



UNDER THE AEGIS OF
UPOA & KOA

ROBO KNEE ARTHROPLASTY 2026

NATIONAL ROBOTIC KNEE CONFERENCE WITH HANDS-ON WORKSHOP

DEPARTMENT OF ORTHOPAEDICS · RAMA MEDICAL COLLEGE HOSPITAL & RESEARCH CENTRE, KANPUR

IOA Presidential Theme Fellowship and training for all — bone and joints in safe hands.

UPOA Presidential Theme Every bone counts — orthopaedic excellence across U.P.

Robotic TKR 360°: From CT Plan to Final Implant



Live saw-bone workshop

Cadaveric workshop



6

Credit Points

UTTAR PRADESH MEDICAL COUNCIL

DATES

9 & 10 October 2026

Friday & Saturday

TIMINGS

Day 1 · 8:00 AM – 6:00 PM

Day 2 · 8:00 AM – 6:00 PM

VENUE

Auditorium, RMCH & RC

Mandhana, Kanpur

REGISTER & FULL PROGRAMME

roboknee-kanpur.in

Plan · Practice · Participate · Perform Better

01 Messages

From the UP Orthopaedic Association

Dear Orthopods,

It gives us great pleasure to extend a warm welcome to all delegates, faculty and students attending ROBO KNEE 2026, the two-day national level conference on Robotic Total Knee Arthroplasty, to be held on 9 and 10 October 2026 at Rama Medical College Hospital & Research Centre, Kanpur, under the aegis of the UP Orthopaedic Association.

Robotic assistance is changing the way knee arthroplasty is planned and performed, and our members deserve a clear, honest and vendor-neutral account of what it offers and what it demands. This programme, with its video demonstration of a complete robotic case, focused lectures and case-based discussion, promises exactly that.

We congratulate the Department of Orthopaedics for taking up this academic initiative, and we are equally pleased to see postgraduates and undergraduates given a place of their own through the debate, posters, quiz and spotter sessions. We look forward to a meeting that strengthens both knowledge and fellowship across Uttar Pradesh.

With warm regards,



Dr. Santosh Singh

President, UPOA



Dr. Ashutosh Agarwal

President Elect, UPOA



Dr. Amit Jaiswal

Secretary, UPOA

From the Kanpur Orthopaedic Association

Dear Friends,

The Kanpur Orthopaedic Association is delighted to be associated with ROBO KNEE 2026 and invites every member to join this academic gathering in our own city. A national level conference devoted entirely to robotic knee replacement, with a step-by-step video demonstration and an emphasis on planning, balancing and avoiding errors, is a welcome addition to the orthopaedic calendar of Kanpur.

We thank the Department of Orthopaedics, Rama Medical College Hospital & Research Centre for hosting the meeting, and encourage our postgraduate and undergraduate colleagues to take full part in the academic activities. We look forward to meeting you all on 9 and 10 October 2026.

With warm regards,



Dr. Ravi Garg

President, KOA



Dr. Ajeet Tiwari

Secretary, KOA



9 & 10 October 2026

Auditorium, Rama Medical College Hospital & Research Centre, Mandhana, Kanpur

02 Institutional Leadership



HON'BLE CHANCELLOR

Dr. Suraj B. S. Kushwah

Rama University



DIRECTOR

Dr. Pranav Singh

Rama University



DEAN, SW

Dr. Brijendra Nigam

RMCHRC, Kanpur



PRINCIPAL

Dr. Sujatha

Professor & HOD, Microbiology
RMCHRC, Kanpur



MEDICAL SUPERINTENDENT

Dr. Siddharth Mani

RMCHRC, Kanpur



DEPUTY MEDICAL SUPERINTENDENT

Dr. Shubhra Gupta

RMCHRC, Kanpur

Institutional Academic Advisory Team



FORMER PRINCIPAL

Dr. Mahesh Gupta

Professor & HOD, General Surgery
RMCHRC, Kanpur



FORMER PRINCIPAL

Dr. Shirin Jahan

Professor & HOD, Anatomy
RMCHRC, Kanpur



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03 Guest Faculty

NATIONAL FACULTY

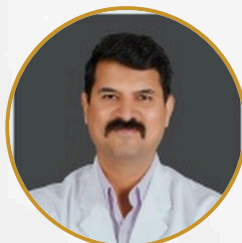


Dr. Rohan Singh Parhar

Advanced Robotic Joint Replacement &
Complex Trauma Surgeon
M.B.B.S., DNB (Orthopaedics), MNAMS
Parhar Hospital, Phagwara, Punjab

Patient Selection and Indications for Robotic
TKR

DAY 1 • 9:30-10:10 AM



Dr. Sahil Gaba

Senior Consultant & Assistant Professor
Head of Arthroplasty & Robotic Surgery
Amrita Hospital, Faridabad

CT-Based Pre-operative Planning • The
Learning Curve in Robotic TKR

DAY 1 • 11:00 AM • DAY 2 • 9:20 AM



Dr. Pranav Sharma

Senior Consultant & Robotic Replacement
Surgeon
Amrita Hospital, Faridabad

Introduction to the Robotic Platform: System
Architecture, Console and Haptic Control

DAY 1 • 2:40-3:00 PM

STATE FACULTY



Dr. Gaurav Singh

Assistant Professor, Department of
Orthopaedics
T.S. Mishra Medical College, Lucknow

Gap Balancing and Precision Bone Resection

DAY 1 • 2:00-2:40 PM



Dr. Ajay Rajput

Associate Professor, Department of
Orthopaedics
UPUMS, Saifai

The Future of Robotic TKR: Artificial
Intelligence, Digital Twins and the Smart
Operating Room

DAY 2 • 10 OCTOBER • 11:00-11:40 AM



Dr. Arun Kumar Pandey

Senior Consultant & Robotic Surgeon
AIIMS, Gorakhpur

Robotic versus Conventional TKR: Accuracy,
Functional Outcomes and Current Evidence

DAY 2 • 8:40-9:20 AM



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03 Guest Faculty

continued

REGIONAL FACULTY



Dr. Manav Luthra

Consultant, Orthopaedic & Joint Replacement
Surgery
M.B.B.S., M.S. (Orthopaedics)
Fortune Hospital, Kanpur

Robotic TKR in Varus and Valgus Knees

DAY 2 • 8:00–8:40 AM



Dr. Daksh Gadi

Senior Consultant, Joint Replacement &
Arthroscopy
Regency Hospital, Kanpur

Alignment Philosophies in Robotic TKR

DAY 1 • 10:10–10:50 AM

SCIENTIFIC JURY PANEL



Dr. Sanjay Kumar

Professor & HOD, Department of Orthopaedics
GSVM Medical College, Kanpur



Dr. Saurabh Aggarwal

Professor & Former HOD, Department of
Orthopaedics
MLB Medical College, Jhansi

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04 Organising Committee

CHIEF PATRON



Dr. AK Gupta

CHIEF PATRON
Professor

CO-PATRON



Dr. Deepak Kumar

CO-CHIEF PATRON
Professor

ORGANISING CHAIRS



Dr. Sanjeev Kr. Singh

CHAIRMAN
Professor & HOD



Dr. Himanshu Bajpai

CO-CHAIRMAN
Professor



Dr. Prashant Kr. Sharma

ORGANISING SECRETARY
Associate Professor

CO-ORGANISING



Dr. Vinit Kr. Singh

CO-ORGANISING SECRETARY
Assistant Professor



Dr. Sudhanshu Shekhar

SCIENTIFIC COMMITTEE SECRETARY
Assistant Professor



Dr. Harshit Pandey

CO-SCIENTIFIC COMMITTEE SECRETARY
Senior Resident



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05 About the National Level Conference

Case-based look at robotic total knee arthroplasty, from CT planning to the final implant.

WHO SHOULD ATTEND

Orthopaedic surgeons who perform or plan to adopt robotic knee arthroplasty.

Orthopaedic trainees: postgraduates, senior residents and fellows.

ACCREDITATION & CERTIFICATES

6 credit points from the Uttar Pradesh

Medical Council. Credits are awarded to delegates who attend both days.

Participation certificates are issued at the valedictory, and winners of the student activities receive merit certificates.

WHAT YOU WILL BE ABLE TO DO

1. Select patients for robotic TKR using clear inclusion and exclusion criteria.
2. Choose an alignment philosophy and build a CT-based plan: landmarks, implant sizing and component position.
3. Balance gaps and execute bone cuts accurately, including in varus and valgus knees.
4. Anticipate pitfalls, troubleshoot errors and use intraoperative checkpoints.
5. Follow the full robotic workflow, from positioning and registration to trialling.
6. Get hands-on with robotic instruments on bone models in a simple, guided station.
7. Weigh robotic against conventional TKR, and plan surgeon training for a safe learning curve.



Intra-operative gap check on the robotic console — medial and lateral gaps in extension and flexion, alongside planned femoral and tibial resections.

Event Roadmap

06 Day One

Friday, 9 October 2026

8:00–8:30 AM	Registration
8:30–8:40 AM	Welcome Address Dean / Principal / Medical Superintendent
8:40–9:00 AM	Introduction to ROBO KNEE 2026 Dr. Sanjeev Kumar Singh Professor & HOD, Department of Orthopaedics, RMCH & RC, Kanpur
9:00–9:30 AM	Lamp Lighting and Inauguration
9:30–10:10 AM	Patient Selection in Robotic TKR: Indications, Contraindications and Case Selection Dr. Rohan Singh Parhar Lecture 01 • 30 min lecture + 10 min discussion
10:10–10:50 AM	Alignment Philosophies in Robotic TKR: Mechanical, Kinematic and Functional Alignment Dr. Daksh Gadi Lecture 02 • 30 min lecture + 10 min discussion
10:50–11:00 AM	Tea break
11:00–11:40 AM	CT-Based Pre-operative Planning: Anatomical Landmarks, Implant Sizing and Component Positioning Dr. Sahil Gaba Lecture 03 • 30 min lecture + 10 min discussion
11:40 AM–12:20 PM	Video Demonstration of Robotic TKR: A Complete Case, Step by Step Dr. Rohan Singh Parhar Positioning, registration, bone mapping, resections, gap balancing, trialling and implantation.
12:20–1:00 PM	Gap Balancing and Precision Bone Resection in Robotic TKR Dr. Gaurav Singh Lecture 04 • 30 min lecture + 10 min discussion
1:00–1:40 PM	Lunch
1:40–2:00 PM	Introduction to the Robotic Platform: System Architecture, Console and Haptic Control Dr. Pranav Sharma
2:00–5:00 PM	Hands-on Workshop: Robotic Bone Resection on Saw-Bone Models Demonstrator: Dr. Rohan Singh Parhar • Moderator: Dr. Sahil Gaba Guided stations for registered workshop delegates: bone cuts, gap balancing and component trialling.
5:00–5:20 PM	Tea break
5:20–6:00 PM	Open Forum: Audience Questions and Faculty Discussion Close of Day One



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07 Day Two

Saturday, 10 October 2026

8:00–8:40 AM

Robotic TKR in Varus and Valgus Knees: Deformity-Specific Planning and Execution

Dr. Manav Luthra Lecture 05 · 30 min lecture + 10 min discussion

8:40–9:20 AM

Robotic versus Conventional TKR: Accuracy, Functional Outcomes and Current Evidence

Dr. Arun Kumar Pandey Lecture 06 · 30 min lecture + 10 min discussion

9:20–10:00 AM

The Learning Curve in Robotic TKR: Surgeon Training, Team Workflow and Safe Adoption

Dr. Sahil Gaba Lecture 07 · 30 min lecture + 10 min discussion

10:00–10:40 AM

Scientific Poster Presentations

PG

Dr. Saurabh Aggarwal

10:40–11:00 AM

Tea break

11:00–11:40 AM

The Future of Robotic TKR: Artificial Intelligence, Digital Twins and the Smart Operating Room

Dr. Ajay Rajput Lecture 08 · 30 min lecture + 10 min discussion

11:40 AM–12:00 PM

Felicitation

12:00–1:00 PM

Rapid-Fire Quiz on Robotic Total Knee Arthroplasty

PG

Dr. Sanjay Kumar

1:00–2:00 PM

Lunch

2:00–5:00 PM

Hands-on Cadaveric Workshop: Robotic TKR on Cadaveric Specimens

Demonstrator: Dr. Sahil Gaba · Moderator: Dr. Rohan Singh Parhar Guided stations for registered workshop delegates: bone cuts, gap balancing and implant trialling.

5:00–5:10 PM

Tea break

5:10–5:30 PM

Valedictory: Prize Distribution for the Poster and Quiz Winners

Participation and merit certificates

5:30–6:00 PM

Vote of Thanks

Close of ROBO KNEE 2026



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08 Activities & Registration

01

Video demonstration

A full robotic TKR case shown step by step, followed by a debrief on the robotic console and the operating room workflow.

02

For postgraduates

Two-round rapid-fire quiz, robotic versus conventional debate and poster presentations.

03

Hands-on station

Guided practice with robotic instruments on bone models or a cadaveric specimen, covering bone cuts and gap balancing. Optional add-on.

Awards for the debate, posters and quiz are presented at the valedictory on Day 2.

NATIONAL LEVEL CONFERENCE REGISTRATION

	REGULAR online	SPOT at the venue
Consultant / Faculty / Senior Resident	₹ 2,500	₹ 3,500
PG Junior Resident	₹ 1,500	₹ 2,500
ADD-ONS		
Workshop — saw-bone model for all registered delegates	Free	Free
Workshop — cadaveric	₹ 5,000	₹ 8,000
Poster presentation (PG)	₹ 300	₹ 300

For accommodation and assistance, contact us.

Registration covers both days, lunch, tea and the conference kit. Workshops are optional add-ons. Seats are limited, and workshop places are allotted in order of registration.

CONFERENCE WEBSITE — CLICK TO VISIT

roboknee-kanpur.in >



REGISTER ONLINE

forms.gle/hPWKsQasD8haNQe59

[Click here to register >](#)

Conference Secretariat

Department of Orthopaedics
Rama Medical College Hospital & Research Centre,
Mandhana, Kanpur 209217

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Dr. Sanjeev Kr. Sharma Dr. Pankaj Pattaneshetti Dr. Aishwarya Jha Dr. Yash Aggarwal Dr. Sidharth Mahajan Dr. Arjab Singh Dr. Saurabh Gupta
All JR-1



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