



ARKA JAIN
University
Jharkhand

NAAC
GRADE A
ACCREDITED UNIVERSITY

B. Sc. (Hons.) PROGRAMMES

- Anaesthesia & Operation Theatre Technology
- Medical Laboratory Science
- Cardiovascular Technology
- Medical Radiology & Imaging Technology
- Forensics

SCHOOL OF ALLIED HEALTH SCIENCE

POWERED BY  **EMVERSITY**



OF EXCELLENCE

4

APPLY FOR

AJUCET 2026



Join Us ON YOUR JOURNEY *To Success!*

ABOUT ARKA JAIN UNIVERSITY

ARKA JAIN University was established in the year 2017 by the Jharkhand State Legislature under **"The ARKA JAIN University Act"** and is recognized by UGC.

Located in the tribal district Seraikela-Kharsawan, it is the first state private university in the Kolhan region (comprising of three districts) of the state.

First **NAAC 'A'** Grade Accredited State Private University (in the First Cycle) in Bihar, Jharkhand & West Bengal.

The University has its root in the prestigious JAIN Group of Institutions, Bengaluru which has 77-plus educational institutions under its fold.

It is mentored by JAIN (Deemed-to-Be-University), Bengaluru, a NAAC A++ and NIRF Top-100 HEI.

The university has the necessary affiliations, recognitions and memberships from different bodies such as **AICTE, BCI, PCI, INC, JNRC, AIU, ASCO.**



1

ILLUSTRIOUS LEGACY

ARKA JAIN University is part of the famed JAIN Group of Institutions, Bengaluru and mentored by JAIN (Deemed-to-be-University), Bengaluru

2

WHAT EMBODIES OUR IDENTITY

NAAC-A Grade Accreditation, Academic Excellence, Diverse Program Options, Industry-ready Graduates – We have' em All!

3

NAAC A GRADE

Accredited with A Grade by NAAC in the first cycle with a CGPA Score of 3.15 / 4.0

4

RANKED 38th AMONG PRIVATE & DEEMED MULTI-DISCIPLINARY UNIVERSITIES IN INDIA

In THE WEEK–Hansa Research Survey 2026: India's Best Universities

5

RECOGNIZED IN THE R WORLD INSTITUTIONAL RANKING - GREEN RANKINGS 2026

with the prestigious Titanium+ Band, under the category "Institution of Accelerated Sustainability Impact"

6

ISO-CERTIFIED

ISO 21001:2018 Certified "Educational Organization Management System" University

7

AIU MEMBER

Member of Association of Indian Universities

8

80+ MOUS

Learn from the best, network with the brightest

9

ROBUST CAMPUS RECRUITMENT

₹ 23 LPA Highest Package, 3800+ Placements and 780+ Companies visited till date

RAGGING-FREE CAMPUS

A ragging-free campus that fosters a safe, respectful, and welcoming environment for every student.



How the Year Unfolds at

Beginning of Odd Semester Classes
for the Non-First-Year Students



AARAMBH

Welcome Day Function for
First-year Students



Induction-cum-Orientation

and Beginning of Classes
for First-year Students



Jain Premier League

Inter-school Annual T-20 Cricket
Tournament



Beginning of Even Semester Classes
(Except First Year)



Aagaaz

Annual Cultural
Fest



Odd Semester End-term
Examination (First Year)



Shikhar

The Annual Entrepreneurial
Conclave



Beginning of Even Semester Classes
(First Year)



ARKA JAIN University

Roo-b-Roo

Fresher's Function for
First-year Students



Navotsav

Gandhi / Shastri Jayanti-
cum-Navotsav Celebration Week



Roshni

Annual Celebration
of Light



Carvaan

Annual Excursion
Tour



Runbhoomi

Annual Sports
Meet



Odd Semester End-term
Examination (Except First Year)



Holi Invasion

Annual Pre-Holi
Bash



Rukhsat

Farewell to Final
Year Students



Even Semester End-term
Examination



TOP 5

REASONS TO BE A PART OF

ARKA **JAIN** UNIVERSITY

- 1 First NAAC 'A' Grade Accredited State Private University (in the First Cycle) in Bihar, Jharkhand & West Bengal.

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- 2 Part of the JAIN Group of Institutions, Bengaluru; Mentored by NAAC A++ and NIRF-Top 100 JAIN (Deemed-to-be-University), Bengaluru

.....

- 3 Member - Association of Indian Universities (AIU)

.....

- 4 80+ MOUs (International & National) with Corporate and Academic Partners

.....

- 5 ISO 21001:2018 Certified "Educational Organization Management System" University



SCHOLARSHIP

For Scholarships, visit - <https://arkajainuniversity.ac.in/admissions/scholarship/>

INTRODUCTION TO MICROBIOLOGY

- Microbiology is the study of microorganisms
- These include bacteria, viruses, fungi, protozoa and algae.
- Microorganisms are visible only under microscope.
- They play important role in health, disease and environment.



**SCHOOL OF
ALLIED HEALTH
SCIENCE**

The School of Allied Health Science at ARKA JAIN University prepares future-ready healthcare professionals through industry-integrated education, advanced practical training, and clinical exposure. Powered by Emversity, the programmes combine academic excellence with experiential learning, simulation-based training, structured internships, and employer-driven skill development to equip students for successful careers across the healthcare ecosystem.

FIVE INDUSTRY-READY BACHELOR OF SCIENCE (HONS.) PROGRAMMES POWERED BY EMVERSTY

■ B. SC. (HONS.) IN MEDICAL LABORATORY SCIENCE (MLS)

Develop expertise in clinical diagnostics, pathology, microbiology, molecular diagnostics, and laboratory automation to support accurate disease detection and patient care.

■ B. SC. (HONS.) IN ANAESTHESIA & OPERATION THEATRE TECHNOLOGY (AOTT)

Acquire specialised skills in anaesthesia support, operation theatre management, perioperative care, surgical assistance, and critical care practices.

■ B. SC. (HONS.) IN CARDIOVASCULAR TECHNOLOGY (CVT)

Gain hands-on expertise in cardiac diagnostics, echocardiography, catheterisation laboratory procedures, cardiovascular imaging, and interventional cardiology support.

■ B. SC. (HONS.) IN MEDICAL RADIOLOGY & IMAGING TECHNOLOGY (MRIT)

Learn advanced diagnostic imaging techniques including X-ray, CT, MRI, ultrasonography, mammography, and interventional radiology through extensive clinical exposure.

■ B. SC. (HONS.) IN FORENSICS

Develop scientific investigative skills in crime scene investigation, forensic biology, forensic chemistry, toxicology, digital forensics, DNA analysis, and criminal investigation.

■ A FUTURE-READY LEARNING EXPERIENCE

ACROSS ALL PROGRAMMES, STUDENTS BENEFIT FROM:

- Industry-integrated curriculum powered by Emversity
- AR/VR-enabled simulation and hands-on practical learning
- Structured clinical internships and field exposure
- Cambridge English for Healthcare Professionals*
- Placement assistance through Emversity's healthcare and industry network
- Academic excellence backed by ARKA JAIN University

(*Applicable to healthcare programmes.)

WHY STUDY AT THE SCHOOL OF ALLIED HEALTH SCIENCE, AJU?

Choosing the School of Allied Health Science at AJU means embarking on a career-focused academic journey that blends healthcare innovation with industry-aligned training. Powered by Emversity, the school ensures students are equipped not just with knowledge—but with the tools, exposure, and support to thrive in the healthcare sector.

- **POWERED BY EMVERSTY – A FUTURE-READY LEARNING ECOSYSTEM** : Through our partnership with Emversity, students benefit from experiential, technology-driven education including digital platforms, simulation-based training, and a personal study laptop to support learning anywhere, anytime.
- **SPECIALIZED, HIGH-DEMAND PROGRAMS** : Our B.Sc. (Hons.) programs in Anaesthesia & Operation Theatre Technology, Medical Laboratory Science, Cardiovascular Technology, Medical Radiology & Imaging Technology, Forensics are designed to fill critical roles in hospitals and healthcare systems worldwide.
- **MODERN CLASSROOMS & SMART INFRASTRUCTURE** : All classrooms are fully equipped with modern teaching aids and smart infrastructure, enabling interactive and immersive learning experiences aligned with today's healthcare demands.
- **HANDS-ON CLINICAL EXPOSURE FROM EARLY SEMESTERS** : Students receive practical training in hospital environments under expert supervision—applying classroom knowledge to real clinical scenarios in ICUs, diagnostic labs, OT suites, and emergency units.
- **ASSISTANCE FOR PAID INTERNSHIP IN FINAL YEAR** : Emversity provides due assistance for paid internship in the final year at a partner healthcare organization, offering real-world exposure, industry credibility, and a professional head start.
- **PLACEMENT ASSISTANCE WITH PARTNER HEALTHCARE NETWORKS** : Students receive dedicated support for final placements through our partner hospitals and diagnostic centers, ensuring strong pathways to employment upon graduation.
- **CAREER-READINESS SUPPORT: RESUME TO RECRUITMENT** : Dedicated sessions on job preparedness, resume building, interview skills, and soft skill development help students stand out in competitive hiring environments.
- **GLOBAL OPPORTUNITIES AND HIGHER STUDIES PATHWAYS** : Graduates are equipped to pursue careers in super-specialty hospitals, research labs, and global healthcare systems, or to advance through postgraduate or certification programs in India and abroad.

AT AJU'S SCHOOL OF ALLIED HEALTH SCIENCE, YOU DON'T JUST STUDY HEALTHCARE—YOU LIVE IT.

With hands-on learning, real hospital exposure, and Emversity-powered tools at your fingertips, you're prepared to step confidently into the future of patient care and clinical excellence.

BENEFITS FOR ENROLLED CANDIDATES

Each candidate enrolling for any of the Emversity-empowered program will receive:

- A laptop
- A comprehensive learner's kit, which includes:

- Bag

- T-shirt

- Sipper

- Diary

- Pen



ABOUT EMVERSIITY

Founded in 2024, Emversity is a Bengaluru-based skill-development powerhouse. It is a leading healthcare education and training platform, committed to bridge the gap between academic learning and industry readiness. Built to bridge the gap between traditional education and workforce demand, it is currently present in 36 campuses across 18 states.

Emversity specializes in industry-integrated, technology-enabled training, especially in healthcare, travel, and hospitality sectors. Unlike traditional degree programs, it blends immersive simulation, virtual reality labs, and employer-designed curriculum with stipend-linked internships and guaranteed placement assistance.

Its healthcare division, in partnership with ARKA JAIN University, offers customized B Sc Hons. degrees resulting in pipeline-ready graduates in allied health fields, ensuring they emerge not just with degrees—but with real-world experience and job readiness from day one.

THE EMVERSIITY EDGE

- **CAREER GUIDANCE & EXPLORATION** : Workshops and individual consultations to help the student identify career goals within the identified services field as per the chosen program.
- **RESUME & INTERVIEW SKILLS WORKSHOPS** : Guidance for crafting a compelling resume and cover letter that showcases student's skills and qualifications relevant to the positions as applicable. Mock interviews to hone communication, problem-solving, and critical thinking skills under pressure.
- **INDUSTRY CONNECTIONS** : Emversity has strong relationships with hospitals, clinics, diagnostic laboratories, quality control centres, research centres and government agencies thus leveraging these connections to connect the students with potential employers.
- **JOB PLACEMENT ASSISTANCE** : Dedicated placement team actively seeks job opportunities that match the student's skills, career aspirations, and preferred location within the services field along with a curated list of openings and assistance in navigating the application process.



CLUB NAME : NUCLEUS

The term symbolizes the core strength of the AHS departments — much like the nucleus is the center of life and energy, this club will serve as the epicenter of student innovation, healthcare service, research, and engagement.



The NUCLEUS club focuses on:

- Organizing national seminars and academic workshops
- Conducting community health camps and awareness drives
- Facilitating student-led healthcare initiatives, scientific activities, and outreach programs
- Promoting a collaborative, interprofessional learning culture

The club's vision is to empower students through knowledge, care, and community service, aligning with the values of ARKA JAIN University.







B. Sc. (Hons.) MEDICAL LABORATORY SCIENCE

POWERED BY



EMVERSITY

ABOUT THE PROGRAMME

The four-year B. Sc. (Hons.) in Medical Laboratory Science prepares students to become skilled diagnostic professionals equipped with expertise in haematology, clinical biochemistry, microbiology, histopathology, immunology, molecular diagnostics, and laboratory automation. Through a blend of academic excellence at ARKA JAIN University and industry-skilling by Emversity, students gain hands-on clinical exposure, structured internships, AR/VR simulation training, and employer-oriented practical learning to become workplace-ready healthcare professionals.

WHY PURSUE B. SC. (HONS.) IN MEDICAL LABORATORY SCIENCE FROM ARKA JAIN UNIVERSITY?

The programme combines classroom learning with practical laboratory training and industry-led skill development to prepare students for modern diagnostic laboratories. With Emversity's employer-designed curriculum, advanced simulation learning, structured hospital internships, and placement assistance, graduates develop both technical expertise and professional confidence required in today's healthcare ecosystem.

KEY ADVANTAGES

- Comprehensive training across modern diagnostic laboratory disciplines
- AR/VR-enabled simulation and hands-on laboratory learning
- Structured clinical internships with healthcare partners
- Industry-designed skill modules aligned to employer requirements
- Cambridge English for Healthcare Professionals
- Placement assistance through Emversity's healthcare network

UNIQUE LEARNING EXPERIENCE

- > **SEMESTER I** : Human Anatomy, Biochemistry, Basic Nursing & First Aid, Computer Applications in Healthcare
- > **SEMESTER II** : Clinical Biochemistry, Introduction to Laboratory Environment, Human Physiology (Advanced)
- > **SEMESTER III** : Clinical Biochemistry, Haematology & Blood Banking, Histopathology & Cytology
- > **SEMESTER IV** : Immunology & Serology, Clinical Pathology, Molecular Biology Basics
- > **SEMESTER V** : Molecular Diagnostics & Genetics, Advanced Haematology & Coagulation, Clinical Enzymology & Endocrinology
- > **SEMESTER VI** : Toxicology & Forensic Laboratory Science, Advanced Immunology & Transplant Diagnostics, Point-of-Care Testing & Automation
- > **SEMESTER VII** : Laboratory Accreditation & NABL Standards, Advanced Laboratory Automation & Informatics, Healthcare Quality & Accreditation
- > **SEMESTER VIII** : Structured Clinical Internship, Capstone Project / Research Dissertation, Cambridge English for Healthcare Professionals

CAREER OPPORTUNITIES



Medical Laboratory
Technologist

Blood Bank
Technologist



Clinical Pathology
Technician



Molecular Diagnostics
Technician



Microbiology Laboratory
Technician



Histopathology
Technologist



Laboratory Quality
Coordinator



Research Laboratory
Associate

UNIQUE LEARNING EXPERIENCE

Students receive placement assistance through Emversity's healthcare employer network comprising leading hospitals, diagnostic chains, research laboratories, and healthcare organisations across India.

PROGRAM STRUCTURE

BSC (H) IN MEDICAL LABORATORY SCIENCE

YEAR 1: BIOMEDICAL FOUNDATIONS (SEMESTERS 1–2)

SEMESTER I

Human Anatomy
Human Physiology
Biochemistry
Communicative English
Computer Applications in Healthcare
Basic Nursing & First Aid
Anatomy Practicals & Lab

SEMESTER II

Human Anatomy (Advanced)
Human Physiology (Advanced)
Biochemistry (Clinical)
Environmental Science
Constitution of India & Human Rights
Introduction to Laboratory Environment
Physiology Practicals & Lab

YEAR 2: CLINICAL LABORATORY SCIENCES (SEMESTERS 3–4)

SEMESTER III

Pathology
Microbiology & Infection Control
Clinical Biochemistry
Haematology & Blood Banking
Histopathology & Cytology
Laboratory Equipment & Safety
Clinical Practicals – I

SEMESTER IV

Clinical Microbiology (Advanced)
Immunology & Serology
Clinical Pathology
Parasitology & Mycology
Molecular Biology Basics
Laboratory Quality Management
Clinical Practicals – II

YEAR 3: ADVANCED DIAGNOSTICS & SPECIALISATION (SEMESTERS 5–6)

SEMESTER V

Molecular Diagnostics & Genetics
Advanced Haematology & Coagulation
Clinical Enzymology & Endocrinology
Cytogenetics & Histochemistry
Transfusion Medicine (Advanced)
Clinical Rotation – I (Hospital-Based)

SEMESTER VI

Virology & Tropical Medicine Diagnostics
Toxicology & Forensic Laboratory Science
Advanced Immunology & Transplant Diagnostics
Point-of-Care Testing & Automation
Research Methodology & Biostatistics
Clinical Rotation – II (Hospital-Based)

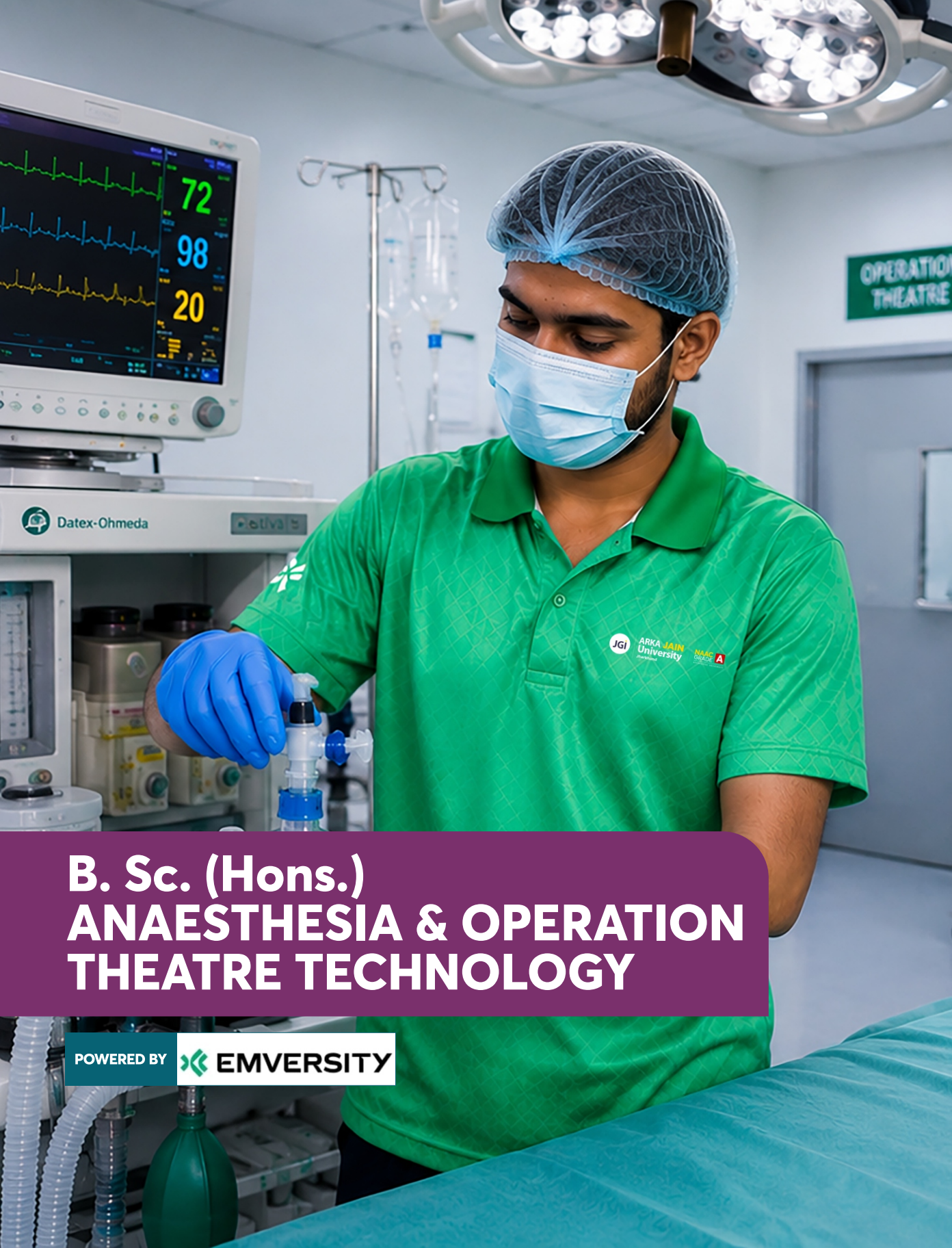
YEAR 4: CLINICAL PRACTICE & PROFESSIONAL READINESS (SEMESTERS 7–8)

SEMESTER VII

Laboratory Accreditation & NABL Standards
Advanced Laboratory Automation & Informatics
Healthcare Quality & Accreditation
Hospital Management & Administration (Elective)
Structured Clinical Internship

SEMESTER VIII

Capstone Project / Research Dissertation
Cambridge English for Healthcare Professionals (CEFR A1–B1)
Professional Development & Soft Skills
Clinical Internship (Continued)
Placement Preparation & Industry Readiness



B. Sc. (Hons.) ANAESTHESIA & OPERATION THEATRE TECHNOLOGY

POWERED BY



EMVERSITY

ABOUT THE PROGRAMME

The B. Sc. (Hons.) in Anaesthesia & Operation Theatre Technology equips students with the knowledge and practical skills required to assist anaesthesiologists and surgeons during perioperative care. The programme combines biomedical sciences with specialised OT technology, anaesthesia procedures, critical care practices, and simulation-based training. Through Emversity's industry-integrated learning model, students gain structured clinical internships and real-world hospital exposure to become highly employable allied healthcare professionals.

WHY PURSUE B. SC. (HONS.) IN AOTT FROM ARKA JAIN UNIVERSITY?

Students benefit from a curriculum aligned with current healthcare practices, combining classroom learning, simulation-based skill development, hospital internships, and employer-designed training. The programme prepares graduates to confidently work in operation theatres, trauma centres, ICUs, and surgical care environments.

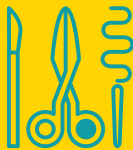
KEY ADVANTAGES

- Advanced OT and anaesthesia simulation training
- AR/VR-based clinical learning
- Structured hospital internships
- Employer-designed curriculum
- Cambridge English for Healthcare Professionals
- Dedicated placement assistance

UNIQUE LEARNING EXPERIENCE

- > **SEMESTER I** : Human Anatomy, Basic Nursing & First Aid, Computer Applications in Healthcare
- > **SEMESTER II** : Introduction to OT Environment, Human Anatomy (Advanced), Clinical Biochemistry
- > **SEMESTER III** : Basics of Anaesthesia Technology, OT Equipment & Instrumentation, Sterilisation & Disinfection Techniques
- > **SEMESTER IV** : Anaesthesia Delivery Systems & Monitoring, OT Management & Protocols, Surgical Procedures
- > **SEMESTER V** : Regional Anaesthesia Techniques, Critical Care & ICU Management, Advanced Airway Management
- > **SEMESTER VI** : Emergency Medicine & Trauma Care, Ventilator Management & Respiratory Support, Blood Banking & Transfusion Medicine
- > **SEMESTER VII** : Advanced OT Technology & Robotics, Anaesthesia Outside the OT, Healthcare Quality & Accreditation Standards, Hospital Management & Administration
- > **SEMESTER VIII** : Structured Clinical Internship, Capstone Project / Research Dissertation, Cambridge English for Healthcare Professionals

CAREER OPPORTUNITIES

 Anaesthesia Technologist	 Operation Theatre Technologist	 Critical Care Technician	 Surgical Equipment Technologist
 Pain Clinic Technician	 Medical Equipment Specialist	 Healthcare Quality Coordinator	 Hospital Infection Control Officer

UNIQUE LEARNING EXPERIENCE

Graduates are supported with internship and placement opportunities across multi-specialty hospitals, trauma centres, ambulatory surgical centres, intensive care units, and leading healthcare institutions.

PROGRAM STRUCTURE

B. SC. (H) IN ANAESTHESIA & OPERATION THEATRE TECHNOLOGY

YEAR 1: BIOMEDICAL FOUNDATIONS (SEMESTERS 1–2)

SEMESTER I

Human Anatomy
Human Physiology
Biochemistry
Communicative English
Computer Applications in Healthcare
Basic Nursing & First Aid
Anatomy Practicals & Lab

SEMESTER II

Human Anatomy (Advanced)
Human Physiology (Advanced)
Biochemistry (Clinical)
Environmental Science
Constitution of India & Human Rights
Introduction to OT Environment
Physiology Practicals & Lab

YEAR 2: CLINICAL SCIENCES & OT FUNDAMENTALS (SEMESTERS 3–4)

SEMESTER III

Pathology
Microbiology & Infection Control
Pharmacology (General)
Basics of Anaesthesia Technology
OT Equipment & Instrumentation
Sterilisation & Disinfection Techniques
Clinical Practicals – I

SEMESTER IV

Pharmacology (Anaesthesia-Specific)
Anaesthesia Delivery Systems & Monitoring
OT Management & Protocols
Surgical Procedures (General Surgery)
Patient Positioning & Safety
Medical Ethics & Bioethics
Clinical Practicals – II

YEAR 3: ADVANCED ANAESTHESIA & SPECIALISED PROCEDURES (SEMESTERS 5–6)

SEMESTER V

Regional Anaesthesia Techniques
Anaesthesia for Specialised Surgeries (Neuro, Cardio, Ortho)
Critical Care & ICU Management
Advanced Airway Management
Pain Management & Palliative Care
Clinical Rotation – I (Hospital-Based)

SEMESTER VI

Paediatric & Obstetric Anaesthesia
Emergency Medicine & Trauma Care
Ventilator Management & Respiratory Support
Blood Banking & Transfusion Medicine
Research Methodology & Biostatistics
Clinical Rotation – II (Hospital-Based)

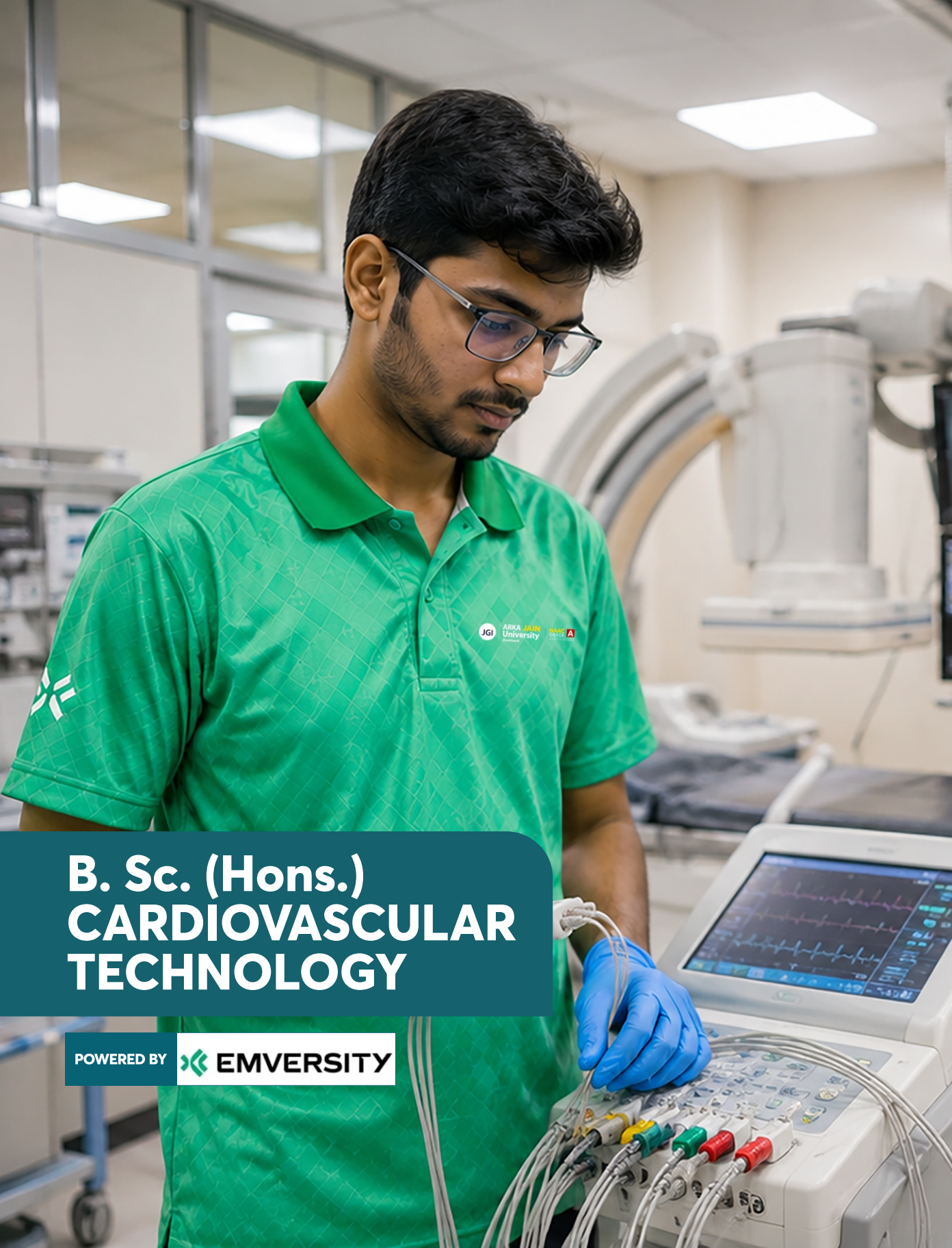
YEAR 4: CLINICAL PRACTICE & PROFESSIONAL READINESS (SEMESTERS 7–8)

SEMESTER VII

Advanced OT Technology & Robotics
Anaesthesia Outside the OT
Healthcare Quality & Accreditation Standards
Hospital Management & Administration (Elective)
Structured Clinical Internship

SEMESTER VIII

Capstone Project / Research Dissertation
Cambridge English for Healthcare Professionals (CEFR A1–B1)
Professional Development & Soft Skills
Clinical Internship (Continued)
Placement Preparation & Industry Readiness



B. Sc. (Hons.) CARDIOVASCULAR TECHNOLOGY

POWERED BY



EMVERSITY

ABOUT THE PROGRAMME

The B. Sc. (Hons.) in Cardiovascular Technology prepares students to become specialised professionals in cardiac diagnostics, cardiovascular imaging, catheterisation laboratory procedures, and interventional cardiology support. Delivered through the academic excellence of ARKA JAIN University and the industry-skilling expertise of Emversity, the programme combines theoretical learning with simulation-based training, structured clinical internships, and employer-oriented practical exposure.

WHY PURSUE B. SC. (HONS.) IN CARDIOVASCULAR TECHNOLOGY FROM ARKA JAIN UNIVERSITY?

The programme develops expertise in advanced cardiac diagnostics through an industry-integrated curriculum, AR/VR simulation, real-time hospital exposure, and structured internships. Students graduate with the technical skills and professional readiness required to excel in modern cardiac care settings.

KEY ADVANTAGES

- Training in advanced cardiac diagnostics
- Exposure to catheterisation laboratory procedures
- AR/VR simulation-based clinical learning
- Structured internships with healthcare partners
- Cambridge English for Healthcare Professionals
- Dedicated placement assistance

UNIQUE LEARNING EXPERIENCE

- > **SEMESTER I** : Human Anatomy, Human Physiology, Basic Nursing & First Aid
- > **SEMESTER II** : Human Anatomy (Cardiovascular), Human Physiology (Cardiovascular & Respiratory), Introduction to Cardiovascular System
- > **SEMESTER III** : Electrocardiography (ECG) & Interpretation, Non-Invasive Cardiac Diagnostics, Cardiac Anatomy & Physiology
- > **SEMESTER IV** : Echocardiography, Cardiac Catheterisation Fundamentals, Vascular Diagnostic Techniques
- > **SEMESTER V** : Interventional Cardiology & Cath Lab Procedures, Advanced Echocardiography, Cardiac Electrophysiology & Pacemaker Technology
- > **SEMESTER VI** : Paediatric Cardiology Diagnostics, Heart Failure Management & Devices (VAD/ECMO), Emergency Cardiac Care & ACLS
- > **SEMESTER VII** : Advanced Cath Lab Technology & Haemodynamics, Cardiac Device Management (ICD & CRT), Healthcare Quality & Accreditation Standards
- > **SEMESTER VIII** : Structured Clinical Internship, Capstone Project / Research Dissertation, Cambridge English for Healthcare Professionals

CAREER OPPORTUNITIES



Cardiovascular
Technologist



Cath Lab Technician



Echocardiography
Technologist



ECG/Holter/TMT
Technician



Cardiac Electrophysiology
Technician



Vascular Diagnostic
Technologist

Healthcare Equipment
Specialist



Cardiac Device
Specialist

UNIQUE LEARNING EXPERIENCE

Students receive internship and placement assistance through Emversity's extensive healthcare network, opening opportunities in leading cardiac hospitals, catheterisation laboratories, rehabilitation centres, and diagnostic facilities across India.

PROGRAM STRUCTURE

B. SC. (H) IN CARDIOVASCULAR TECHNOLOGY

YEAR 1: BIOMEDICAL FOUNDATIONS (SEMESTERS 1–2)

SEMESTER I

Human Anatomy
Human Physiology
Biochemistry
Communicative English
Computer Applications in Healthcare
Basic Nursing & First Aid
Anatomy Practicals & Lab

SEMESTER II

Human Anatomy (Advanced – Thorax & Cardiovascular)
Human Physiology (Cardiovascular & Respiratory)
Biochemistry (Clinical)
Environmental Science
Constitution of India & Human Rights
Introduction to Cardiovascular System
Physiology Practicals & Lab

YEAR 2: CARDIAC DIAGNOSTICS & FUNDAMENTALS (SEMESTERS 3–4)

SEMESTER III

Pathology
Microbiology & Infection Control
Pharmacology (Cardiovascular)
Electrocardiography (ECG) & Interpretation
Non-Invasive Cardiac Diagnostics
Cardiac Anatomy & Physiology (Advanced)
Clinical Practicals – I

SEMESTER IV

Echocardiography (Basic & Advanced)
Cardiac Catheterisation Fundamentals
Vascular Diagnostic Techniques
Haemodynamic Monitoring
Medical Ethics & Bioethics
Cardiac Rehabilitation Basics
Clinical Practicals – II

YEAR 3: ADVANCED CARDIOLOGY & INTERVENTIONAL PROCEDURES (SEMESTERS 5–6)

SEMESTER V

Interventional Cardiology & Cath Lab Procedures
Advanced Echocardiography (TEE, Stress Echo)
Cardiac Electrophysiology & Pacemaker Technology
Peripheral Vascular Interventions
Cardiac CT & MRI Fundamentals
Clinical Rotation – I (Hospital-Based)

SEMESTER VI

Paediatric Cardiology Diagnostics
Cardiac Surgery Assistance & Perfusion Basics
Heart Failure Management & Devices (VAD, ECMO)
Emergency Cardiac Care & ACLS
Research Methodology & Biostatistics
Clinical Rotation – II (Hospital-Based)

YEAR 4: CLINICAL PRACTICE & PROFESSIONAL READINESS (SEMESTERS 7–8)

SEMESTER VII

Advanced Cath Lab Technology & Haemodynamics
Cardiac Device Management (ICD, CRT)
Healthcare Quality & Accreditation Standards
Hospital Management & Administration (Elective)
Structured Clinical Internship

SEMESTER VIII

Capstone Project / Research Dissertation
Cambridge English for Healthcare Professionals (CEFR A1–B1)
Professional Development & Soft Skills
Clinical Internship (Continued)
Placement Preparation & Industry Readiness



B. Sc. (Hons.) MEDICAL RADIOLOGY & IMAGING TECHNOLOGY

POWERED BY  **EMVERSITY**

IMAGING. INNOVATION. IMPACT.

The Department of Medical Radiology & Imaging Technology, School of Allied Health Science at ARKA JAIN University, in collaboration with Emversity, offers a comprehensive four-year B. Sc. (Hons.) in Medical Radiology & Imaging Technology (MRIT).

Medical Radiology & Imaging Technologists play a vital role in modern healthcare by producing high-quality diagnostic images that support accurate disease diagnosis, treatment planning, and patient care.

Powered by AJU's partnership with Emversity, students benefit from technology-enabled learning, AR/VR simulation, advanced imaging laboratories, structured clinical internships, and industry-driven skill development.

The curriculum blends biomedical sciences, specialised imaging technologies, practical laboratory training, and extensive clinical exposure—ensuring students graduate as confident, industry-ready imaging professionals.

ABOUT THE PROGRAMME

The four-year B. Sc. (Hons.) in Medical Radiology & Imaging Technology prepares students to become skilled imaging professionals with expertise in X-ray imaging, Computed Tomography (CT), Magnetic Resonance Imaging (MRI), Ultrasonography, Mammography, and Interventional Radiology. Through a blend of academic excellence at ARKA JAIN University and industry-skilling by Emversity, students gain hands-on clinical exposure, structured internships, AR/VR simulation training, and employer-oriented practical learning to become workplace-ready healthcare professionals.

WHY PURSUE B. SC. (HONS.) IN MRIT FROM ARKA JAIN UNIVERSITY?

The programme combines strong academic foundations with advanced imaging technologies and industry-led practical training to prepare students for modern diagnostic imaging centres. With Emversity's employer-designed curriculum, simulation-based learning, structured hospital internships, and placement assistance, graduates develop the technical expertise and clinical confidence required in today's rapidly evolving medical imaging sector.

KEY ADVANTAGES

- Comprehensive training in advanced diagnostic imaging technologies
- AR/VR-enabled simulation and hands-on clinical learning
- Structured clinical internships with leading healthcare partners
- Industry-designed skill modules aligned to employer requirements
- Cambridge English for Healthcare Professionals
- Placement assistance through Emversity's healthcare network

UNIQUE LEARNING EXPERIENCE

- > **SEMESTER I** : Human Anatomy, Biochemistry, Basic Nursing & First Aid
- > **SEMESTER II** : Radiological Anatomy, Physics for Radiography & Radiation Science, Clinical Biochemistry
- > **SEMESTER III** : X-Ray Physics & Imaging Principles, Conventional Radiography Techniques, Digital Image Processing
- > **SEMESTER IV** : Radiation Biology & Protection, Contrast Radiography & Special Procedures, Quality Assurance in Radiology
- > **SEMESTER V** : Computed Tomography (CT) Imaging & Protocols, Magnetic Resonance Imaging (MRI) Fundamentals, Ultrasonography & Doppler Techniques
- > **SEMESTER VI** : Interventional Radiology Techniques, Advanced CT & MRI Applications, Radiation Therapy Technology Basics
- > **SEMESTER VII** : Advanced Interventional Radiology & Fluoroscopy, PACS, Teleradiology & Radiology Informatics, Healthcare Quality & Accreditation Standards
- > **SEMESTER VIII** : Structured Clinical Internship, Capstone Project / Research Dissertation, Cambridge English for Healthcare Professionals

CAREER OPPORTUNITIES



Radiographer / X-Ray Technologist



CT Scan Technologist



MRI Technologist



Ultrasonography Technician



Mammography Technologist



Interventional Radiology Technologist



Radiology Quality Coordinator



PACS Administrator

UNIQUE LEARNING EXPERIENCE

Students receive placement assistance through Emversity's healthcare employer network comprising leading hospitals, diagnostic imaging centres, radiology departments, and healthcare organisations across India.

PROGRAM STRUCTURE

B. SC. (H) IN MEDICAL RADIOLOGY & IMAGING TECHNOLOGY

YEAR 1: BIOMEDICAL FOUNDATIONS (SEMESTERS 1–2)

SEMESTER I

Human Anatomy
Human Physiology
Biochemistry
Communicative English
Computer Applications in Healthcare
Basic Nursing & First Aid
Anatomy Practicals & Lab

SEMESTER II

Human Anatomy (Advanced – Radiological Anatomy)
Human Physiology (Advanced)
Biochemistry (Clinical)
Environmental Science
Constitution of India & Human Rights
Physics for Radiography & Radiation Science
Physiology Practicals & Lab

YEAR 2: RADIOGRAPHY & IMAGING FUNDAMENTALS (SEMESTERS 3–4)

SEMESTER III

Pathology
Microbiology & Infection Control
Pharmacology (Contrast Media & Radiopharmaceuticals)
X-Ray Physics & Imaging Principles
Conventional Radiography Techniques
Darkroom & Digital Image Processing
Clinical Practicals – I

SEMESTER IV

Radiographic Positioning & Techniques (Advanced)
Radiation Biology & Protection
Contrast Radiography & Special Procedures
Patient Care in Radiology
Medical Ethics & Bioethics
Quality Assurance in Radiology
Clinical Practicals – II

YEAR 3: ADVANCED IMAGING MODALITIES (SEMESTERS 5–6)

SEMESTER V

Computed Tomography (CT) Imaging & Protocols
Magnetic Resonance Imaging (MRI) Fundamentals
Ultrasonography & Doppler Techniques
Mammography & Breast Imaging
Nuclear Medicine & PET-CT Basics
Clinical Rotation – I (Hospital-Based)

SEMESTER VI

Interventional Radiology Techniques
Advanced CT & MRI Applications
Radiation Therapy Technology Basics
Paediatric & Emergency Radiology
Research Methodology & Biostatistics
Clinical Rotation – II (Hospital-Based)

YEAR 4: CLINICAL PRACTICE & PROFESSIONAL READINESS (SEMESTERS 7–8)

SEMESTER VII

Advanced Interventional Radiology & Fluoroscopy
PACS, Teleradiology & Radiology Informatics
Healthcare Quality & Accreditation Standards
Hospital Management & Administration (Elective)
Structured Clinical Internship

SEMESTER VIII

Capstone Project / Research Dissertation
Cambridge English for Healthcare Professionals (CEFR A1–B1)
Professional Development & Soft Skills
Clinical Internship (Continued)
Placement Preparation & Industry Readiness



B. Sc. (Hons.) FORENSICS

POWERED BY



EMVERSITY

IMAGING. INNOVATION. IMPACT.

The Department of Forensics, School of Allied Health Science at ARKA JAIN University, in collaboration with Emversity, offers a future-focused four-year B. Sc. (Hons.) in Forensics.

This programme is designed to develop highly skilled forensic professionals with expertise in crime scene investigation, forensic biology, forensic chemistry, toxicology, fingerprint analysis, digital forensics, and forensic investigations.

Powered by AJU's partnership with Emversity, students benefit from advanced forensic simulation laboratories, technology-enabled learning, structured field internships, industry interaction, and practical investigative training.

The curriculum combines scientific principles, modern forensic techniques, hands-on laboratory experience, and field-based exposure—equipping students with the analytical, technical, and investigative skills required for successful careers in forensics and allied investigative agencies.

ABOUT THE PROGRAMME

The four-year B. Sc. (Hons.) in Forensics prepares students to become skilled investigative professionals with expertise in crime scene investigation, forensic biology, forensic chemistry, toxicology, fingerprint analysis, digital forensics, forensic psychology, and forensic medicine. Through a blend of academic excellence at ARKA JAIN University and industry-skilling by Emversity, students gain hands-on investigative exposure, structured field internships, advanced forensic simulation training, and employer-oriented practical learning to become workplace-ready forensic professionals.

WHY PURSUE B. SC. (HONS.) IN FORENSICS FROM ARKA JAIN UNIVERSITY?

The programme combines scientific learning with practical investigative techniques to prepare students for modern forensic laboratories and criminal investigation agencies. With Emversity's industry-designed curriculum, advanced forensic simulation laboratories, structured field internships, and placement assistance, graduates develop analytical expertise, investigative skills, and professional confidence required in today's forensic ecosystem.

KEY ADVANTAGES

- Comprehensive training across core forensic disciplines
- Advanced forensic simulation and practical investigative learning
- Structured field internships with forensic and investigative organisations
- Industry-designed curriculum aligned with employer requirements
- Expert sessions by forensic and law enforcement professionals
- Placement assistance through Emversity's employer network

UNIQUE LEARNING EXPERIENCE

- > **SEMESTER I** : Introduction to Forensics, Human Anatomy & Physiology, Computer Applications
- > **SEMESTER II** : Genetics & Molecular Biology, Forensic Physics, Criminology & Criminal Law
- > **SEMESTER III** : Forensic Biology, Forensic Chemistry, Toxicology, Fingerprint Science & Identification
- > **SEMESTER IV** : Crime Scene Investigation & Management, Forensic Ballistics & Firearms, Cybercrime & Digital Forensics
- > **SEMESTER V** : DNA Forensics, Digital Forensics, Questioned Documents, Forensic Chemistry
- > **SEMESTER VI** : Applied Forensics, Accident Investigations, Forensic Medicine, DNA Forensics Practicals
- > **SEMESTER VII** : Advanced Crime Scene Investigation, Cyber & Multimedia Forensics, Forensic Data Analysis & Interpretation
- > **SEMESTER VIII** : Forensic Laboratory Management, Research Project / Dissertation, Advanced Forensic Applications

CAREER OPPORTUNITIES



Forensic Laboratory Analyst



Crime Scene Investigation Officer



Fingerprint Expert



DNA Analyst / Forensic Biologist



Forensic Toxicologist



Digital Forensics Investigator



Document Examiner



Forensic Consultant

UNIQUE LEARNING EXPERIENCE

Students receive placement assistance through Emversity's employer network, opening career opportunities in forensic laboratories, crime scene investigation units, law enforcement agencies, cybercrime cells, investigative organisations, and legal consulting firms across India.

PROGRAM STRUCTURE

B. SC. (H) IN FORENSICS

YEAR 1: SCIENCE FOUNDATIONS & INTRODUCTION TO FORENSICS (SEMESTERS 1–2)

SEMESTER I

General Chemistry
General Biology
Human Anatomy & Physiology (Basics)
Introduction to Forensic Science
Communicative English
Computer Applications
Mathematics & Statistics for Forensic Science

SEMESTER II

Organic Chemistry
Genetics & Molecular Biology
Forensic Physics
Introduction to Criminology & Criminal Law
Environmental Science
Constitution of India & Human Rights
Lab Practicals – I

YEAR 2: CORE FORENSIC DISCIPLINES (SEMESTERS 3–4)

SEMESTER III

Forensic Biology (Blood, Hair, Fibre Analysis)
Forensic Chemistry (Drug & Explosive Analysis)
Toxicology (Poisons, Narcotics, Alcohol)
Fingerprint Science & Identification
Forensic Medicine & Medicolegal Jurisprudence
Crime Scene Investigation & Management
Lab Practicals – II

SEMESTER IV

Document Examination & Handwriting Analysis
Forensic Ballistics & Firearms
Forensic Anthropology & Odontology
Forensic Serology & DNA Profiling
Cybercrime & Digital Forensics (Introduction)
Forensic Psychology & Criminal Behaviour
Lab Practicals – III

YEAR 3: ADVANCED FORENSICS & PROFESSIONAL READINESS (SEMESTERS 5–6)

SEMESTER V

Forensic Chemistry – II
Questioned Documents
Digital Forensics
Ability Enhancement Course – III
Program Elective – II
Digital Forensics Practicals
Forensic Chemistry – II Practicals
Questioned Documents Practicals

SEMESTER VI

DNA Forensics
Forensic Medicine
Accident Investigations
Ability Enhancement Course – IV
Applied Forensics
DNA Forensics Practicals
Forensic Medicine Practicals
Accident Investigations Practicals
Minor Project

YEAR 4: RESEARCH, SPECIALISATION & PROFESSIONAL PRACTICE (SEMESTERS 7–8)

SEMESTER VII

Advanced Crime Scene Investigation
Cyber & Multimedia Forensics
Forensic Data Analysis & Interpretation
Internship / Field Training
Elective Specialisation
Research Methodology

SEMESTER VIII

Forensic Case Study & Documentation
Forensic Laboratory Management
Research Project / Dissertation
Internship / Field Training
Advanced Forensic Applications
Professional Ethics & Legal Procedures

LEARNING BY DOING

PROJECT & APPLICATION-BASED LEARNING

At ARKA JAIN University, the Emversity-powered B.Sc. (Hons.) programmes combine academic excellence with experiential learning to prepare highly skilled professionals for the healthcare and allied sectors. Industry-designed curriculum, simulation-based learning, structured practical exposure, and continuous mentorship ensure graduates develop the knowledge, technical expertise, and workplace readiness expected by today's employers.



SMART CLASSROOMS

Technology-enabled classrooms create an engaging learning environment through interactive teaching, digital content, case-based discussions, and collaborative learning that strengthen conceptual understanding.

AARAMBH – STUDENT INDUCTION PROGRAM

Aarambh familiarises students with university life, academic expectations, professional ethics, teamwork, communication skills, and institutional values through orientation sessions, interactive activities, and faculty engagement, ensuring a smooth transition into higher education.

STUDENT LIFE

Technical workshops, healthcare awareness programmes, industry interactions, cultural events, sports, community outreach, and professional development activities provide students with opportunities to build leadership, teamwork, creativity, and interpersonal skills.

LIBRARY & DIGITAL LEARNING RESOURCES

Students have access to a comprehensive collection of books, journals, e-resources, healthcare databases, digital libraries, and online learning platforms that support academics, research, innovation, and self-directed learning.



Academic
Foundation



Simulation-Based
Learning



Advanced Laboratory
Training



Clinical & Field
Exposure



One-Year Paid
Internship

INDUSTRY-INTEGRATED LEARNING FOR PROFESSIONAL EXCELLENCE

The Emversity learning ecosystem bridges classroom education with real-world practice through advanced laboratories, simulation-based training, structured clinical and field exposure, industry mentorship, and a unique paid internship model. Students graduate with both academic knowledge and valuable professional experience.



ADVANCED SIMULATION & PRACTICAL TRAINING - Students learn through AR/VR-enabled simulation, specialised laboratories, skill demonstrations, case-based learning, and technology-driven practical sessions before entering professional workplaces.



STRUCTURED CLINICAL & FIELD EXPOSURE - Continuous laboratory work, hospital visits, clinical postings, diagnostic centres, imaging facilities, and field-based learning enable students to apply classroom concepts under expert supervision while developing professional competence.



INDUSTRY INTERACTION & EXPERT MENTORSHIP - Regular workshops, guest lectures, masterclasses, and interactions with doctors, technologists, forensic professionals, healthcare leaders, and industry experts provide valuable practical insights into emerging technologies and professional practices.



ONE-YEAR PAID PROFESSIONAL INTERNSHIP - A defining feature of the Emversity-powered programmes is the entire fourth year dedicated to a paid internship at partner hospitals, diagnostic centres, healthcare organisations, clinics, laboratories, or allied industry partners.

Students work alongside experienced professionals, strengthen technical and clinical competencies, understand workplace expectations, and gain invaluable industry exposure while earning a stipend. This immersive learning model significantly enhances employability and ensures graduates are career-ready from day one.



CAREER READINESS & PLACEMENT SUPPORT - Resume building, interview preparation, communication training, employer networking, and dedicated placement assistance prepare students to confidently transition into successful professional careers across healthcare and allied sectors.

The Emversity-powered ecosystem transforms learning into experience, ensuring students graduate not only with a recognised degree from ARKA JAIN University but also with the practical skills, professional confidence, and industry exposure needed to succeed in a competitive global workforce.

CENTRE FOR CAPACITY BUILDING AND HUMAN RESOURCE DEVELOPMENT (CCHRD)



BUILDING CAPACITY. DEVELOPING SKILLS. CREATING LEADERS.

The CCHRD aims to enhance the skills and capabilities of students, faculty, staff members, and external stakeholders.

PURPOSE OF ESTABLISHMENT:

The CCHRD is dedicated to fostering growth and development through targeted capacity-building initiatives for the students. Further, it aims to create a supportive environment for continuous learning and professional advancement for faculty and staff members as well as external stakeholders

BENEFITS OF ESTABLISHMENT:

- **Skill Enhancement for Students** : Providing specialized training, courses and workshops to equip students with industry-relevant skills and competencies.
- **Professional Development for Faculty and Staff** : Offering professional development and faculty development programs to enhance teaching methodologies, research capabilities, and administrative efficiency.
- **Support for External Stakeholders** : Engaging with industry partners and community members fostering collaboration, and sharing expertise in the form of management development programs.
- **Resource Hub** : Serving as a central resource for accessing the latest knowledge, tools, and techniques in various fields of study and practice.
- **Career Advancement** : Facilitating career growth and opportunities for all participants by bridging the gap between academic knowledge and practical application.

CCHRD: A HUB FOR CAPACITY BUILDING & HOLISTIC SKILL DEVELOPMENT, CREATING EXCELLENCE THROUGH

- | | |
|---|---|
| ■ Student Development Programs | ■ Digital Literacy Initiatives |
| ■ Management Development Programs (MDPs) | ■ Career Readiness & Interview Preparation |
| ■ Outbound Training & Experiential Learning Exercises | ■ Industry-Driven Skill Development Workshops |
| ■ Industry Visits | ■ Mental Well-being Support |
| ■ Capacity Building & Skill Development Workshops | ■ Data Analytics Training |
| ■ Dialogue with Leaders Series | ■ Foreign Language Learning |
| ■ Corporate Mentoring | ■ Competitive Examination Preparation |

OUTBOUND TRAINING FOR EXPERIENTIAL LEADERSHIP & TEAM DEVELOPMENT

The Centre for Capacity Building and Human Resource Development (CCHRD) regularly conducts outbound training exercises designed to blend fun with experiential learning beyond the classroom environment. These structured outdoor activities aim to strengthen teamwork, leadership qualities, and self-confidence while enhancing physical fitness and mental resilience. Through engaging, interactive, and problem-solving-based challenges, students develop practical skills, adaptability, and a collaborative spirit—preparing them for real-world professional demands in a dynamic and holistic manner.



MoU with Markhub24, a cognitive marketing intelligence and learning platform



COMMITTEES, CENTRES, SOCIETIES, STUDENT CHAPTERS/ BRANCHES, CELLS, CLUBS, UNITS, COUNCILS

1. CENTRES



2.COMMITTEES

- INTERNAL COMPLAINTS COMMITTEE

3. CELLS

- INTERNAL QUALITY ASSURANCE CELL
- DISCIPLINE & ANTI RAGGING CELL
- STUDENT GRIEVANCE REDRESSAL CELL
- EQUAL OPPORTUNITY CELL
- ADMISSION FACILITATION CELL
- INDUSTRY INSTITUTE INTERACTION CELL
- TRAINING & PLACEMENT CELL
- RESEARCH AND DEVELOPMENT CELL
- AJU NYAY SAMARTHAN CELL – LEGAL AID & AWARENESS CELL (SCHOOL OF LAW)



4.COUNCILS



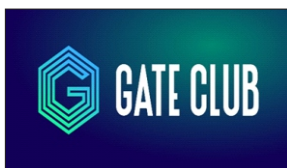
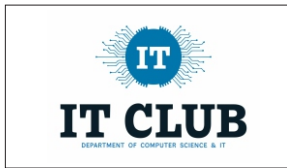
5. SOCIETIES



6.UNITS



7.CLUBS



8.STUDENT CHAPTERS/ BRANCHES



ADMISSION PROCESS

OFFLINE MODE

- Collect the Application Form, and Prospectus by paying the application fee, ₹1000/- (General Category) or ₹500/- (SC/ST Category) from
- City Office : D-28, Danish Arcade, Opp. Asian Inn Hotel Dhatkidih, Jamshedpur – 831001, Jharkhand
or
University Campus : Opp. Kerala Public School, Mohanpur Gamharia, District Seraikela-Kharsawan Jharkhand – 832108
- Submit the duly-filled application form along with the supporting documents and applicable fees at the City Office or University Campus.

ONLINE MODE

- Fill out the online application form by visiting: www.arkajainuniversity.ac.in
- Pay the application fee online: ₹1000/- (General Category) or ₹500/- (SC/ST Category)
- Download and submit the duly-filled application form at the City Office or University Campus.
- After document verification by the University Admission Officer, proceed with the payment of the applicable fees to confirm admission.

CONTACT DETAILS

☎ 📞 7371037371 | ☎ 📞 0657-2220285 | 2312007

Admission Office : D-28, Danish Arcade, Opposite Asian Inn Hotel, Dhatkidih, Jamshedpur - 831001

Campus Address : Opp. Kerala Public School, Mohanpur, Gamharia, District Seraikela Kharsawan, Jharkhand - 832108

Apply Online: www.arkajainuniversity.ac.in

Email: admission@arkajainuniversity.ac.in



SCAN FOR WEBSITE

