



# **MGM SCHOOL OF BIOMEDICAL SCIENCES**

**(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.022-2743763, 27437632, 27432890**

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## **CHOICE BASED CREDIT SYSTEM (CBCS)**

**(Academic Year 2025 - 26)**

**Curriculum for**

**M.Sc. Allied Health Sciences**

**Master in Public Health**

**Semester I & II**

## DIRECTOR'S MESSAGE

### Welcome Message from the Director

Dear Postgraduate Students,

Welcome to **MGM School of Biomedical Sciences (MGMSBS)**, **MGMIHS**, a premier institution dedicated to advancing allied and health sciences education. As you embark on this transformative academic journey, you are joining a community that fosters excellence in research, clinical expertise, and innovation.

MGMIHS, accredited with **NAAC 'A++' Grade (CGPA 3.55, 2022)** and recognized as a **Category I Institution by UGC**, offers an ecosystem that nurtures both academic and professional growth. With **NIRF (151-200 rank band) recognition**, **NABH-accredited hospitals**, **NABL-accredited diagnostic labs**, and **JCI accreditation for MGM New Bombay Hospital**, we uphold global benchmarks in education and healthcare.

At MGMSBS, our **15 postgraduate programs** are meticulously designed to align with the National Commission for Allied and Healthcare Professionals (**NCAHP**) standards, National Education Policy (**NEP**) 2020, and the National Credit Framework (**NCrF**). We have implemented the **Choice-Based Credit System (CBCS)** to provide academic flexibility while ensuring rigorous training in clinical and technical skills. Our state-of-the-art research laboratories, digital classrooms, and the Central Research Laboratory (CRL) foster an environment that encourages innovation and evidence-based learning.

Postgraduate education at MGMSBS goes beyond theoretical learning—our curriculum integrates **hands-on clinical training, interdisciplinary collaboration, and exposure to real-world healthcare challenges**. We emphasize **research-driven education**, encouraging students to actively participate in **scientific discoveries, publications, and international collaborations**.

Beyond academics, we believe in **holistic development**, with initiatives such as the **AARAMBH Science and Wellness Club**, which promotes **mental well-being, leadership, and professional networking**.

As you step into this **next phase of academic and professional growth**, we encourage you to explore new ideas, engage in impactful research, and contribute meaningfully to the **healthcare ecosystem**. We are confident that your journey at MGMSBS will shape you into **skilled, compassionate, and visionary professionals**, ready to lead in the ever-evolving healthcare landscape.

We look forward to witnessing your achievements and contributions!

**Dr. Mansee Thakur**

Director, MGM School of Biomedical Sciences  
MGM Institute of Health Sciences, Navi Mumbai

## **HEAD OF DEPARTMENT'S MESSAGE**

Dear Students,

Greetings!!!

On behalf of the MGM Family, I am delighted to welcome you to the Masters in Public Health Programme at MGM School of Biomedical Sciences (MGM SBS).

The Masters in Public Health course is designed to offer you an inspiring, engaging, and fulfilling learning experience. This program is intended to provide you with the skills and knowledge needed to address the critical public health challenges of today and the future. As a student at MGM SBS, you will be immersed in a culture of learning by doing. Our teaching pedagogy blends both theoretical knowledge and practical application, preparing you for real-world public health scenarios. Your active participation will be key in enriching this learning experience.

This program also places a strong emphasis on fieldwork, industry visits, and practical exposure, providing you with invaluable opportunities to understand public health in action. I am confident that your time at MGM SBS will be both academically and professionally enriching.

This Handbook has been designed to give you a comprehensive understanding of the academic structure and practical training of the course, ensuring that you are fully prepared to meet the needs of the program.

With Best Wishes,

Dr. B. S. Nagaonkar  
Head of Department,  
MGM SBS

**ACADEMICS****MASTER IN PUBLIC HEALTH**  
**(CHOICE BASED CREDIT SYSTEM)**

**Duration of the Programme:** The Course shall extend over a period of 2 years with four semesters. Each year consist of 2 semesters with examinations at the end of every semester.

**Eligibility for admission:** Graduates in Medicine/ AYUSH/ Dentistry/ Veterinary Sciences/ Nursing/ Nutrition/ Sociology/Paramedical from a recognized University, with minimum 50% marks in qualifying (graduation) examination will be eligible for admission. The candidates having demonstrated experience in healthcare related field will be given preference.

**Scheme of Examinations:** There shall be examination at the end of each semester, which will be consisting of theory, practical, dissertation and Internal Assessments.

**Clinical Posting:** There will be mandatory clinical posting at Urban Health Training Centre, Rural Health Training Centre and in the Department of Community Medicine in each semester.

**Requirement to Appear for the Examination:** A candidate shall be permitted to appear for the university examination of any semester, if he/ she secure not less than 75% of attendance in the number of instructional days and not less than 35% Marks in Internal Assessment, failing which he/ she should redo that course of study. The criterion for appearing in last semester examination is to qualify all subjects of I, II and III semesters.

**Medium of Instruction and Examination:** The medium of instruction throughout the course and the examinations shall be English only.

**Passing:** A Candidate shall be declared to have passed the examination in a subject if he/she secured not less than 50% in aggregate internal and external examinations.

**Conferment of Degree:** A candidate, who has passed all the examinations as prescribed, shall be eligible to receive the degree of –“Masters in Public Health” from the MGM Institute of Health Sciences.

For any query visit the website: [www.mgmsbsnm.edu.in](http://www.mgmsbsnm.edu.in)

### PROGRAMME OUTCOME

Program Code	Program Objective
PO 1	<b>Public Health Knowledge and Technology:</b> Apply advanced knowledge of public health systems, epidemiology, health policies, and technologies to improve population health outcomes and streamline public health interventions.
PO 2	<b>Critical Thinking and Problem-Solving:</b> Use analytical skills and professional judgment to assess public health issues, make data-driven decisions, and develop effective solutions to improve community health and address public health challenges.
PO 3	<b>Healthcare Research Skills:</b> Conduct and analyze public health research to inform evidence-based practices, contribute to innovations in public health policy and management, and improve public health decision-making.
PO 4	<b>Professional Ethics and Public Health Practice:</b> Adhere to ethical guidelines in public health practice, ensuring that social justice, equity, and ethical principles guide the design and implementation of health policies and programs.
PO 5	<b>Communication Skills:</b> Communicate effectively with diverse populations, healthcare providers, and policymakers to ensure clear information exchange, promote health education, and foster collaboration across public health initiatives.
PO 6	<b>Teamwork and Collaboration:</b> Collaborate effectively with interdisciplinary teams to address public health issues, promote community engagement, and implement public health programs, fostering a cooperative work environment.
PO 7	<b>Holistic Development and Leadership:</b> Develop intellectual, emotional, and leadership skills to navigate public health challenges, manage health organizations, and advocate for sustainable and equitable health solutions.
PO 8	<b>Lifelong Learning:</b> Cultivate a commitment to continuous learning, staying informed about emerging public health trends, research, and innovations to support ongoing professional development and improve public health practices.

### PROGRAMME SPECIFIC OUTCOME

Program Code	Program Objective
PO 1	Provide in-depth public health knowledge for practical application in various health settings.
PO 2	Develop critical thinking to analyze and solve public health issues.
PO 3	Equip students to make informed, evidence-based decisions.
PO 4	Foster research skills for impactful public health studies and interventions.
PO 5	Prepare students for leadership and teamwork in multidisciplinary public health sectors.
PO 6	Strengthen communication skills for effective public health advocacy.
PO 7	Instill ethical principles for responsible public health practice.
PO 8	Encourage lifelong learning for continuous professional development.

**SEMESTER I**

<b>MPH 101 T</b>	<b>Introduction to Human Biology, Public Health, Healthcare System in India &amp; Hospital Industry</b>	<b>Mapped POs</b>	<b>Teaching Learning Methodologies</b>	<b>Assessment Tools</b>
<b>CO1</b>	To understand human biology and the functions of various body systems.	PO1, PO8	Lecture, Group Discussion, Quiz, Assignment, Seminar	Internal Exam, University Exam (Theory Exam), Seminar, Assignment
<b>CO2</b>	To grasp knowledge about key public health issues and environmental health impacts.	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8	Lecture, Group Discussion, Quiz, Assignment, Seminar	Internal Exam, University Exam (Theory Exam), Seminar, Assignment
<b>CO3</b>	To gain insights into healthcare systems and policies in India and globally.	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8	Lecture, Group Discussion, Quiz, Assignment, Seminar	Internal Exam, University Exam (Theory Exam), Seminar, Assignment
<b>CO4</b>	To understand the hospital industry's regulations, challenges, and opportunities.	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8	Lecture, Group Discussion, Quiz, Assignment, Seminar	Internal Exam, University Exam (Theory Exam), Seminar, Assignment

<b>MPH 102 T</b>	<b>Introduction to Epidemiology and Demography</b>	<b>Mapped POs</b>	<b>Teaching Learning Methodologies</b>	<b>Assessment Tools</b>
<b>CO1</b>	To apply epidemiological methods, including study designs and screening tests, to understand and analyse public health issues.	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8	Lecture, Group Discussion, Quiz, Assignment, Seminar	Internal Exam, University Exam (Theory Exam), Seminar, Assignment
<b>CO2</b>	To understand and interpret epidemiological measures and study designs like cohort, case-control, and randomized control trials.	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8	Lecture, Group Discussion, Quiz, Assignment, Seminar	Internal Exam, University Exam (Theory Exam), Seminar, Assignment
<b>CO3</b>	To analyse demographic data and trends, including fertility, mortality, and migration, and use this information in public health planning and policy development.	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO8	Lecture, Group Discussion, Quiz, Assignment, Seminar	Internal Exam, University Exam (Theory Exam), Seminar, Assignment

<b>MPH 103 T</b>	<b>Introduction To Concepts &amp; Principles of Management and Business Communication</b>	<b>Mapped POs</b>	<b>Teaching Learning Methodologies</b>	<b>Assessment Tools</b>
<b>CO1</b>	To gain a solid understanding of management principles, which will help	PO1, PO2, PO3, PO4, PO5,	Lecture, Group Discussion, Quiz,	Internal Exam, University Exam

	students manage and improve performance in various industries.	PO6,PO7, PO8	Assignment, Seminar	(Theory Exam), Seminar, Assignment
<b>CO2</b>	To acquire practical skills in applying management functions (planning, organizing, staffing, directing, and controlling) to improve organizational efficiency.	PO1,PO2,PO3, PO4,PO5, PO6,PO7, PO8	Lecture, Group Discussion, Quiz, Assignment, Seminar	Internal Exam, University Exam (Theory Exam), Seminar, Assignment
<b>CO3</b>	To apply key management theories to real-world business challenges and decision-making processes.	PO1,PO2,PO3, PO4,PO5, PO6,PO7, PO8	Lecture, Group Discussion, Quiz, Assignment, Seminar	Internal Exam, University Exam (Theory Exam), Seminar, Assignment
<b>C04</b>	To demonstrate proficiency in business communication, including drafting professional business correspondence and delivering effective presentations.	PO1,PO2,PO3, PO4,PO5, PO6,PO7, PO8	Lecture, Group Discussion, Quiz, Assignment, Seminar	Internal Exam, University Exam (Theory Exam), Seminar, Assignment

<b>CC 001 T &amp; CC 001 P</b>	<b>Research Methodology &amp; Biostatistics (Core Course)</b>	<b>Mapped POs</b>	<b>Teaching Learning Methodologies</b>	<b>Assessment Tools</b>
<b>CO1</b>	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.	PO3 & PO8	Lecture, Practical, Journals	University Exam (Theory & Practical), Journal

<b>MPH 104 CP</b>	<b>Practice of Public Health (Basic)</b>	<b>Mapping POs</b>	<b>Teaching Learning Methodologies</b>	<b>Assessment Tools</b>
<b>CO1</b>	To acquire practical experience in implementing public health programs, improving their skills in health assessments and intervention design.	PO1,PO2,PO3, PO4,PO5, PO6,PO7, PO8	Field Postings, Camps, Family adaptation Program, presentations	University Exam (Project Presentation), Log book, Project book
<b>CO2</b>	To develop a deeper understanding of community health needs and gain proficiency in creating effective public health strategies.	PO1,PO2,PO3, PO4,PO5, PO6,PO7, PO8	Field Postings, Camps, Family adaptation Program, presentations	University Exam (Project Presentation), Log book, Project book

**SEMESTER II**

<b>MPH 105 T</b>	<b>Reproductive, Maternal, Child, Adolescent &amp; Geriatric Health</b>	<b>Mapping POs</b>	<b>Teaching Learning Methodologies</b>	<b>Assessment Tools</b>
<b>CO1</b>	To gain a comprehensive understanding of reproductive, maternal, and child health services and their effectiveness in India.	PO1,PO2,PO3, PO4,PO5, PO6,PO7, PO8	Lecture, Group Discussion, Quiz, Assignment, Seminar	Internal Exam, University Exam (Theory Exam), Seminar, Assignment
<b>CO2</b>	To develop the ability to analyse and address key adolescent health issues, such as teenage pregnancy, mental health, and anaemia.	PO1,PO2,PO3, PO4,PO5, PO6,PO7, PO8	Lecture, Group Discussion, Quiz, Assignment, Seminar	Internal Exam, University Exam (Theory Exam), Seminar, Assignment
<b>CO3</b>	To demonstrate proficiency in applying gender-sensitive approaches and promoting social inclusion in public health initiatives.	PO1,PO2,PO3, PO4,PO5, PO6,PO7, PO8	Lecture, Group Discussion, Quiz, Assignment, Seminar	Internal Exam, University Exam (Theory Exam), Seminar, Assignment
<b>CO4</b>	To be able to design and evaluate public health interventions that target health disparities among vulnerable groups.	PO1,PO2,PO3, PO4,PO5, PO6,PO7, PO8	Lecture, Group Discussion, Quiz, Assignment, Seminar	Internal Exam, University Exam (Theory Exam), Seminar, Assignment

<b>MPH 106 T</b>	<b>Epidemiology of Communicable And Non- Communicable Diseases</b>	<b>Mapping POs</b>	<b>Teaching Learning Methodologies</b>	<b>Assessment Tools</b>
<b>CO1</b>	To gain a solid understanding of the epidemiology of communicable and non-communicable diseases and their key determinants.	PO1,PO2,PO3, PO4,PO5, PO6,PO7, PO8	Lecture, Group Discussion, Quiz, Assignment, Seminar	Internal Exam, University Exam (Theory Exam), Seminar, Assignment
<b>CO2</b>	Learn to analyze disease transmission dynamics and apply control measures effectively in real-world settings.	PO1,PO2,PO3, PO4,PO5, PO6,PO7, PO8	Lecture, Group Discussion, Quiz, Assignment, Seminar	Internal Exam, University Exam (Theory Exam), Seminar, Assignment
<b>CO3</b>	To develop practical skills in surveillance, outbreak investigation, and evaluating immunization programs and adverse events.	PO1,PO2,PO3, PO4,PO5, PO6,PO7, PO8	Lecture, Group Discussion, Quiz, Assignment, Seminar	Internal Exam, University Exam (Theory Exam), Seminar, Assignment
<b>CO4</b>	To be able to design and implement strategies to prevent NCDs, recognizing their economic impact and links to communicable disease prevention.	PO1,PO2,PO3, PO4,PO5, PO6,PO7, PO8	Lecture, Group Discussion, Quiz, Assignment, Seminar	Internal Exam, University Exam (Theory Exam), Seminar, Assignment



<b>MPH 107 T</b>	<b>Health Planning, Health Management, Health Communication And Health Care</b>	<b>Mapping POs</b>	<b>Teaching Learning Methodologies</b>	<b>Assessment Tools</b>
<b>CO1</b>	To gain a thorough understanding of health policy frameworks and the roles of stakeholders in policy-making.	PO1,PO2,PO3, PO4,PO5, PO6,PO7, PO8	Lecture, Group Discussion, Quiz, Assignment, Seminar	Internal Exam, University Exam (Theory Exam), Seminar, Assignment
<b>CO2</b>	To develop practical skills in designing, implementing, and evaluating public health programs for disease prevention.	PO1,PO2,PO3, PO4,PO5, PO6,PO7, PO8	Lecture, Group Discussion, Quiz, Assignment, Seminar	Internal Exam, University Exam (Theory Exam), Seminar, Assignment
<b>CO3</b>	To apply strategic management tools to enhance public health policy and decision-making processes.	PO1,PO2,PO3, PO4,PO5, PO6,PO7, PO8	Lecture, Group Discussion, Quiz, Assignment, Seminar	Internal Exam, University Exam (Theory Exam), Seminar, Assignment
<b>CO4</b>	Assess and integrate innovations in public health, including the use of health technologies and public-private partnerships.	PO1,PO2,PO3, PO4,PO5, PO6,PO7, PO8	Lecture, Group Discussion, Quiz, Assignment, Seminar	Internal Exam, University Exam (Theory Exam), Seminar, Assignment
<b>CO5</b>	To be able to critically evaluate the effectiveness of health programs and policies in improving health outcomes across sectors.	PO1,PO2,PO3, PO4,PO5, PO6,PO7, PO8	Lecture, Group Discussion, Quiz, Assignment, Seminar	Internal Exam, University Exam (Theory Exam), Seminar, Assignment

<b>MPH 108 T</b>	<b>Health Economics</b>	<b>Mapping POs</b>	<b>Teaching Learning Methodologies</b>	<b>Assessment Tools</b>
<b>CO1</b>	To understand basic health economics concepts and their application in healthcare.	PO1,PO2,PO3, PO4,PO5, PO6,PO7, PO8	Lecture, Group Discussion, Assignment, Seminar	Internal Exam, University Exam (Theory Exam), Seminar, Assignment
<b>CO2</b>	To apply economic principles to analyze demand, supply, and costs in healthcare systems.	PO1,PO2,PO3, PO4,PO5, PO6,PO7, PO8	Lecture, Group Discussion, Assignment, Seminar	Internal Exam, University Exam (Theory Exam), Seminar, Assignment
<b>CO3</b>	To use economic evaluation tools like CBA and CEA to assess healthcare interventions.	PO1,PO2,PO3, PO4,PO5, PO6,PO7, PO8	Lecture, Group Discussion, Assignment, Seminar	Internal Exam, University Exam (Theory Exam), Seminar, Assignment
<b>CO4</b>	To grasp the significance of healthcare financing, reforms, and universal health coverage in improving systems.	PO1,PO2,PO3, PO4,PO5, PO6,PO7, PO8	Lecture, Group Discussion, Assignment, Seminar	Internal Exam, University Exam (Theory Exam), Seminar,

				Assignment
<b>MPH 109 CP</b>	<b>Practice of Public Health (Advance)</b>	<b>Mapping POs</b>	<b>Teaching Learning Methodologies</b>	<b>Assessment Tools</b>
CO1	To acquire practical experience in implementing public health programs, improving their skills in health assessments and intervention design.	PO1,PO2,PO3, PO4,PO5, PO6,PO7, PO8	Field Postings, Camps, Family adaptation Program, presentations	University Exam (Project Presentation), Log book, Project book
CO2	To develop a deeper understanding of community health needs and gain proficiency in creating effective public health strategies.	PO1,PO2,PO3, PO4,PO5, PO6,PO7, PO8	Field Postings, Camps, Family adaptation Program, presentations	University Exam
<b>SEC 001 T</b>	<b>Innovation and Entrepreneurship</b>	<b>Mapping POs</b>	<b>Teaching Learning Methodologies</b>	<b>Assessment Tools</b>
CO1	Students will grasp the concepts of innovation, its ecosystem, and the role of various stakeholders such as government policies, startups, and innovation hubs.	PO1,PO2,PO3, PO4,PO5, PO6,PO7, PO8	Lecture, Group Discussion, Assignment, Seminar	University Exam
CO2	Cultivating an entrepreneurial mindset and leadership qualities necessary for driving innovation and leading ventures.	PO1,PO2,PO3, PO4,PO5, PO6,PO7, PO8	Lecture, Group Discussion, Assignment, Seminar	University Exam
CO3	Understanding the intersection of technology and innovation and leveraging emerging technologies for entrepreneurial ventures.	PO1,PO2,PO3, PO4,PO5, PO6,PO7, PO8	Lecture, Group Discussion, Assignment, Seminar	University Exam
<b>SEC 002 T</b>	<b>One Health (NPTEL)</b>	<b>Mapping POs</b>	<b>Teaching Learning Methodologies</b>	<b>Assessment Tools</b>
<b>CO1</b>	A comprehensive understanding of One Health's role in global health challenges, emphasizing interconnectedness among human, animal, and environmental health.	PO1,PO2,PO3, PO4,PO5, PO6,PO7, PO8	E- Learning, Modules, Handouts	Online Exam (MCQs) (NPTEL)
<b>CO2</b>	Topics include research ethics, disease surveillance, and successes in controlling emerging infectious diseases.	PO1,PO2,PO3, PO4,PO5, PO6,PO7, PO8	E- Learning, Modules, Handouts	Online Exam (MCQs) (NPTEL)
<b>CO3</b>	Students explore disease emergence, transmission, antimicrobial resistance, and food safety, gaining insights into effective public health strategies.	PO1,PO2,PO3, PO4,PO5, PO6,PO7, PO8	E- Learning, Modules, Handouts	Online Exam (MCQs) (NPTEL)

**OUTLINE OF COURSE CURRICULUM****Master in Public Health (MPH)****Semester I**

Code No.	Core Course	Credits/Week					Hrs/Semester					Marks		
		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)	Semester End Exam (SEE)	Total
Discipline Specific Core Theory														
MPH 101 T	Introduction to Human Biology, Public Health, Health Care System in India & Hospital Industry	3	1	-	-	4	45	15	-	-	60	20	80	100
MPH 102 T	Introduction to Epidemiology & Demography	3	1	-	-	4	45	15	-	-	60	20	80	100
MPH 103 T	Introduction to Concepts & Principles of Management and Business Communication	3	1	-	-	4	45	15	-	-	60	20	80	100
CC 001 T	Research Methodology & Biostatistics (Core Course)	3	-	-	-	3	45	-	-	-	45	-	50	50
Discipline Specific Core Practical														
MPH 104 CP	Practice of Public Health (Basic)	-	-	-	15	5	-	-	-	225	225	-	50	50
CC 001 P	Research Methodology & Biostatistics (Core Course)	-	-	4	-	2	-	-	60	-	60	-	50	50
Total		12	3	4	15	22	180	45	60	225	510	60	390	450

**OUTLINE OF COURSE CURRICULUM****Master in Public Health (MPH)****Semester II**

Code No.	Core Course	Credits/Week					Hrs/Semester					Marks		
		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)	Semester End Exam (SEE)	Total
Discipline Specific Core Theory														
MPH 105 T	Reproductive, Maternal, Child, Adolescent & Geriatric Health	3	1	-	-	4	45	15	-	-	60	20	80	100
MPH 106 T	Epidemiology of Communicable & Non-Communicable Diseases	3	-	-	-	3	45	-	-	-	45	20	80	100
MPH 107 T	Health Planning, Health Management, Health Communication & Health Care	3	1	-	-	4	45	15	-	-	60	20	80	100
MPH 108 T	Health Economics	2	-	-	-	2	30	-	-	-	30	10	40	50
Discipline Specific Core Practical														
MPH 109 CP	Practice of Public Health (Advance)	-	-	-	18	6	-	-	-	270	270	-	50	50
Skill Ehancement Course														
SEC 001 T	Innovation and Enterpremarship	3	-	-	-	3	45	-	-	-	45	-	50	50
SEC 002 T	One Health (NPTEL)													
Total		14	2	0	18	22	210	30	0	270	510	70	380	450