

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 handling 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.Optomerty
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 strategies,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	Develop 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 strategies,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 aporach 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 Rehabilitation
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 rehabilitation 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 Rehabilitation
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 rehabilitation 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 strategies and to co manage the conditions with a multidisciplinary approach utilizing critical discussion making and problem solving skills while exhibiting professional and ethical behavior in clinical settings.
SKILL ENHANCEMENT COURSE	
SEC 001 T	Innovation and Entrepreneurship
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
Programme - M.Optomtry
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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PO8	Enthusiasm 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.
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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.

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	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12		
Semester I	Epidemiology Public health & Community Eye Health (MPOTOM 101 T)	CO1	Develop 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 programme, 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	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	–	2.64
		Average				3	3.00	3	2.33	3.00	3.00	2.00	2.00	2.50	1.50	2	–

	MOPTOM Directed Clinical Education-I (MPOptom 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
	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 Rehabilitation (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 rehabilitation 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
		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

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PO3	Communication skills: Develop Interpersonal competence in eye care services with patients and other professionals.
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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	Enthusiasm 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.Optomtry
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, Geriatric Optometry, Low vision , Dispensing, Neurooptometry and Applied Vision Therapy.
SPO4	Gain specialized knowledge and skills in handling 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.Optomtry
SEMESTER III	
MOPTOM 115 T	Advanced Dispensing Optics
CO1	Apply knowledge of ophthalmic lens materials, designs, coatings, and their optical performance.

CO2	Understand, recommend special lenses design and evaluate frame styles, ergonomics, and eye wear suitability as per patient's requirement.
CO3	Have a thorough understandings and interpretation of industry standards, quality control of lenses and frame.
MOPTOM 116 T	Speciality Contact Lenses
CO1	Demonstrate understanding of advanced contact lens designs, their application and patient selection.
CO2	Thorough understanding of ocular anatomy and physiology for specialty lens fittings.
CO3	Identify, explain, and manage complications related to contact lens wear, and have a better understanding of contact lens care & maintenance.
CO4	Demonstrate awareness of evidence-based practices, recent advancements, and legal considerations in contact lens care.
MOPTOM 117 T	Visual Perception, Neuroscience and Psychophysics
CO1	Develop a comprehensive understanding of the neural mechanisms underlying vision and the coordinated development of the eye and brain.
CO2	Demonstrate understanding regarding the psychophysical visual performance evaluation.
CO3	Analyse perceptual processes and apply neuroscience research findings to clinical optometry.
MOPTOM 118	Research Project/ Dissertation
CO1	Formulate a research problem with clearly defined objectives, conduct a critical literature review, design an appropriate methodology with suitable data tools, and prepare a proposal for ethical approval.
CO2	Systematically collect and Analyse data.
MOPTOM 119 P	Advanced Dispensing Optics
CO1	Demonstrate skills in verifying lens power, axis, and quality using lensometers and other tools.
CO2	Perform accurate facial measurements and be able to select and adjust frames for optimal fit and comfort.
CO3	Demonstrate dispensing of special lenses eg: bifocals, occupational, progressive, prism, safety.
MOPTOM 120 P	Speciality Contact Lenses
CO1	Able to fit specialty contact lenses and assess lens performance.
CO2	Educate patients on lens handling, hygiene and effectively manage lens complications.
MOPTOM 121 CP	MOPTOM Directed Clinical Education-III
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.
SEMESTER IV	
MOPTOM 122 T	Applied Vision Therapy
CO1	Well versed with the principles, models, and concept of vision therapy.
CO2	Demonstrate understanding regarding, relationship between various binocular conditions and visual skills, performance indicator, Sensory Integration and Sensory Motor integration.
CO3	Able to apply evidence-based practices, management strategies, and standardized protocols in vision therapy for various conditions.
MOPTOM 123 P	Applied Vision Therapy
CO1	Perform diagnostic tests for various non strabismic binocular vision dysfunction.
CO2	Able to formulate and conduct assessment for diagnosis of special conditions.
CO3	Design and conduct vision therapy programs, and maintain record, monitor, and interpret therapy outcomes.

MOPTOM 124 CP	MOPTOM Directed Clinical Education-IV
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.
MOPTOM 118	Research Project/ Disserration
CO1	Collect and analyse research data with appropriate statistical methods and interpret results.
CO2	Able to prepare a structured dissertation with critical discussion and defend findings in viva-voce/presentation.



MGM SCHOOL OF BIOMEDICAL SCIENCES, NAVIMUMBAI
 (A constituent unit of MGM INSTITUTE OF HEALTH SCIENCES)
 (Deemed University u/s 3 of UGC Act 1956)
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CO PO Mapping
Programme - M.Optomtry
Semester III and IV

- PO1 **Knowledge enhancement:** A keen understanding of vision sciences and should demonstrate proficiency in advanced optometric management.
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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	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
Semester III	Advanced Dispensing Optics (MOPTOM 115 T)	CO1	Apply knowledge of ophthalmic lens materials, designs, coatings, and their optical performance.	3	1	1	3	2	2	3	2	2	1	1	1	1.83
		CO2	Understand, recommend special lenses design and evaluate frame styles, ergonomics, and eye wear suitability as per patient's requirement.	3	2	3	3	3	2	2	2	2	1	1	1	2.08
		CO3	Have a thorough understandings and interpretation of industry standards, quality control of lenses and frame.	3	2	1	3	3	1	2	1	2	1	2	1	1.83
		Average		3	1.67	1.67	3	2.67	1.67	2.33	1.67	2	1	1.3	1	1.92
	Speciality Contact Lenses (MOPTOM 116 T)	CO1	Demonstrate understanding of advanced contact lens designs, their application and patient selection.	3	2	1	2	3	1	3	3	1	2	1	1	1.92
		CO2	Thorough understanding of ocular anatomy and physiology for speciality lens fittings.	3	3	1	3	3	1	2	3	2	1	2	1	2.08
		CO3	Identify, explain, and manage complications related to contact lens wear, and have a better understanding of contact lens care & maintenance.	3	3	3	3	3	1	2	3	3	2	2	1	2.42
		CO4	Demonstrate awareness of evidence-based practices, recent advancements, and legal considerations in contact lens care.	3	3	2	3	3	1	3	3	3	2	2	2	2.50
	Average		3	2.75	1.75	2.75	3.00	1.00	2.50	3.00	2.25	1.8	1.75	1.25	2.14	
	Visual Perception, Neuroscience and Psychophysics (MOPTOM 117 T)	CO1	Develop a comprehensive understanding of the neural mechanisms underlying vision and the coordinated development of the eye and brain.	3	3	2	3	2	3	2	3	2	1	2	1	2.25
		CO2	Demonstrate understanding regarding the psychophysical visual performance evaluation.	3	3	2	3	2	3	3	3	2	2	2	1	2.42
		CO3	Analyse perceptual processes and apply neuroscience research findings to clinical optometry.	3	3	2	3	2	3	3	3	2	2	3	2	2.58
		Average		3	3	2.00	3	2.00	3	2.67	3	2	1.67	2.3	1.33	2.42
	Research Project/ Dissertation (MOPTOM 118)	CO1	Formulate a research problem with clearly defined objectives, conduct a critical literature review, design an appropriate methodology with suitable data tools, and prepare a proposal for ethical approval.	3	3	3	3	2	3	2	3	3	3	3	2	2.75
		CO2	Systematically collect and analyse data.	3	3	3	3	2	3	2	3	3	3	3	2	2.75
		Average		3	3	3.00	3	2.00	3	2	3	3	3	3.0	2	2.75

	Advanced Dispensing Optics (MOPTOM 119 P)	CO1	Demonstrate skills in Verifying lens power, axis, and quality using lensometers and other tools.	3	3	2	3	2	2	3	2	2	2	1	2	2.25		
		CO2	Perform accurate facial measurements and be able to select and adjust frames for optimal fit and comfort.	3	3	3	3	3	2	3	2	3	2	3	2	1	2	2.50
		CO3	Demonstrate dispensing of special lenses eg: bifocals, occupational, progressive, prism, safety.	3	3	3	3	3	3	3	3	2	3	3	3	2	2	2.75
		Average			3	3	2.67	3	2.67	2.33	3	2	2.67	2.33	1.3	2	2.50	
	Speciality Contact Lenses (MOPTOM 120 P)	CO1	Able to fit specialty contact lenses and assess lens performance.	3	3	3	3	3	1	3	3	3	2	2	2	2	2.58	
		CO2	Educate patients on lens handling, hygiene and effectively manage lens complications.	3	3	3	3	3	1	3	3	3	2	2	2	2	2.58	
		Average			3	3	3.00	3	3.00	1	3	3	3	2	2.0	2	2.58	
	MOPTOM Directed Clinical Education-III (MOPTOM 121 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	1	3	3	2	1	1	2.50	
		Average			3	3	3	3	3	3	2	1	3	3	2	1	2.50	
	SEMESTER IV	Applied Vision Therapy (MOPTOM 122 T)	CO1	Well versed with the principles, models, and concept of vision therapy.	3	3	2	2	3	1	3	3	2	2	2	1	2.25	
CO2			Demonstrate understanding regarding, relationship between various binocular conditions and visual skills, performance indicator, Sensory Integration and Sensory Motor integration.	3	3	1	2	2	2	3	3	2	3	2	2	1	2.25	
CO3			Able to apply evidence-based practices, management strategies, and standardized protocols in vision therapy for various conditions.	3	3	2	3	2	1	3	3	2	3	3	3	1	2.42	
Average			3	3.00	1.67	2.33	2.33	1.33	3.00	3.00	2.00	2.7	2.33	1	2.25			
Applied Vision Therapy (MOPTOM 123 P)		CO1	Perform diagnostic tests for various non-stabimic binocular vision dysfunction.	3	3	2	3	3	2	3	2	3	2	2	1	2.42		
		CO2	Able to formulate and conduct assessment for diagnosis of special conditions.	3	3	3	3	3	2	3	2	3	2	2	1	2.50		
		CO3	Design and conduct vision therapy programs, and maintain record, monitor, and interpret therapy outcomes.	3	3	3	3	3	1	3	3	3	2	3	1	2.58		
		Average			3	3	2.67	3	3	1.67	3	2.33	3	2.00	2.33	1	2.50	
MOPTOM Directed Clinical Education-IV (MOPTOM 124 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	1	3	3	2	1	1	2.50	
		Average			3	3	3	3	3	3	2	1	3	3	2	1	2.50	
Research Project/ Dissertation (MOPTOM 118)		CO1	Collect and analyse research data with appropriate statistical methods and interpret results.	3	3	3	3	2	3	2	3	3	3	3	2	2	2.75	
		CO2	Able to prepare a structured dissertation with critical discussion and defend findings in viva-voce/presentation.	3	3	3	3	2	3	2	3	3	3	3	2	2	2.75	
		Average			3	3	3.00	3.00	2.0	3	2.00	3.00	3	3.00	3.00	2.00	2.75	