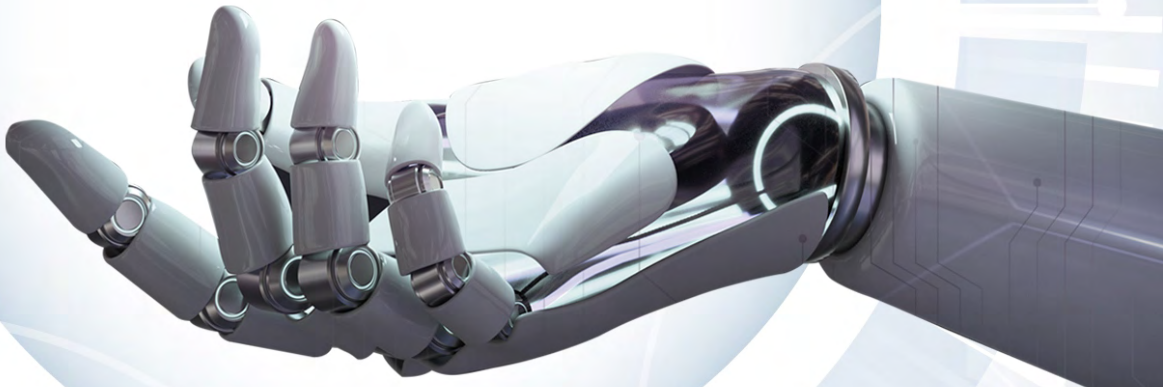
Fellowship in Advanced Robotic and Innovative Surgery

ARIS | Association Robotic Innovative Surgeons

A CLINICAL ROBOTIC SURGERY FELLOWSHIP BY ASSOCIATION OF ROBOTIC AND INNOVATIVE SURGEONS

FARIS 2024



IN AFFILIATION WITH

SRI RAMACHANDRA UNIVERSITY

THE ROYAL COLLEGE OF SURGEONS OF EDINBURGH

Phone: +91 8134960983, +91 9620182411, E-mail: info@arisinternational.org,Website:www. arisinternational.org

WELCOME MESSAGE

Dear Colleagues,

Warm greetings from the Association of Robotic and Innovative Surgeons (ARIS).
It is with great pleasure and pride that we extend our heartfelt welcome to you for the upcoming third edition of the Hands-on cum Cadaveric Robotic Course cum Fellowship Programme - FARIS 2024. Since our inception in April 2022, ARIS has been dedicated to bringing the benefits of robotic surgery to surgeons worldwide, and with each passing year, we strive to reach new heights in education, innovation, and collaboration. Bringing robotic surgery to the remotest areas, FARIS 2024 continues its commitment to democratizing access to cutting-edge surgical education and technology.

We are thrilled to share that our commitment to advancing surgical education has led to the successful completion of two previous FARIS courses. With over 80 and 60 surgeons, respectively, having undergone our fellowship programme, we have witnessed a growing community of skilled professionals eager to embrace and master the realm of robotic surgery.

What sets FARIS 2024 apart is our recent collaboration and accreditation of the course under the prestigious Sri Ramachandra University of Medical and Health Sciences as well as the renowned Prestigious Royal College of Surgeons of Edinburgh. With such distinguished accreditations, we are delighted to announce that FARIS is now officially endorsed as a university degree programme and a programme available to all overseas delegates having an endorsement of the Royal College of Surgeons of Edinburgh. These recognition not only validates the quality of our curriculum but also elevates the status of our fellows, positioning them as leaders in the field of robotic surgery.

FARIS 2024 will continue to focus on providing a comprehensive learning experience through our meticulously designed four-module course. Our aim remains to equip aspiring surgeons, Gynaecologists, Onco surgeons, Urologists, Otorhinolaryngologists, Paediatric surgeons and other super specialists with the necessary skills to undertake complex surgeries using the latest robotic technologies.

We encourage early registration, as we can accommodate the first 40 applicants only. Given the overwhelming response in previous years, we anticipate a high demand for participation. Please note that the course is exclusively open to ARIS members. For those not yet part of our community, we invite you to visit our website (www.aris-international.org) and explore the benefits of ARIS membership.
We are also pleased to extend the invitation to overseas delegates, recognizing the global impact and interest in advancing robotic surgical skills.

As we look forward to another successful and enriching edition of FARIS, we express our gratitude for your continued support and enthusiasm. Together, let us shape the future of robotic surgery and contribute to the growth and excellence of our shared field.

See you at FARIS 2024!

Best regards,

Prof. Dr. Subhash Khanna
Founding President
Association of Robotic & Innovative Surgeons

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Co opted members

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Dr. Prasanna Venkatesh

Dr. Raj Nagarkar

Dr. Surendra Kumar Dabas

Dr. Swagata Khanna

CONTENTS

1 Introduction

The clinical fellowship is to be known as “Fellowship in Advanced Robotic and Innovative Surgery (FARIS)“. The fellowship will be for a period of one year conducted through online and onsite curriculum. The onsite program will be conducted in various venues of choice by ARIS along with SRMC being one of the venues. The fellowship will be as per UGC guidelines and will be a recognised medical university degree from Sri Ramachandra University and affiliated to Royal College of Surgeons of Edinburgh with credit points.

The Scientific committee formulates the syllabus and curriculum. All those members and nonmembers including international surgeons who fulfil the guidelines and criteria laid down by the committee will be eligible to apply for the fellowship program. However, the candidate has to complete the ARIS membership formalities before applying for FARIS.

All certified “Center of Excellence” hospitals will be eligible to run the clinical fellowship mentorship program. The eligible candidate’s application will be forwarded to the respective participating hospital after registration. The candidate is expected to read and follow the guidelines below and submit all required documents online before the end of the term. Successful fellows will be felicitated and ceremonially offered fellowship in the convocation during the following Annual ARIS congress after the fellowship board’s clearance.

II Core Curriculum

A. Clinical Experience

Fellows are required to provide outstanding evidence based clinical care to robotic surgery patients while advancing the future of medicine through innovative research.

I. Surgical Operation Requirements

In order to meet the designation of comprehensive training, fellows must be exposed to more than one type of robotic surgery and participate in at least 25 hours of clinical exposure with a minimum of 10 robotic operations. The fellow should have assumed the role of assisting or surgeon in at least 10 of cases.

The candidate is expected to be having scrubbed and being a part of the floor in those instances, as deemed adequate by the program director to establish competence in managing surgeries including complications. Fellows should also have at least the basic exposure to minimal access surgery.

II. Consultation Requirements

The fellow may participate in perioperative outpatient consults, and evaluations. All the evaluation requirement must be documented in the logbook.

III. Performance Assessment Synopsis

The Program Director will be responsible for conducting at least one fellow performance assessment interview and provide the FARIS committee with outcome of the meeting.

B. Cognitive Experience

In addition to the clinical and technical experience detailed above, it is expected that the fellow will also participate in non-surgical educational endeavours. These activities must be documented and validated by the Program Director.

I. Didactic Educational Sessions

The fellow must document that they participated in all the meetings. Online Sign-off sheet can be used for this required documentation. The didactic sessions will include pre-recorded lectures, textbooks, robotic surgery review sessions, live webinars on interesting topics, journal clubs and case discussions. All these sessions can be either online or onsite. See annex for online lecture schedules.

II. Dissertation Requirements

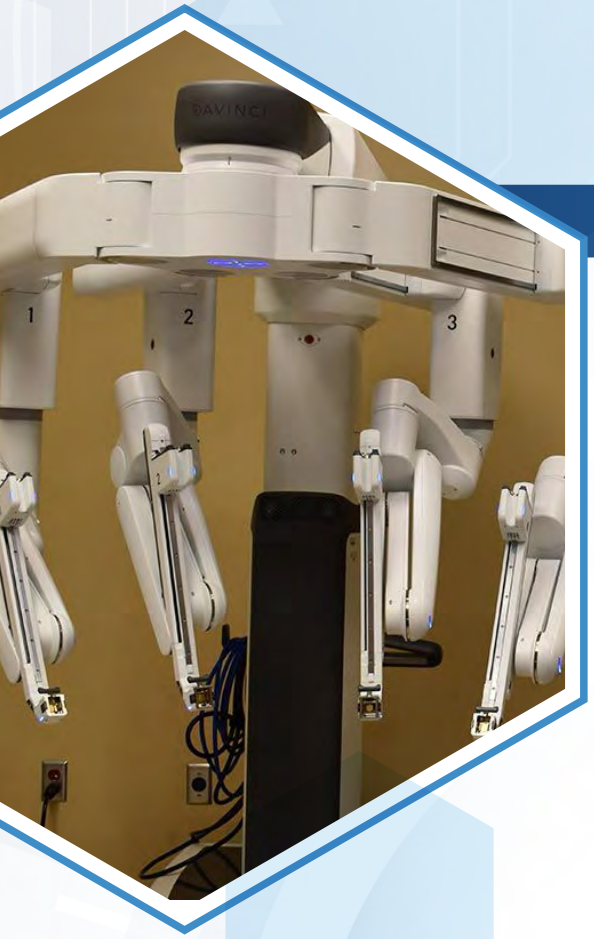
Fellows are expected to do dissertation and are expected to complete at least one clinical project during the fellowship and submit to through the logbook.

III. Multidisciplinary Requirements

Fellows are expected to participate in regular robotic multidisciplinary meets. They also must attend a minimum of two robotic conferences / CME programmes during their fellowship tenure and is encouraged to attend at least one patient support goup / patient educational seminar every quarter. They will be required to fill the details in the logbook and submit certificates of attendin such programmes (online / physical).

C. Fellowship Guidelines

- All certified **"Center of Excellence" hospitals/ institutions** will be eligible to run the clinical robotic fellowship program.
- Candidate should submit a fully completed application form along with supporting documents of **adequate qualification and experience online.**
- Candidates will be applying with choices of available centres, platform and speciality for **clinical exposure post completion of theory and contact course.** Once cleared, the candidate will be attending the institution for **observership and training as per the curriculum.**
- The candidate is expected to submit his / her logbook online at regular intervals for assessment by the programme director. **After the completion of the course, the FARIS committee will be assessing the logbook as a part of the final assessment.**
- The candidate will also be **submitting his / her literature review and research articles** by the end of the deadline.
- The fellows will be assessed based on their clinical performance by the program director, thesis by **external examiners**, **theory and viva examination either online** or **physical**, and **clinical dissertation.**
- Successful candidates will be bestowed with **SRIHER (Deemed to be University) degree** which is also affiliated to the **Royal College of Surgeons of Edinburg and felicitated during the annual ARIS congress.**
- **Compulsory attendance** and clearance of all modules are mandatory and marks will be deducted based on the attendance.



D. Fellowship Period

- A typical fellowship will be for **one year duration** with **both onsite and offsite plan.**
- The fellowship course will commence **during the Annual ARIS congress once the registration is approved.**
- Onsite candidates will join the clinical team at the **start of the course for their observership**. Offsite candidate will be **attending the COE institutions for clinical cases based on FARIS guidelines.**
- The FARIS committee should be able to **access the fellow's logbook** and the f**inal online evaluation sheets** to arrive at clearance of the course. **Any delay beyond the deadline will not be entertained and the candidate will not be allowed to clear the course.**
- Candidates who fail to complete the assessment on time will have to appear for **an alternative date announced by the FARIS committee** which will not be less than one month from **the time of annual ARIS congress.**

E. Examination

- Examination will be held **online either on a stipulated time or during annual ARIS conference**. Examination will be **theory based as multiple choice questions** and **viva by internationally renowned faculty.**
- All assessment materials like **thesis and logbook will be submitted by the candidate online on or before the deadline for assessment.**
- **Scoring will be for a total of 500 marks.** 100 marks for clinical performance through logbook assessment, 100 marks for dissertation, 100 marks for theory (MCQ), 100 marks for OSCE assessment after cadaver training, and 100 marks for viva. All assessments are objective type done through virtual academy portal by the examiners.
- The student is expected to **score 50% (250 / 500) to be eligible to graduate.**
- **The result will be announced at the end of abstract presentation session** and the candidates will be **felicitated with convocation during the General Body Meeting of ARIS national conference.**
- **Candidate who fail to attend ARIS 2025 and take up final examination may have to take up the exam only in ARIS 2026**

F. Eligibility Criteria

- **Postgraduate MS / DNB General Surgery / Gynaecology /Otorhinolaryngology** or international post-graduate surgical training in relevant surgical speciality with at least 2 years post degree experience having sufficient skills in basic minimal access surgery
- **Post Mch / DNB surgical gastroenterology or qualification of any surgical speciality** including Onco surgery, Urology, Cardiac surgery, Thoracic surgery, Head & Neck surgery, Endocrine surgery, or any other speciality utilising robotic platform.
- The PG training Institute must have **a recognition of the medical board of the country.**
- Have **sufficient experience and skills** in basic minimal access surgery.
- International Fellows are required to apply for temporary **registration through the program director's Centre of Excellence to be eligible to get admission for the course.** This will help them with the clinical attachment and operating rights.
- A fully completed application form with **all required education and registration certificates.**
- **Receipt of payment before the deadline for the course.**
- Seats will be **first-cum-first-serve basis with a maximum of 100 candidates per year** inclusive of all specialities and not more than 25% share for each speciality.

G. Fee Structure

- The fellowship will attract an **admission fee of Rs.2,00,000 plus GST.** The candidate will also have to bear **the university fee for Royal College affiliation as fixed by RCSEd.**
- **Repeat candidates need to re-apply for the failed module once the board approves.**
- **The renumeration for onsite candidates will depend on the COE institution** and its program director's prerogative and ARIS is not responsible for the same.
- **All clinical & research related materials** (soft copy of textbooks and journal access) will be **provided by ARIS and infrastructure** (desk, library) will be provided the participating COE for onsite candidates. Offsite candidates will incur their personal expense for the same.
- All other expenses related to **stationaries, accommodation, food, travel and conferences will be borne by the candidate themselves.**

III Module Details:

The fellowship curriculum is divided into 4 modules with a specific timeline. Orientaton program will be on 1st March 2024 during ARIS 2024 conference.

A. Module 1 - Online Course

The online course effectively starts on the 4 March 2024. The candidate will be taking the Module 1 in two modes and a total of 50 hours of commitment. The candidate will be eligible for Module2 after completing the Lectures.Online courses will be accessed through the FARIS learning management system and attendance is mandatory for all candidates.

1. Lectures: A total of 25 - 30 lectures with a 30-40 minute pre-recording based on basic and speciality of choice followed by answering 10 MCQ's and score 5 out of 10 in each lecture before the candidate clears the module.

2. Webinars: Regular webinars on various topics including journal club, research, case discussions, literature and research review, etc. Minimum of 12-24 webinar will be conducted on 1st and third Thursdays 7.30 pm to 8.30 pm.Webinars will be collaboration between ARIS & RCS Edinburgh with leading panelists from both countries addressing pressing issues in Robotic surgery.

B. Module 2 - Contact Course

Module 2 will be eligible only to candidates who complete Module 1. Contact course will be for 25 hours (3 days of technical and cadaveric training, either continuous or in split sessions).

- **Part 1:** The first part of the contact course will be a mandatory 2 day program as a part of the ARIS conclave. The agenda will be didactic lectures, demonstrations and panel discussions.. Test drive of available robots will be on a rotational basis during the two day conference.

- **Part 2:** The second part will be hands-on simulation and cadaver training program for 1 day which will be platform and speciality based available by choice after the completion of the conclave. The cadaver training will be conducted either along with the technical training as a part of it or in the dedicated cadaver training facility of the various technology company every quarter starting July 2024. The agenda will be dry lab training and cadaver training during the day. The seats will be on first cum first serve basis.

  The candidate will be subjected to objective clinical assessment at the end of the course.

  Contact course can be attended as a stand-alone workshop as well for additional training for interested candidates based on availabilty of seats.

C. Module 3 - Clinical Training

Clinical training will be spread over a period of 9 months in one / multiple COE centres as per their availability under the program director and the candidate needs to clock a minimum of 25 hours of clinical time which includes 10 surgeries. Two types of clinical training are available;

1. Full-time: Candidates will join the clinical team at the start of the course. They will be a part of the COE institution under its program director as their mentor. The renumeration for onsite candidates will depend on the COE institution and its program director's prerogative and ARIS will not be responsible for the same.

2. Part-time: Candidates are predominantly practicing surgeons who doesn't want to break away from their routine practice and hence attend clinical training on a part time basis. The candidate will attend the COE institution for clinical cases on a regular basis fulfilling FARIS guidelines and as per the availability of surgeries at the desired COE.

The candidate will be maintaining a logbook online which will be available for assessment. The program director will also have a personal meeting to assess the clinical performance. If the candidate is unable to complete the required number of observation in the COE, they can attend the non-COE centres for the same provided the COE program director certifies the attendance for observation to the non-COE centre.

D. Module 4 - Assessments

Assessments are based on 5 various modes and each will be assessed by both national and international faculty. Every assessment model will be on a objective basis by an independent assessor without revealing the candidates identity and their COE program.

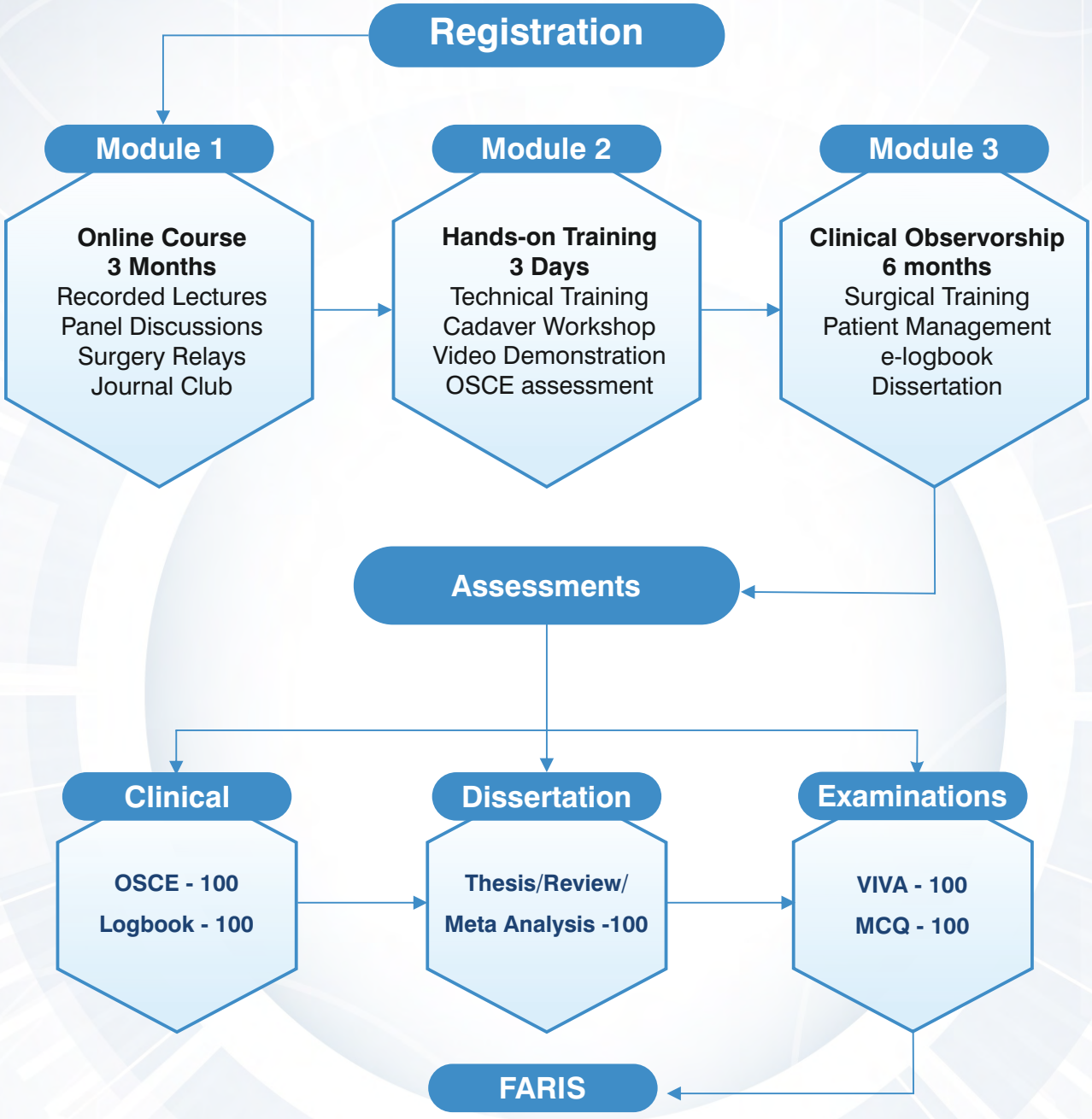
- **Clinical performance assessment will be done by one of the program director of the COE** the candidate attends for clinical training. **This will carry 100 marks based on logbook.**
- **Theory examination will be MCQ based online assessment with 100 questions.** A total of 100 marks is allowed for the same. The theory will be conducted during the ARIS annual congress.
- **Viva will be a 15 minute interview** after completing MCQ during annual ARIS conference Viva carries 100 marks,
- **Hands-on course assessment using OSCE/ MCQ examination based on** with completing the task scheduled during the hands on course on time with a score of 100 marks.
- **Dissertation will be on a clinical topic in robotic surgery based on the speciality.** It carries **100 marks** and will follow A**RIS guidelines.** The dissertation should be submitted at least 15 days prior to the completion of the course online through the e-logbook.

IV Tariff

Course	Period	Tariff	GST
Fellowship in Advanced Robotic & Innovative Surgery	1 year (Online & Onsite)	₹ 200000/ $ 2500	Additional 18%

Includes entry to Online Lectures and Webinars, ARIS Annual Conference 2024, 2 Days FARIS Conclave, 1 Day Hands on Cadaver Workshop, 1 year access to Learning Management System and Examination Fees.

V Course Algorithm



VI Typical FARIS Journey

- One year multi-access of 25 online lectures on essentials of robotic surgery and additional 10 lectures on speciality robotic surgery starting March 2024.
- 12 monthly webinars with panel discussion on interesting topics, controversies and case series in robotic surgery from March 2024 till January 2025.
- Attending 2 day ARIS conclave as the first part of the contact classes with didactic lectures, panel discussions and robotic platform test drives in June 2024. Attendance for the event is mandatory.
- Attend 1 day hands-on cadaver workshop as per choice of platform, speciality and dates from July till December. The candidate needs to apply after completion of online module. The candidate will be taking OSCE assessment examination at the end of cadaver course.
- 9 month full time / part time clinical observation of 10 robotic surgeries including speciality surgeries in one / multiple COEs which starts after the ARIS annual congress. Choice of non-COE observation to complete the logbook based on approval by program director. Program director will be assessing the candidate based their clinical knowledge.
- Submit the logbook and dissertation for assessment by deadline in December
- Theory (MCQ) examination and Abstract presentation either online or during the next ARIS annual congress in February / March.
- The course fees include the registration charges for all the contact courses including ARIS annual congress 2025, Hands-on workshop and ARIS conclave. It doesn't include accommodation and travel charges.

VII Monthly Activity Breakup

March 2024	Introduction & Orientation Online Webinar	• ARIS 2024 Annual congress • Lectures • Panel Discussions • Dissertation Title Submission
April 2024	Online Webinar	—//—
May 2024	Online Webinar	—//—
Jun 2024	Online Webinar	—//—
July 2024	Online Webinar FARIS Conclave Observership Cadaver Workshop	 • 2 days course with didactics and platform test drive. Day 1 - Lectures,Panel Discussion, Test drive, Logbook review. • Clinical observation in one or multiple COE Centres Non-COE centres with Program Director's approval • 1 day by rotation with 8 members per batch per platform
Aug 2024	Cadaver Workshop Observership Online Webinar	• On Rotation • As per COE speciality
Sep 2024	Cadaver Workshop Observership Online Webinar	—//—
Oct 2024	Cadaver Workshop Observership Online Webinar	—//—
Nov 2024	Cadaver Workshop Observership Online Webinar	—//—
Dec 2024	Cadaver Workshop Observership Online Webinar	—//—
Jan 2025	Cadaver Workshop Observership Submission	 • Logbook and Dissertation
Feb 2025	Examination	• ARIS 2025 Annual congress

VIII Important Dates

Particulars	Dates
Last date for application	29th Feb 2024
Online Lectures (Recorded)	From 4th March 2024
Introduction of the Course	1st March ARIS 2024 Annual congress
Webinars (Live)	1st & 3rd Thursday every month (Annexure-2)
Dissertation Title submission	31st March 2024
FARIS Conclave (Contact Course)	4th, 5th, 6th July 2024
Clinical Obervership	July to Dec 2024
Hands-on Cadaver Course	July to Dec 2024 (Annexure-3)
OSCE Assessment	At the End of Cadaver Course
Logbook Submission	31st Jan 2025
Dissertation Submission	31st Jan 2025
Final Examination	During ARIS 2025 Annual Congress
Results	During ARIS 2025 Annual Congress
Convocation	During ARIS 2025 Annual Congress

IX Contacts

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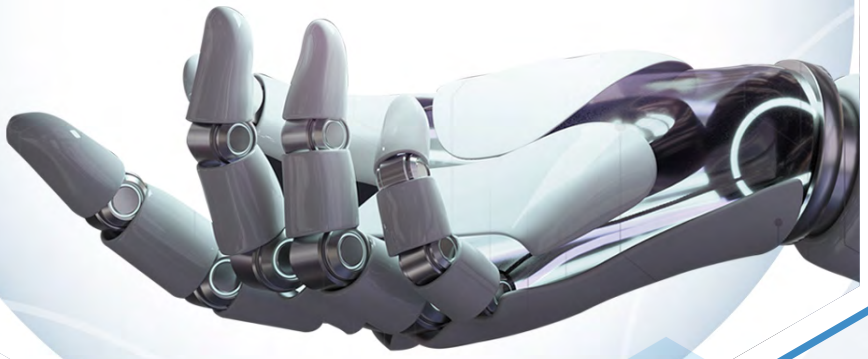

X Annexure

1. Online Lectures

S.No	Topic	Remarks
1	Introduction to Robotic Surgery	History & Evolution of various units
2	Current & Upcoming Platforms	What's new and what is to come
3	Why Robotic Surgery?	Outcome & Significance
4	Robotic Hardware	Image chain, Instruments & Technology
5	Ergonomic modifications	Setup, Access & Variations from Lap
6	Robotic Tissue Approximation	Suturing & Staplers
7	Robotic surgical complications	Complications specific to robotics
8	Troubleshooting Robotic surgery	Tips to overcome technical difficulties
9	Recent advances & Future	What new and what is to come
10	Economics & Setting up a Unit	Cost cutting, Investment and Setup
11	Anaesthesia for Robotic surgery	ERAS, Specific considerations
12	Robotic Upper GI surgery	Indications, Advantages, Procedures
13	Robotic HBP Surgery	Indications, Advantages, Procedures
14	Robotic Colorectal Surgery	Indications, Advantages, Procedures
15	Robotic Hernia surgery & AWR	Indications, Advantages, Procedures
16	Robotic Bariatric surgery	Indications, Advantages, Procedures
17	Robotic Thoracic Surgery	Indications, Advantages, Procedures
18	Robotic Urological Surgery	Indications, Advantages, Procedures
19	Robotic Gynaecological surgery	Indications, Advantages, Procedures
20	Robotic Transoral surgery	Indications, Advantages, Procedures
21	Robotic Endocrine Surgery	Indications, Advantages, Procedures
22	Robotic Cardiac Surgery	Indications, Advantages, Procedures
23	Robotic Head & Neck Surgery	Indications, Advantages, Procedures
24	Robotic Paediatric surgery	Indications, Advantages, Procedures
25	Training & Credentialing	Methodologies & Protocol

Additional lectures may be added in the future based on requirements.

2. Live Webinars

S.No	Topic
1	History and Evolution of Robotic Surgery
2	The role of multidisciplinary teams in successful robotic surgery outcomes
3	Robotic Technologies: Clinical experience with various robotic platforms and their specific user case advantages: Established systems
4	Robotic Technologies: Clinical experience with various robotic platforms and their specific user case advantages: Emerging systems
5	Cost-effectiveness of robotics: Balancing patient outcomes & economic considerations
6	Ergonomics of port placement and OR set-up in Robotic assisted surgery
7	Role of robotics and its clinical outcome in robotic general surgical specialities
8	Tissue approximation, advanced energy, and imaging in robotic surgery
9	Strategies for managing and mitigating complications in robotic surgery
10	Evolution of robotic surgery in Urology: Development, Clinical outcome and its impact
11	Role of robotics and its clinical outcome in minimally invasive colorectal surgery
12	Impact of robotic surgery in benign gynaecocoloy and gynaecological oncology
13	Clinical outcomes of robotic Thoracic surgery: Safety, Efficacy and Complications
14	Quality and outcome considerations in robotic head and neck surgery including TORS
15	Outcomes and advantages of Robotic Upper GI surgeries
16	Benefits and significance of robotic surgery in Hepatic Billy pancreatic surgery
17	Role of Robotics in Bariatric and Metabolic Surgery outcomes
18	Clinical outcomes of robotic Cardiac surgery: Safety, Efficacy and Complications
19	Benefit of Robotic platform in vascular surgery
20	Future of Robotic and Innovative Surgery

3. Hands-on Training

Hands on Cadaver training will be on first cum first serve basis by rotation between July and December 2024 bsed on either the dedicated cadaver training centres of respective platforms or in a neutral venue based on availability of platforms. Robotic platforms that will be available are daVinci, Hugo RAS, Versius & Mantra.

To Register for FARIS 2024

Click on the below link

https://aris.register.acad360.com/faris2024

OR

Scan the QR code

ARIS Association Robotic Innovative Surgeons

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