PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8	Knowledge Enhancement: A keen understanding of vision sciences and should demonstrate proficiency in advanced optometric management. Skill Enhancement: Master the practical skill set required for optometric screening, diagnosis, management, and rehabilitation of various ocular conditions Communication Skills: Develop Interpersonal competence in eye care services with patients and other professionals. Critical Thinking & Trouble Shooting: Identify and analyze the complexity of a problem and use knowledge and skill to solve it. Patient Care: Demonstrate proficiency in understanding and catering dedicated optometric eye care services to patients. Community Eyecare: Organize and Participate in various outreach activities (Camps & Awareness Program) for providing optomet eye care services to the community. Optometry Speciality & Entrepreneurship: Update clinical knowledge and develop specialized skill sets across various disciples o optometry with an entrepreneurial approach to start and manage a successful optometry practice. Entusiasm for Research: Demonstrate a through understanding of research techniques analysis of scientific literature, able to conduquality research work in order to contribute significantly in evidence-based practices of optometry.
PO2 PO3 PO4 PO5 PO6 PO7 PO8	management . Skill Enhancement: Master the practical skill set required for optometric screening, diagnosis, management, and rehabilitation of various ocular conditions Communication Skills: Develop Interpersonal competence in eye care services with patients and other professionals. Critical Thinking & Trouble Shooting: Identify and analyze the complexity of a problem and use knowledge and skill to solve it. Patient Care: Demonstrate proficiency in understanding and catering dedicated optometric eye care services to patients. Community Eyecare: Organize and Participate in various outreach activities (Camps & Awareness Program) for providing optomet eye care services to the community. Optometry Speciality & Entrepreneurship: Update clinical knowledge and develop specialized skill sets across various disciples o optometry with an entrepreneurial approach to start and manage a successful optometry practice. Entusiasm for Research: Demonstrate a through understanding of research techniques analysis of scientific literature, able to condu
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PO8	optometry with an entrepreneurial approach to start and manage a successful optometry practice. Entusiasm for Research: Demonstrate a through understanding of research techniques analysis of scientific literature, able to condu
PO9	
	Professional Ethics: Adhere to the ethical guidelines of integrity, objectivity, confidentiality, competency, behavior, and accountable 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 SPO9	Understands the ethical and legal considerations in optometry practice Develop leadership qualities and play a role in public eye health initiatives, and understanding the societal and global implications of
3109	vision impairment,
	Course Outcomes (COs)
Course Code	M.Optometry
	SEMESTER I
	Epidemiology Public health & Community Eye Health Develope a thorough understanding of epidemiological concepts, study design and its implications in research and to know the Conc
CO1	of Health and Disease
CO2	Demonstrate a better understanding of Health Information and Basic Medical Statistics, Communication for Health Education, Heal 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.

COL Student will be able to understand develop statistical models, research designs with the understating of background theory of various commonly used statistical echanges as well as analysis, interpretation & sporting of results and use of statistical software. MOPTOM 182 P. Epideminiage Publis health & Community Exp Health COL COL Demonstrate a better understanding of Health Information and Basic Medical Statistics, Communication for Health Education, Health Pulming and Management, Health are of community Well-versed with the concept of visual impairment, its causes, national and global burdern/Preventive strategies, screening programs, Regulatory international and auticulo besides and their intains. Well-versed with the concept of visual impairment, its causes, national and global burdern/Preventive strategies, screening programs, Regulatory international and auticulo besides and their intains. Well-versed with the concept of visual impairment, its causes, national and global burdern/Preventive strategies, screening programs, Regulatory international and auticulous besides and their intains. Well-versed with the concept of visual impairment, its causes, national and global pulments. OCC 101 Locksport allowed pulments and the strategies and child impairments and statistics. Support of the strategies, and the strategies. WOPTOM 185 CP Able to understand the clinical presentation. Formulate distinct, and patient case expertise through supervised training in the rain world editorial extension, such as the strategies and the strategies and the strategies and the communities of the rain world editorial extension studies and seal and strategies and to communities of the rain world editorial extension and activates opportunity used statistical extension and strategies and the strategies and the strategies and the clinical presentation of the prevention of posterior segment structures. COL 102 Except Methodology & Historiati	CC 001 T	Research Methodology & Riostatistics (Caro Caurso)
COU Develope a thorough such statistical rechallupses as well as analysis, interpretation & reporting of results and use of statistical software. MOPTOM 103.P Epidemiology Public health & Community Eve Health COI Develope a thorough understanding of epidemiological concepts, study design and its implications in research and to know the Concept CO2 Demonstrate a Sector understanding of Publish Information and Basic Medical Statistics, Communication for Health Education, Health Planning and Minamement. Health acts of community Well-vesced with the concept of visual impairmentatic assess, autional and global banderan/Preventive stratergies, servering programs, Regulatory international and autional bodies and their intains; assess, autional and global banderan/Preventive stratergies, servering programs, Regulatory international and autional bodies and their intains; assess, autional and global banderan/Preventive stratergies, servering programs, Regulatory international and autional bodies and their intains; assess, autional and global banderan/Preventive stratergies, servering programs, Regulatory international and autional bodies and their intains; assessment of the control of the presentations, formalise defendental diagnosis of auterors experted amounties. CO3 Develop a through understanding of manifesting and problems obving skills within exhibiting professional and ethical formal skills, diagnostic abilities, and patient care expertise through supervised training in the real world climated serings, Students should be able to demonstrate professional and ethical behavior in climated serings, Students should be able to demonstrate professional professional and ethical behavior in climated serings. Students should be able to industrate the real and an expertise fragment and autional proposal proposal series and an expertise fragment and autional professional and ethical behaviors and professional and ethical proposal and extending of autional professional and problems obving skills while exhibiting professiona	CC 001 1	Research Methodology & Biostatistics (Core Course)
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Original and Discase Coachematrian feature understanding of Health Information and Basic Medical Statistics, Communication for Health Education, Health Planning and Management, Health care of community Well-wares divide concept of visual impairment, ties cases, national and global burdern, Proventive stratergies, screening programse, Regulatory international and national bodies and their intuitive Cot Abb to competed opideninological impairment, ties cases, national and global burdern, Proventive stratergies, screening programse, Regulatory international and national bodies and their intuitive Cot Decelop a through understanding of anatomical considerations of anterior segment structures. Cot Segment Diseases & Digmontic Cot Decelop a through understanding of anatomical considerations of anterior segment anomalies Cot Cot Decelop a through understanding of anatomical considerations of anterior segment anomalies Cot Cot Decelop a through understanding of anatomical considerations of anterior segment anomalies Cot Cot Decelop a through understanding of anatomical considerations of anterior segment anomalies Cot Cot Decelop and Cot Deceloping students' clinical skills, diagnosis abilities, and patient care expertise through supervised training in the real world clinical settings. Students should be able to demonstrate proficiency in comprehensive experimentations, specialized optometric procedures, Interpret clinical findings for formulating management staturegies and to co anauge the conditions with a multidisciplinary sponsch utilizing critical discussion such gains and professional and efficial behavior in clinical settings. Cot Decelop a through understanding of statistical control of the control of sensitive and the children opportunity and statistical settings. Cot Develop a through understanding of anatomical considerations of posterior segment anomalies Cot Develop a through understanding of anatomical considerations of posterior segment anomalies Cot Develop a through understanding of anatomical consi	MOPTOM 103 P	
Planning and Management, Health care of community	CO1	of Health and Disease
Regulatory international and national bodies and their intuitive CO4 Able to comprehen deplemiological research article and exhibit practical skills for organising community outreach programe MOPTOM 104 P Anterior Segment Diseases & Dignostic CO3 Develop a through understanding of automical considerations of anterior segment structures. Able to understand the clinical presentation, formulate differential diagnosis of anterior segment anomalies Demonstrate competent skills in anterior segment evaluation. MOPTOM 105 CP MOPTOM 105 CP MOPTOM 105 CP The primary focus is on developing students' clinical skills, diagnostic abilities, and patient care expertise through aspervised training in the real world clinical skilling. Subaterla should be able to demonstrate professors pin comprehensive eye examinations, specialized an undifficulty approach utilizing critical discession making and problems solving skills while exhibiting professional and ethical behavior in clinical settings. CC1 Substantial behavior in clinical settings. Suchest 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 anomalies Oberolops a through understanding of anatomical considerations of posterior segment anomalies Oberolops a through understanding of these concepts of contact lenses and identify the potential contact lens patients (O2 Demonstrate competent skills in RGP, Soft Contact Lenses and identify the potential contact lens patients O3 Well-versed with the concept of contact lens use and maintenance and complications. O4 Able to train patients for contact lens use and have a through understanding of verification of lenses. O5 Demonstrate competent skills in posterior seg	CO2	Planning and Management, Health care of community
MOPTOM 104 P Anterior Segment Diseases & Dignostic	CO3	
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MOPTOM 186 CP MOPTOM Directed Clinical Education-1 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, posibility optometry procedures, Interprete clinical findings for formulating management statergies and to co manage the orditions with a multidisciplinary apponent utilizing critical discession making and problem solving skills while exhibiting professional and ethical behavior in clinical settings. **CC 001 P** Recarch Methodology & Biostatistics (Core Course) 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 186 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 187 T** Advanced Contact Lenss** CO3 Well-versed with the concept of contact lens and identify the potential contact lens patients CO3 Well-versed with the concept of contact lens care and maintenance and complications. CO4 Able to train patients for contact lens care and maintenance and complications. CO5 Demonstrate competent skills in evaluating binocular vision parameters and identifying its anomalies CO6 Develop a rhough understanding of Management guidelines for above anomalies MOPTOM 189 T** Low vision and Pediatric Optometry Develop a rhough understanding of Management guidelines for above anomalies MOPTOM 189 T** Low vision and Rehabilitation CO3 Demonstrate competent skills in evaluating binocular vision param		
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CO2 Demonstrate competent skills in RGP, Soft Contact Lens Fitting and Evaluation, Ordering and verification of lenses.		
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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)

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

Grade "A++" Accredited by NAAC

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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
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	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.

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		Communication Skills	Critical Thinking & Trouble Shooting	Patient Care	Community Eyecare	Optometry Speciality & Entrepreneurship	Enthusiasm for Research	Ethics	Leadership & Team Work	Collaboration with Different Healthcare Professionals	Holistic Development	Average
				PO1	P02	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
	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)	COI	Develop a thorough understanding of anatomical considerations of anterior segment structures.	3	-	-	1	-	-	2	2	-	-	-	-	2.00
Semester I		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)	COI	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 problemsolving 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	_	
		CO1	Develop a thorough understanding of anatomical considerations of posterior segment structures.	3	-	-	1	-	I	2	2	-	-	-	-	2.00
	Posterior Segment Diseases & Dignostic (MOPTOM 106 T)	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
		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
	Advanced Contact Lenses (MOPTOM 107 T)	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	3	3	3	3	3		3	2	2		2		2.67
		CO4	complications. Able to train patients for contact lens use and have a thorough understanding of	3	3	3	3	3	_	3		3	3	3	-	3
		CO4	contact lens market availability 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	3	1	2.70	2	2.75	,	_	1	2.75	2.55	_	_	1.75
		CO2	aspect of visual development Able to understand the clinical presentation, formulate differential diagnosis of	3	3	1	3	3	2	2	2	2	2	2	-	2.27
			Pediatric Ocular Diseases. Demonstrate competent skills in evaluating binocular vision parameters and	3	3	1	3	3	2	2	2	2	2	2	-	2.27
		CO3	identifying its anomalies. Have a thorough understandings of Management guidelines for above			-									-	
		CO4	anomalies.	3	3	2	3	3	2	3	2	3	2	3	-	2.64
			Average Have a thorough understandings of basic concepts of Low vision and identify	3	2.50	1.33	2.75	3	2	2.33	1.75	2.33	2	2.33		2.23
Semester II	Low Vision and	CO1	the potential low vision patient.	3	2	3	2	2	2	3	2	2	1 2	2	1	1.91 2.20
	Rehablitation (MOPTOM		Well-versed with the legal aspect of Low Vision Able to understand the clinical presentation and efficiently evaluate and analyse	3	-			3	2	3	2				1	2.20
	109 T)	CO3	a Low vision case		3	3	2		3			3	2	1	-	
		CO4	Demonstrate competent skills in providing rehablitation training Average	3	2.67	3	2.33	2.50	2.25	2.25	1.75	2.75	3 2	2	1	2.5
	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
		COI	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
	Innovation and Entrepreneurship (SEC 001	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
	T)	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
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			Average	3		1.33	2.67	1.00	1	2.33	2.33	2	2.00	2.67	1.00	1.94
		CO1	Develop clear and concise scientific reports, presentations, and visualizations.	3	-	3	1	-	-	-	3	-	-	-	-	2.50
Research Productiv Data Analytics usin	ity and	CO2	Apply open-source tools for research documentation and publication.	3	=	-	-	-	-	-	3	2	-	1	-	2.25
Source Software (N (SEC 002 T)	PTEL)	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