



D.Y. PATIL INSTITUTE OF OPTOMETRY AND VISUAL SCIENCES

Dr. D.Y.PATIL VIDYAPEETH, PUNE

(Deemed to be University)

Re-accredited by NAAC with CGPA of 3.62 on a four point scale at 'A' Grade.

(An ISO 9001:2015 Certified University)

Programme Outcomes

No.	By the end of the program, the Optometry Graduate will:	
PO 1	Optometry Knowledge and Skill	
PO 2	Planning and problem solving abilities	
PO 3	Communication	
PO 4	Research Abilities	
PO 5	Professionalism and Ethics	
PO 6	Leadership	
PO 7	Societal responsibilities	
PO8	Environment and Sustainability	
PO9	Lifelong Learner	

Course Outcomes and Mapping with Programme Outcomes

First Year / Semester-I

Course Code	Course Title
Paper 1 MO-101	Basic Sciences and clinical optometry
Paper -2 MO-102	Public Health and community Optometry
Paper -3 MO-103	Advance Dispensing Optics
Paper -4 MO-104	Research Methodology
Electives Paper-5a MO-105	Pediatric Optometry
Paper -5b MO-105	Advance glaucoma

CO No.	At the end of the course, the learner should be able to:	Mapped Programme Outcomes
101.1	Students will be able to demonstrate knowledge and skills and will be able to discuss and explain the anatomy and physiology of eye in detail	PO1, PO2,PO9
101.2	Students will be able to demonstrate basic principle of pharmacokinetics & Pharmacodynamics Commonly used ocular drugs, mechanism, indications, contraindications, drug dosage and adverse effects	PO1, PO2
101.3	The student will be able to demonstrate fundamental knowledge and insight into general microbiology and immunology. Pathology related to eye and its different parts.	PO1, PO2

Course 1(MO101)

Course 2 (MO 102)

CO No.	At the end of the course, the learner should be able to:	Mapped Programme Outcomes
102.1	The student will demonstrate fundamental knowledge and insight into the epidemiology and how to interpret clinical evidence into optometric practice	PO1, PO2, PO4, PO9

Course 3(MO 103)

CO No.	At the end of the course, the learner should be able to:	Mapped Programme Outcomes
103.1	Student will demonstrate fundamental knowledge and insight into dispensing optics.	PO1, PO2,
103.2	Student will be able to understand and solve problems related to the eye and optical instruments/lenses, their function and correction.	PO1, PO2,
103.3	Student will be able to acquire the skills and knowledge of components of dispensing	PO1, PO2,

Course 4 (MO 104)

CO No.	At the end of the course, the learner should be able to:	Mapped Programme Outcomes
104.1	The student will demonstrate fundamental knowledge and insight into the epidemiology, and biostatistics and application of experiments and research in optometric practice	PO1, PO2, PO3, PO4, PO5

Course 5 A (MO 105)

CO No.	At the end of the course, the learner should be able to:	Mapped Programme Outcomes
105A.1	The student will demonstrate knowledge, understanding and skills, and be able to discuss and manage pediatric communication skills	PO1, PO2, PO3, PO4, PO5,PO6,PO7,PO8,PO9
105A.2	Assess visual acuity, refraction, any binocular vision anomaly, spectacle and contact lens dispensing.	PO1, PO2, PO3, PO4, PO5,PO6,PO7,PO8,PO9
105A.3	Low vision assessment ,evaluation and management in clinical practice	PO1, PO2, PO3, PO4, PO5,PO6,PO7,PO8,PO9

Course 5B (MO 105)

CO No.	At the end of the course, the learner should be able to:	Mapped Programme Outcomes
105B.1	The student will be able to discuss in detail regarding the etiology, differential diagnosis and management aspects of eye diseases like glaucoma which is main causes of blindness in India.	PO1, PO2, PO3, PO4, PO5,PO7PO9
105B.2	The scope of the course is to cover how an Optometrist can play a vital role in diagnosis and management of case of glaucoma in clinical practice.	PO1, PO2, PO3,PO9
105B.3	Points about urgent, emergency and routine referral of patient with diagnosis of glaucoma should be understood by the student.	PO1, PO2, PO3, PO9

First Year/ Semester-2

Course Code	Course Title
Paper 6 MO-201	Advanced Orthoptics
Paper -2 MO-202	Advanced Diagnostics and clinical optometry
Paper -3 MO-203	Neuro optometry
Paper -4 MO-204	Business and clinical aspects in optometry
Electives Paper-5a MO-205	Eye banking
Paper -5b MO-205	Clinical Psychology

Course 6 (MO 201)

CO No.	At the end of the course, the learner should be able to:	Mapped Programme Outcomes
201.1	The student will demonstrate knowledge, understanding and skills, and be able to discuss and manage binocular vision anomaly and its management	PO1, PO2, PO3, PO4, PO9

Course 7 (MO 202)

CO No.	At the end of the course, the learner should be able to:	Mapped Programme Outcomes
202.1	The students will demonstrate knowledge, understanding and skills, and be able to discuss and undertake examinations of patients using investigative techniques	PO1, PO2, PO3, PO4, PO5

Course 7 (MO 203)

CO No.	At the end of the course, the learner should be able to:	Mapped Programme Outcomes
203.1	The students will demonstrate knowledge, understanding and skills, and be able to discuss the anomalies related to neurological problem. Association of the nerve defect with the eye. Students will also be able to carry on the investigations	PO1, PO2, PO3, PO4, PO5,PO9

Course 8 (MO 204)

CO No.	At the end of the course, the learner should be able to:	Mapped Programme Outcomes
204.1	The students will demonstrate knowledge, understanding and skills, and be able to discuss the business skills with respect to clinical setup in Optometry course provides in depth training in business, marketing and managements skills, relevant to the practice of Optometry.	PO1, PO2, PO3, PO4, PO5,PO6,PO9
204.2	Understanding financial management in clinical as well optical set up Identifying potential target markets; Evaluating markets; Reviewing existing product mix; Optimizing product / service mix for target markets; Business set-up; Retail sales; Product development; Marketing; Systems and procedures and human resources.	PO1, PO2, PO3, PO4, PO5,PO6,PO9

Course 9 (MO 205A)

CO No.	At the end of the course, the learner should be able to:	Mapped Programme Outcomes
205A.1	The students will demonstrate knowledge, understanding and skills, and be able to discuss the responsibilities ,duties,of eye banking personel.	PO1, PO2,
205A.2	Students will know to retrieve the eye button and preserve in proper preserving media.Evaluation and documentation	PO1,PO2

Course 10 (MO 205B)

CO No.	At the end of the course, the learner should be able to:	Mapped Programme Outcomes
205B.1	demonstrate knowledge, understanding and skills, and be able to discuss the Mental health and illness.Psychological aspect of disability,	PO1, PO2, PO3, PO4, PO5,PO6,PO9
205B.2	Psychology of childhood and adolescence disorder, social class and cultural aspects	PO1, PO2, PO3, PO4, PO5,PO6,PO7,PO9

Course Code	Course Title
Paper 11 MO-301A	Cornea and contact lens
Paper -11 MO-301B	Low vision and rehabilitation
Paper -12 MO-302	Recent advancement in optometry
Paper 13 MO-303	Special Clinics
Paper-14 MO-304	Project and dissertation

Course 11(MO 301A)

CO No.	At the end of the course, the learner should be able to:	Mapped Programme Outcomes
301A.1	demonstrate knowledge, understanding and skills, and be able to discuss the contact lens related complications and its management	PO1, PO2, PO3, PO4, PO5,PO6,PO7,PO9
301A.2	Special contact lenses	

Course 11(MO 301B)

CO No.	At the end of the course, the learner should be able to:	Mapped Programme Outcomes
301B.1	demonstrate knowledge, understanding and skills, and be able to discuss low vision devices and rehabilitation	PO1, PO2, PO3, PO4, PO5,PO6,PO7,PO8,PO9

Course 12 (MO 302)

CO No.	At the end of the course, the learner should be able to:	Mapped Programme Outcomes
302.1	demonstrate knowledge, understanding and skills, and be able to discuss the recent advancement in the field of optometry related to research discussion and instruments	PO1, PO2, PO3, PO4, PO5,PO9

Course 13(MO 303)

CO No.	At the end of the course, the learner should be able to:	Mapped Programme Outcomes
303.1	demonstrate knowledge, understanding and skills, and be able to discuss cases related to contact lens or low vision	PO1, PO2, PO3, PO4, PO5,PO6,PO9

Course 14 (MO 304)

CO No.	At the end of the course, the learner should be able to:	Mapped Programme Outcomes
304.1	demonstrate knowledge, understanding and skills, and be able to discuss the project related to contact lens or low vision	PO1, PO2, PO3, PO4, PO5,PO6,PO7,PO9

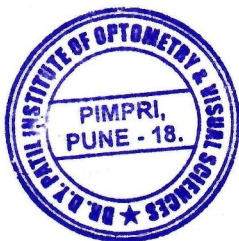
Course Code	Course Title
Paper 15 MO-401	Special Clinics
Paper-16 MO-402	Project and dissertation

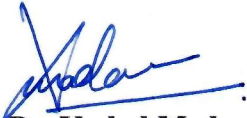
Course 15(MO 404)

CO No.	At the end of the course, the learner should be able to:	Mapped Programme Outcomes
401.1	demonstrate knowledge, understanding and skills, and be able to discuss the case related to contact lens or low vision	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO9

Course 16(MO 405)

CO No.	At the end of the course, the learner should be able to:	Mapped Programme Outcomes
402.1	demonstrate knowledge, understanding and skills, and be able to discuss the project related to contact lens or low vision	PO1, PO2, PO3, PO4, PO5, PO6, PO7, PO9




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Summary: Mapping of Programme Outcomes with Course Outcomes

Semester	No	Course name and code	course outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	
M. Optom 1st Semester	1	Basic Sciences and clinical optometry	MO-101.1	3	3	1			1			3	
			MO-101.2	3	3							3	
			MO-101.3	3	3		1		1			3	
	2	Public Health and community Optometry	MO-102.1	3	3		3	1				3	
	3	Advance dispensing Optics	MO-103.1	3	3	1	1	1	1	1	1	1	2
			MO-103.2	3	3	1	2	2	1	1	1	1	2
			MO-103.3	3	3	1	2	2	1	1	1	2	2
	4	Research Methodology	MO-104.1	3	3		2						
	5	Pediatric optometry	MO-105A.1	3	3	3	3	3	1	1		3	
			MO-105A.2	3	3	3	3	3				1	
			MO-105A.3	3	3	3	3	2	2	1		2	
	6	Advance glaucoma	MO-105B.1	3	3	3	3	2	1	1	1	1	1
MO-105B.2			3	3	3	3	3					3	
		MO-105B.3	3	3	3	3	3	3				3	
M. Optom 2nd Semester	7	Advanced orthoptics	MO- 201.1	3	3	3	3	1	1	1	1	3	
	8	Advanced diagnostic and dispensing optics	MO- 202.1	3	3	3	3	3	2	1		2	
	9	Neuro optometry	MO- 203.1	3	3	3	3	3	1	1		3	
	10	Business aspect in optometry practices	MO- 204.1	3	3	3	3	3	3	3	3	3	
	11	Eye Banking	MO- 205A.1	3	3		1	1	2	3	1		2
			MO-205A.2	3	3	3	3						2
	12	Clinical psychology	C 205B.1	3	3	3	3	2	2	1			2
		MO-205B.2	3	3	3	3	2		1			2	

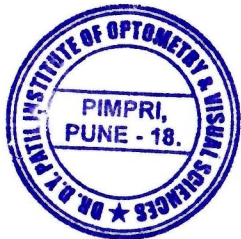
M. Optom 3rd Semester	14	Cornea and contact lens	MO-301.1	3	3	3	3	3			3	
	15	Low vision and rehabilitation	MO-302.1	3	3		3		3			
	16	Recent advancement in optometry	MO-303.1	3	3	3	3	3				
	17	Special clinics	MO-304.1	3	3		3	3	3			3
	18	project and dissertation	MO-305.1	3	3	3	3		3			
M. Optom	19	Special clinics	MO-401.1	3	3	3	3					3
	20	project and dissertation	MO-402.1	3	3	3	3	3				

Scoring Legend

Total number of periods devoted to a particular PO across all CO'S / Total number of periods for the course

1:5-25% 2:25<50% 3>50%

		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
Average score		3	3	2.63	2.66	2.63	1.77	1.3	1.6	2.43
Sum		87	87	58	72	49	32	17	13	56
Item count	29	29	29	22	27	21	18	13	8	23



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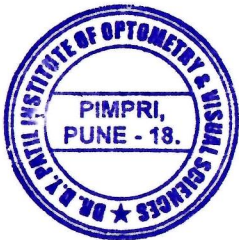
B.PROGRAMME MATRIX OF ALL COURSES

		Knowledge & Skill	Planning & Problem solving Abilities	Communication	Research Aptitude	Professionalism & Ethics	Leadership	Societal Responsibilities	Environment and Sustainability	Life long Learner
Year	Course	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
M. Optom 1st sem - First year	C-101	9	9	1	1		2			9
	C-102	3	3		3	1				3
	C-103	9	9	3	5	5	3	3	1	6
	C-104	3	3		2					
	C-105A	9	9	9	9	8	3	2		6
	C-105B	9	9	9	9	7	6	2	1	7
M. Optom 2nd sem - First year	C- 201	3	3	3	3	1	1	1	1	3
	C- 202	3	3	3	3	3	2	1		2
	C- 203	3	3	3	3	3	1	1		3
	C- 204	3	3	3	3	3	3	3	3	3
	C- 205A	6	6	3	4	1	2	3	1	4
	C- 205B	6	6	6	6	4	2	2		4

M. Optom 3rd sem - second year	C- 301	3	3	3	3	3			2	2
	C- 302	3	3		3		3			3
	C- 303	3	3	3	3	3				3
	C- 304	3	3		3	3	3			3
	C-305	3	3	3	3		3			3
M. Optom 4th sem - second year	C-401	3	3	3	3					3
	C-402	3	3	3	3	3				3

Sum

		PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
Average score		5	5	4	4	3	3	2	1.5	3.88
Sum		87	87	58	72	48	34	18	9	70
Item count	19	19	19	15	19	14	13	10	7	19



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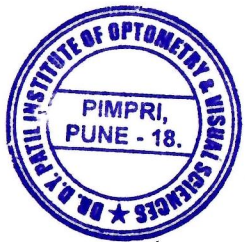
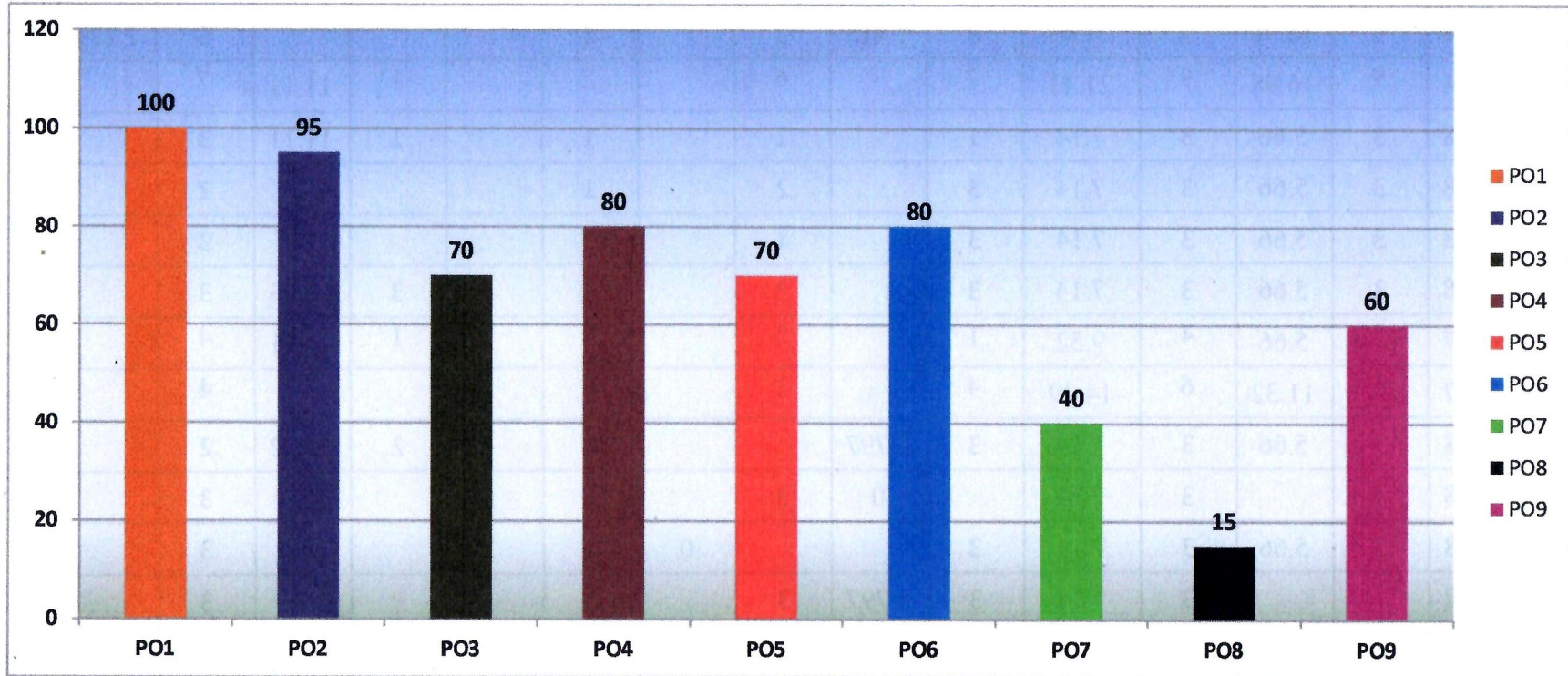
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PO2		PO3		PO4		PO5		PO6		PO7		PO8		PO9	
Total Score	%	Total Score	%	Total Score	%	Total Score	%	Total Score	%	Total Score	%	Total Score	%	Total Score	%
9	10.34	1	1.887	1	2.38			2						9	
3	3.448			3	7.14	1								3	
9	10.34	3	5.66	5	11.90	5	6.329	3	5.455	3	8.108	1	11.11	6	7.229
3	3.448			2	4.76		0								
9	10.34	9	16.98	9	21.43	8	10.13	3		2				6	7.229
9	10.34	9	16.98	9	21.43	7		6		2		1	11.11	7	
3	3.448	3	5.66	3	7.14	1		1		1		1	11.11	3	
3	3.448	3	5.66	3	7.14	3		2		1				2	
3	3.448	3	5.66	3	7.14	3		1		1				3	
3	3.448	3	5.66	3	7.14	3		3		3		3	33.33	3	
6	6.897	3	5.66	4	9.52	1		2		3		1	11.11	4	
6	6.897	6	11.32	6	14.29	4		2		2				4	
3	3.448	3	5.66	3	7.14	3	3.797					2	22.22	2	
3	3.448			3	7.14		0	3						3	
3	3.448	3	5.66	3	7.14	3			0					3	
3	3.448			3	7.14	3	3.797	3						3	
3	3.448	3	5.66	3	7.14		0	3	5.455					3	3.614
3	3.448	3	5.66	3	7.14				0					3	
3	3.448	3	5.66	3	7.14	3	3.797		0					3	

3

Contribution of Each PO in Curriculum of Bachelor of Optometry

PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9
100	95	70	80	70	80	40	15	60




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