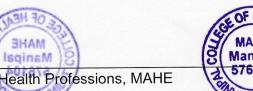


2. PROGRAM EDUCATION OBJECTIVES (PEOs)

The overall objective of the learning outcome-based curriculum framework (LOCF) for Bachelor of Optometry Program are as follows:

PEO No.	Education Objective
PEO 1	Students will be able to use their fundamental knowledge and clinical competence in vision care as and when required to achieve professional excellence.
PEO 2	Students will demonstrate strong and well defined clinical / practical skills relevant to Optometry.
PEO 3	Students will be able to practice the profession with highly professional and ethical attitude, strong communication skills, and effective professional skills to work in a inter-disciplinary team.
PEO 4	Students will be able to use interpersonal and collaborative skills to identify, assess and formulate problems and execute the solution for all the common vision related problems.
PEO 5	Students will be able to imbibe the culture of research, innovation, entrepreneurship and incubation.
PEO 6	Students will be able to participate in lifelong learning process for a highly productive career and will be able to relate the concepts of vision science towards serving the cause of the society.





3. GRADUATE ATTRIBUTES

S No.	Attribute	Description
1	Professional Knowledge	Demonstrate scientific knowledge and understanding to work as a health care professional
2	Clinical / practical skills	Demonstrate Clinical/ practical skills in order to implement the preventive, assessment and management plans for quality vision care services
3.	Communication	Ability to communicate effectively and appropriately in writing and orally to patients/clients, caregivers, other health professionals and other members of the community
4.	Cooperation/Teamwork	Ability to work effectively and respectfully with interdisciplinary team members to achieve coordinated, high quality health care
5.	Professional ethics	Ability to identify ethical issues and apply the ethical values in the professional life
6.	Research / Innovation- related Skills	A sense of inquiry and investigation for raising relevant and contemporary questions, synthesizing and articulating.
7.	Critical thinking and problem solving	Ability to think critically and apply once learning to real-life situations
8.	Reflective thinking	Ability to employ reflective thinking along with the ability to create the sense of awareness of oneself and society
9.	Information/digital literacy	Ability to use ICT in a variety of learning situations
10.	Multi-cultural competence	Ability to effectively engage in a multicultural society and interact respectfully
	Leadership readiness/qualities	Ability to respond in an autonomous and confident manner to planned and uncertain situations, and should be able to manage themselves and others effectively
12.		Every graduate to be converted into lifelong learner and consistently update himself or herself with current knowledge, skills and technologies. Acquiring Knowledge and creating the understanding in learners that learning will continue throughout life.





5. PROGRAM OUTCOMES (POs):

After successful completion of Bachelor of Optometry program, students will be able to:

PO No.	Attribute	Competency
PO 1	Professional knowledge	Apply the knowledge of basic and applied sciences in the diagnosis and management of ocular/visual conditions.
PO 2	Clinical/ Technical skills	Provide quality eye and vision care through comprehensive and appropriate examination, diagnosis and management of eye and vision conditions.
PO 3	Teamwork	Demonstrate teamwork skills by engaging in community activities to reduce the burden of avoidable blindness, occupation related ocular disorders and promote interdisciplinary care.
PO 4	Ethical value & professionalism	Possess and demonstrate ethical values and professionalism within the legal framework of the society.
PO 5	Communication	Communicate clearly and effectively with patients and other health professionals for optimal health outcomes.
PO 6	Evidence based practice	Demonstrate high quality evidence-based practice that leads to excellence in professional practice.
PO 7	Life-long learning	Able to perform and disseminate at least basic research relevant to optometry and vision science and thereby engaging in continual professional development.
PO 8	Entrepreneurship, leadership and mentorship	Develop an entrepreneurial spirit in the process of setting up optometry practice and promoting cost-effective ways of identification and management of ocular/visual conditions.





6. COURSE STRUCTURE, COURSE WISE LEARNING OBJECTIVE, COURSE OUTCOMES (COs)

SCHEME OF CURRICULUM

SEMESTER - I

150

		Cre	dit Dis	stribu	ition	Marks Distribution			
Course Code	Course Title		(L, T, nours						
		L	T	Р	CR	IAC	ESE	Total	
ANA1103	Anatomy	3	-	-	3	30	70	100	
PHY1101	Physiology - I	2	-		2	30	70	100	
CSK1001	Communication skills	2	-	-	2	100	-	100	
OPT1101	Physical Optics - Theory	2	1	-	3	50	50	100	
OPT1111	Physical Optics - Practical	-	1	2	2	100	-	100	
OPT1102	Geometric Optics - I Theory	2	1	-	3	50	50	100	
OPT1112	Geometric Optics - I practical		1	2	2	100	-	100	
OPT1103	Ocular Basic Science - I	2	1	-	3	50	50	100	
	Total	13	5	4	20	510	290	800	

ESE of ANA1103 & PHY1101 will be conducted out of 50 and normalized to 70. ESE of OPT1101, OPT1102, OPT1103 will be conducted out of 100 and normalized to 50.

SEMESTER - II

			Cre	dit Di	stribu	ution		Marks		
	Course Code	Course Title			P are		Distribution			
			L	Т	Р	CR	IAC	ESE	Total	
	PHY1201	Physiology - II	2	-	-	2	30	70	100	
	BIC1201	Biochemistry	3	-	1	3	30	70	100	
	EIC1001	Environmental Science and Indian constitution	2	-	-	2	100	-	100	
-	OPT1201	Geometric Optics - II Theory	2	1	-	3	50	50	100	
	OPT1211	Geometric Optics - II practical	-	1	2	2	100	-	100	
	OPT1202	Ocular Basic Science - II	2	1	-	3	50	50	100	
	OPT1212	Clinical Optometry - Evidence and Practice	-	1	4	3	50	50	100	
	OPT1203	Mathematics	2	-	-	2	100	-	100	
		Total	13	4	6	20	510	290	800	

ESE of PHY1201 & BIC1201 will be conducted out of 50 and normalized to 70. ESE of OPT1201, OPT1202 will be conducted out of 100 and normalized to 50.







EMESTER - III

SEMESTER			Cre istrik	dit outio	n	Marks			
Course Code	Course Title	(L, T,P are hours/week)				Distribution			
		L	T	Р	CR	IAC	ESE	Total	
PAT2101	Pathology	2	-	-	2	30	70	100	
	Microbiology	2	-	-	2	30	70	100	
MCB2101		_	-	-	3	S/NS			
	Open Elective - I	2	1		3	50	50	100	
OPT2101	Optometric instrumentation		-			50	50	100	
OPT2102	Optics of visual system	1	1	-	2				
OPT2103	Optical dispensing - I	1	1	-	2	50	50	100	
OPT2104	Refractive errors	2	-	-	2	50	50	100	
	Clinical examination techniques - I	-	2	4	4	100	_	100	
OPT2111	Total	10	5	4	20	360	340	700	

*Students make a choice from the pool of open electives offered by MAHE. ESE of PAT2101 & MCB2101 will be conducted out of 50 and normalized to 70. ESE of OPT2101 will be conducted out of 100 and normalized to 50.

SEMESTER - IV

EMESIER	•	Cred	lit Di	strib	ution	Marks			
Course Code	Course Title	(L, T,P are hours/week)				Distribution			
Code		L	T	Р	CR	IAC	ESE	Total	
PHC2202	Pharmacology	2	•	1	2	100	-	100	
BST3201	Biostatistics & Research Methodology	3	-	-	3	30	70	100	
GPY2204	General Psychology	2	-	-	2	100	-	100	
OPT2201	Ocular Diseases - I	1	1	-	2	50	50	100	
OPT2202	Visual perception	2		-	2	50	50	100	
OPT2202	Optical dispensing - II	1	1	-	2	50	50	100	
OPT2204	Ocular Microbiology and Pharmacology	2	-	-	2	50	50	100	
OPT2211	Clinical examination techniques - II	-	-	4	2	50	50	100	
	Program Elective - I	1	2	-	3	50	50	100	
OPT****	Total	14	4	4	20	530	370	900	

100

(to be torrected)







SEMESTER - V

SEMESTER			Cre istrib	dit oution	n	Marks			
Course Code	Course Title	(L, T, P are hours/week)				Distribution			
		L	Т	Р	CR	IAC	ESE	Total	
OPT3101	Ocular Disease - II	2	1	-	3	50	50	100	
OPT3102	Contact Lens - I	2	1	-	3	50	50	100	
OPT3103	Pediatric optometry and Binocular Vision - I	2	1	-	3	50	50	100	
OPT3104	Low Vision	1	1	-	2	50	50	100	
OPT3105	Geriatric optometry and systemic diseases	1	1	-	2	50	50	100	
OPT3111	Clinical examination techniques -	-	-	8	4	50	50	100	
*** ****	Open elective - II	-	-	-	3		S/NS		
	Total	8	5	8	20	300	300	600	

*Students make a choice from the pool of **open electives** offered by MAHE.
ESE for OPT3101, OPT3102, OPT3103 will be conducted out of 100 and normalized to 50.

SEMESTER - VI

V	Cre	dit Dis	tribut	ion	Marks Distribution			
Course Title								
	L	Т	Р	CR	IAC	ESE	Total	
Contact Lens - II	1	1	-	2	50	50	100	
Pediatric optometry and	2	1	-	3	50	50	100	
Occupational & Community	1	1	-	2	50	50	100	
	-	2	6	5	50	50	100	
Clinical examination	-	1	8	5	50	50	100	
· · · · · · · · · · · · · · · · · · ·	1	2	-	3	50	50	100	
Total	5	8	14	20	300	300	600	
	Contact Lens - II Pediatric optometry and Binocular Vision - II Occupational & Community Optometry Project work Clinical examination techniques - IV Program Elective - II	Course Title L Contact Lens - II 1 Pediatric optometry and Binocular Vision - II Occupational & Community Optometry Project work - Clinical examination techniques - IV Program Elective - II 1	Course Title (L, T, hours/ L T Contact Lens - II 1 1 Pediatric optometry and Binocular Vision - II Occupational & Community Optometry Project work - 2 Clinical examination techniques - IV Program Elective - II 1 2	Course Title (L, T, P are hours/week) L T P Contact Lens - II 1 1 - Pediatric optometry and Binocular Vision - II Occupational & Community Optometry Project work - 2 6 Clinical examination techniques - IV Program Elective - II 1 2 -	Course Title	Course Title	Course Title	







Open Electives

Open elective is credited, choice-based and is graded as satisfactory / not satisfactory (S/NS). Students make a choice from pool of electives offered by MAHÉ institution / Online courses as approved by the department

Program Electives

Program elective is credited and choice-based. The students make a choice from pool of electives offered by the department. The ESE is conducted for 50 marks.

Semester	Course Code	Course Title	Credit (s) Distribution (L,T,P,CL are hours/ week)							
	Code		L	T	Р	CL	CR			
IV	OPT2241	Myopia Control	1	2	_	-	3			
Semester	OPT2242	Visual Psychophysics	1	2	-	-	3			
	OPT2243	Basics of Ocular Histology	1	2	-	-	3			
	OPT3241	Ophthalmic Imaging	1	2	-	-	3			
VI Semester	OPT3242	Advanced Dispensing and practice management	1	2		-	3			

SEMESTER - VII

Course Code	Course Title				stribution week) *	Marks Distribution			
	7	L	Т	Р	CL	CR	IAC	ESE	Total
OPT4131	Internship - I	-	3	-	45	18	100	-	100
0114101	Total	-	3	-	45	18	100	-	100
*24 weeks									

Note: Internship mark to be reflected in final CGPA calculation

SEMESTER - VIII

	Course Title		redi	t Dis	stribution	Marks			
Course Code			(hours/week)					Distribution	
		L	Т	Р	CL	CR	IAC	ESE	Total
OPT4231	Internship - II	-	3	-	45	18	100	-	100
0, 1, 1201	Total	-	3	-	45	18	100	-	100

*24 weeks

Note: Internship mark to be reflected in final CGPA calculation

