

Veer Narmad South Gujarat
University, Surat

Rules, Regulations and Details of Teaching Syllabus
Master of Optometry (M. Optom)

Title of the Course: Master in Optometry (M. Optom.)

Objectives

To create post graduate Optometry teachers with strong academic and research background who will develop the science of Optometry. They will be responsible and helpful to –

1. Develop expertise in assessment, evaluation, planning and intervention in achieving eye care needs of the Indian Society.
2. Actively participate in Community Optometry programs to achieve the goals of vision 2020 and the national program for prevention of blindness. Effectively organize and participate in vision screening eye camps to help control blindness.
3. Practice independently as a primary eye care practitioner and render eye care services for the benefit of the society.
4. Maintain collaborative relationship with members of other disciplines to improve health care system in India,
5. Interest in life long learning for personal and professional advancement.
6. To provide experience in clinical teaching & under graduate teaching partly.

Salient Features of the College of Optometry

This course will be conducted in the Hari Jyot College of Optometry, Rotary Eye Institute. The course will enjoy all the infrastructure support Following.

Teaching and support staff:

Teaching staff of the College of optometry and the Ophthalmology staff of Rotary Eye Institute will be involved in conducting the M.Optom course.

Clinical Teaching Staff:

College of Optometry has been established in Rotary Eye Institute and has good infrastructure set up. One optical counter, three eye clinics and an optical lens workshop is being developed. Specialty clinics like squint, Low Vision and Contact Lenses are being conducted in this set up. The Rotary Eye Hospital has facilities for a full eye OPD, majority of ophthalmic investigations including Glaucoma, Retina etc.

Duration of the M.Optom.Course

It will be two years' course which involves course work, assignments, patients care in clinics and research through dissertation projects. Educative seminars, hand-on training session, update workshop and special lecturer will be conducted by the college of Optometry.

The medium of instruction for this post graduate course in Optometry will be English.

Intake and allocation of Seats

10 seats

Every year a total of 10 eligible candidates will be admitted to first year M. Optom

1. Regular Full Time students every year =6 Seats

Admitted as regular full time post graduate students for M.Optom

2. Special Part Time – Practitioners every year = 4 seats

Graduates, working as optometrist and have minimum 1 year of regular full time experience in optometry after completing graduation (either employed in eye hospital, optometry Clinic or optical Industry establishment or self employed)

Eligibility for Admission to First year M. Optom

1. He / She must be an Indian.
2. He / She must be medically fit.
3. The candidate must have completed the recognized B. Optometry or equivalent course (B. Sc Optometry) with compulsory rotating internship before the date of interview. All candidates shall have to submit the documentary proof from the Principal / Dean of the College regarding the date of completion of Internship along with the application failing which their application shall be summarily rejected.
4. A candidate who is currently engaged in PG M. Optometry studies in any University or any other University or equivalent body is not eligible. On completion of course he/she become eligible. Completion of course means he/she must have completed the course training and passed the course examination conducted by Concern University.
5. A candidate who in the past selected and admitted in any PG M. Optometry course of this or any other University or equivalent a body did not complete that course is not eligible.
6. A candidate who is graduate of University other than Veer Narmad South Gujarat University should have to submit provisional eligibility certificate (PEC) from this Veer Narmad South Gujarat University within on month from the date of his/her admission. Failing which the admission of candidate shall be cancelled and will not be eligible to apply in future.
7. A candidate has to appear in Entarance exam for admission to Post Graduate M. Optometry courses held by University and admission to PG course will be given as per merit.
8. Admission committee: Admission and Placement of these candidates under particular post graduate teacher shall be decided by the “Admission Committee” of this University. The “ Admission Committee” will be as following:
 - Dean, Medical Faculty – Chairman.
 - Head of the PG Institution / College were PG courses are conducted and one of his nominees from teaching staff.
 - Maximum up to five members of the teaching staff nominated by Chairman.
 - One teacher of executive council nominated by Vice – Chancellor.

Selection procedure for Admission to M. Optom.

- 1) Applications will be invited through an advertisement in the leading dailies. The application form satisfying the eligibility requirement has to be completed and must reach

- the college office before the specified date, to enable the office to decide the eligibility of a candidate for appearing at the Common Entrance Test.
- 2) Candidates will have to apply on prescribed admission form from Hari Jyot College of Optometry, Navsari.(Application form fees Rs. 500/-) along with photo copies of final year mark sheet, degree certificate, work experience certificate, if any.
 - 3) Candidates' admission would be conducted by the Veer Narmad South Gujarat University. Admission procedure conducted into two parts in 100 marks
 - a. Entrance test of 50 marks . Common Entrance test of 50 objective type questions (each question one mark) to be answered in 1 hour. Negative marking will be considered on wrong answers (each wrong answer **will** deduct 0.5 marks).
 - b. personal Interview of 50 marks including B. Optom marks (40 marks for personal interview + 10% of total marks of final B. Optometry).Both the examination procedure will be conducted on same day.
 - 4) On the basis of marks secured in the common entrance test and personal Interview, a merit list of candidates will be put up on the notice board, at the HariJyot College of Optometry.
 - 5) Selected candidates will be required to sign an undertaking in a prescribed form, before they are given provisional admission. The admitted candidates will have to pay all the fees within 15 days from the date of admission, failing which the admission of candidate shall be cancelled and he/she will not be eligible to apply in future.

Tuition and other fees including deposits

Every student will have to pay the tuition and exam fees and deposits as prescribed form by college.

Structure of the Master in Optometry (M. Optom.) course

Teaching scheme:

This is a 2 years course which involves course work, assignments, patient care in clinics and research through dissertation projects. Educative seminars, hand-on training session, update workshops and special lectures will be conducted from time to time by the College of Optometry.

Full time students admitted to the M.Optom, course will have to be involved in teaching under graduate students for lectures, demonstration and hands on practical sessions.

Part time students will have to attend all the special lectures arranged by the college every month. They have to appear in all Internal and External examination compulsory.

Special lecture will be conducted by post graduate teaching faculty during the training program while the students are posted in clinics and hospitals. Guest faculty from other Institutes and Ophthalmic-Institutes will also be invited to conduct lectures in topics of their specialty areas. Ophthalmic surgeons as medical doctors will be accepted as post graduate teachers till such a time M. Optom. and more qualified teachers are available.

Syllabus topic for Master of Optometry (M. Optom)

FIRST YEAR M. OPTOM. TEACHING SYLLABUS TOPIC

Subject Code	Name of Subject	Description
M 101	Applied Optics	Clinical, Visual & Dispensing Optics
M 102	Basic Sciences	Ocular Anatomy, Physiology, Pharmacology
M 103	Clinical Sciences	Eye checkup procedure, special investigations, instruments
M 104	Specialty Subject	Choose from list – Documentation of 100 classified cases
M 105	Support Subject	Examinations will not be conducted

Specialty Subject		Support subjects	
1	Contact Lenses	1	Research Methodologies & Statistics
2	Binocular Vision & Ocular motility	2	Education and teaching
3	Low Vision and management	3	Management – Personal & Business

Pattern of Examination at end of First Year M. Optom.

There will be total of 5 examination subjects for first year M. Optom. and examinations will be conducted for 100 marks for each subject.

Paper No	Name of Paper	Internal Marks	External		Total Marks
			Theory	Viva	
P1	Applied Optics	25	50	25	100
P2	Basic Sciences	25	50	25	100
P3	Clinical Sciences	25	50	25	100
P4	Specialty Subject	25	50	25	100
P5	Comprehensive Practical Exam and Project work	50	--	50	100
Total					500

The project work will consist of documenting 100 case papers of the specialty subject (Contact lens posting, Low Vision posting, Pediatric Ophthalmology posting, Glaucoma posting, Retina posting, Cornea posting), It will be reviewed and based on clinical cases documented, will be given marks out of 50 by 2 internal teaching faculty members.

A comprehensive practical examination for 50 marks will be conducted by 2 Internal examiners, which will include examining patient, doing specific investigations, and demonstrations of certain optometric and clinical skills.

SECOND YEAR B.OPTOM. TEACHING SYLLABUS TOPICS

Subject Code	Name of Subject	Description
M 201	Optics & Contact Lenses	Specialty fittings and advanced contact lenses
M 202	Clinical management in Orthoptics	Vision Therapy in Binocular Vision disorders
M 203	Dispensing Optics & Low Vision	Practical application of Dispensing & Low vision
M 204	Professional Optometry	Computers, Practice management, Professional ethics
M 205	Dissertation Thesis	

Pattern of Examination at end of Second Year M. Optom

There will be total of 5 examination subjects for year M.Optom. and examinations will be conducted for 100 marks for each subject.

Paper No	Name of Paper	Internal Marks	External		Total Marks
			Theory	Viva	
P1	Optics and contact lenses	25	50	25	100
P2	Clinical management in Orthoptics	25	50	25	100
P3	Dispensing Optics & Low vision	25	50	25	100
P4	Comprehensive Practical exam	50	--	50	100
P5	Dissertation & Thesis	50	--	50	100
	Total				500

Practical examination during the term will be conducted by internal examiners which will be added as internal marks out of 50 for P 5. A more comprehensive examination will be conducted during the final examination by the panel of examiners, which will include examining patients, specific investigations and demonstrations of certain optometric and clinical skills.

A full research dissertation thesis will have to be completed under the supervision of the Internal faculty and submitted to the College of Optometry. It will be reviewed and the thesis will be given marks out of 25 each by 2 internal teaching faculty members, which will be added as internal marks out of 50 for P 5. The dissertation will have to be defended with the panel of external examiners appointed by the University, who will also give marks out of 50 during the external examination.

Project work and practical training

1. Full time students admitted to the M.Optom, course will have to be involved in teaching under graduate students for lectures, demonstration and hands on practical sessions.
2. Part time students will have to attend all the special lectures arranged by the college of optometry. Thesis will be compulsory for all part time students. They have to submit initial protocol to the college within 2 months after starting the second year.
3. As part of the project work during the first year M.Optom. Every student will have to document minimum 100 clinical cases seen and clinically examined by them during their clinical exposure under the supervision by the teaching faculty.

4. Dissertation:

Every candidate pursuing M. Optom degree course is required to carry out work on a selected research project under the guidance of a recognized post graduate teacher. The result of such a work shall be submitted in the form of dissertation.

The dissertation is aimed to train a graduate student in research methods and techniques. It includes identification of problem, formulation of a hypothesis search and review of literature getting acquainted with recent advances, designing of a research study, collection of data, critical analysis and comparison of results and drawing conclusions.

The dissertation should be written under the following heading:

1. Introduction
2. Aim or Objectives of study
3. Review of literature
4. Material and methods
5. Results
6. Discussion
7. Conclusion
8. Summary
9. References
10. Tables
11. Annexure

The written text of dissertation shall not be less than 50 pages and shall not exceed 100 pages excluding references, tables, questionnaires and other annexure. It should be neatly typed on double spacing on one side of paper (A4 size) and bound properly. spiral binding should be avoidable. The guide, head of the department and head of institution shall certify the dissertation.

Four copies of dissertation thesis prepared shall be submitted to the college, 2 months before final examination or before the dates notified by the college.

5. Some post graduate students may have to work with the Ophthalmic and Optical industry in their projects of practitioner education, research and other related activities which will be given as assignments by the Hari Jyot College of Optometry.

Examination & Rules of passing for First and Second year M.Optom.

1. Internal Examinations: Marks out of 25 will be given for internal assessments in all the subjects which will be conducted every sixth months during the year. The teaching faculty will give assignments, project work as per schedule prepared by College of Optometry. The faculty will give marks for these assignments including attendance to seminars, clinical workshops and the clinical case paper records documented by the post graduate M.Optom.student.
2. Term end Examinations: External Viva and practical examinations for first year M.Optom conducted by the college and second year M.Optom. Examination will be conducted by the University.
3. First Year M.Optom. Passing protocol : The internal and external examination marks will be added as the final marks of that subject. Only when the student secures minimum 50% marks (Internal + External = Combined) in all subjects of the first year, he / she will be declared pass and will be promoted to the second year M.Optom.

4. Allowed to Keep Term protocol: If the student secures minimum 50% marks in at least three subjects of First Year M.Optom. Those who have failed in three or more than three subjects will be allowed to take supplementary exam which to be conducted within 45 days after the declaration of result. He/she will be allowed to keep term for second year. However he/she will have to pass in all the subjects of first year M.Optom. in order to become eligible to apply/appear for second year and final M.Optom.University examinations.
5. Repeat Term protocol: If the student fails in four or all the five subjects of the first year, he/she will be asked to pay the tuition fees proportionate to the number of subjects failed and to appear for the final examinations of M. Optom First Year, in those subjects in which he/she has failed earlier. But they are not required to appear for internal examinations and neither repeats the case papers of the specialty subject
6. Second Year M.Optom. Passing protocol: The internal and external examination marks will be added as the final marks of that subject for each year. Only when the student secures minimum 50% marks (Internal + External = Combined) in all subjects of both years and also has completed the project work and dissertation in all respects, he/she will be declared to have completed the M.Optom.
7. Repeat Term protocol: If the M.Optom. Student fails in any subjects of the second year, he/she will be asked to pay the tuition fees proportionate to the number of subjects failed and the University examination fees. Those who have failed in three or less than three subjects will be allowed for the Supplementary exam that is to be conducted within 45 days after the declaration of result. Those students who fail to pass more than three subjects, he/she would be required to repeat the whole second year again and would be required to pay the proportionate tuition fees.
8. Repeat Dissertation protocol: Only if the student has failed in Subject P5 of the second year M.Optom., the student will be required to repeat same dissertation project under the same guide and appeared for the year end examination only. He/she cannot undergo the Supplementary examination for this subject .
9. If any student fails three times successively in the same subject at the University examinations for either first or second year M.Optom. He/she will not be allowed to continue the M.Optom. course and his admission will stand cancelled.

Ranking of candidates

The result of both first and second year examinations will be finalized and declared by the University as per the time table notified from time to time.

Students will be awarded class on the basis of the total aggregate marks for the BOTH the Examinations of first and second year, as follows =

50% and more but less than 55% aggregate marks	= Pass Class
55% and more but less than 60% aggregate marks	= Second Class
60% and more but less than 70% aggregate marks	= First Class
70% and above	= First Class with distinction

M. Optometry Time Table

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9.00 to 10.00	Camp OR Speciality Posting	Group discussion	Case presentation	Camp OR Speciality Posting	Camp OR Speciality Posting	Camp OR Speciality Posting
10.00 to 11.00						
11.00 to 12.00		Lecture	Undergraduate Lecture Taking by themselves			
12.00 to 1.00						
1.00 to 2.00 LUNCH BREAK						
2.00 to 3.00	Camp OR Speciality O.P.D	Lecture M.Optom Faculty & Ophthalmologist	Lecture M.Optom Faculty	Library Work	Camp OR Speciality Posting	Camp OR Speciality Posting
3.00 to 4.00						
4.00 to 5.00		O.P.D	O.P.D	Speciality Posting		
5.00 to 6.00						

* in the Camp they should perform proper history taking, precision Retinoscopy with proper subjective correction, K-reading, A- scan, Blood pressure, Sac syringing & Ophthalmoscopy.

Speciality Posting →

- Cornea
- Glaucoma
- Pediatric
- Retina
- Low Vision
- Contact Lenses
- Dispensing
- Orthoptics