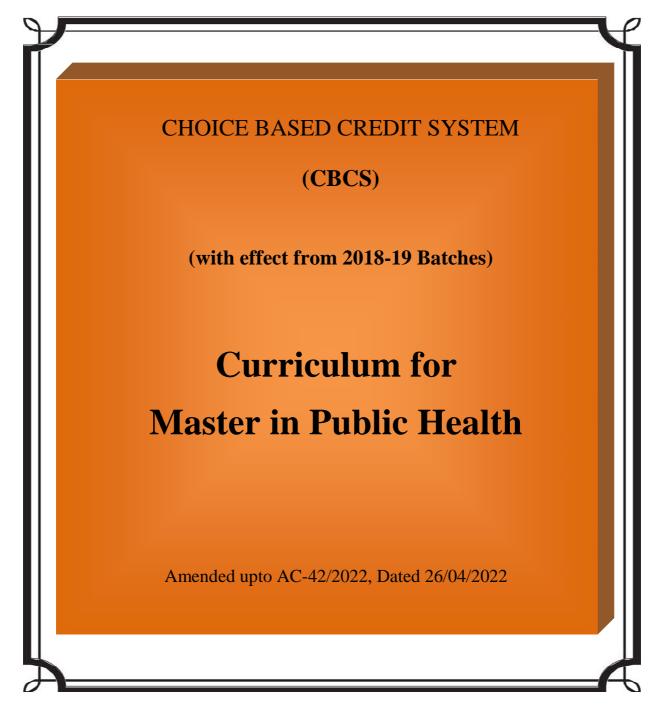


MGM INSTITUTE OF HEALTH SCIENCES

(Deemed to be University u/s 3 of UGC Act, 1956) Grade 'A' Accredited by NAAC Sector-01, Kamothe, Navi Mumbai -410 209 Tel 022-27432471, 022-27432994, Fax 022 -27431094 E-mail: registrar@mgmuhs.com; Website :www.mgmuhs.com



Amended History

- 1. Approved as per BOM -55/2018 [Resolution No.4.17], Dated 27/11/2018
- 2. As Amended in BOM-55/2018 [Resolution No.4.13)], [Resolution No.4.4.1.3], Dated 27/11/2018.
- 3. As amended in BOM-57/2019, [Resolution No.3.1.4.2], [Resolution No.3.2.1.6.a], [Resolution No.3.2.1.6.d]; Dated 26/04/2019.
- 4. As Amended in BOM-63/2021[Resolution No.4.3.1.2], [Resolution No.4.3.1.3.], Dated 17/02/2021.
- 5. As Amended in AC-41/2021 [Resolution No. 3.5]; Dated 27/08/2021
- 6. As Amended in AC-42/2022 [Resolution No. 10.4.i], Dated 26/04/2022.

			οι	JTLINE	DF COU	RSE CI	JRRICU	LUM						
	Master in Public Health (MPH)													
	Semester I													
			С	redits/Weel	s			Hı	s/Semester				Marks	
Code No.	Core Subjects	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation	Total Credits (C)	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation	Total hrs.	Internal Assessment	Semester Exam	Total
Theory														
MPH 101 L	Concept of Public Health & Basic Epidemiology	4	-	-	-	4	60	-	-	-	60	20	80	100
MPH 102 L	Introduction to Demography & Basic Biostatistics	4	-	-	-	4	60	-	-	-	60	20	80	100
MPH 103 L	Introduction to Health System, Policy and Programs	4	-	-	-	4	60	-	-	-	60	20	80	100
MPH 104 L	Introduction to Health Economics	4	-	-	-	4	60	-	-	-	60	20	80	100
MPH 105 L	Practice of Public Health (Basic)	-	-	-	24	8	-	-	-	360	360	50	-	50
	Total	16	0	0	24	24	240	0	0	360	600	130	320	450

			οι	JTLINE (OF COU	RSE C	URRI	CULUM						
				Master	in Publ	ic Hea	lth (N	IPH)						
					Seme	ster I	[
			C	redits/Wee	k			I	Irs/Semeste	r			Marks	
Code No.	Core Subjects	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation	Total Credits (C)	Lectur e (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation	Total hrs.	Internal Assessment	Semester Exam	Total
					Th	eory								
MPH 106 L	Health Management: Principles and Practices	4	-	-	-	4	60	-	-	-	60	20	80	100
MPH 107 L	Reproductive, Matemal Health, Child Health and Adolescent Health	3	-	-	-	3	45	-	-	-	45	20	80	100
MPH 108 L	Communicable and Non- Communicable Diseases & Nutrition	3	-	-	-	3	45	-	-	-	45	20	80	100
MPH 109 L	Practice of Public Health (Advanced) – Rural Outreach	-	-	-	24	8	-	-	-	360	360	50	-	50
CC 001 L	Research Methodology & Biostatistics (Core Course)	4	-	-	-	4	60	-	-	-	60	20	80	100
					Pra	ctical								
CC 001 P	Research Methodology & Biostatistics (Core Course)	-	-	4	-	2	-	-	60	-	60	10	40	50
	Total	14	0	4	24	24	210	0	60	360	630	140	360	500

			0	UTLINE	OF COL	JRSE C	URRIC	JLUM						
				Maste	r in Pub	lic Hea	alth (MH	PH)						
					Sem	ester Il	Ι							
			C	redits/Wee	k			1	Hrs/Semeste	er			Marks	
Code No.	Core Subjects	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation	Total Credits (C)	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation	Total hrs.	Internal Assessment	Semester Exam	Total
					T	heory								
MPH 110 L	Environment and Occupational Health and Public Health Laws	4	-	-	-	4	60	-	-	-	60	20	80	100
MPH 111 L	Introduction to Financial Management and Budgeting	3	-	-	-	3	45	-	-	-	45	20	80	100
MPH 112 L	Medical Sociology and Effective Communication in Health Care	3	-	-	-	3	45	-	-	-	45	20	80	100
MPH 113 L	Practice of Public Health (Advanced) – Urban Outreach	-	-	-	18	6	-	-	-	270	270	50	-	50
MPH 114	Internship/Dissertation / Project*	10	-	-		5	-	-	-	-	-	50	-	50
					Core Ele	ctive Co	urse							
CEC 001 L	Advanced Epidemiology & Biostatistics	3				3	45				45	100		100
CEC 002 L	Health Systems, Policy, Planning and Programme Management	,	-	-	-	3	40	-	-	-	45	100	-	100
	Total	23	0	0	18	28	255	0	0	270	525	280	240	600

			0	UTLINE	OF COL	JRSE C	URRIC	ULUM						
				Maste	r in Pub	lic Hea	alth (MI	PH)						
					Sem	ester F	V							
			C	redits/Wee	k]	Hrs/Semeste	er			Marks	
Code No.	Core Subjects	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation	Total Credits (C)	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation	Total hrs.	Internal Assessment	Semester Exam	Total
					Genera	l Electiv	es							
GE 001 L	Pursuit of Inner self Excetlence(POISE)													
GE 002 L	Bioethics, Biosafety, IPR and Technology Transfer	4	-	-	-	4	60	-	-	-	60	20	80	100
GE 003 L	Disaster Management and Mitigation Resources													
GE 004 L	Human Rights													
					Pra	octicals								
MPH 115	Dissertation / Project*	-	-	-	36	18	-	-	-	-	540	-	200	200
	Total	4	0	0	36	22	60	0	0	0	600	20	280	300

DIRECTOR'S MESSAGE

Dear Students,

Greetings!!!!!

I take this opportunity to welcome you on behalf of MGM family to the Masters Degree at MGM School of Biomedical Sciences (MGM SBS).

MGM School of Biomedical Sciences (MGM SBS) established in the year 2007, the MGM School of Biomedical Sciences envisaged building a progressive learning community and is committed to pursuit of excellence in higher education, total development of personality and shaping the students into sensitive, self-reliant citizens of the country imbued with the ideals of secularism and a scientific aptitude. We set global standards to make our students scientifically as well as ethically stronger. The college adopts the national qualification frame work for the post-graduate programs which has adopted Credit Base Choice System (CBCS) so that, we construct a value based system of education that encourages critical thinking and creativity, a research platform as opposed to rote learning.

The P.G (M.Sc.) courses offered are; Medical Anatomy, Medical Physiology, Medical Biochemistry, Medical Microbiology, Medical Pharmacology, Biotechnology, Genetics, Molecular Biology, Masters in Hospital administration and Biostatistics, M.Sc. Cardiac care technology, M.Sc. Medical Radiology and Imaging Technology, M. Optometry, MPH & M.Sc. Clinical Nutrition . Over time, the program has evolved, to meet the challenges of the ever changing field of biomedical education system.

With Best Wishes,

Director MGM School of Biomedical Sciences

ABOUT MGM SCHOOL OF BIOMEDICAL SCIENCES

Mission

To improve the quality of life, both at individual and community levels by imparting quality medical education to tomorrow's doctors and medical scientists and by advancing knowledge in all fields of health sciences though meaningful and ethical research.

Vision

By the year 2020, MGM Institute of Health Sciences aims to be top-ranking Centre of Excellence in Medical Education and Research. Students graduating from the Institute will have the required skills to deliver quality health care to all sections of the society with compassion and benevolence, without prejudice or discrimination, at an affordable cost. As a research Centre, it shall focus on finding better, safer and affordable ways of diagnosing, treating and preventing diseases. In doing so, it will maintain the highest ethical standards.

About – School of Biomedical Sciences

MGM School of Biomedical Sciences is formed under the aegis of MGMIHS with the vision of offering basic Allied Science and Medical courses for students who aspire to pursue their career in the Allied Health Sciences, teaching as well as research.

School of Biomedical Sciences is dedicated to the providing the highest quality education in basic medical sciences by offering a dynamic study environment with well-equipped labs. The school encompasses 21 courses each with its own distinct, specialized body of knowledge and skill. This includes 7 UG courses and 14 PG courses. The college at its growing years started with mere 100 students has recorded exponential growth and is now a full-fledged educational and research institution with the student strength reaching approximately 581 at present.

Our consistent theme throughout is to encourage students to become engaged, be active learners and to promote medical research so that ultimately they acquire knowledge, skills, and understanding so as to provide well qualified and trained professionals in Allied Health Sciences to improve the quality of life.

As there is increased need to deliver high quality, timely and easily accessible patient care system the collaborative efforts among physicians, nurses and allied health providers become ever more essential for an effective patient care. Thus the role of allied health professionals in ever-evolving medical system is very important in providing high-quality patient care.

Last but by no means least, School of Biomedical Sciences envisions to continuously grow and reform. Reformations are essential to any growing institution as it fulfills our bold aspirations of providing the best for the students, for us to serve long into the future and to get ourselves updated to changing and evolving trends in the health care systems

Name of the Degree: Master in Public Health (MPH)

Duration of Study:

The duration of the study for Master in Public Health (MPH) will be of 2 years.

Program pattern:

- First Semester: July
- Second Semester: January
- Third Semester: July
- Fourth Semester: January

Eligibility Criteria:

Graduates in Medicine / AYUSH / Dentistry / Veterinary Sciences / Allied Health Sciences / Life Sciences, Statistics / Biostatistics / Demography / Population Studies / Nutrition / Sociology / Psychology / Anthropology / Social Work from a recognized University, with minimum 50% marks in qualifying examination will be eligible for admission.

The candidates having demonstrated experience in healthcare related field will be given preference

Medium of Instruction:

English shall be the Medium of Instruction for all the Subjects of study and for examinations.

For any query visit the website: www.mgmsbsnm.edu.in

Programme Outcome:

The course will help candidate to develop skills in the following areas:

MGM Institute of Health Sciences

- 1. Analytical and assessment skills for collecting and interpreting information
- 2. Policy planning and development skills to address public health challenges

3. Communication skills for advocacy, dissemination and evaluation of public health data and information

4. Financial planning and management skills for running public health programs in the country

5. Leadership skills

Programme Specific Outcome:

- 1. Apply the course learning to the public health system and its challenges
- 2. Develop, implement and evaluate key public health policies
- 3. Develop and demonstrate competency in managing health systems at different levels
- 4. Develop competency in research

Curriculum for Master in Public Health (MPH)
--

MGM Institute of Health Sciences

Name of the Programme	Master in Public Health (MPH)
Name of the Course	Concept of Public Health & Basic Epidemiology
Course Code	MPH 101 L

FIRST YEAR

Master in Public Health (MPH)

SEMESTER-I

Code No.	Core Subjects
	Theory
MPH 101 L	Concept of Public Health & Basic Epidemiology
MPH 102 L	Introduction to Demography & Basic Biostatistics
MPH 103 L	Introduction to Health System, Policy and Programs
MPH 104 L	Introduction to Health Economics
MPH 105 L	Practice of Public Health (Basic)

Sr. No.	Topics	No. of Hrs.
	8/44	

	Total	60 hrs
	Outbreak investigation	
	Disease surveillance	
	 Screening tests - validity and reliability methods 	
	 Introduction to confounding and bias 	
	Randomized control trials	
	Cohort study design	
	Case control study design	
	Cross sectional study design	
	Measures of association	
	Causation and association	
1	Incidence and prevalence	60
	Measurements in Epidemiology	
	History of Epidemiology	
	Introduction to Human Biology	
	Public Health action	
	• Health equity	
	• Environment and Health	
	• Social determinants of Health	
	Causation & Prevention	
	• Public Health - What it is?	
	Concept of Public Health & Basic Epidemiology	

Name of the Programme	Master in Public Health (MPH)
Name of the Course	Introduction to Demography & Basic Biostatistics
Course Code	MPH 102 L

Sr. No.	Topics	No. of Hrs.
	Introduction to Demography & Basic Biostatistics	
	• Demography - What it is?	
	Demography Cycle	
	• Factors affecting population	
1	Measures of fertility and mortality	
	Standardisation methods	60
	Population growth and projection, Census	
	Demographic transition	
	• Implication of rapid population growth	
	Demographic dividend or disaster	
	Migration & Urbanization	

MGM Institute of Health Sciences

60 hrs

• Concept of Life table	
-------------------------	--

- Biostatistics Scope / Use
- Types of variables
- Scales of measurement
- Measures of central tendency
- Measures of dispersion
- Types of distribution
- Bayes theorem
- Sampling and population distribution
- Central limit theorem
- Type1 and type 2 error and power calculation
- P value and 95% confidence Interval
- Parametric and non-Parametric tests
- How to choose the statistical test
- Correlation
- Basics of regression
- Introduction to SPSS

Total

Name of the Programme	Master in Public Health (MPH)
Name of the Course	Introduction to Health System, Policy and Programs
Course Code	MPH 103 L

Sr. No.	Topics	No. of Hrs.
1	 Introduction to Health Systems, Policy & Programme Structure, components and characteristics of global health care system Health infrastructure and health delivery system in India Health care system and Health services Introduction to health policy and health sector reforms Basic theoretical approaches and concepts used in policy analysis Understanding national health policies, including current trends Contextual factors that influence to policy change Changing global health policy environment Public health legislation 	60

•	Process, outcome and impact evaluation of Programme National Health Programmes in India (including goals, objectives, purposes, organization, man power, sources, activities, roles and responsibilities) Total	60 Hrs
•	Concepts underlying the design of health programs Basic approaches to the design, analysis and interpretation of health programs Framework to evaluate the effectiveness of health Programme implementation	

Name of the Programme	Master in Public Health (MPH)
Name of the Course	Introduction to Health Economics
Course Code	MPH 104 L

Sr. No.	Topics	No. of Hrs.
1	 Introduction to Health Economics Basic concepts in health economics Micro and Macro economics Determinants of demand, supply and costs of production Concepts of efficiency, effectiveness, equity, elasticity of demand, costing, production, marginal cost analysis, and opportunity cost Market model, market failure, and the roles and limitations of markets in health care Measuring health outcomes Universal health coverage and role of health care financing Principles and application of economic evaluation in health care including Cost Benefit Analysis (CBA) and Cost-Effective Analysis (CEA) Health Insurance Health sector reforms 	60
	Total	60 Hrs

Curriculum for Master in Public Healt	th (MPH) MGM Institute of Health Sciences
Name of the Programme	Master in Public Health (MPH)
Name of the Course	Practice of Public Health (Basic)
Course Code	MPH 105 L

Sr. No.	Topics	No. of Hrs.
	UNDER the Supervision of Community Medicine Faculty	
1	Clinical Posting in Department of Community Medicine	360
-	Clinical Posting at Rural Health Centre	
	Clinical Posting at Urban Health Centre	
	Total	360 Hrs

Curriculum for	Master in	Public Health	(MPH)
Curriculum for	iviaster in	i ubiic ricaltii	(1011-11)

MGM Institute of Health Sciences

Name of the Programme

Master in Public Health (MPH)

FIRST YEAR

Master in Public Health (MPH)

Code No.	Core Subjects
	Theory
MPH 106 L	Health Management: Principles and Practices
MPH 107 L	Reproductive, Maternal Health, Child Health and Adolescent Health
MPH 108 L	Communicable and Non-Communicable Diseases & Nutrition
MPH 109 L	Practice of Public Health (Advanced) - Rural Outreach
CC 001 L	Research Methodology & Biostatistics (Core Course)
	Practical
CC 001 P	Research Methodology & Biostatistics (Core Course)

SEMESTER-II

Name	of the Programme	Master in Public Health (MPH)	
Name	of the Course	Health Management: Principles and Practices	
Spurse	e Code	MPH 106 L Topics	No. of
No.		*	Hrs.
	Health managemen	t: Principles & Practices	
	 Basic knowle 	edge of health care systems and the environment	
	• in which heal	th care managers and providers function	
	Health Progra	ammes: planning, implementation, Monitoring	
	and Evaluation	on	
	• Components	of strategic management	
	 Behavioral as 	spects of governmental, faith based and other	
	• NGOs		
	• Introduction	to logistics and HR management	
	Quality: Impe	ortance in public health, measures to manage & improve	
	• Introduction	to Operational Research	
	Risk manager	ment	
	• Effective man	nagement of Health Management Information Systems (HMIS)	
	and its applic		
	• Public Health	n Leadership	
1	• Concept of O	rganizational management	60
	• Components	of organization: Purpose, Coordination, Division of labor and	
	Hierarchy		
	 Project mana 	gement lifecycle	
	 Setting comm 	non goals and objectives	
	• Analytical th	inking	
	Priority setting	ng and resource allocation	
	• Why organiz	ations fail? learning from case stories	
	 Effective con 	nmunication in public health	
	 Public speaki 	ing	
	Effective Con	mmunication: Verbal versus Non - verbal communication	
	Various form	s of written communication	
	Evidence bas	ed advocacy	
	 Consensus but 	uilding	
	• Using audio-	visual aid in communication	
	• Etiquettes and	d professionalism	
		Total	60 Hr

MGM Institute of Health Sciences

Name of the CourseReproductive, Maternal Health, Child Health and Adolescent HealthCourse CodeMPH 107 L

Sr. No.	Topics	No. of Hrs.
	Reproductive, Maternal Health, Child Health and Adolescent Health	
	• Fundamentals of reproductive biology	
	Adolescent Sexual and Reproductive Health	
	Understanding Reproductive Health Policy	
	• Family Welfare and Reproductive Health measures	
	Reproductive Health programs in India	
	 Introduction to maternal, new-born and child health programs and their behavioural basis 	
	 Historical developments in MCH in India Introduction to the RMNCH+A services – historical context, evolution, 	
	coverage and innovations	
	 Various components of service delivery under RMNCH+A (including GoI programs) 	
	• Maternal, New-born and Child Health (MNCH) services in the country	
	Adolescent health	
	• Role of gender in public health programs	
	• Evolution of RCH services in the country – Millennium Development Goals (MDGs) and Sustainable Development Goals (SDGs)	
	• Innovations in service delivery	
1	• Framework for evaluation of services	45
	Reproductive & Perinatal Epidemiology	
	Prenatal and Infant Growth and Development	
	• Issues in the Reduction of Maternal and Neonatal Mortality	
	Preventing peri-natal and infant mortality	
	Infectious Disease and Child Survival	
	Nutrition and Growth in Maternal and Child Health	
	Legislations and programs in MCH	
	• Overview of population health approaches for adolescents	
	Adolescent Health and Development	
	• The Social Context of Adolescent Health and Development	
	International Adolescent Health	
	Adolescent Health status in India	
	 Adolescent Health Development - policy and systems 	
	• Health issues specific to adolescents: anaemia, teenage pregnancy, menstrual hygiene, obesity, mental health promotion and illness prevention, substance	
	use prevention, violence, media etc.	
	• Define concepts - Gender, vulnerable populations, gender equality and equity	
	and emerging issues	
	• Understand the difference between equity and equality	

Curriculu	m for Master in Public Health (MPH)	MGM Institute of Health Science	S
•	Understand different forms of social exclusion Explain the difference between sex and gend combined with other forms of social exclusion To increase understanding of the importance and reduce barriers and address the needs of groups, and promote their agency in the content related information To increase understanding of the inter- section other types of social exclusion/inclusion and accessing and utilizing health services and the utilization of services To increase understanding of the realities of root perspective To identify good practices in Gender and So To become familiar with toolkits for including programs, policies and advocacy	der and how these variables, on impacts on health e, benefits and urgency to identify 'women and socially excluded text of accessing health care and onalism between gender and patients' experiences in he impacts on uptake and discrimination from the grass ocial Inclusion (GSI) within India	
Total		44	5 hr

Name of the Programme Name of the Course		Master in Public Health (MPH)	
		Communicable and Non-Communicable Diseases & Nutrition	
Cour	rse Code	MPH 108 L	
Sr. No.		Topics	No. of Hrs.
1	 Communicabl Recognize the population Examine factor Understand re Key concepts transmission, attack rates Analyze the tr control measu Apply basic in emerging and Surveillance: 0 	Non-Communicable Diseases & Nutrition e disease epidemiology: burden of communicable diseases (CD) affecting the rs contributing to the persistence of infectious diseases asons for emergence and re-emergence of infectious diseases - Incubation periods, Epidemic patterns, Modes of Transmission dynamics. Measures of infectiousness Secondary ansmission dynamics of diseases and design appropriate res fectious diseases epidemiological skills to address major re-emerging communicable diseases Case in point: Integrated Disease Surveillance Program (IDSP) of common communicable diseases like TB, Malaria, Leprosy,	45
	Polio, STIs, A	IDS, Meningococcal meningitis, Hepatitis B, and Measles models of infection dynamics, outbreak investigation and	

surveillance, schedules, adverse reactions, contraindications, vaccine efficacy, impact assessment) Live outbreak investigation Adverse Event Following Immunization (AEFI) investigation Non-communicable diseases (NCD) epidemiology: Describe and understand the epidemiology of NCDs - Cardiovascular diseases, Hypertension, Diabetes mellitus, Cancers, Mental health, Stroke, Burns/trauma/ accidents etc. Comprehend the upstream and downstream determinants of NCDs Understand the Individual approaches/or high-risk approaches and population based/ or public health approaches to prevent NCDs Recognize the risk factor approach to prevent non-communicable diseases Comprehend the Population based/public health approaches to prevention of common NCD risk factors (physical inactivity, tobacco and unhealthy diet) Familiarize with the current projects on targeting the prevention of NCDs, including, innovations in prevention How prevention of NCDs interlinks with Communicable diseases. How women and child health, health of the girl child links to prevention of NCDs Recognize Economic burden of NCDs and benefits of prevention Comprehend how sustainable development and prevention of NCDs go hand in hand Comprehend the power of policy and role of environment in the prevention • of NCDs • Population-based screening Surveillance of cancers including cancer registry • Public Health Nutrition: Appreciate the basic concepts and principles of • foods and nutrition relevant to human health Summarize population based dietary and nutritional recommendations • Define the concept, purpose and scope of Public Health Nutrition Understand the definition, utility and applications of epidemiology in nutritional sciences Recognize the role of community nutrition in improving human health • Utilize suitable data and assessment methodologies to conduct community needs assessment Recognize the pillars of a healthy community Identify the most relevant nutrition concerns in the community at present and enlist strategies for their prevention and management (Adolescent, Women, Maternal and child under nutrition, nutrition transition, over-nutrition and chronic diseases) Demonstrate an understanding of principles of nutrition education and enlist the steps of developing nutrition education programs Demonstrate an understanding of project planning and management in nutrition programmes • Appreciate inter-sectoral nature of nutrition and food policy 17/44

Curriculum for Master in Public Health (MPH)	MGM Institute of Health Sciences
• Enlist the features of various ongoing nut	rition programs

Under/over nutrition

• Total

45 hrs		45	hrs
--------	--	----	-----

Name of the Programme	Master in Public Health (MPH)
Name of the Course	Practice of Public Health (Advanced) – Rural Outreach
Course Code	MPH 109 L

Sr. No.	Topics	No. of Hrs.	
1	UNDER the Supervision of Community Medicine Faculty	260	
1	Clinical Posting at Rural Health Centre	360	
	Total	360 hrs	

Name of the Programme	Master in Public Health (MPH)
Name of the Course	Research Methodology & Biostatistics
Course Code	(Core Course) CC 001 L

Teaching Objective	The course is intended to give an overview of research and statistical models commonly used in medical and bio-medical sciences. The goal is to impart an intuitive understanding and working knowledge of research designs and statistical analysis. The strategy would be to simplify, analyse the treatment of statistical inference and to focus primarily on how to specify and interpret the outcome of research.
Learning Outcomes	Student will be able to understand develop statistical models, research designs with the understating of background theory of various commonly used statistical techniques as well as analysis interpretation & reporting of results and use of statistical software.

Sr. No.	Topics	No. of Hrs.
Α	Research Methodology:	
1	Scientific Methods of Research: Definition of Research, Assumptions, Operations and Aims of Scientific Research. Research Process, Significance and Criteria of Good Research, Research Methods versus Methodology, Different Steps in Writing Report, Technique of Interpretation, Precaution in interpretation, Significance of Report Writing, Layout of the Research Report	5
2	Research Designs: Observational Studies: Descriptive, explanatory, and exploratory, Experimental Studies: Pre-test design, post-test design, Follow-up or longitudinal design, Cohort Studies, Case Control Studies, Cross sectional studies, Intervention studies, Panel Studies.	5
3	Sampling Designs: Census and Sample Survey, Implications of a Sample Design, Steps in Sampling Design Criteria of Selecting a Sampling Procedure, Characteristics of a Good Sample Design, Different Types of Sample Designs (Probability sampling and non probability sampling), How to Select a Random Sample?, Systematic sampling, Stratified sampling, Cluster sampling, Area sampling, Multi-stage sampling, Sampling with probability proportional to size, Sequential sampling.	5
4	Measurement in research: Measurement Scales, Sources of Error in Measurement, Tests of Sound Measurement, Technique of Developing Measurement Tools, Scaling Meaning of Scaling, Scale Classification Bases, Important Scaling Techniques, Scale Construction Techniques, Possible sources of error in measurement, Tests of sound measurement	5
5	Methods of Data Collection: Types of data, Collection of Primary Data, Observation Method, Interview Method, Collection of Primary Data	5
6	Sampling Fundamentals : Need and importance for Sampling, Central Limit Theorem, Sampling Theory, Concept of Standard Error, Estimation, Estimating the Population Mean Estimating Population Proportion, Sample Size and its Determination, Determination of Sample Size through the Approach Based on Precision Rate and Confidence Level.	5
В	Biostatistics	
7	Data Presentation: Types of numerical data: Nominal, Ordinal, Ranked, Discrete and continuous. Tables: Frequency distributions, Relative frequency, Graph: Bar charts,	3
	19/44	

	Total	60 hrs
15	 Computer Application Use of Computer in data analysis and research, Use of Software and Statistical package. Introduction to SPSS. Importing data from excel, access, tab and comma separated files. Entering data, labelling a variable, coding and recoding a categorical and continuous variable. Converting data from string to numeric variables, sorting & filtering, merging, appending data sets. Frequencies, descriptive statistics, cross tabulations. Diagrammatic presentation include histogram, bar chart, pie chart, scatter diagram, box plot, line chart. Parametric test of Hypothesis-one sample, Independent and paired sample t test, one way ANOVA& post HOC test. Testing for normality, Chi-square test with measures of association. Pearson correlation. Non parametric test. 	3
14	Vital Health Statistics: Measurement of Population: rate, crude rate, specific rate, Measurement of fertility: specific fertility rate, Total fertility rate, Reproduction rate, Gross Reproduction Rate, Net Reproduction Rate, Measures related to mortality: Crude Death Rate (CDR), Age-specific death Rate, Infant and child mortality rate, Measures related to morbidity.	4
13	Nonparametric or Distribution-free Tests: Important Nonparametric or Distribution-free Test Sign test, Wilcoxon signed-Rank Test, Wilcoxon Rank Sum Test: Mann-Whitney U test KruskalWalli's test, Friedman's test, and Spearman Correlation test.	3
12	Analysis of Variance and Covariance: Analysis of Variance (ANOVA):Concept and technique of ANOVA, One-way ANOVA, Two-way ANOVA, ANOVA in Latin-Square Design Analysis of Co-variance (ANOCOVA), ANOCOVA Technique.	4
11	Analysis	2
10	 Chi-square test, Steps Involved in Applying Chi-square Test, Alternative Formula, Yates' Correction, and Coefficient by Contingency. Measures of Relationship: Need and meaning, Correlation and Simple Regression 	2
10	Population Variance, Testing the Equality of Variances of Two Normal Populations. Chi-square Test: Chi-square as a Non-parametric Test, Conditions for the Application Chi-square test. Stong Involved in Applying Chi-square Test. Alternative Formula	2
9	Differences between Means, Hypothesis Testing for Comparing Two Related Samples, Hypothesis Testing of Proportions, Hypothesis Testing for Difference between Proportions, Hypothesis Testing for Comparing a Variance to Some Hypothesized	6
0	Testing of Hypotheses: Definition, Basic Concepts, Procedure for Hypothesis Testing, Measuring the Power of a Hypothesis Test, Normal distribution, data transformation Important Parametric Tests, Hypothesis Testing of Means, Hypothesis Testing for	
8	Measures of Central Tendency and Dispersion: Mean, Median, Mode Range, Inter quartile range, variance and Standard Deviation, Coefficient of variation, grouped mean and grouped standard deviation (including merits and demerits).	3
	Histograms, Frequency polygons, one way scatter plots, Box plots, two way scatter plots, line graphs	

MGM Institute of Health Sciences

Sr. No.	Topics	No. of Hrs
Α	Research Methodology	
1	Sampling Designs	4
2	Measurement in research	5
3	Methods of Data Collection	3
4	Sampling Fundamentals	3
В	Biostatistics	
5	Data Presentation	4
6	Measures of Central Tendency and Dispersion	4
7	Testing of Hypotheses	12
8	Chi-square Test	2
9	Measures of Relationship	3
10	Analysis of Variance and Covariance	4
11	Nonparametric or Distribution-free Tests	4
12	Vital Health Statistics: Measurement of Population	6
13	Computer Application Using Statistical Software	6
	Total	60 hrs

CC 001 P – Research Methodology & Biostatistics

MGM Institute of Health Sciences

SECOND YEAR

Master in Public Health (MPH)

Code No.	Core Subjects Theory	
MPH 110 L	Environment and Occupational Health and Public Health Laws	
MPH 111 L	Introduction to Financial Management and Budgeting	
MPH 112 L	Medical Sociology & Effective Communication in Health Care	
MPH 113	Practice of Public Health (Advanced) – Urban Outreach	
MPH 114	Internship/Dissertation /Project*	
Core Elective courses		
CEC 001 L	Advanced Epidemiology & Biostatistics	
CEC 002 L	Health Systems, Policy, Planning and Programme Management	

SEMESTER-III

Name of the Programme	Master in Public Health (MPH)
Name of the Programme	Master in Public Health (MPH)
Name of the Frogramme	Waster in Lubic Health (WH H)
Name of the Course	Environment and Occupational Health and Public Health Laws
Course Code	MPH 110 L

Sr. No.	Topics	No. of Hrs.
	Environment and Occupational Health & Public Health Laws	
	• Theories and history of environmental health	
	• Environmental health policy and legal mechanisms in a national and international context	
	• Ecosystems in various settings (linking the built environment, transport, housing and green space to human health)	
	• Environmental pollution, waste disposal and treatment	
	• Lifestyle and dietary effects on health, food safety and sanitation	
	• Occupational Health: Hazards at workplace and work safety; Prevention of	
	occupational hazards; Laws related to occupational health; Various government and other schemes for working population in India	
	Climate Change & Health	
1	Biomedical Waste Management	60
	Management of environmental hazards, natural disasters	
	Central Pollution Control Board (CPCB) guidelines	
	• Environmental health impact assessment	
	Public Health laws	
	Human rights in public health	
	• Role of governments in managing health of people	
	Public health regulations in Indian context	
	Regulations during emergencies and outbreaks	
	• Addressing newer challenges: Bioterrorism, conflicts and emerging infectious	
	diseases	
	Public Health laws in global economy	
	Global health hazards and security	
	Total	60 Hrs

MGM Institute of Health Sciences

Name of the Programme

Master in Public Health (MPH)

Name of the Course		the Course Introduction to Financial Management and Budge	d Budgetingo. of
28urs	e Code	MPH 111 L	Hrs.
	Introduction to Fina	ncial Management and Budgeting	
	• Introduction t	o financial management	
	• Tools of finan	cial analysis and planning in health care	
1	• Cash flow, ac	counts and balancing budgets	45
	 Cost and divid 	lends for health outcomes	
	 Effectiveness 	and efficiency	
	Sustainability	of Health Programs	
		Total	45Hrs

Name of the Programme	Master in Public Health (MPH)
Name of the Course	Medical Sociology & Effective Communication in Health Care
Course Code	MPH 112 L

Sr. No.	Topics	No. of Hrs.
	Research Methodology & Ethics in Public Health	
	• Ethics in Public Health	
	• Ethics in Research	
	Planning Research	
	Objectives of Research	
1	Research design	45
1	Tools and Measurements in research	45
	• Sample size and sampling	
	• Understanding and analysis of: Qualitative data and research,	
	• Quantitative data and research, Mixed methods	
	• Public health surveillance and research	
	Documentation of Research	
	Total	45Hrs

MGM Institute of Health Sciences

Name of the Course	Practice of Public Health (Advanced) – Urban Outreach
Course Code	MPH 113 L

Sr. No.	Topics	No. of Hrs.
1	UNDER the Supervision of Community Medicine Faculty	270
	Clinical Posting at Urban Health Centre	
	Total	270 hrs

Name of the Programme	Master in Public Health (MPH)
Name of the Course	Internship/Dissertation / Project*
Course Code	MPH 114

Internship/Dissertation / Project*:

Two months' internship/Dissertation/Project will be undertaken by all the candidates with an aim to integrate learning and practice in an active public health organization. This can be undertaken at governmental or non-governmental public health organizations or program management units. That includes the candidate's role and support in assessing, monitoring, or conducting surveillance of health problems/services in a population; research on population-based health problems; developing and/or implementing policies and intervention strategies to meet public health needs. Overall it should contribute to the organization and should help in understanding public health management and coordination and gaining personal confidence and leadership experience. After the completion of 2 months of **Internship/Dissertation / Project***, candidates will be expected to submit a brief summary of public health program/challenge dealt with and solution proposed/implemented by the candidate.

Candidates should submit their research project plan and preliminary time scale with their chosen topic for short term study at the end of this activity to their mentor to seek appropriate approvals before embarking on the full investigation and project.

MGM Institute of Health Sciences

CORE ELECTIVE COURSES

Name of the Programme	Master in Public Health (MPH)
Ne of the Course	Advanced Epidemiology & Biostatistics
Course Code	CEC 001 L

Sr. No.	Topics	No. of Hrs.
	Advanced Epidemiology & Biostatistics	
	Outline of advanced Biostatistics	
	Principles of regression	
	Methods of regression	
	Linear regression	
	Logistic regression	
	Poisson regression	
	Cox proportional hazards regression	
	Regression diagnostics	
	Introduction to multilevel modelling	
	Introduction to data imputation	
	Choosing the best models	
	Outline of Advanced Epidemiology:	
	• Directed acyclic graphs and conceptual framework	
	 Confounding bias and methods to reduce confounding 	
	Selection bias	
	Information bias	45
	Measures of validity and reliability	
	• Nested study designs	
	Advanced designs in clinical trials	
	• Systematic reviews and meta-analysis overview	
	Epidemiology and management of Vector Borne Diseases	
	Health measures following disasters	
	• Various public data sources: CRS, SRS, Census, NFHS, DLHS, HMIS,	
	MCTS, etc.	
	• Survey design and methods:	
	• Pre survey formative research	
	• Sampling and sample size calculations	
	• Ethical issues in surveys	
	Tool development	
	• Conduct of surveys	
	• Quality control and assurance in surveys	
	Survey data analysis	

MGM Institute of Health Sciences

- Identify appropriate research designs for a range of questions in health
 - Describe the steps involved in planning and conducting a research project
- Evaluate the strengths and weaknesses of various data collection methods
 - Total

45hrs

Name of the Programme	Master in Public Health (MPH)
Name of the Course	Health Systems, Policy, Planning and Programme Management
Course Code	CEC 002 L

Sr. No.	Topics	No. of Hrs.
	 Health Systems, Policy, Planning and Programme Management Policy framework Stake holders in policy making Translating research in policy making Effects of national and international affairs on health policy Introduction to different national population, disease control, tobacco control, nutrition, maternal and child health policies Short term versus long term policies Design and evaluation of public health programs Concepts underlying the design of health programs; Concepts of Governance and Institutions Critical appraisal of issues in health policy and financing Theory explaining public health action, its evolution and application in health policy Methods of assessing the health impact of different types of policy; national and global perspective Assessing health impacts of different policies across sectors Impact of health threats and interventions to counter health threats including crisis management Role of Non-governmental Organizations (NGOs) in health care Inter-sectoral coordination in health including Public Private Partnership Advocacy and planning in health care Strategy: various definitions Major concepts and frameworks in strategic management: SWOT, experience curve, portfolio theory, value chain Strategic planning: Environmental, scenario, implementation and evaluation 	
	 Innovations in public health Health informatics, e-Health Telemedicine, m-Health 	

	Total	45Hrs
•	Stage 7: Implementation and evaluation of the recommendation	
•	Stage 6: Results discussion and conclusion	
•	Stage 5: Identification of a suitable alternative	
•	Stage 4: Model validation and application to the problem	
•	Stage 3: Create a mathematical model of the problem	
•	Stage 2: Observe the system	
•	Stage 1: Formulate/define organizational problem	
•	Field interventions and field trials	
	Public Health Interventions	
•	Safety, Acceptability, Feasibility and Effectiveness (SAFE) in designing	
•	History of operation research and seven stages of OR	
•	Peer review of individual business model	
•	Business modelling: preparing your own business model	

MGM Institute of Health Sciences

SECOND YEAR

Master in Public Health (MPH) SEMESTER-IV

Code No.	Core Subjects
	Theory
GE 001 L	Pursuit of Inner Self Excellence (POISE)
GE 002 L	Bioethics, Biosafety, IPR & Technology transfer
GE 003 L	Disaster Management and Mitigation Resources
GE 004 L	Human Rights
	Practical
MPH 115	Dissertation/Project*

*(a) Dissertation / Project Course commences in III Semester

(Elective): Any one subject is to be chosen from the following (Subjects offered may change from time to time depending on the availability of expertise) **Elective courses may or may not have practical and/or field work

 GE MAL Institute of Health Sciences PURSUIT OF INNER SELF EXCELLENCE (POISE) To inculcate moral values in students – Self-Discipline, Time Management, Develop attitude of Service with humility, Empathy, Compassion, brotherhood, Respect for teachers, colleagues & socier members. Develop Effective means of communication & presentation skills in students To develop wisdom in students for deciding their career based on their areas of interest and inner skills. Introduce techniques for Relaxation, Meditation & Connecting with inner self. Rejuvenation Techniques which can be used by students to distress themselves To improve performance of students during various assignments, projects, elocutions, events, quiz, interviews. Students will become self-dependent, more decisive and develop intuitive ability for their study and career related matter. Students ability to present their ideas will be developed. Enhanced communication skills, public speaking & improved Presentation ability. Students will be able to explore their inner potential and inner abilit
 To inculcate moral values in students – Self-Discipline, Time Management, Develop attitude of Service with humility, Empathy, Compassion, brotherhood, Respect for teachers, colleagues & socier members. Develop Effective means of communication & presentation skills in students To develop wisdom in students for deciding their career based on their areas of interest and inner skills. Introduce techniques for Relaxation, Meditation & Connecting with inner self. Rejuvenation Techniques which can be used by students to distress themselves To improve performance of students during various assignments, projects, elocutions, events, quiz, interviews. Students will become self-dependent, more decisive and develop intuitive ability for their study and career related matter. Students ability to present their ideas will be developed. Enhanced communication skills, public speaking & improved Presentation ability.
 Management, Develop attitude of Service with humility, Empathy, Compassion, brotherhood, Respect for teachers, colleagues & socier members. Develop Effective means of communication & presentation skills in students To develop wisdom in students for deciding their career based on their areas of interest and inner skills. Introduce techniques for Relaxation, Meditation & Connecting with inner self. Rejuvenation Techniques which can be used by students to distress themselves To improve performance of students during various assignments, projects, elocutions, events, quiz, interviews. Students will become self-dependent, more decisive and develop intuitive ability for their study and career related matter. Students ability to present their ideas will be developed. Enhanced communication skills, public speaking & improved Presentation ability.
 intuitive ability for their study and career related matter. Students ability to present their ideas will be developed. Enhanced communication skills, public speaking & improved Presentation ability.
 to become a successful researcher or technician & hence become more focused. 5. Students will observe significant reduction in stress level. 6. With the development of personal attributes like Empathy, Compassion, Service, Love &brotherhood, students will serve the society and industry in better way with teamwork and thus grow professionally.
No. of Hrs.

	Total	60hrs
4	Experiencing through the heart for self-transformation (Heartfulness Meditation): Who am I? Introduction to Relaxation; Why, what and how HFN Meditation?; Journal writing for Self-Observation ; Why, what and how HFN Rejuvenation (Cleaning)? ; Why, what and how HFN connect to Self (Prayer)?; Pursuit of inner self excellence ; Collective Consciousness-concept of <i>egregore</i> <i>effect;</i>	
3	Integrating spiritual values and life: Relevance of VBSE (Value Based Spiritual Education) in contemporary life; Significant spiritual values; Spiritual destiny; Principles of Self-management; Designing destiny	15
2	Ways and Means: Correlation between the values and the subjects; Different teaching techniques to impart value education; Introduction to Brighter Minds initiative; Principles of Communication; Inspiration from the lives of Masters for spiritual values - Role of the living Master	15
1	Spiritual Values for human excellence: The value of human integration; Compassion, universal love and brotherhood (Universal Prayer); Heart based living; Silence and its values, Peace and non-violence in thought, word and deed; Ancient treasure of values - Shatsampatti, Patanjali'sAshtanga Yoga, Vedic education - The role of the Acharya, values drawn from various cultures and religious practices - Ubuntu, Buddhism, etc.; Why spirituality? Concept – significance; Thought culture	15

Curriculum for Master	in Public Health (MPH) MGM Institute of Health Sciences
Name of the Programme	Master in Public Health (MPH)
Course Code	GE 002 L
Name of the Course	BIOETHICS, BIOSAFETY, IPR & TECHNOLOGY TRANSFER
Course objective	 The students will gain structural knowledge on: To list the routes of exposure for a pathogen to a human being. To demonstrate and assess the proper use of PPE, best practices, biological containment, and be prepared to safely conduct research To identify the role of the Biosafety Professional in Biomedical Research Laboratories To appreciate the importance of assertion in interpersonal communication and be introduced to some key assertion strategies To understand the interpersonal nature of giving feedback, receiving criticism and resolving conflicts. To establish attentive listening as an assertion strategy
Course outcomes	 Students will learn to: Effectively manage the health and safety aspects of a biological laboratory. Give reliable, professional and informed advice and information to colleagues and managers. Help to ensure that their institution complies with relevant legislation, liaise effectively with enforcing authorities and be aware of the penalties for failing to comply. Build a context of understanding through communication. Mediate between other conflicting parties. Exhibit de-escalatory behaviors in situations of conflict. Demonstrate acknowledgment and validation of the feelings, opinions, and contributions of others.

Unit no.	Topics	No of Hrs
1	Ethics : Benefits of Allied Health Sciences, ELSI of Bioscience, recombinant therapeutic products for human health care, genetic modifications and food consumption, release of genetically engineered organisms, applications of human genetic rDNA research, human embryonic stem cell research.	15
2	Patenting: Patent and Trademark, Bioscience products and processes, Intellectual property rights, Plant breeder's rights, trademarks, industrial designs, copyright biotechnology in developing countries. Biosafety and its implementation, Quality <i>control in</i> Biotechnology.	15
	Introduction to quality assurance, accreditation & SOP writing: Concept of ISO standards and certification, National regulatory body for accreditation, Quality parameters, GMP & GLP, Standard operating procedures, Application of QA in field of genetics, Data management of clinical and testing laboratory.	15
3	Funding Agencies (Financing alternatives, VC funding, funding for Bioscience in India, Exstrategy, licensing strategies, valuation), support mechanisms for entrepreneurship (Bio-entrepreneurship efforts in India, difficulties in India experienced, organizations supporting growth, areas of scope, funding agencies in India, policy initiatives), Role of knowledge centers and R&D (knowledge centers like universities and research institutions, role of technology and up gradation)	15
	Total	60hrs

Curriculum for Master in Pu	blic Health (MPH) MGM Institute of Health Sciences
Name of the Programme	Master in Public Health (MPH)
Course Code	GE 003 L
Name of the Course	DISASTER MANAGEMENT AND MITIGATION RESOURCES

	 The course will uplift about: 1. Understand and appreciate the specific contributions of the Red Cross/Red Crescent movement to the practice and conceptual understanding of disaster management and humanitarian response and their significance in the current context. 2. Recognize issues, debates and challenges arising from the
Course objective	 Respond to disaster risk reduction and humanitarian response policy and practice from multiple perspectives. Respond to disaster risk reduction initiatives and disasters in an effective, humane and sustainable manner.
	 At the successful completion of course, the student will gain: 1. knowledge and understanding of the disaster phenomenon, its different contextual aspects, impacts and public health consequences.
Course outcomes	 Knowledge and understanding of the International Strategy for Disaster Reduction (UN-ISDR) and to increase skills and abilities for implementing the Disaster Risk Reduction (DRR) Strategy.
	3. Ensure skills and abilities to analyze potential effects of disasters and of the strategies and methods to deliver public health response to avert these effects.

Unit no.	Topics	No of Hrs.
1	Introduction: Definition of Disaster, hazard, global and Indian scenario, general perspective, importance of study in human life, Direct and indirect effects of disasters, long term effects of disasters. Introduction to global warming and climate change.	08
2	Natural Disaster and Manmade disasters: Natural Disaster: Meaning and nature of natural disaster, Flood, Flash flood, drought, cloud burst, Earthquake, Landslides, Avalanches, Volcanic eruptions, Mudflow, Cyclone, Storm, Storm Surge, climate change, global warming, sea level rise, ozone depletion Manmade Disasters: Chemical, Industrial, Nuclear and Fire Hazards. Role of growing population and subsequent industrialization, urbanization and changing lifestyle of human beings in frequent occurrences of manmade disasters.	15
	Disaster Management, Policy and Administration: Disaster	12
3	management: meaning, concept, importance, objective of disaster management policy, disaster risks in India, Paradigm shift in disaster	
	management. Policy and administration: Importance and principles of disaster management policies, command and co-ordination of in disaster management, rescue operations-how to start with and how to proceed in due course of time, study of flowchart showing the entire process.	
4	Financing Relief Measures: Ways to raise finance for relief expenditure, role of government agencies and NGO's in this process, Legal aspects related to finance raising as well as overall management of disasters. Various NGO's and the works they have carried out in the past on the occurrence of various disasters, Ways to approach these teams. International relief aid agencies and their role in extreme events.	13
5	Preventive and Mitigation Measures: Pre-disaster, during disaster and post-disaster measures in some events in general structural mapping: Risk mapping, assessment and analysis, sea walls and embankments, Bio shield, shelters, early warning and communication Non-Structural Mitigation: Community based disaster preparedness, risk transfer and risk financing, capacity development and training, awareness and education, contingency plans. Do's and don'ts in case of disasters and effective implementation of relief aids.	12
	Total	60hrs

Curriculum for Master in Pub	lic Health (MPH) MGM Institute of Health Sciences
Name of the Programme	Master in Public Health (MPH)
Course Code	GE 004 L
Name of the Course	HUMAN RIGHTS

	 Students will comprehend on: 1. A branch of public international law, and relevant juridical mechanisms at global as well as regional levels, 		
	2. Human rights as an object of study in history, philosophy and the social sciences, as well as a practical reality in national and international politics.		
Course objective	3. Different forms of promoting and implementing human rights, domestically as well as on the international level.		
	4. The role of human rights in contemporary issues relating to terrorism, religion, ethnicity, gender and development.		
	5. Scholarly values such as transparency, impartiality, clarity, reliance and the importance of sound reasoning and empirical inference.		
	 Student will be able to virtue: 1. identify, contextualize and use information about the human rights situation in a given country 		
	 critically appraise source material, including cases from human rights committees and tribunals and reports and summary records from treaty bodies 		
Course outcomes	 analyze a country's situation or an international situation in terms of human rights and formulate human rights-based initiatives and policies 		
	4. Promote human rights through legal as well as non-legal means.		
	5. Participate in legal, political and other debates involving human rights in a knowledgeable and constructive way		

Unit no. –	Topics	No. of Hr	
Name of	the Autoground the Introduction, Meaning, Matsher and Pscholie, Health (MPH) of Human Rights, Theories of Rights, Types of Rights	08	
2	Human rights at various level: Human Rights at Global Level UNO, Human Rights – UDHR 1948 – UN Conventions on Human Rights: International Covenant on civil and Political Rights 1966, International Convent on Economic, Social and Cultural Right, Racial Discrimination - 1966 International, Instruments: U.N. Commission for Human Rights, European Convention on Human Rights.	15	
3	3 <i>Human rights in India</i> : Development of Human Rights in India, Human Rights and the Constitution of India, Protection of Human Rights Act 1993- National Human Rights Commission, State Human Rights Commission, Composition Powers and Functions, National Commission for Minorities, SC/ST and Woman		
4	Human Rights Violations: Human Rights Violations against Women, Human Rights Violations against Children, 35 Human Rights Violations against Minorities SC/ST and Trans-genders, Preventive Measures.		
5	<i>Political issues</i> : Political Economic and Health Issues, Poverty, Unemployment, Corruption and Human Rights, Terrorism and Human Rights, Environment and Human Rights, Health and Human Rights	12	
	Total	60hrs	

Course Code	MCCT 115
Name of the Course	DISSERTATION / PROJECT WORK*

- 1. Dissertation work should be carried out as an individual Dissertation and actual bench work.
- 2. The students will carry independent project work under the supervision of the staff of PSM Department on an advanced topic assigned to him/her. Inhouse projects are encouraged.
- 3. Co guides from the other institutions may be allowed.
- 4. The Dissertation/Project/Internship work will begin from 3 rd. Semester and will continue through the 4th Semester.
- 5. The Dissertation report (also work book shall be presented at the time of presentation and viva voce) will be submitted at the end of the 4th Semester and evaluated.
- 6. Five copies of the project report shall be submitted to the Director, SBS.
- 7. For the conduct of the End Semester Examination and evaluation of dissertation work the University will appoint External Examiners.
- 8. Since the dissertation is by research, dissertation work carries a total of 200 marks and evaluation will be carried out by both internal and external evaluators.
- 9. The student has to defend his/her project work in a seminar which will be evaluated by an internal and external expert appointed by the University.
- 10. The assignment of marks for Project is as follows:
 - a. Continuous Internal Assessment, Novelty of the research project-100 Marks
 - b. Project work book: 50 Marks
 - c. Viva-voce: 50 Marks
- 11. However, a student in 4th semester will have to opt for general elective course from other related disciplines in addition to his project work in the parent department.

MGM Institute of Health Sciences

RULES AND EGULATION FOR EXAMINATION OF POST GRADUATE DEGREE COURSES UNDER SCHOOL OF BIOMEDICAL SCIENCES OFFERING CBCS PATTERN

1. Title of the courses offered :

Master in Public Health (MPH)

2. Duration of the course:

Duration shall be for a period of two years for PG courses

3. Medium of instruction: The medium of instruction and examination shall be in English

4. LETTER GRADESANDGRADE POINTS:

MGMSBS has adopted the UGC recommended system of awarding grades and CGPA under Choice Based Credit Semester System for all the PG courses.

- 4.1 MGMSBS would be following the absolute grading system, where the marks are compounded to grades based on pre-determined class intervals.
- 4.2 The UGC recommended 10-point grading system with the following letter grades will be followed:

Letter Grade	Grade Point	
O (Outstanding)	10	
A+ (Excellent)	9	
A (Very Good)	8	
B (Good)	7	
C (Above Average)	6	
F (Fail)/ RA (Reappear)	0	
Ab (Absent)	0	
Not Completed (NC)	0	
RC (<50% in attendance or in Internal		
Assessment)		

Table 1: Grades and Grade Points:

4.3 A student obtaining Grade RA shall be considered failed and will be required to reappear in the examination.

4.4 Candidates with NC grading are those detained in a course (s); while RC indicate student not fulfilling the minimum criteria for academic progress or less than 75% in attendance or less than 35% in internal assessments (IA). Registrations of such students for the respective courses shall be treated as cancelled. If the course is a core course, the candidate has to re-register and repeat the course when it is offered next time.

5. CBCS Grading System - Marks Equivalence Table

Letter Grade	Grade Point	% of Marks
O (Outstanding)	10	86-100
A+ (Excellent)	9	70-85
A (Very Good)	8	60 - 69
B (Good)	7	55 - 59
C (Above Average) –	6	50- 54
Pass for PGs	6	30- 34
F (Fail))/ RA (Reappear)	0	Less than 50
Ab (Absent)	0	-
NC- not completed	0	-
RC- Repeat the Course	0	0

5.1 Table 2: Grades and Grade Points

5.2 Table 3: Cumulative Grades and Grade Points

Letter Grade	Grade Point	CGPA
O (Outstanding)	10	9.01 - 10.00
A+ (Excellent)	9	8.01 - 9.00
A (Very Good)	8	7.01 - 8.00
B (Good)	7	6.00 - 7.00
C (Above Average)	6	5.01 - 6.00

- 6. Assessment of a Course: Evaluation for a course shall be done on a continuous basis. Uniform procedure will be adopted under the CBCS to conduct continuous internal assessments (IA), followed by one end-semester university examination (ES) for each course.
 - 6.1 For all category of courses offered (Theory, Practical, Discipline Specific Elective [DE]/ Lab [DL]; Generic Elective [GE] and Ability Enhancement Courses [AE]; Skills Enhancement Courses [SE] Theory or P (Practical) & RP(Research Project), assessment will comprise of Internal Assessment (IA) and the end-semester (ES) examination.
 - 6.2 Courses in programs wherein Theory and Lab are assessed jointly (PG), the minimum passing head has to be 50% Grade in total including internal assessment. RA grade in

any one of the components will amount to reappearing in both components. i.e. theory and practical.

6.3 Evaluation for a course with clinical rotation or clinical training or internship will be done on a continuous basis.

7. Eligibility to appear for the end-semester examinations for a course includes:

7.1 Candidates having \geq 75% attendance and obtaining the minimum 35% in internal assessments in each course to qualify for appearing in the end-semester university examinations.

7.2 The students desirous of appearing for university examination shall submit the application form duly filled along with the prescribed examination fee.

7.3 Incomplete application forms or application forms submitted without prescribed fee or application form submitted after due date will be rejected and student shall not be allowed to appear for examination.

8. Passing Heads

- 8.1 Courses where theory and practical are involved, the minimum passing head shall be 50% in total including the internal assessment.
- 8.2 Elective subjects the minimum prescribed marks for a pass in elective subject should be 50%. The marks obtained in an elective subjects should be communicated to the university before the commencement of the university examination.
- **9. Detention:** Astudent not meeting any of the above criteria maybe detained (NC) in that particular course for the semester. In the subsequent semester, such a candidate improve in all, including attendance and/or IA minimum to become eligible for the next end-semester examination.

The maximum duration for completing the course will be 4 years (minimum duration of course x 2) i.e. (2x2) = 4 years for PG Courses, failing which his/her registration will be cancelled. Full fees of entire course of three or two years as the case may be liable to be paid by the students.

10. Carry over benefit:

- 10.1First year examination: A candidate who fails in any two main subjects of first semester shall be permitted to carry over those subjects to second semester. However, the candidate has to clear all over subject before being allowed to appear for last semester examination.
- 10.2A candidate shall not be allowed to appear in the final semester examination unless the candidate has cleared all the previous semester examinations.

11. University End-Semester Examination (PG Programs)

- 11.1 There will be one final university examination at the end of every semester.
- 11.2 A candidate must have minimum 75% attendance (Irrespective of the type of absence) in theory and practical in each subject to be eligible for appearing the University examination.
- 11.3 The principal /dean/ director shall send to the university a certificate of completion of required attendance and other requirements of the applicant as prescribed by the university, two weeks before the date of commencement of the written examination.
- 11.4 A candidate shall be eligible to sit for the examination only, if she / he has secured minimum 35% in internal assessment of that subject. The internal examinations will be conducted at college/ department level.
- 11.5 Notwithstanding anything in any examination, a deficiency of attendance at lectures or practical maximum to the extent of 10% may be condoned by the principal / dean /director.
- 11.6 If a candidate fails either in theory or in practical, he/ she have to re-appear for both.
 - 11.7 There shall be no provision of re- evaluation of answer sheets. Candidates may Apply to the university following due procedure for recounting of theory marks in the Presence of the subject experts.
- 11.8Internal assessments shall be submitted by the Head of the Department to the university

Through the Director of MGMSBS at least two weeks before commencement of University theory examination.

12. Supplementary examination: There shall be no supplementary examination

13. Re-Verification

There shall be provision of retotaling of the answer sheets, candidate shall be permitted to apply for recounting/retotaling of theory papers within 8 days from the date of declaration of results.

14. Scheme of University Examination Theory for PG Program:

General structure / patterns for setting up question papers for Theory / Practical courses, their evaluation weightages for PG programs of MGMSBS are given in the following tables

14.1 Marks scheme for the University exam:

Final theory marks will be 100 marks (80 marks University Theory exam + 20 Marks Internal assessment).

Question		Marks	Marks allotted	Marks
		distribution	per section	
Sec: A	SAQ	8/10 x 5 M = 40	40	80
Sec: B	LAQ	2/4 x 20 M = 40	40	80
				Total = 80 M

14.2 Practical Universityexam pattern: Total 40 marks with following breakup:

Exercise	Description	Marks
Q No 1	Case Study/Statistical	1 x20=20 M
	Problem	
Q No 2	Case Study/Statistical	2x5M=10 M
	Problem	
Q No 3	VIVA	5 M
QNo 4	Journal	5 M
		Total = 40 M

14.3 Practical to be conducted at respective departments and marks submitted jointly by the parent department to the university.

14.4 Breakup of theory IA calculation for 20 marks

Internal exam (at department)	15 marks
Seminar	5 marks
	Total = 20 M

Breakup of practical IA calculation:

Internal exam (at department)	10 marks	
Viva	5 marks	
Journal	5 marks	
	Total = 20 M	
Note- 20 marks to be converted to 10 marks weightage for submission to the university		

Note- 20 marks to be converted to 10 marks weightage for submission to the university

14.5 ASSESSMENT OF SEMMINAR FOR PG COURSE (50 Marks)

Description	Marks
Submission of seminar report	25 M
Subject knowledge	5
Concept and Methodology	5
Presentation	5

MGM Institute of Health Sciences

VIVA	10 M
	Total = 50 M

14.6 Dissertation:-

- 14.6.1 MPH student should submit a suitable dissertation topic forwarded by the guide to the School of Biomedical Sciences by September in III semester of the course. Following approval of ethics & scientific committee, work should be carried out.
- 14.6.2 Completed dissertation should be submitted in IV semester. (Dissertation submission date will be informed later)

15. Dissertation Evaluation Guidelines for PG courses:

The Dissertation allows the student to develop and display in-depth understanding of a theme in International Studies, as well as an in-depth understanding of the appropriate research tools, approaches and theories applicable to that theme. The dissertation should be based on a well-defined and clear research question of scholarly significance, and that the dissertation develops a theoretically and methodologically informed and evidence-based answer to that question.

Criteria for Evaluating a Dissertation:

Criteria for Evaluating a Dissertation: The assignment of marks for Project/Dissertation is as follows:

Part I- III semester

Topic Selection, Review of Literature, Novelty of works-50 marks

Part-II- IV semester

- a. Continuous Internal Assessment, Novelty of research project 100 Marks
- b. Dissertation/Project work book: 50 Marks
- c. Viva-Voce: 50 Marks

16. Eligibility for award of degree

16.1 A candidate shall have passed in all the subjects of 1st& 2nd to be eligible for award of Post Graduate degree.

-----XXXXXXX

Resolution No. 4.13 of BOM-55/2018: Resolved as follows:-

- (i) Slow learners must be re-designated as potential learners.
- (ii) Students scoring less than 35% marks in a particular subjects/course in the 1st formative exam are to be listed as potential learners. These learners must be constantly encouraged to perform better with the help of various remedial measures.
- (iii) Students scoring more than 75% marks in a particular subjects/course in the 1st formative exam are to be listed as advanced learners. These learners must be constantly encouraged to participate in various scholarly activities.

All PGI Courses admitted in AY 2018-19 SBS

Resolution No. 4.4.1.3 of BOM-55/2018: Resolved to approve the revised syllabus of 'Research Methodology and Biostatistics' subject for all the PG courses (including 3 years) and to shift it in 2nd semester with effective from the batch admitted in the Academic Year 2018-19 onwards under MGM School of Biomedical Sciences. **[Annexure-13]**



Innexu

To compulsorily include in the BOS agenda

1 message

10/4/2018

6 September 2018 at 14:17

Registrar <registrar@mgmuhs.com> To: drravindrai@gmail.com, inamdar123456@gmail.com, ipseetamohanty@yahoo.co.in, jaishreeghanekar@gmail.com, drspravin22@gmail.com, dr_spravin@hotmail.com, sudhirkul1979@gmail.com, marsibiotech79@gmail.com, sbsnm@mgmuhs.com, rajani.kanade@gmail.com, mgmschoolofphyslotherapy@grrail.com, prabhadasila@gmail.com, mgmnewbombaycollegeofnursing@gmail.com, gashroff2006@gmail.com, rupalgshroff@yahoo.com, manjushreeb@yahoo.com, drshobhasalve@gmail.com, spdubhashi@gmail.com, javantkarbhase@gmail.com, veenashatolkar@gmail.com, sharathcrisp@gmail.com, mgmlpth@themgmgroup.com, anuradhamhaske@hotmail.com, principalconabad@gmail.com

Cc: registrarmgmihs@gmail.com, mgmihsaurangabad@gmail.com, dr.rajeshkadam@7@gmail.com, aradmin@mgmuhs.com

Dear Sir/Madam,

Please find attached herewith request from Dr. Rita Abbi, Professor, Biostatistics regarding Modification in the syllabus of 'Research Methodology and Biostatistics' subject and Proposal to make this subject compulsory in all the PG courses. You are requested go through this and include it in your agenda for forthcoming BOS in September, 2018.

Thanks and regards,

Dr. Rajesh B. Goel

Registrar

MGM Institute of Health Sciences, Navi Mumbai

(Deemed University u/s 3 of UGC act, 1956)

3rd Floor, MGM Educational Campus,

Plot No. 1 & 2, Sector -1, Kamothe,

Navi Mumbai - 410 209

Tel.: 022 - 27432471 / 27432994

Fax: 022 - 27431094

Email: registrar@mgmuhs.com

Website: www.mgmuhs.com

Modification in the syllabus of Research Methodology and Biosta.pdf 2261K

MGM SCHOOL OF BIOMEDICAL SCIENCES, NAVI MUMBAI

(A constituent unit of MGM INSTITUTE OF HEALTH SCIENCES)

(Deemed University u/s 3 of UGC Act 1956)

Grade "A" Accredited by NAAC

Sector 1, Kamothe Navi Mumbai-410209, Tel.No.:022-27437631,27432890

Email. sbsnm@mgmuhs.com / Website : www.mgmsbsnm.edu.in

7-6-2018

The Director MGM School of Biomedical Sciences Kamothe, Navi Mumbai – 410 209

Subject: Modification in the syllabus of 'Research Methodology and Biostatistics' Subject and Proposal to make this subject compulsory in all the PG courses

Dea: Madam,

To.

Research Methodology and Biostatistics subject is a significant tool for academic research. It has been observed that majority of post graduate courses have this subject as a part of their course work. There is a need to modify the curriculum of 'Research Methodology and Biostatistics subject' due to the following reasons:

- While going through the Research Methodology and Biostatistics syllabus it was found that in some courses more weightage was given to computer hardware e.g. History and development of computers(old pattern) which may not be needed now as we have witnessed the revolution in Information Technology. Students should be taught latest technology and software.
- 2. Secondly, in most of the syllabi 'Vital Statistic' is missing which is an important topic for healthcare field. Some of the essential topics like 'Normal distribution' etc are missing.
- 3. By streamlining the syllabus it will save teacher's teaching time, paper setting time. Moreover, Exam section need not call multiple examiners for the same subject, this will be economical for exam section.

This subject is well recognized as an essential tool in medical research, clinical decision making, and health management. It is recommended to streamline the syllabus and make Research Methodology and Biostatistics' compulsory in all the post graduate courses of School Biomedical Sciences. The modified syllabus is enclosed. This is for your kind perusal and necessary action please.

With regards,

ù

Dr. Říta Abbi Professor, Biostatistics

Copy for information to Registrar MGMIHS Navi Mumbai; Hon'ble Vice Chancellor, MGMIHS Navi Mumbai Hon'ble Medical Director, MGM Medical College

Meddaning to speak

BOS -> Faculty > Academic Commed.

MGM Institute Of Health Sciences INWARD NO. 5720 DATE: 2576118

MGM INSTITUTE OF HEALTH SCIENCES

M. Sc. Students

Syllabus for Research Methodology and Biostatistics

		No. of	f Hours
	I. Research Methodology:	Theory	Practical
	1 Scientific Methods of Research : Definition of Research, Assumptions, Operations and Aims of Scientific Research. Research Process, Significance and Criteria of Good Research, Research Methods versus Methodology, Different Steps in Writing Report, Technique of Interpretation, Precaution in interpretation, Significance of Report Writing, Layout of the Research Report	5	
	2 Research Designs: Observational Studies: Descriptive, explanatory, and exploratory, Experimental Studies: Pre-test design, post-test design, Follow-up or longitudinal design, Cohort Studies, Case Control Studies, Cross sectional studies, Intervention studies, Panel Studies.	5	
	3 Sampling Designs : Census and Sample Survey, Implications of a Sample Design, Steps in Sampling Design Criteria of Selecting a Sampling Procedure, Characteristics of a Good Sample Design, Different Types of Sample Designs (Probability sampling and non probability sampling), How to Select a Random Sample?, Systematic sampling, Stratified sampling, Cluster sampling, Area sampling, Multi-stage sampling, Sampling with probability proportional to size, Sequential sampling.		4
	4 Measurement in research: Measurement Scales, Sources of Error in Measurement, Tests of Sound Measurement, Technique of Developing Measurement Tools, Scaling Meaning of Scaling, Scale Classification Bases, Important Scaling Techniques, Scale Construction Techniques, Possible sources of error in measurement, Tests of sound measurement	5	5
[!	5 Methods of Data Collection: Types of data, Collection of Primary Data, Observation Method, Interview Method, Collection of Primary Data	5	3
	6 Sampling Fundamentals : Need and importance for Sampling, Central Limit Theorem, Sampling Theory, Concept of Standard Error, Estimation, Estimating the Population Mean Estimating Population Proportion, Sample Size and its Determination, Determination of Sample Size through the Approach Based on Precision Rate and Confidence Level.		3
	II. Biostatistics		
	Data Presentation : Types of numerical data: Nominal, Ordinal, Ranked, Discrete and continuous. Tables: Frequency distributions, Relative frequency, Graph: Bar charts, Histograms, Frequency polygons, one way scatter plots, Box plots, two way scatter plots, line graphs		4
	 Measures of Central Tendency and Dispersion : Mean, Median, Mode Range, Inter quartile range, variance and Standard Deviation, Coefficient of variation, grouped mean and grouped standard deviation (including merits and demerits). 	3	4

	Total hours	60	60
] 	variables, sorting & filtering, merging, appending data sets. Frequencies, descriptive statistics, cross tabulations. Diagrammatic presentation include histogram, bar chart, pie chart, scatter diagram, box plot, line chart. Parametric test of hypothesis-one sample, Independent and paired sample t test, one way ANOVA& post HOC test. Testing for normality, Chi-square test with measures of association. Pearson correlation. Non parametric test		
	Computer Application Use of Computer in data analysis and research, Use of Software and Statistical package. Importing data from excel, access, tab and comma separated files. Entering data, labeling a variable, coding and recoding a categorical and continuous variable. Converting data from string to numeric variables, sorting & filtering marging access of the second string to numeric	3 «	(
	Vital Health Statistics: Measurement of Population: rate, crude rate, specific rate, Measurement of fertility: specific fertility rate, Total fertility rate, Reproduction rate, Gross Reproduction Rate, Net Reproduction Rate, Measures related to mortality: Crude Death Rate (CDR), Age-specific death Rate, Infant and child mortality rate, Measures related to morbidity.	4	
	Nonparametric or Distribution-free Tests: Important Nonparametric or Distribution-free Test Sign test, Wilcoxon signed-Rank Test, Wilcoxon Rank Sum Test: Mann-Whitney U test Kruskal Walli's test, Friedman's test, and Spearman Correlation test.	3	
	Analysis of Variance and Covariance: Analysis of Variance (ANOVA):Concept and technique of ANOVA, One-way ANOVA, Two-way ANOVA, ANOVA in Latin-Square Design Analysis of Co-variance (ANOCOVA), ANOCOVA Technique.		4
[Analysis		2
4	 Populations. Chi-square Test: Chi-square as a Non-parametric Test, Conditions for the Application Chi-square test, Steps Involved in Applying Chi-square Test, Alternative Formula, Yates' Correction, and Coefficient by Contingency. 		2
	3 Testing of Hypotheses: Definition, Basic Concepts, Procedure for Hypothesis Testing Measuring the Power of a Hypothesis Test, Normal distribution, data transformationImportant Parametric Tests, Hypothesis Testing of Means, Hypothesis Testing for Differences between Means, Hypothesis Testing for Comparing Two Related Samples, Hypothesis Testing of Proportions, Hypothesis Testing for Difference between Proportions, Hypothesis Testing for Comparing a Variance to Some Hypothesized Population Variance, Testing the Equality of Variances of Two Normal Populations		6

Security

Ŋ

٠

6. j. s.

. . .

Resolution No. 3.1.4.2 of BOM-57/2019:

- i. Resolved to include "Gender Sensitization" into UG (from new batch 2019-2020) and PG (from existing batches) curricula. [Annexure-21]
- **ii.** Resolved to align the module of "Gender Sensitization" with MCI CBME pattern for MBBS students.
- iii. Resolved that Dr. Swati Shiradkar, Prof., Dept. of OBGY., MGM Medical College, Aurangabad will coordinate this activity at both campuses.

Annexure - 21

Gender sensitization for UG (2nd, 3rd, 8th semesters) and PG (3 hours)

INCLUSION OF "GENDER SENSATIZATION" IN CURRICULUM

Introduction :

The health care provider should have a healthy gender attitude, so that discrimination, stigmatization, bias while providing health care will be avoided. The health care provider should also be aware of certain medico legal issues related with sex & gender.

Society particularly youth & adolescents need medically accurate, culturally & agewise appropriate knowledge about sex, gender & sexuality. So we can train the trainers for the same. It is need of the hour to prevent sexual harassment & abuse .

To fulfill these objectives, some suggestions are there for approval of BOS.

<u>Outline</u>

1)For undergraduates :- Three sessions of two hours each, one in 2^{nd} term, one in 3^{rd} term & one in 8^{th} term.

2)For Faculties and postgraduates :- One session of two hrs .

3)For those want to be trainers or interested for their ownself, value added course, which is optional about sex, gender, sexuality & related issues.

Responsibility

ICC of MGM, MCHA , with necessary support from IQAC & respective departments.

Details of undergraduate sessions

1)First session in 2nd term

Aim – To make Students aware about the concept of sexuality & gender.

To check accuracy of knowledge they have,

To make them comfortable with their own gender identify & related issues.

To make them aware about ICC & it is functioning.

Mode – Brain storming , Interactive power point presentation experience sharing.

Duration – Around two hours

Evaluation – Feedback from participants.

2)Second session in 3rd / 4th term

Aim – To ensure healthy gender attitude in these students as now they start interacting with patients.

To ensure that the maintain dignity privacy while interacting with patients and relatives, particularly gender related.

To make them aware about importance of confidentiality related with gender issues.

--2--

To encourage them to note gender related issues affecting health care & seek solutions.

Mode – focused group discussions on case studies, Role plays & discussion.

--3--

Duration – Around two hours.

Evaluation – Feedback from participants.

Third session in 8th term.

Aim – To understand effect of gender attitudes on health care in various subjects.

To develop healthy gender attitude while dealing with these issues.

Mode – Suggested PBL by departments individually. (In collaboration with ICC till faculty sensitization is complete)

Evaluation – Feedback

--4--

FOR POSTGRADUATES

Session of 2-3 hrs preferably in induction program.

- **Aim** To introduce medically accurate concept of gender, sex, gender role & sex role.
- To ensure healthy gender attitude at workplace.

To understand gender associated concepts on health related issues & avoid such bias wile providing health care.

To make them aware about ICC & it's functioning.

Mode – Interactive PPT

Role plays & discussion

Duration – 2 to 3 hrs

Evaluation – Feedback.

--5--

FOR FACULTIES

Session of 2 hours may be during combined activities.

Aim – To ensure clarity of concept abut gender & sex.

To discuss effect of these concept on health related issues.

To identify such gender & sex related issues in indivual subject specialties.

To discuss methodology like PBL for under graduate students when whey are in $7^{\text{th}}-8^{\text{th}}$ semester.

Mode – Role play

Focused group discussion

Case studies

Evaluation – Feed back.

Sdp-Pimple/joshi-obgy

Resolution No. 3.2.1.6.a of BOM-57/2019: Resolved to allot 50 marks for Internal Assessment in Industrial Visit for all the batches under CBCS pattern - M.Sc. (2 year) & MHA program.

Resolution No. 3.2.1.6.d of BOM-57/2019: Resolved that in "Rules & Regulation of Exam for PG Student (CBCS)" to keep "10 marks for Viva instead of 5 marks and no marks for journal" in the final university exam for PG students (M.Sc. 02 years CBCS pattern) admitted from Academic Year 2019-20 onwards.

Resolution No. 4.3.1.2 of BOM-63/2021: Resolved to include topics related to COVID 19 in UG {B.Sc. AT & OT (BOTAT 108L), B.Sc. MLT(BMLT 108 L), B.Sc. MRIT (BMRIT 108L), B.Sc. MDT-(BMDT 108L), B.Sc. CCT (BCCT 108L), B.Sc.PT (BPT 108L), B.Optometry (BOPTOM 108L) Programs for Batch AY 2020-21 (Semester II)} & B.Sc. Medical Laboratory Technology SEMESTER-VI in subject of Medical Microbiology-II (BMLT 125 L) & Medical Microbiology-II (BMLT 125 P) for Batch AY 2020-21. **[Annexure-7]** Further Dr. N.N. Kadam, Hon'ble Pro Vice Chancellor suggested to add topics under "Newer Infectious Diseases" as the main topic.

Annexure-07 of BOM-63/2021 dt 17.02.2021

To include Covid-19 topics in health professional curriculum as per the BOM Resolution No. 3.7 of BOM-62/2020

 a) M.Sc. (PG Program), (M.Sc. Medical Biotechnology, M.Sc. Medical Genetics, M.Sc. Biostatistics, M.Sc. Molecular Biology, M.Sc. MRIT, M.Sc. CCT, M.Sc. Clinical Nutrition, M.Sc. Clinical Embryology, Master in Hospital Administration, Master of Public Health, and M.Optometry)

Approved syllabus	Name of the	Existing content	Proposed changes
	subject		
Common Syllabus	BIOETHICS ,	Sr. no. 2	Sr. no. 2
for Semester IV –	BIOSAFETY,	Introduction to	Introduction to quality
2 year M.Sc.	IPR &	quality assurance,	assurance, accreditation
programs (M.Sc.	TECHNOLOGY	accreditation &	& SOP writing
Medical	TRANSFER	SOP writing	:Concept of ISO
Biotechnology,		:Concept of ISO	standards and
M.Sc. Medical	GE 002 L	standards and	certification, National
Genetics, M.Sc.		certification,	regulatory body for
Biostatistics, M.Sc.		National	accreditation, Quality
Molecular Biology,		regulatory body	parameters, GMP &
M.Sc. MRIT, M.Sc.		for accreditation,	GLP, Standard
CCT, M.Sc.		Quality	operating procedures,
Clinical Nutrition,		parameters, GMP	Application of QA in
M.Sc. Clinical		& GLP, Standard	field of genetics, Data
Embryology,		operating	management of clinical
Master in Hospital		procedures,	and testing laboratory,
Administration,		Application of QA	WHO & CDC, ICMR
Master of Public		in field of	guidelines for
Health, and		genetics, Data	Biosafety and
M.Optometry)		management of	Vaccines with regards
		clinical and testing	COVID 19
		laboratory	

Resolution No. 4.3.1.3 of BOM-63/2021: Accorded post facto approval for changes in the index of UG (B.Sc. AT & OT, B.Sc. MLT, B.Sc. MRIT, B.Sc. MDT, B.Sc. CCT, B.Sc.PT, B. Optometry) and PG 2 year (M.Sc. Medical Biotechnology, M.Sc. Medical Genetics, M.Sc. Biostatistics, M.Sc. Molecular Biology, M.Sc. MRIT, M.Sc. CCT, M.Sc. Clinical Nutrition, M.Sc. Clinical Embryology, Master in Hospital Administration, Master of Public Health, and M.Optometry). [Annexure-8A, 8B]

	OUTLINE OF COURSE CURRICULUM													
	Master in Public Health (MPH)													
					Se	emester I								
				Credits/V	Veek			H	rs/Semester				Marks	
Code No.	Core Subjects	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation (CP)	Total Credits (C)	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation (CP)	Total (hrs.)	Internal Assement (IA)	University semester Exam (UEX)/ Internal Semester Exam (INT)	Total
						Theory								
MPH 101 L	Concept of Public Health & Basic Epidemiology	4	-	-	-	4	60	-	-	-	60	20	80 (UEX)	100
MPH 102 L	Introduction to Demography & Basic Biostatistics	4	-	-	-	4	60	-	-	-	60	20	80 (UEX)	100
MPH 103 L	Introduction to Health System, Policy and Programs	4	-	-	-	4	60	-	-	-	60	20	80 (UEX)	100
MPH 104 L	Introduction to Health Economics	4	-	-	-	4	60	-	-	-	60	20	80 (UEX)	100
MPH 105 L	Practice of Public Health (Basic)	-	-	-	24	8	-	-		360	360	-	50 (INT)	50
	Total	16	0	0	24	24	240	0	0	360	600	80	370	450

	OUTLINE OF COURSE CURRICULUM													
	Master in Public Health (MPH)													
					Se	mester II								
				Credits/W	Veek			Н	rs/Semester				Marks	
Code No.	Core Subjects	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation (CP)	Total Credits (C)	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation (CP)	Total (hrs.)	Internal Assement (IA)	University semester Exam (UEX)/ Internal Semester Exam (INT)	Total
						Theory								
MPH 106 L	Health Management: Principles and Practices	4	-	-	-	4	60	-	-	-	60	20	80 (UEX)	100
MPH 107 L	Reproductive, Matemal Health, Child Health and Adolescent Health	3	-	-	-	3	45	-	-	-	45	20	80 (UEX)	100
MPH 108 L	Communicable and Non- Communicable Diseases & Nutrition	3	-	-	-	3	45	-	-	-	45	20	80 (UEX)	100
MPH 109 L	Practice of Public Health (Advanced) - Rural Outreach	-	-	-	24	8	-	-	-	360	360	-	50 (INT)	50
CC 001 L	Research Methodology & Biostatistics (Core Course)	4	-	-	-	4	60	-	-	-	60	20	80 (UEX)	100
	Practical													
CC 001 P	Research Methodology & Biostatistics (Core Course)	-	-	4	-	2	-	-	60	-	60	10	40 (UEX)	50
	Total	14	0	4	24	24	210	0	60	360	630	90	410	500

			OUT	LINE (OF CO	URSE CU	RRICU	ULUM						
	Master in Public Health (MPH)													
					Sem	ester III								
				Credits/W	leek			Н	rs/Semester				Marks	
Code No.	Core Subjects	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation (CP)	Total Credits (C)	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation (CP)	Total (hrs.)	Internal Assement (IA)	University semester Exam (UEX)/ Internal Semester Exam (INT)	Total
					Т	heory								
MPH 110 L	Environment and Occupational Health and Public Health Laws	4	-	-	-	4	60	-	-	-	60	20	80 (UEX)	100
MPH 111 L	Introduction to Financial Management and Budgeting	3	-	-	-	3	45	-	-	-	45	20	80 (UEX)	100
MPH 112 L	Medical Sociology and Effective Communication in Health Care	3	-	-	-	3	45	-	-	-	45	20	80 (UEX)	100
MPH 113 L	Practice of Public Health (Advanced) - Urban Outreach	-	-	-	18	6	-	-	-	270	270	-	50 (INT)	50
MPH 114	Internship/Dissertation / Project*	10	-	-		5	-	-	-	-	-	-	50 (INT)	50
					Core Ele	ctive Cours	e							
CEC 001 L	Advanced Epidemiology & Biostatistics	- 3	-	-	-	3	45	-	-	-	45	-	100 (INT)	100
CEC 002 L	Health Systems, Policy, Planning and Programme Management													
	Total	23	0	0	18	24	195	0	0	270	465	60	440	500

	OUTLINE OF COURSE CURRICULUM													
	Master in Public Health (MPH)													
					Sen	nester IV								
				Credits/W	leek			Н	rs/Semeste	r			Marks	
Code No.	Core Subjects	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation (CP)	Total Credits (C)	Lecture (L)	Tutorial (T)	Practical (P)	Clinical Posing/ Rotation (CP)	Total (hrs.)	Internal Assement (IA)	University semester Exam (UEX)/ Internal Semester Exam (INT)	Total
					Gene	ral Electives								
GE 001 L	Pursuit of Inner self Excellence(POISE)													
GE 002 L	Bioethics, Biosafety, IPR and Technology Transfer	4	-	-	-	4	60	-	-		60	20	80 (UEX)	100
GE 003 L	Disaster Management and Mitigation Resources											20	00(0211)	
GE 004 L	Human Rights													
	Practicals													
MPH 115	Dissertation / Project*	-	-	-	36	18	-	-	-	-	540	-	200 (UEX)	200
	Total	4	0	0	36	22	60	0	0	0	600	20	280	300

12.1 : Minutes of CBCS meeting	Decision taken by CBCS Committee:
held on 3.02.2021	Members agreed that all courses (core, elective, seminar, clinical
	posting etc) in all programs with CBCS curriculum under MGM
I. Courses titled as elective, seminar,	School of Biomedical Sciences (MGMSBS-UG & PG), MSc
clinical posting etc. will be evaluated	Medical Programme under MGM Medical College and MGM
at university level, only:	School of Physiotherapy (MGMSOP) (BPT & MPT) will be
	evaluated at the level of the University at the end during semester
1. Courses which were evaluated at	examination. (Detailed included as 1, 2,3,4 points) MGM School of Biomedical Sciences (MGMSBS-UG) :First year
constituent units titled as elective,	B.Sc. (Semester I & Semester II) (core-1.1 & 1.2) and (elective-1.3)
	common for all seven programs (B.Sc. DT, B.Sc. AT & OT, B.Sc.
seminar, clinical posting etc. will be	CCT, B.Optometry, B.Sc. PT, B.Sc. MRIT, B.Sc. MLT) which
evaluated at university level for UG	were having 100 marks previously will be changed to 50 marks (40
& PG of MGMSBS, Navi Mumbai:	marks university Semester End Exam-(SEE) and 10 marks Internal
	Assessment – (IA) as per below format - 1.4) w.e.f AY 20-21.
	(<u>Annexure 1</u>)
	Clinical Directed posting allotted 50 marks will be assessed as
	university end semester exam w.e.f AY 20-21. (<u>Annexure 1.1</u>)
	(request to add a) evaluation pattern of seminar - 50 marks- BSc Dialysis- sem
	IV
	b) Boptometrysem III - course : geometrical optics and visual
	optics I/II
	sem IV – optometric instrumentation
	10 IA + 40 SEE – format submitted) 2.1 Courses which were evaluated at constituent units titled as
	elective, seminar, clinical posting etc. will be evaluated at
	university level.
	Members agreed that all courses (core, elective, seminar, clinical
	posting etc) in all programs with CBCS curriculum under MGM
	School of Biomedical Sciences (MGMSBS-PG), will be evaluated
	at the level of the University end semester examination w.e.f. AY
	2020-21.
	* For PG program (M.Sc. 2 year including allied program, MHA, MPH) having courses like cominar/aducation tour & Industrial visit
	MPH) having courses like seminar/education tour & Industrial visit which were allotted 50 marks will be assessed as university end
	semester exam.
	a. Amended 10 marks in seminar (Annexure-2.1A)
	b. Amended 20 marks for Educational Tour/Field Work/Hospital
	Visit/ Industrial Visit (<u>Annexure-2.1B</u>)
	c. 50 marks for Clinical Directed Posting (no change) (Annexure-
	<u>2.1C</u>)
	(request to add the evaluation pattern for MPH – sem I,II, III) MOntematry Sem L. evaluation pattern to be added)
	MOptometry – Sem I – evaluation pattern to be added)
	2.2 PG Courses which were evaluated at constituent units titled as
	elective carrying 100 marks as only similar to that of core courses,
	will be evaluated at university level. Similar pattern which is being
	followed for core Subjects (IA - 20 Marks + university exam - 80
	marks) will be followed.(<u>Annexure-2.2</u>)

Resolution No. 10.4 of Academic Council (AC-42/2022):

 "Resolved to accept "50% eligibility in internal assessment" pattern for all the CBCS programs (UG & PG) running under the constituent units of MGMIHS.(MGM School of Biomedical Sciences, MGM School of Physiotherapy, MGM Medical College (M.Sc. Medical 3 year courses).

This will be applicable to all existing batches (for remaining regular examinations) and forthcoming batches from June 2022 onwards"



MGM INSTITUTE OF HEALTH SCIENCES

(Deemed to be University u/s 3 of UGC Act, 1956) Grade 'A' Accredited by NAAC Sector-01, Kamothe, Navi Mumbai - 410209 Tel 022-27432471, 022-27432994, Fax 022-27431094 E-mail- registrar@mgmuhs.com Website : www.mgmuhs.com

