1. Dr. R. Thilagavathi, M.Sc, Ph.D, Scientist-C, NCDIR, Bangalore	2. Dr Alex Joseph
		3. Dr Kalpana B

Cours Code	PH/3411/P	Course Name	Int	erns	hip				Cours atego		Р	Project/ Research/ Interr				in	L 0	T 0	P 30	C 15	
Code								0	alego	ı y			Nesc	aicii	1/ 11110	7111311	ıρ	U	U	30	13
Pre-requ	isite Courses	Nil	Co-requisite C	ours	es	N	il	Pro	gress	ive C	ourse	es					Nil				
Course	Offering Departm	ent	School of Publi	с Неа	alth	(a Boo /Stan	k / dards							Nil					
	Learning le (CLR):	The purpose of lear is to:	ning this course	L	earniı	ng					Prog	ram l	_earning Outcomes (PLO)								
CLR-1:	and non-governmen	o get acquainted with the ntal organization working elopment of communitie	g for holistic	1	2	3	VC1	2	3	4	5	6	7 8 9 10 11				12	13	14	15	
CLR-2:	programs, intervent	o understand various polions and strategies ada sowering people for their	pted by the													е		t			
CLR-3:	Apply the principles management in field	of epidemiology and hed d settings	ealth service	(Bloom)	%) Ks	nt (%	dge			_D			ס		ing	tenc		Engagement			
CLR-4:	problems	s to assess community		ng (E	cienc	nmei	owle	D	D D	sonir	S		onino	ıking	Learning	эдшо	guir	gage		Skills	ning
CLR-5:	To explore to possil progression	bilities of placement and	l career	of Thinking	Prof	Attai	∑	Thinking	Solvir	Rea	Skill	_	Reas	Thir		ral C	easor				Lear
-		,		of T	ted	ted	lina	È	E	ica	ırch	Nor	ific	tive	irec	ultu	8	iuni	Skills	rsh	bug
	Learning es (CLO):	At the end of this co	urse, lea <mark>rner</mark> s will	Level	Expected Proficiency (%)	Expected Attainment (%)	Disciplinary Knowledge	Critical .	Problem Solving	Analytical Reasoning	Research Skills	Teamwork	Scientific Reasoning	Reflective Thinking	Self-Directed	Multicultural Competence	Ethical Reasoning	Community	ICT SI	Leadership	Life Long Learning
CLO-1:	Get acquainted with development of cor	n agencies working on h nmunities	ealthcare and	4	85	80	EAR	LFA	DH	М	Н	Н	Н	Н	М	М	М	М	М	Н	Н
CLO-2:	Demonstrate the ab	oility to assess the health	ncare needs of	5	80	80	Н	Н	Н	М	Н	Н	Н	Н	Н	Н	М	Н	М	М	Н
CLO-3:	Apply appropriate s healthcare of comm	trategies and approach nunities	to empower holistic	5	85	80	Н	Н	Н	Н	Н	Н	Н	Н	М	М	Н	Н	М	Н	М
CLO-4:		nalytical and problem-so nunities and problems	lving skills in	6	80	80	Н	Н	М	М	Н	Н	Н	Н	М	М	Н	Н	М	Н	Н
CLO-5:	Demonstrate the re placement in repute	quired professional comed organizations	petency in getting	5	80	80	Н	Н	М	Н	Н	Н	Н	Н	Н	Н	Н	Н	М	Н	Н

Internship Orientation

- 1. The internship will be for a period of five months from January to May during in the fourth semester.
- 2. The students are required to join the organization of their internship in first week of January, and submit a joining report via email to their mentor and to the office.
- 3. During the internship, the allotted mentor will be the internal supervisor for the students during their internship and the reporting authority of internship organization will be the external supervisor.
- 4. Every month students required to submit a monthly progress report by 5th of every month (1- 3 pages in pdf format) through email duly signed by the external supervisor to their respective mentors. These monthly reports will be reviewed and evaluated.
- 5. On completion of the internship period, the students will make a presentation of internship work, which will be held on the last 2 weeks of June and they will submit a final internship report.
- 6. The final presentation should include the following: About the organization: vision, mission, organizational structure manpower, various projects/ activities of the organization, sources of funds. About your role, the project you were involved project design, objectives, project team, interventions, your experience, results etc.
- 7. The students will submit a final internship report in the month of June (Refer below guidelines for the same) to the respective mentors and get their approval.
- 8. The presentation will be followed by a viva voce evaluated by internal and external examiners.

Format for Monthly Progress Report of Internship (To be submitted only in the first month report)

- About the Organization
- Name and address of the organization, and website link
 LEAP LEAD
- Who established the organization and when
- Vision and mission
- How large is the office? Spread out of the organization other offices and outreach
- Manpower: Categories of staff, and number of people in each category
- Organogram
- Source of funding it can vary in different projects
- Major projects of the organization

Format for reporting subsequent months

- Project in which the student is involved
- Explain the project source of funding, staffing and organogram, aim and objectives, strategy, activities, deliverables
- Student's role in the project
- Type of engagement field work or desk work or both? Explain briefly
- Describe the activities and the daily routine
- Supervisors, other colleagues and interns in the same project
- Any software used during the internship? Explain
- Any new learning? Explain
- Name MPH/ MSc modules/courses or topics that the students found helpful in their work during internship? Explain

Guidelines for the Internship Final Report

- Student will send preliminary report, one week before the final internship presentation as soft copy through mail in pdf format to the mentor for review.
- Final report as a hard copy to be submitted within a day after the final internship presentation with the mentor's signature to the office. The final report should be printed on ordinary computer paper and hard-bound, including all annexures following the specifications. The final draft should incorporate all suggestions of the internal and external examiners.

Learning Assessn	nent	13	LEARN	· LEAP · LEAD	13		
			us Learning As 50 <mark>% wei</mark> ghtage			Final Eva (50% weig	
Internship	Review 1	Review 2	Review 3	Review 4	Review 5	Internship Report	Viva-Voce
	10%	10%	10%	10%	10%	25%	25%

Course Designers		
Experts from Industry	Experts from Higher Technical Institutions	Internal Experts
Dr Nirmala Murthy, FRHS	1. Dr. R. Thilagavathi, M.Sc, Ph.D, Scientist-C, NCDIR, Bangalore	 Dr Hari Singh Dr Alex Joseph

Course Code	VACSPH07	Course Name	Interview Skills	and CV writing	Cour Categ		VAC	Value added course	1	T 0	P 0	C
Pre-requisite Co	ourses Nil		Co-requisite Courses	Nil			ogressive Courses	Nil				
Course Offering [Department	School of Pub	lic Health	Data Book / Codes/S	tandards	Nil						

Course L (CLR):	earning Rationale	The purpose of learning this course is to:	Le	earni	ng
CLR-1:	Understand interview	v and its types	1	2	3
CLR-2:	Understand how to p	prepare for interviews	(Bloom)	(%) k	ıt (%)
CLR-3:	Understand how to d	conduct during the interviews	Thinking (E	Expected Proficiency	Attainment
CLR-4:	Understand what ne	eds to be done post-inte <mark>rview</mark>	of Thin	ted Pro	
CLR-5:	Understand how to p	prepare a professional CV	Level	Expec	Expected
Course L (CLO):	earning Outcomes	At the end of this course, learners will be able to:	1	X	
CLO-1:	Understand interview	v and its types	3	85	80
CLO-2:	Understand how to p	prepare for interviews	3	85	80
CLO-3:	Understand how to d	conduct during the interviews	3	85	80
CLO-4:	Understand what ne	eds to be done post-interview	3	85	80
CLO-5:	Prepare a professio	nal CV and cover letter for job application	3	85	80

Program Learning Outcomes (PLO)														
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Disciplinary Knowledge	Critical Thinking	Problem Solving	Analytical Reasoning	Research Skills	Teamwork	Scientific Reasoning	Reflective Thinking	Self-Directed Learning	Multicultural Competence	Ethical Reasoning	Community Engagement	ICT Skills	Leadership Skills	Lifelong Learning
Н	L	-	-	М	Η	-	Н	М	1	Η	М	L	М	Н
Н	L	•	1	М	Η	-	Η	М	ı	Н	М	L	М	Н
Н	L	1	1	М	Η	-	Η	М	1	Η	М	L	М	Н
Н	L	1	1	М	Ι	-	Ι	М	1	Ι	М	L	М	Н
Н	L	-	-	М	Η	-	Н	М	-	Н	М	L	М	Н

_	uration	Interview and its types	Preparing for an interview	Conduct during an interview	After the interview	CV writing
,	(hour)	3	3	3	3	3
S-1	SLO	What is an interview?	Know yourself, your employer and industry	Preparation for in-person and virtual interviews (Telephonic and video interviews)	Sending a thank you note	Structure of a professional CV
S-2	SLO	One-to-one interviews and Group interviews	Practice communication skills and answering questions	Preparation for follow-up interviews	Follow up with the employer	Cover letter
S-3	SLO	Practicum:1-Public health job portals and job search	Practicum:1-Practice answering common interview questions	Practicum:2-In-person interview practicum	Responding to a job offer	Practicum:3-preparing a CV and cover letter Practicum:4-Linkedin profile

Learning Resources

2. The Resume Writing Guide: A Step-by-Step Workbook for Writing a Winning Resume, Wendy S. Enelow and Louise Kursmark, ISBN: 1570232568: 978-1570232565

<u> </u>		Z WAR		rnin <mark>g A</mark> ssessment /eig <mark>hta</mark> ge)	
Leve	Blooms Levels of Thinking		A-1 0%)	CLA- (50%	
		Theory	Practice	Theory	Practice
1	Remember	40%		40%	
2	Understand	40%	ARN · LEAD TEAD	40%	-
3	Apply	40%	THE LEAD	40%	
4	Analyze	40%	-	40%	-
5	Evaluate	20%		20%	
6	Create	20%	•••••••••••••••••••••••••••••••••••••••	20%	-
	Total	10	00%	100%	<u></u>

Course Designers		
Experts from Industry	Experts from Higher Technical Institutions	Internal Experts
Dr. Vijayaprasad Gopichandran	Dr. Sumathi Rajesh	Ms. Geetha Veliah Dr. Janmejaya Samal