



**PRAVARA INSTITUTE OF MEDICAL SCIENCES
(DEEMED TO BE UNIVERSITY)**

**Loni, Tal. Rahata, Dist. Ahmednagar 413736
NAAC Re-accredited with 'A' Grade**

SYLLABUS

**Fellowship Programme- Phacoemulsification Surgery
(Dept. of Ophthalmology)
(Academic Council Meeting Dated 28th October 2021)**

Title : Fellowship in Phacoemulsification Surgery

Introduction: Cataract is a common cause of blindness in general population. The incidence is very high almost more than 80% in population above 60 years. Cataract is defined as any opacity in the lens or capsule. There is no medical treatment and surgery is the only treatment. Phacoemulsification is one of the major innovations of the 21st century. The cataract surgery is not only vision restoration but also a refractive surgery. The advances in optical designs and phacoemulsification surgery has revolutionized the cataract management giving post-operative emmetropia and good visual rehabilitation. The resident in his PG training do not get much exposure to Phacoemulsification surgery. This short term fellowship of 6 months will add to their clinical and surgical skills.

- Objectives :**
1. a) To be fully oriented to Phacodynamics and Phaco machine functioning.
 - b) To do proper pre operative cataract evaluation and biometry
 - c) To acquire surgical skills to perform Phacoemulsification surgery independently.
 2. Surgical Skills:
 - a) The candidate will acquire ability to perform Phacoemulsification surgery.
 - b) He will also be able to manage complication if any during the surgery on in post Operation period.
 3. Duration : One Year
 4. Eligibility : M. S. / D. N. B. / D. O. - Ophthalmology
 5. Intake Capacity : Two Student per Year
 6. Proposed Tuition Fee : Rs. 30,000 for the course

7. Course of Content :

- A) The candidate during 1st week will have lectures on anatomy and physiology of Crystalline Lens
- B) Lecture on Phacodynamics and Phaco machine functions
- C) Proper pre operative evaluation of cataract patient
- D) Surgical training
 - i. Initially he will observe 2-3 surgeries of **Phacoemulsification**
 - ii. Step by step surgical skill transfer under supervision by programme in charge
 - iii. Will independently perform surgeries under the supervision in charge
- E) Post operative management and recognition of any post operation problems

8. He will maintain the Log book of his/her work

FELLOWSHIP IN PHACOEMULSIFICATION SURGERY

Sr. No.	Heading	Detail
1	Curriculum Delivery / Transaction (T-L of content)	Teaching Hrs – 30 Lectures (1 Hrs per Lecture) fellow Will assist 5 Phacoemulsification cases in OT first then 30 Cases independently under the supervision of faculty
2	Programme outcome(Expected)	Fellow should acquire knowledge and expertise in treating and performing surgeries and management of complications
3	Certification Authority and Design of Certificate	Certification Authority- HOD ophthalmology, Dean and Vice Chancellor of PIMS, Loni
4	Place and Venue of the Academic work of the Programme	Department of Ophthalmology Ophthalmology OT PIMS, Loni
5	Department and Institute offering the programme and overall coordination. Intake per Batch, Academic Calendar, Time Table, Maintenance of Attendance, Arrangements and conduction of the programme, Liasoning, Evaluation, Documentation, Feedback, Certification and other admission aspects / Appointment of Director / Coordinator / Resource persons Teachers and Assistance	Intake per Batch- 1 student per batch Academic Calendar- 6 months duration- OPD, ward and operation theatre posting according to time table Maintenance of Attendance- daily in the department. Signature of fellow daily in the department Evaluation- examination at the end of fellowship by internal and external examiners. Feedback- written feedback is taken at the end of fellowship in a structured feedback form
6	Nominal fees proposed to be charged per course per participant with the approval of authorities	Nominal Fees proposed – 30,000 /- per student After the approval of authorities (Hostel charge and mess charges not included)
7	Financial and Administrative Expectations from the PIMS – DU /PMT to run the programme	Advertisement of the course and expenses related to that
8	Infrastructure Requirements – Class rooms / Practical Halls / Hospital / Clinical / PHC / Any other	All available Only surgical instruments need to be add (Approximately – 10,000 /- per Year)

Sr. No.	Heading	Detail
9	Yearly A-A-A Audit of the programme and Financial Audit - process and format	As per PIMS Guidelines
10	Annual Meta Evaluation and up gradation of the content and delivery of the programme	Up gradation will be done if any at time
11	Central Documentation	As per PIMS rule
12	Grievance redressal and Appeals mechanitary / Mechanism	As per PIMS rule
13	Any other Aspects of the programme not covered above	Nil
14	Saving clause whenever difficulty arises - powers of the authorities of the University	As per PIMS rule

FELLOWSHIP IN PHACOEMULSIFICATION SURGERY

Time Table

Sr. No.	NAME OF TOPIC
01	The candidate during 1 st week will have lectures on anatomy and physiology of Crystalline lens
02	Lecture on Phacodynamics and Phaco machine functions
03	Proper preoperative evaluation of catarat patient
04	Surgical training
A)	Initially he will observe 2-3 surgeries
B)	Step by step surgical skill transfer under supervision by programme in charge
C)	Will independently perform surgeries under the supervision in charge
05	Post operative management and recognition of any post operation problems

Evaluation:-

Term end examination will be arranged and conducted by Dept. of Ophthalmology, Dr. Balasaheb Vikhe Patil Rural Medical College and declare the result.

Examination Scheme

Paper – I : Phacoemulsification Surgery – I

Paper – II : Recent advances in Phacoemulsification Surgery

Theory Examination:- (2 Paper of 100 marks each)

2 LAQ x 20 Marks = 40 Marks

6 SAQ x 10 Marks = 60 Marks

Practical Examination:-

One Long Case / Long experiments = 50 Marks

Three Short Cases (3 x 30) = 90 Marks

Viva Voce / Oral / OSPE / Spottes = 60 Marks

Minimum Passing:-

- i) Minimum 50% in Theory papers (Each paper minimum is 40%)
- ii) Minimum 50% in Practical /Clinical & Viva Voce
- iii) Overall 50% Theory & Practical/Clinical

Award of class:-

50% to 59.5% = IInd class

60 to 74.5% = Ist Class

Above 75% = Ist Class with Distinction

Attempts:-

- A student shall clear the Examination only within three attempts or within 4 years of admission.
- Result / Issue of Mark Sheet – Head of Institute & HOD will jointly issue the Mark Sheet.

Certification:-

- A) Title - Fellowship in Phacoemulsification Surgery.
- B) Certificate will be issued with the signatures of concern Dean & Vice-Chancellor, Pravara Institute of Medical Sciences (Deemed to be University).
- C) Certificates to be prepared by concern College.

Mandatory Fullfilment:-

- 1) To participate in UG teaching / PG teaching.
- 2) Presentation of 6 assignments.
- 3) One Research Methodology Workshop.
- 4) Participation / Presentation with minimum One Research article in Seminars/Conferences/workshop etc.
- 5) One Research Paper in Indian / Scopus / UGC Care list journal.

