PROGRAM OUTCOME (POs)	
Course Code	**M.OPOMETRY**
PO1	**Knowledge Enhancement:** A keen understanding of vision sciences and should demonstrate proficiency in advanced optometric management .
PO2	**Skill Enhancement:** Master the practical skill set required for optometric screening, diagnosis, management, and rehabilitation of various ocular conditions
PO3	**Communication Skills:** Develop Interpersonal competence in eye care services with patients and other professionals.
PO4	**Critical Thinking & Trouble Shooting:** Identify and analyze the complexity of a problem and use knowledge and skill to solve it.
PO5	**Patient Care:** Demonstrate proficiency in understanding and catering dedicated optometric eye care services to patients.
PO6	**Community Eyecare:** Organize and Participate in various outreach activities (Camps & Awareness Program) for providing optometric eye care services to the community.
PO7	**Optometry Speciality & Entrepreneurship:**Update clinical knowledge and develop specialized skill sets across various disciples of optometry with an entrepreneurial approach to start and manage a successful optometry practice.
PO8	**Entusiasm for Research:** Demonstrate a through understanding of research techniques analysis of scientific literature,able to conduct quality research work in order to contribute significantly in evidence-based practices of optometry.
PO9	**Professional Ethics:** Adhere to the ethical guidelines of integrity, objectivity, confidentiality, competency, behavior, and accountability in optometric clinical practice and research work.
PO10	**Leadership & Team Work:** Effectively manage clinical situations and exhibit visionary goal setting, conflict resolution, decision-making, problem-solving, and fostering Interdisciplinary collaborative practice.
PO11	**Collaboration with Different Healthcare Professionals:** Crucial for delivering high-quality patient care which includes enhanced communication, better resource utilization, innovation, problem-solving & communicating with different healthcare professionals for improved patient outcomes.
PO12	**Holistic Development:** Comprehensive development in the areas of self-awareness, Emotional intelligence, stress management, and Time management.
PROGRAM SPECIFIC OUTCOME (SPOs)	
Course Code	**M.OPOMETRY**
SPO1	Develop advanced clinical expertise in diagnosing various ocular conditions.
SPO2	Able to efficiently use advanced optometric instruments for diagnostics
SPO3	Develop proficiency in specialized fields of optometry which includes Contact lenses, Binocular Vision ,Pediatric Optometry, Low vision , Dispensing, Neurooptometry and Applied Vision Therapy.
SPO4	Gain specialized knowledge and skills in handleing complex case senarios
SPO5	Able to conduct high-quality research that contributes to the scientific literature in the field of optometry.
SPO6	Collaborate with multidisciplinary healthcare professionals
SPO 7	Able to take informed clinical decisions for evidence-based best practices
SPO8	Understands the ethical and legal considerations in optometry practice
SPO9	Develop leadership qualities and play a role in public eye health initiatives, and understanding the societal and global implications of vision impairment,
Course Outcomes (COs)	
Course Code	**M.Optometry**
SEMESTER I	
MOPTOM 101 T	**Epidemiology Public health & Community Eye Health**
CO1	Develope a thorough understanding of epidemiological concepts,study design and its implications in research and to know the Concept of Health and Disease
CO2	Demonstrate a better understanding of Health Information and Basic Medical Statistics, Communication for Health Education, Health Planning and Management, Health care of community
CO3	Well-versed with the concept of visual impairment,its causes,national and global burdern,Preventive stratergies,screening programe, Regulatory international and national bodies and their initaive
CO4	Able to comprehend epidemiological research article and exhibit practical skills for organising community outreach programe
MOPTOM 102 T	**Anterior Segment Diseases & Dignostic**
CO1	Develop a through understanding of anatomical considerations of anterior segment structures.
CO2	Able to understand the clinical presentation, formulate differential diagnosis of anterior segment anomalies
CO3	Demonstrate competent skills in anterior segment evaluation.

CC 001 T	**Research Methodology & Biostatistics (Core Course)**
CO1	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.
MOPTOM 103 P	**Epidemiology Public health & Community Eye Health**
CO1	Develope a thorough understanding of epidemiological concepts,study design and its implications in research and to know the Concept of Health and Disease
CO2	Demonstrate a better understanding of Health Information and Basic Medical Statistics, Communication for Health Education, Health Planning and Management, Health care of community
CO3	Well-versed with the concept of visual impairment,its causes,national and global burdern,Preventive stratergies,screening programe, Regulatory international and national bodies and their initaive
CO4	Able to comprehend epidemiological research article and exhibit practical skills for organising community outreach programe
MOPTOM 104 P	**Anterior Segment Diseases & Dignostic**
CO1	Develop a through understanding of anatomical considerations of anterior segment structures.
CO2	Able to understand the clinical presentation, formulate differential diagnosis of anterior segment anomalies
CO3	Demonstrate competent skills in anterior segment evaluation.
MOPTOM 105 CP	**MOPTOM Directed Clinical Education-I**
CO1	The primary focus is on developing students' clinical skills, diagnostic abilities, and patient care expertise through supervised training in the real world clinical settings. Students should be able to demonstrate proficiency in comprehensive eye examinations,specialized optometric procedures , Interpret clinical findings for formulating management statergies and to co manage the conditions with a multidisciplinary apporach utilizing critical discession making and problem solving skills while exhibiting professional and ethical behavior in clinical settings.
CC 001 P	**Research Methodology & Biostatistics (Core Course)**
CO1	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.
SEMESTER II	
MOPTOM 106 T	**Posterior Segment Diseases & Dignostic**
CO1	Develop a through understanding of anatomical considerations of posterior segment structures.
CO2	Able to understand the clinical presentation, formulate differential diagnosis of posterior segment anomalies
CO3	Demonstrate competent skills in posterior segment evaluation.
MOPTOM 107 T	**Advanced Contact Lenses**
CO1	Have a through understandings of basic concepts of contact lenses and identify the potential contact lens patients
CO2	Demonstrate competent skills in RGP, Soft Contact Lens Fitting and Evaluation, Ordering and verification of lenses.
CO3	Well-versed with the concept of contact lens care and maintenance and complications.
CO4	Able to train patients for contact lens use and have a through understanding of contact lens market availability
MOPTOM 108 T	**Binocular Vision and Pediatric Optometry**
CO1	Develop a through understanding regarding anatomical and physiological aspect of visual development
CO2	Able to understand the clinical presentation, formulate differential diagnosis of Pediatric Ocular Diseases
CO3	Demonstrate competent skills in evaluating binocular vision parameters and identifying its anomalies
CO4	Have a through understandings of Management guidelines for above anomalies
MOPTOM 109 T	**Low vision and Rehablitation**
CO1	Have a through understandings of basic concepts of Low vision and identify the potential low vision patient.
CO2	Well-versed with the legal aspect of Low Vision
CO3	Able to understand the clinical presentation and efficiently evaluate and analyse a Low vision case
CO4	Demonstrate competent skills in providing rehablitation training
MOPTOM 110 P	**Posterior Segment Diseases & Dignostic**
CO1	Develop a through understanding of anatomical considerations of posterior segment structures.
CO2	Able to understand the clinical presentation, formulate differential diagnosis of posterior segment anomalies
CO3	Demonstrate competent skills in posterior segment evaluation.
MOPTOM 111 P	**Advanced Contact Lenses**
CO1	Have a through understandings of basic concepts of contact lenses and identify the potential contact lens patients
CO2	Demonstrate competent skills in RGP, Soft Contact Lens Fitting and Evaluation, Ordering and verification of lenses.

CO3	Well-versed with the concept of contact lens care and maintenance and complications.
CO4	Able to train patients for contact lens use and have a through understanding of contact lens market availability
MOPTOM 112 P	**Binocular Vision and Pediatric Optometry**
CO1	Develop a through understanding regarding anatomical and physiological aspect of visual development
CO2	Able to understand the clinical presentation, formulate differential diagnosis of Pediatric Ocular Diseases
CO3	Demonstrate competent skills in evaluating binocular vision parameters and identifying its anomalies
CO4	Have a through understandings of Management guidelines for above anomalies
MOPTOM 113 P	**Low vision and Rehablitation**
CO1	Have a through understandings of basic concepts of Low vision and identify the potential low vision patient.
CO2	Well-versed with the legal aspect of Low Vision
CO3	Able to understand the clinical presentation and efficiently evaluate and analyse a Low vision case
CO4	Demonstrate competent skills in providing rehablitation training
MOPTOM 114 CP	**MOPTOM Directed Clinical Education-II**
CO1	The primary focus is on developing students' clinical skills, diagnostic abilities, and patient care expertise through supervised training in the real world clinical settings. Students should be able to demonstrate proficiency in comprehensive eye examinations,specialized optometric procedures , Interpret clinical findings for formulating management statergies and to co manage the conditions with a multidisciplinary apporach utilizing critical discession making and problem solving skills while exhibiting professional and ethical behavior in clinical settings.
SKILL EHANCEMENT COURSE	
SEC 001 T	**Innovation and Enterprenuarship**
CO1	Students will grasp the concepts of innovation, its ecosystem, and the role of various stakeholders such as government policies, startups, and innovation hubs.
CO2	Cultivating an entrepreneurial mindset and leadership qualities necessary for driving innovation and leading ventures.
CO3	Understanding the intersection of technology and innovation and leveraging emerging technologies for entrepreneurial ventures.
SEC 002 T	**Science Communication: Research Productivity and Data Analytics using Open Source Software (NPTEL)**
CO1	Develop clear and concise scientific reports, presentations, and visualizations.
CO2	Apply open-source tools for research documentation and publication.
CO3	Understand the principles of Open Science and its impact on research dissemination.

MGM SCHOOL OF BIOMEDICAL SCIENCES, NAVI MUMBAI
(A constituent unit of MGM INSTITUTE OF HEALTH SCIENCES)
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CO PO Mapping
Programe - M.Optometry
Semester I and II

PO1	**Knowledge enhancement:** A keen understanding of vision sciences and should demonstrate proficiency in advanced optometric management .
PO2	**Skill enhancement:** Master the practical skill set required for optometric screening, diagnosis, management, and rehabilitation of various ocular conditions
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PO11	**Collaboration with different healthcare professionals:** Crucial for delivering high-quality patient care which includes enhanced communication, better resource utilization, innovation, problem-solving & communicating with different healthcare professionals for improved patient outcomes.
PO12	**Holistic development:** Comprehensive development in the areas of self-awareness, Emotional intelligence, stress management, and Time management.

PO Mapping with correlation level 3,2,1 The notation of 1 - low, 2 - moderate , 3 - high

Semester	Course / Course Code	Course Outcome	Course Outcome	Knowledge Enhancement	Skill Enhancement	Communication Skills	Critical Thinking & Trouble Shooting	Patient Care	Community Eyecare	Optometry Speciality & Entrepreneurship	Enthusiasm for Research	Professional Ethics	Leadership & Team Work	Collaboration with Different Healthcare Professionals	Holistic Development	Average
				PO1	P02	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
Semester I	Epidemiology Public health & Community Eye Health (MPOTOM 101 T)	CO1	Develope a thorough understanding of epidemiological concepts, study design and its implications in research and to know the Concept of Health and Disease	3	_	_	1	_	3	1	3	2	_	_	_	2.17
		CO2	Demonstrate a better understanding of Health Information and Basic Medical Statistics, Communication for Health Education, Health Planning and Management, Health care of community	3	_	3	2	2	3	1	2	2	_	1	_	2.11
		CO3	Well-versed with the concept of visual impairment, its causes, national and global burden, Preventive strategies, screening programe, Regulatory international and national bodies and their initiative.	3	2	1	2	3	3	2	2	2	_	3	_	2.30
		CO4	Able to comprehend epidemiological research article and exhibit practical skills for organizing community outreach programe.	2	3	3	3	3	3	2	2	3	3	3	_	2.73
		Average		2.75	2.5	2.33	2	2.67	3	1.5	2.25	2.25	3	2.33	_	2.33
	Anterior Segment Diseases & Diagnostic (MPOTOM 102 T)	CO1	Develop a thorough understanding of anatomical considerations of anterior segment structures.	3	_	_	1	_	_	2	2	_	_	_	_	2.00
		CO2	Able to understand the clinical presentation, formulate differential diagnosis of anterior segment anomalies	3	3	_	3	3	3	2	2	2	1	2	_	2.40
		CO3	Demonstrate competent skills in anterior segment evaluation.	3	3	3	3	3	3	2	2	3	2	2	_	2.64
		Average		3	3.00	3	2.33	3.00	3.00	2.00	2.00	2.50	1.50	2	_	2.35

	MOPTOM Directed Clinical Education-I (MPOTOM 105 CP)	CO1	The primary focus is on developing students' clinical skills, diagnostic abilities, and patient care expertise through supervised training in the real-world clinical settings. Students should be able to demonstrate proficiency in comprehensive eye examinations, specialized optometric procedures, interpret clinical findings for formulating management strategies and to co-manage the conditions with a multidisciplinary approach utilizing critical decision making and problem-solving skills while exhibiting professional and ethical behavior in clinical settings.	3	3	3	3	3	3	2	_	3	3	2	1	2.64
		Average		3	3	3	3	3	3	2	_	3	3	2	1	
	Research Methodology & Biostatistics (Core Course) (CC001 T)	CO1	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.	3	_	1	2	_	_	1	3	1	_	1	_	1.71
		Average		3	_	1	2	_	_	1	3	1	_	1	_	
Semester II	**Posterior Segment Diseases & Dignostic (MOPTOM 106 T)**	CO1	Develop a thorough understanding of anatomical considerations of posterior segment structures.	3	_	_	1	_	_	2	2	_	_	_	_	2.00
		CO2	Able to understand the clinical presentation, formulate differential diagnosis of posterior segment anomalies.	3	3	_	3	3	3	2	2	2	1	2	_	2.40
		CO3	Demonstrate competent skills in posterior segment evaluation.	3	3	3	3	3	3	2	2	3	2	2	_	2.64
		Average		3	3.00	3	2.33	3.00	3.00	2.00	2.00	2.50	1.50	2	_	2.35
	Advanced Contact Lenses (MOPTOM 107 T)	CO1	Have a thorough understanding of basic concepts of contact lenses and identify the potential contact lens patients	3	3	2	_	2	_	3	2	3	2	2	_	2.44
		CO2	Demonstrate competent skills in RGP, Soft Contact Lens Fitting and Evaluation, Ordering, and verification of lenses.	3	3	3	3	3	3	3	2	3	2	3	_	2.82
		CO3	Well-versed with the concept of contact lens care and maintenance and complications.	3	3	3	3	3	_	3	2	2	_	2	_	2.67
		CO4	Able to train patients for contact lens use and have a thorough understanding of contact lens market availability	3	3	3	3	3	_	3	_	3	3	3	_	3
		Average		3	3	2.75	3	2.75	3	3	2	2.75	2.33	2.50	_	2.73
	Binocular Vision and Pediatric Optometry (MOPTOM 108 T)	CO1	Develop a thorough understanding regarding anatomical and physiological aspect of visual development	3	1	_	2	_	_	_	1	_	_	_	_	1.75
		CO2	Able to understand the clinical presentation, formulate differential diagnosis of Pediatric Ocular Diseases.	3	3	1	3	3	2	2	2	2	2	2	_	2.27
		CO3	Demonstrate competent skills in evaluating binocular vision parameters and identifying its anomalies.	3	3	1	3	3	2	2	2	2	2	2	_	2.27
		CO4	Have a thorough understandings of Management guidelines for above anomalies.	3	3	2	3	3	2	3	2	3	2	3	_	2.64
		Average		3	2.50	1.33	2.75	3	2	2.33	1.75	2.33	2	2.33	_	2.23
	Low Vision and Rehablitation (MOPTOM 109 T)	CO1	Have a thorough understandings of basic concepts of Low vision and identify the potential low vision patient.	3	2	_	2	2	2	3	1	2	1	2	1	1.91
		CO2	Well-versed with the legal aspect of Low Vision	3	_	3	_	2	2	1	2	3	2	3	1	2.20
		CO3	Able to understand the clinical presentation and efficiently evaluate and analyse a Low vision case	3	3	3	3	3	2	3	2	3	2	1	_	2.55
		CO4	Demonstrate competent skills in providing rehablitation training	3	3	3	2	3	3	2	2	3	3	2	1	2.5
		Average		3	2.67	3	2.33	2.50	2.25	2.25	1.75	2.75	2	2	1	2.29
	MOPTOM Directed Clinical Education-II (MOPTOM 114 CP)	CO1	The primary focus is on developing students' clinical skills, diagnostic abilities, and patient care expertise through supervised training in the real-world clinical settings. Students should be able to demonstrate proficiency in comprehensive eye examinations, specialized optometric procedures, interpret clinical findings for formulating management strategies and to co-manage the conditions with a multidisciplinary approach utilizing critical decision making and problem-solving skills while exhibiting professional and ethical behavior in clinical settings.	3	3	3	3	3	3	2	_	3	3	2	1	2.64
		Average		3	3	3	3	3	3	2	_	3	3	2	1	2.64
	Innovation and Entrepreneurship (SEC 001 T)	CO1	Students will grasp the concepts of innovation, its ecosystem, and the role of various stakeholders such as government policies, startups, and innovation hubs.	3	_	2	3	1	_	2	2	2	1	3	_	2.11
		CO2	Cultivating an entrepreneurial mindset and leadership qualities necessary for driving innovation and leading ventures.	3	_	1	2	_	_	3	3	2	3	3	1	2.33
		CO3	Understanding the intersection of technology and innovation and leveraging emerging technologies for entrepreneurial ventures.	3	3	1	3	1	1	2	2	2	2	2	1	1.92

		Average	3	_	1.33	2.67	1.00	1	2.33	2.33	2	2.00	2.67	1.00	1.94
	Science Communication: Research Productivity and Data Analytics using Open Source Software (NPTEL) (SEC 002 T)	CO1 Develop clear and concise scientific reports, presentations, and visualizations.	3	_	3	1	_	_	_	3	_	_	_	_	2.50
		CO2 Apply open-source tools for research documentation and publication.	3	_	_	_	_	_	_	3	2	_	1	_	2.25
		CO3 Understand the principles of Open Science and its impact on research dissemination.	3	_	_	1	_	_	_	3	2	_	_	_	2.25
		Average	3	_	3	1	_	_	_	3	2	_	1	1	2.33