



**KLE ACADEMY OF HIGHER EDUCATION & RESEARCH'S  
JAWAHARLAL NEHRU MEDICAL COLLEGE, BELAGAVI  
DEPARTMENT OF ANATOMY**



***Is Organizing a Value-Added Course***

**Title: “Early orientation of MBBS Undergraduate students to Minimally Invasive Surgical Techniques, for Integrating Clinically Relevant Anatomy with Conventional Gross Anatomy”**

**Preamble:**

To arouse interest among medical undergraduate students and take one step more towards training budding surgeons of tomorrow, by early exposure to surgical Anatomy, we intend to implicate the surgical relevance of learning Human Anatomy. Hence, we are conducting an integrated value-added course from the department of Anatomy, with the Surgical specialties practicing various minimally invasive surgical procedures, at KLE's Dr. Prabhakar Kore Hospital and Medical Research Center, Belagavi,

This is made possible by advances in Surgical education and practice, with the intention of better surgical management, with minimally invasive techniques and is preferred by surgeons and patients alike, due to the shorter hospital stay for the patients, early ambulation and faster recovery. By these techniques there is minimal alteration of normal Anatomy, at the same time doing the necessary surgical intervention, with great precision, successfully, by visualizing the 3- Dimensional Surgical Anatomy on TV monitors and performing surgery through key holes. This definitely minimizes the post-op complications of an open surgery.

**The knowledge of Anatomy through key- hole surgery as in Laparoscopy, or through Endoscopy by Natural Orifice Transluminal Endoscopic Surgery (NOTES) is required for the future aspiring surgeons, so an early orientation can be started while students are studying the normal Anatomy course itself, hence this value-added course is planned for first year M.B.B.S undergraduate students.**

We intend to target those enthusiastic Medical undergraduate students who have a keen interest in learning clinically relevant Anatomy, through early surgical exposure and to kindle their interest in pursuing surgical branches of Medicine in the future.

## **INTENDED LEARNING OBJECTIVES**

At the end of the course the first-year undergraduate student of medical field should be able,

- to comprehend the different anatomical structures in an in-vivo setting
- to know the relations of various anatomical structures through minimally invasive surgical approaches, by exposure to surgical video demonstrations, recorded from the High-Tech OT

**TARGET GROUP:** first year MBBS undergraduate students with interest for pursuing surgical specialties in the future.

**Benefits:** students get to learn In-Vivo Anatomical orientation through minimally invasive approaches to surgical procedures, as an adjuvant to morphological and topographical relations of Gross Anatomy, learnt during regional gross Anatomy dissection.

**DURATION OF THE COURSE: 2 days workshop of 16 hours**

**RESOURCE PERSONS:** Clinical faculty from surgical Departments of Orthopedics, Otorhinolaryngology, Respiratory Medicine, General surgery, Medical Gastroenterology, Obstetrics and Gynecology, Neurosurgery

**TEACHING METHODS:** There would be 7 sessions each session is planned for 2 hours duration. Lecture about the minimally invasive surgical procedure to be demonstrated by surgeons using video demonstrations for 1 hour, followed by assessment, portfolio writing / log book writing for 1 an hour. The 8<sup>th</sup> session would be a practical hands-on workshop on surgical mannequins in KLE's Dr. Prabhakar Kore Clinical simulation center.

**TOTAL PARTICIPANTS: 50**

**Daily formative assessment on every Saturday of the workshop** by portfolio/ log book writing and MCQ test about the surgical procedure demonstrated by video

**Summative assessment:** on the last day

**Feedback about the course:** will be collected by perceptions questionnaire administered through google forms.

**Attendance:** Minimum of 80% is mandatory for satisfactory course completion

**Certification Criteria:** on completion of the course and a score of minimum 50% in the assessment by post –test, a certificate from the Department of Anatomy, KAHER's Jawaharlal Nehru Medical College, Belagavi, would be issued.

*Starting from the month of JUNE on Saturdays Timing: 2 - 4pm*

## **COURSE CONTENT**

Sl. No.	Name of the Minimally Invasive Surgical Procedure	Department
1.	Arthroscopy Knee Joint, Shoulder joint And Hip joint	Orthopedics
2.	Functional Endoscopic Sinus Surgery (FESS)	Otorhinolaryngology
3.	Bronchoscopy	Respiratory Medicine
4.	Endoscopy (Upper GI Scopy & Lower GI Scopy)	General Surgery / Medical Gastroenterology
5.	Diagnostic Laparoscopy	General surgery
6.	Hysteroscopy	Obstetrics and Gynecology
7.	Endoscopic skull base surgery	Neurosurgery
8.	Practical experience Visit to KLE's Dr. Prabhakar Kore Advanced simulation skill laboratory & Hands-on laparoscopic simulator experience.	General surgery

### **For Further Enquiry, Please Contact**

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