

Master of Surgery (M.S.) in
Ophthalmology (EYE)

Prospectus No. 071420

संत गाडगे बाबा अमरावती विद्यापीठ

SANT GADGE BABA AMRAVATI UNIVERSITY

आयुर्विज्ञान विद्याशाखा

(*FACULTY OF MEDICINE*)

PROSPECTUS

OF

The Examination for the Post-Graduate Degree of
Master of Surgery (M.S.) in
Ophthalmology (EYE)
(2006-2007)



2006

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SANT GADGE BABA AMRAVATI UNIVERSITY, AMRAVATI
SPECIAL NOTE FOR INFORMATION OF THE STUDENTS

- (1) Notwithstanding anything to the contrary, it is notified for general information and guidance of all concerned that a person, who has passed the qualifying examination and is eligible for admission only to the corresponding next higher examination as an ex-student or an external candidate, shall be examined in accordance with the syllabus of such next higher examination in force at the time of such examination in such subjects papers or combination of papers in which students from University Departments or Colleges are to be examined by the University.
- (2) Be it known to all the students desirous to take examination/s for which this prospectus has been prescribed should, if found necessary for any other information regarding examinations etc., refer the University Ordinances Booklet the various conditions/provisions pertaining to examination as prescribed in the following Ordinances.

Ordinance No. 1	:	Enrolment of Students.
Ordinance No. 2	:	Admission of Students
Ordinance No. 4	:	National cadet corps
Ordinance No. 6	:	Examinations in General (relevent extracts)
Ordinance No. 18/2001	:	An Ordinance to provide grace marks for passing in a Head of passing and Improvement of Division (Higher Class) and getting Distinction in the subject and condonation of deficiency of marks in a subject in all the faculties prescribed by the Statute No. 18, Ordinance, 2001.
Ordinance No. 9	:	Conduct of Examinations (relevent extracts)
Ordinance No. 10	:	Providing for Exemptions and Compartments
Ordinance No. 19	:	Admission of Candidates to Degrees.
Ordinance No. 109	:	Recording of a change of name of a University student in the records of the University.
Ordinance No. 138	:	For improvement of Division/Grade.
Ordinance No.19/2001	:	An Ordinance for Central Assessment Programme, Scheme of Evaluation and Moderation of answerbooks and preparation of results of the examinations, conducted by the University, Ordinance 2001.

Dr.P.S.Narkhede
 Registrar
 Sant Gadge Baba Amravati University

Sant Gadge Baba Amravati University, Amravati
***Ordinance No. 30 of 2005**

Examinations leading to the Post Graduate Degree in the Faculty of Medicine, Ordinance, 2005.

Whereas, it is expedient to provide an ordinance regarding Examinations leading to the Post Graduate Degree in the Faculty of Medicine, for the purposes hereinafter appearing the Management Council is hereby pleased to make the following ordinance.

1. This Ordinance may be called "Examinations Leading to the Post Graduate Degree in the Faculty of Medicine, Ordinance, 2005 "
2. This Ordinance shall come into force w.e.f. the date of its approval by the Management Council.
3. This Ordinance shall apply to all the examinations leading to Post Graduate Degree in the Faculty of Medicine, specified below namely.

(i) Doctor of Medicine :-

1. Doctor of Medicine in Physiology.
2. Doctor of Medicine in Pharmacology.
3. Doctor of Medicine in Medicine.
4. Doctor of Medicine in Microbiology.
5. Doctor of Medicine in Pathology.
6. Doctor of Medicine in Community Medicine.
7. Doctor of Medicine in Paediatrics.
8. Doctor of Medicine in Anaesthesiology.
9. Doctor of Medicine in Biochemistry.
10. Doctor of Medicine in Forensic Medicine.
11. Doctor of Medicine in Radio Diagnosis.
12. Doctor of Medicine in Pulmonary Medicine.
13. Doctor of Medicine in Radio Therapy.
14. Doctor of Medicine in psychiatry.
15. Doctor of Medicine in Dermatology.

(ii) Master of Surgery :

1. Master of Surgery in Anatomy.
2. Master of Surgery in Ophthalmology.
3. Master of Surgery in Surgery.
4. Master of Surgery in Orthopaedics.
5. Master of Surgery in Ear, Nose, Throat.
6. Master of Surgery in Obstetrics & Gynaecology.

4. The said examination leading to the Post Graduate Degree in the faculty of Medicine shall be held twice a year at such places and on such dates as may be appointed by the Board of Examinations.
5. (I) A person desirous of admission to the said Course to which this Ordinance applies, shall by the 31st of May or the date prescribed by M.C.I. from time to time, as the case may be, apply to the Dean/Principal in the application form as prescribed by the College Authority for Registration. The application form for registration shall be accompanied by First, Second, third/final M.B.B.S. mark lists together with Attempt Certificate, at First, Second, Third/Final M.B.B.S. Examinations.
 (II) On receipt of the application form for registration, the Dean/Principal shall deal with it in accordance with the ordinance in force for the time being in the college concerned dealing with the registration for the Degree under this Ordinance.
6. (a) A candidate will be eligible for registration for the Post Graduate Degree, if he/she has completed satisfactorily one year rotating Internship Training after passing Final M.B.B.S. Part II Examination and has got himself/herself registered with Maharashtra Medical Council or Medical Council of India.
 (b) No Person shall be registered for the post graduate Degree Course unless such a person is in a position to work as full time Resident student for the course period applicable in his/her case.
 (c) The candidate will be selected according to the Rules and Regulations as prescribed by MCI/State Govt./ Central Govt. from time to time .
 (d) The number of students registered will be in accordance with the strength sanctioned by Medical Council of India.
 (e) The period of regular course of study for the Post Graduate Degree shall be of three years (36 completed months) including period of examination after joining P.G. Course.
 (f) If the application for registration is accepted by the Dean/Principal, the person so registered shall prosecute, under the supervisor/guide approved by the University, a regular course of study & research (including

* As accepted by the Management Council, Dt.21.5.2005

Practical/Clinical training) in a medical college affiliated for the course of study for the requisite subject after the grant of permission /recognition by M.C.I./ Central Govt.

7. On the report of the Guide/Supervisor duly recommended by the Dean/Principal in the College Council and forwarded to the University, the registration of a candidate is liable to be cancelled under special circumstances.
8. Subject to his/her compliance with the provisions of this ordinance and of other ordinances in force from time to time, an applicant for admission to an examination under this ordinance shall be eligible if he/she
 - a) has been duly registered and
 - b) has prosecuted a regular course of study, research & practical training for the requisite minimum period specified in this ordinance.
9. The examination shall consist of :-
 - a) A thesis embodying the results of the research work of the candidate in the subject concerned.
 - b) A written Examination comprising of four Theory papers, each of three hours duration in the subject concerned.
 - c) A practical Examination comprising clinical Exercises and oral/Viva-Voce in the subject concerned.
 - d) Internal Assessment Examinations in Theory and Practical in the subject concerned.
10. The fees for the examination shall be as prescribed by the Academic Council from time to time.
11. Each registered candidate has to do research work on a Thesis topic, approved by Research & recognition committee of the concerned board under the authorized Guide/Supervisor. He/she shall submit the Thesis duly approved by the Guide/Supervisor, the Head of department and through the head of the College on or before the 1st of January as the case may be preceding the university Written Examination of his/her batch.
12. A candidate whose Thesis is not unanimously approved by all the Examiners shall not be admitted to the written and practical examination of the University.
13. A candidate whose Thesis is unanimously approved by all the Examiners and whose performance at the written, practical & Oral/Viva-Voce examinations fulfills the passing criteria as prescribed by the Regulation shall be declared successful at the examination by the board of Examinations.
 1. A candidate who scored 75 % of the aggregate marks in the theory examinations (including internal assessment marks for theory) and 75 % of the aggregate marks in the practical examination (including internal assessment marks in practical) shall be declared to have passed the examination with honours.
 2. A candidate who secures 75 % of the aggregate maximum marks in theory and in practical examination taken together (including internal assessment marks) shall be declared to have passed the examination with distinction.
 3. All the candidates who have secured at least 50 % marks in each paper of theory and in each passing head of practical examination i.e. long case, short case, viva-voce (50 % of aggregate marks for theory and practical) shall be declared as successful.
14. An examinee whose thesis has been approved but who is not successful at the remaining part of the Examination shall be eligible for readmission to the written and practical examination together again at the subsequent examination on payment of full fees.
15. The scheme of the examination shall be as indicated in the Regulation.
16. The scope of the subject shall be as indicated in the syllabus.
17. Notwithstanding anything to the contrary in this Ordinance, no person shall be admitted to an Examination under this Ordinance, if he/she has already passed that Examination or an equivalent examination of any other statutory university.
18. A candidate who has registered himself/herself for the Post Graduate Degree course in a subject shall not be allowed to register himself/herself for the Post Graduate Degree Course either in the same or any other subject or Vice-Versa unless he/she passes the examination leading to the first offered Course or he/she foregoes it. The concurrent registration shall not be allowed under any circumstances.
19. All successful examinees shall be awarded a Degree in the prescribed format signed by the Vice-Chancellor.
20. Ordinance Nos. 21 of 2003, 22 of 2003 and 23 of 2003 shall stand repealed from the date on which this ordinance comes in existence.

Sant Gadge Baba Amravati University, Amravati

*** Regulation No. 23 of 2005**

Examinations leading to the Post Graduate Degree in Ophthalmology in the Faculty of Medicine, Regulation, 2005.

Whereas, it is expedient to make a Regulation in respect of Examinations leading to the Post Graduate Degree in Ophthalmology in the Faculty of Medicine, for the purposes hereinafter, appearing the Management Council is hereby pleased to make the following Regulation.

1. This Regulation may be called, "Examinations leading to the Post Graduate Degree in Ophthalmology in the Faculty of Medicine, Regulation, 2005."
2. This Regulation shall come into force from the date of its approval by the Management Council.
3. Scheme of the Examination of the Post Graduate Degree in Ophthalmology in the Faculty of Medicine shall be as provided under **Appendix-A** appended with this Regulation.

APPENDIX - A

EXAMINATION : RULES AND REGULATIONS

EXAMINATION LEADING TO THE POST GRADUATE DEGREE IN OPHTHALMOLOGY IN THE FACULTY OF MEDICINE:-

(I) WRITTEN EXAMINATION :

Name of the Degree Examination :
AMRAVATI UNIVERSITY

Master of Surgery(Ophthalmology).
M.S. in OPHTHALMOLOGY

THEORY PAPER/ DURATION/ MAXIMUM MARKS	SUBJECT DISTRIBUTION
PAPER-I 3 HOURS: 80 Marks. Section-A : 40 Marks Section-B : 40 Marks	: Basic Sciences Related to Ophthalmology, And Optics & Refraction. (include applied Anatomy & Embryology, Physiology, Biochemistry, Pharmacology, Pathology And Microbiology).
PAPER-II 3 HOURS: 80 Marks Section-A : 40 Marks Section-B : 40 Marks	: Ophthalmic Medicine & Surgery covering Diseases of the Eye, Adnexa, And Orbit.
PAPER-III 3 HOURS: 80 Marks Section-A : 40 marks - Section-B : 40 marks	: Systemic Ophthalmology including Neuro-ophthalmology And the Eye in General Medicine & Surgery.
PAPER-IV 3 HOURS: 80 Marks Section-A : 30 marks (1/2 hour) Section-B : 50 Marks (2 & 1/2 hours)	: Multiple Choice questions covering whole syllabus. : Ophthalmic essay And Recent Trends/ Advances in Ophthalmology.

(II) SCHEME OF WRITTEN EXAMINATION IN M.S. (Ophthalmology) :-

PATTERN OF THEORY :

HEAD ITEM (Part-A) :- THEORY PAPERS

(i) THEORY PAPER-I,II,III

Minimum Passing

Duration	: Three Hours	<u>Marks</u> :
Section-A	: Two long Answer questions x 20 Marks each	=40 —
	Question No. 1 :	
	Question No. 2 :	

Section-B	:	Two short Answer Questions-			
		x 10 marks each	=20	}	=40
		Question No. 3 : (a) ...			
		(b) ...			
	:	Four short notes		}	=20
		x 05 Marks each	=20		
		Question No.4 : (A) ...			
		(B) ...			
		(C) ...			
		(D) ...			
Each Paper MAXIMUM MARKS = 80 MARKS					—

N.B. :- Use of separate answer-copies for each Section.

(ii) **THEORY PAPER-IV**

Duration	:	Three Hours			
Section-A	:	Multiple Choice Questions-			
		(First 1/2 hour) SINGLE BEST RESPONSE TYPE			
		30 mcqs x 01 mark each	= 30		—
		Section-B:One Essay Type Question			
		(Remaining) x 30 marks	= 30	}	= 50
		2 & 1/2 hours			
		Question No.1 :			
		: Two Short Answer questions			
		x 05 marks each	=10		
		Question No.2 : (a) ...			
		(b) ...			
		: Two Short Notes-			
		x 05 Marks each	=10		
		Question No.3 : (A) ...			
		(B) ...			
Paper-IV MAXIMUM MARKS = 80 Marks					—

AGGREGATE OF FOUR THEORY PAPERS (maximum) = 320 Marks : 160 Marks MINIMUM

HEAD ITEM (Part-B) :- INTERNAL ASSESSMENT (THEORY)

Based on Two Yearly Examinations					
x 40 Marks each		= 80 MARKS			—
THEORY EXAMINATION GRAND TOTAL			=400 MARKS		: 200 MARKS MINIMUM

N.B. :- For Paper Setters and Valuers (instructions)

- (1) Section-A of each Theory Paper will be set and evaluated by the Internal examiner, preferably the senior most.
- (2) Section-B of each Theory Paper will be set and evaluated by the External Examiner.
- (3) Any Half Mark scored in any section of Theory Papers has to be rounded to the next complete figure in the final totalling for that section.

(III) SCHEME OF PRACTICAL EXAMINATION IN M.S. (Ophthalmology):-**PATTERN OF PRACTICALS :****HEAD ITEM (Part-A) :- CLINICAL EXERCISES : Sub-head ITEMS**

		<u>Minimum Passing</u>
		<u>Marks:</u>
(i)	One Long Case 1x30 Marks.	= 30 Marks —
(ii)	Three Short Cases 3x20 Marks	= 60 Marks —
(iii)	Three Fundus Cases 3x30 Marks	= 90 Marks —
<hr/> TOTAL		<hr/> =180 Marks : 90 Marks Minimum.

HEAD ITEM (Part-B) :- ORAL/VIVA VOCE : Sub-head ITEMS

(i)	Surgical Instruments and related Viva.	= 40 Marks —
(ii)	Optics & Refraction including orthoptics & Pleoptics.	= 25 Marks —
(iii)	Investigative Ophthalmology, Scanning & Radio-diagnosis.	= 25 Marks —
(iv)	Ocular Therapeutics & Toxicology	= 25 Marks —
(v)	Pathological Specimens & Slides related to ocular Pathology.	= 25 Marks —
<hr/> TOTAL		<hr/> =140 Marks : 70 Marks Minimum.

HEAD ITEM (Part-C) : INTERNAL ASSESSMENT (PRACTICALS)

	Based on Two Yearly Examinations x 40 Marks each	= 80 Marks —
<hr/> PRACTICAL EXAMINATION GRAND TOTAL		<hr/> =400 Marks : 200 Marks Minimum

(IV) INSTRUCTIONS REGARDING PRACTICAL EXAMINERS AND THEIR WORK :-

N.B. :-

- (1) The Practical Examination will be conducted by a Team of FOUR EXAMINERS, out of which a minimum of Two Examiners must be EXTERNALS.
- (2) The Seniormost INTERNAL EXAMINER will be the CHAIRPERSON for the whole examination. He/She should preferably be the Head of the Department.
- (3) All the Four Examiners will examine the candidate at the same sitting and giving individual scoring for each sub-head. The final scoring in each sub-head will be the aggregate of all the Four Examiners marks as divided by a factor of Four and rounded to the next complete figure in case of any fraction.
- (4) No candidate will be examined by any Examiner in isolation at any time. The remaining Examiners have to be present to make a passive observational assessment at the same time when each Examiner is actively assessing the candidate on turn-wise.
- (5) A final consolidated Mark-sheet for each candidate showing all the Heads & Sub-heads will be prepared and signed by all the Four Examiners at the end and the same should be submitted Confidentially to the University within the next 24 Hours together with a common MARK-SHEET for all the appearing candidates, this time showing the Head ITEMS only and signed by all the Four Examiners.
- (6) All the appointed Examiners must be in active service of a Teaching Medical Institution/College and having a minimum of 10 (Ten) Years of Undergraduate and/or Postgraduate Teaching experience in Ophthalmology after their Post Graduate Degree.

(V) PASSING CRITERIA FOR M.S. IN (OPHTHALMOLOGY) :-

A candidate, whose Thesis is unanimously approved by the Examiners and whose performance at the written and Practical Examinations of the University including the Internal Assessment Examinations fulfills the below mentioned Passing Criteria, will be declared successful.

PASSING CRITERIA :**(I) For Simple Passing:-**

Separate passing with a MINIMUM 50 % of the MAXIMUM MARKS for each of the following 05(Five) Heads is must :-

- (A) A MINIMUM 50% of the AGGREGATE MAXIMUM MARKS of the all Four Theory Papers-I,II,III,IV taken together.
(Part-A : THEORY)
- (B) A MINIMUM 50% of the AGGREGATE MAXIMUM MARKS of the Theory Papers & Theory Internal Assessment combined.
(Part-A+B : THEORY)
- (C) A MINIMUM 50 % of the AGGREGATE MAXIMUM MARKS in the Clinical Exercises (Part-A : PRACTICALS).
- (D) A MINIMUM 50% of the AGGREGATE MAXIMUM MARKS in the ORAL/VIVA-VOCE (Part-B : PRACTICALS).
- (E) A MINIMUM 50% of the AGGREGATE MAXIMUM MARKS in the PRACTICALS including Internal Assessment (Practical).
(Part - A+B+C : PRACTICALS)

(II) FOR PASSING WITH DISTINCTION :-

A MINIMUM 75 % of the AGGREGATE MAXIMUM MARKS in the THEORY AND PRACTICAL EXAMINATIONS taken together including INTERNAL ASSESSMENT MARKS.

(III) FOR PASSING WITH DISTINCTION (HONOURS) :-

A MINIMUM 75% of the AGGREGATE MAXIMUM MARKS in the THEORY EXAMINATION (including of Internal assessment)

AND

A MINIMUM 75% of the AGGREGATE MAXIMUM MARKS in the PRACTICAL EXAMINATION (inclusive of Internal assessment).

(VI) THESIS :-**Proforma for Preparing & Submitting information for thesis Protocol (Synopsis).**

Name of Institution : _____

Name of Department : _____

Part - I

1. Title of the Project _____
(in block letters) _____
2. Name & Designation _____
of P.G. Guide _____
3. Name of Student _____
4. Date of Registration _____
5. Duration of the Project _____
 - a. Period for collection of data _____
 - b. Last date for collection of data _____
 - c. Period required for analysis of data _____
 - d. Date for submission of _____
thesis to the University _____
(To be submitted at least 6 month _____
prior to the University exam.) _____

6. Signature

P.G. Student

P.G. Guide

Head of the Department

Part - II : Shall Comprise of

- * Title :-
- * Introduction (not more than 20 lines).
- * Aims and objects.
- * Review of literature (2-3 pages strictly relevant to the point).
- * Material & Method.
- * Study design (Flow chart); Search strategy; Statistical analysis proposed.
- * Bibliography (Vancouver style) between 12-15
- * Copy of Proforma

N.B. -Part II should comprise of not more than 10 type script in double spaces of A-4 size paper excluding proforma.

STANDARD FORMAT FOR THESIS

- * Thesis
 - * Cover Page - Format
 - * Format of Certificate (Annexure A)
 - * List of contents and sequence of chapter (Annexure B)
 - * Study design inclusive of
 - Statistical analysis
 - Search strategy - Literature
 - * Review of literature - An outline
 - * Citation of reference in text
 - * Writing of Bibliography - Vancouver style as it is simple, rational & easy to type.
 - * Summary & Conclusion : Under following headings as per BMJ format
- This instruction has to be given to candidates at the time of registration and signature taken of receipt.

-
- * Thesis (pl. - THESES) Defination :

“ A proposition to be maintained or proved ”

DESSERTATION : Defination .

“A detailed discourse on a subject especially one submitted in partial fulfilment of the requirement of a degree or diploma”.

(Concised oxford Dictionary, 199)

Department of _____

Name of the College/Institution :-

Place :-

CERTIFICATE

This is to certify that the work contained in this thesis entitled “ _____
 _____ ” has been carried out by Dr. _____ in
 the Department of _____ under my guidance.

He has fulfilled all the conditions laid down by Amravati University, Amravati.

Signature (Guide)

Name

Designation

Dated :-

Dr. _____

Dean,

Name of College/Institution

Address

ANNEXURE-B

CONTENTS

SR.NO.	TOPIC
1.	INTRODUCTION
2.	AIMS AND OBJECTIVES
3.	REVIEW OF LITERATURE
4.	MATERIAL AND METHODS AND STUDY DESIGN
5.	OBSERVATION
6.	DISCUSSION
7.	SUMMARY
8.	CONCLUSION
	A) BIBLOGRAPHY
	B) ANNEXURES, MASTER CHARTS, PROFORMA.

SYLLABUS FOR
M.S. IN OPHTHALMOLOGY COURSE
(W.E.F. -2001-2002)

The scope of the subject in the syllabus includes all available documented knowledge in the subject literature of OPHTHALMOLOGY which will essentially cover the following Topics & Sub-topics :-

Sr.No.	Topics & Sub-topics
1.	Basic Sciences related to Ophthalmology including Applied ocular Anatomy & Embryology, Physiology, Biochemistry, Pharmacology, Pathology & Microbiology.
2.	Optics & Refraction including orthoptics & pleoptics.
3.	Diseases of the eye, Adnexa, and orbit including Lids, Conjunctiva, Lacrimal Apparatus, Cornea, Sclera, Uveal tract, Retina & Optic Nerve, Vitreous, Lens, Glaucoma, Defects of Ocular Motility Squint and Trauma etc.
4.	Systemic Ophthalmology related to General Medicine & Surgery including sub-specialities of each.
5.	Neurophthalmology.
6.	Ocular Therapeutics and Toxicology.
7.	Community Ophthalmology covering programmes related to Preventive, Promotional, and curative aspects including Ocular Hygiene and Health Education.
8.	Eye Banking and Keratoplasty.
9.	Recent Trends/Advances in Ophthalmology.
10.	Operative Ophthalmology.
11.	Investigative Ophthalmology including Instrumentations and Procedures.
12.	Genetics and Counselling Related to Ophthalmology.
13.	Industrial Ophthalmology Related to Occupational Health Hazards.

N.B. :- To cover the scope of foresaid syllabus, the Post -Graduate Teaching Methodology will include Didactic Lectures, Group Discussions, Symposia, Case Presentations, Conferences, Seminars, Journal Club Presentations, Demo., Workshops-Wet Labs including - Eye Patient Care that will impart Clinical & Surgical exposure to the students in the Field of Ophthalmology.

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