

Guidelines for
Fellowship Program
in
Robotic Surgery



SRI AUROBINDO UNIVERSITY

SAIMS HOSPITAL CAMPUS, Indore Ujjain, State Highway, Bhawrasla, Indore, Madhya Pradesh 453555

Curriculum with a 3-month program structure and specific duties for fellows during each phase:

Fellowship in Robotic Surgery Curriculum

Eligibility criteria- candidate must be MS/ Mch or equivalent in required field from recognized institute.

Selection criteria-By entrance exam and interview as per schedule declared on Sri Aurobindo university website.

Duration of fellowship course-3 months

Phase 1: Introduction and Basic Skills Training **(1-2week)**

- **Week 1-** Introduction to Robotic Surgery
 - History and Evolution
 - Overview of Robotic Surgical Systems
- **Week 2:** Basic Robotic Skills Training
 - Simulator Training
 - Hand-Eye Coordination Exercises
 - Basic Instrument Handling

Duties of Fellow:

- Attend introductory lectures and workshops.
- Engage in simulator training sessions.
- Observe and assist in basic robotic procedures.

Phase 2: Intermediate Robotic Procedures (1&1/2 Month)

- **Weeks 1-3:** Robotic Surgical Procedures (Part 1)
 - Prostatectomy
 - Hernia surgery
- Hysterectomy
- Cholecystectomy
- **Weeks 3-6:** Robotic Surgical Procedures (Part 2)
 - Colectomy
 - Nephrectomy
 - Cardiac Procedures

Duties of Fellow:

- Participate actively in assisting and observing surgeries.
- Perform basic steps under supervision.
- Attend case discussions and review patient outcomes.

Phase 3: Advanced Techniques and Clinical Applications (3rd Month)

- **Week 1:** Advanced Robotic Techniques
 - Single-Site Robotic Surgery
 - Robotic-Assisted Thoracic Surgery
 - Advanced Instrumentation and Techniques
- **Week 2:** Clinical Applications and Case Studies
 - Patient Selection Criteria
 - Preoperative Planning
 - Intraoperative and Postoperative Care
- **Week 3:** Robotic Surgery in Special Populations
 - Pediatric Robotic Surgery
 - Geriatric Robotic Surgery
 - Complex Cases and Complications

Duties of Fellow:

- Lead selected components of surgeries under supervision.
- Participate in patient consultations.
- Engage in research discussions and contribute to ongoing projects.

Phase 4: Ethical, Legal, and Professional Development (3 rd month)

Ethical and Legal Aspects

- Informed Consent
- Ethical Considerations
- Medico-Legal Issues
- Research and Innovation
 - Current Research Trends
 - Innovation in Robotic Surgery
 - Clinical Trials and Studies

Duties of Fellow:

- Attend ethics and legal seminars.
- Contribute to ongoing research initiatives.
- Prepare a case presentation for the final assessment.

Phase 5: Final Assessment and Certification (**3rd month**)

- Written Examination
- Practical Skills Assessment
- Case Presentation and Review

Duties of Fellow:

- Demonstrate acquired skills and knowledge in the assessments.
- Present a comprehensive case study.
- Participate in a final review with the evaluation committee.

This structured 3-month program with specific duties aims to provide fellows with a systematic and hands-on learning experience in robotic surgery.