FELLOWSHIP IN ROBOTIC SURGERY

ABOUT THE UNIVERSITY

Malla Reddy Vishwavidyapeeth is a reputed educational institution located in Hyderabad, Telangana, India. Recognized as a "Deemed to be University under Distinct (Existing) Category," the university offers multidisciplinary programs across medical, dental, nursing, pharmaceutical sciences, and allied health sciences. The institution emphasizes academic excellence, clinical expertise, innovation, and global collaboration in advancing healthcare education.

PROGRAM OVERVIEW

The Fellowship in Robotic Surgery is a specialized program designed to develop expertise in performing advanced surgical procedures using robotic-assisted technology.

The program focuses on:

- Principles of robotic surgery
- Robotic system components and instrumentation
- Console-based surgical techniques
- Application in GI, urology, gynecology, and oncology
- Patient safety and precision surgery
- Preoperative planning and postoperative care

The program integrates **simulation training, robotic console practice, and hands-on surgical exposure**, ensuring advanced competency in robotic surgery.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates will be able to:

1. Perform robotic-assisted surgical procedures effectively.
2. Apply advanced minimally invasive surgical techniques.
3. Ensure high precision and patient safety in surgical care.
4. Deliver patient-centered and evidence-based treatment.

PROGRAM OUTCOMES (POS)

1. **Surgical Expertise:** Perform robotic-assisted surgical procedures across specialties.
2. **Technical Proficiency:** Operate robotic systems and instruments effectively.

3. **Precision Surgery:** Achieve improved accuracy and reduced surgical trauma.
4. **Clinical Decision-Making:** Select appropriate cases for robotic intervention.
5. **Patient Safety:** Minimize complications and enhance recovery outcomes.
6. **Innovation:** Adapt to evolving robotic and surgical technologies.
7. **Evidence-Based Practice:** Apply current robotic surgery guidelines.

COURSE OUTCOMES (COS)

- **CO1:** Understand principles and technology of robotic surgery.
- **CO2:** Perform robotic-assisted surgical procedures.
- **CO3:** Apply console-based techniques and instrumentation.
- **CO4:** Manage complications and surgical outcomes.
- **CO5:** Ensure optimal patient care and recovery.

PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Demonstrate expertise in robotic surgical procedures.
2. Apply advanced robotic and minimally invasive techniques effectively.
3. Integrate multidisciplinary approaches in robotic surgical care.

PROGRAM DETAILS

- **Certificate Awarded by:** Malla Reddy Vishwavidyapeeth
- **Program Duration:** One-Year Fellowship
- **Mode of Delivery:** Simulation Training + Robotic Console Practice + Clinical Exposure

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ELIGIBILITY CRITERIA

- **Academic Qualification:** MBBS with MS/DNB in General Surgery or equivalent
- **Professional Requirement:** As per institutional norms

KEY FEATURES

- Specialized training in robotic surgery
- Hands-on exposure to robotic surgical systems
- Training in console-based surgical techniques
- Focus on precision and minimally invasive procedures
- Exposure across multiple surgical specialties

- Integration of advanced technology with surgical practice
- Evidence-based clinical practice

LEARNING OUTCOMES

KNOWLEDGE & UNDERSTANDING

- Comprehensive understanding of robotic surgery technology and applications.

COGNITIVE SKILLS

- Clinical decision-making in robotic surgical cases.

PRACTICAL & PROFESSIONAL SKILLS

- Proficiency in robotic surgical procedures and console operation.
- Hands-on experience in simulation labs and OT settings.

TRANSFERABLE SKILLS

- Communication and patient counseling skills.
- Multidisciplinary teamwork and coordination.

SUBJECT-SPECIFIC SKILLS

- Advanced robotic and minimally invasive surgical techniques.

CURRICULUM MODULES – THEORY

- Principles of Robotic Surgery
- Robotic System Components and Instrumentation
- Console-Based Surgical Techniques
- Applications in GI, Urology, and Gynecology
- Patient Safety and Precision Surgery
- Preoperative Planning and Case Selection
- Complications and Risk Management
- Postoperative Care and Recovery
- Simulation and Skill Development
- Advances in Robotic Surgery

PRACTICAL COURSEWORK

- Simulation-based robotic surgery training
- Robotic console operation and skill development
- Assisted and supervised robotic surgical procedures
- Case planning and intraoperative decision-making
- Patient management and postoperative care
- Case discussions and performance evaluation
- Case documentation and clinical assessment

CAREER OUTCOMES

Graduates of the Fellowship in Robotic Surgery can pursue careers as:

- Robotic Surgeon
- Minimal Invasive Surgery Specialist
- Advanced Surgical Consultant
- Specialist in Tertiary Care Hospitals
- Academic and Research Roles in Robotic Surgery