



**ALLIANCE
UNIVERSITY**
Private University established in Karnataka State by Act No.34 of year 2010
Recognized by the University Grants Commission (UGC), New Delhi

**NAAC
GRADE A+**
ACCREDITED UNIVERSITY



AU-QUASAR
Alliance University - Quantum AI
School for Advanced Research
BEYOND BITS, BEYOND LIMITS

LEARN TO LEAD

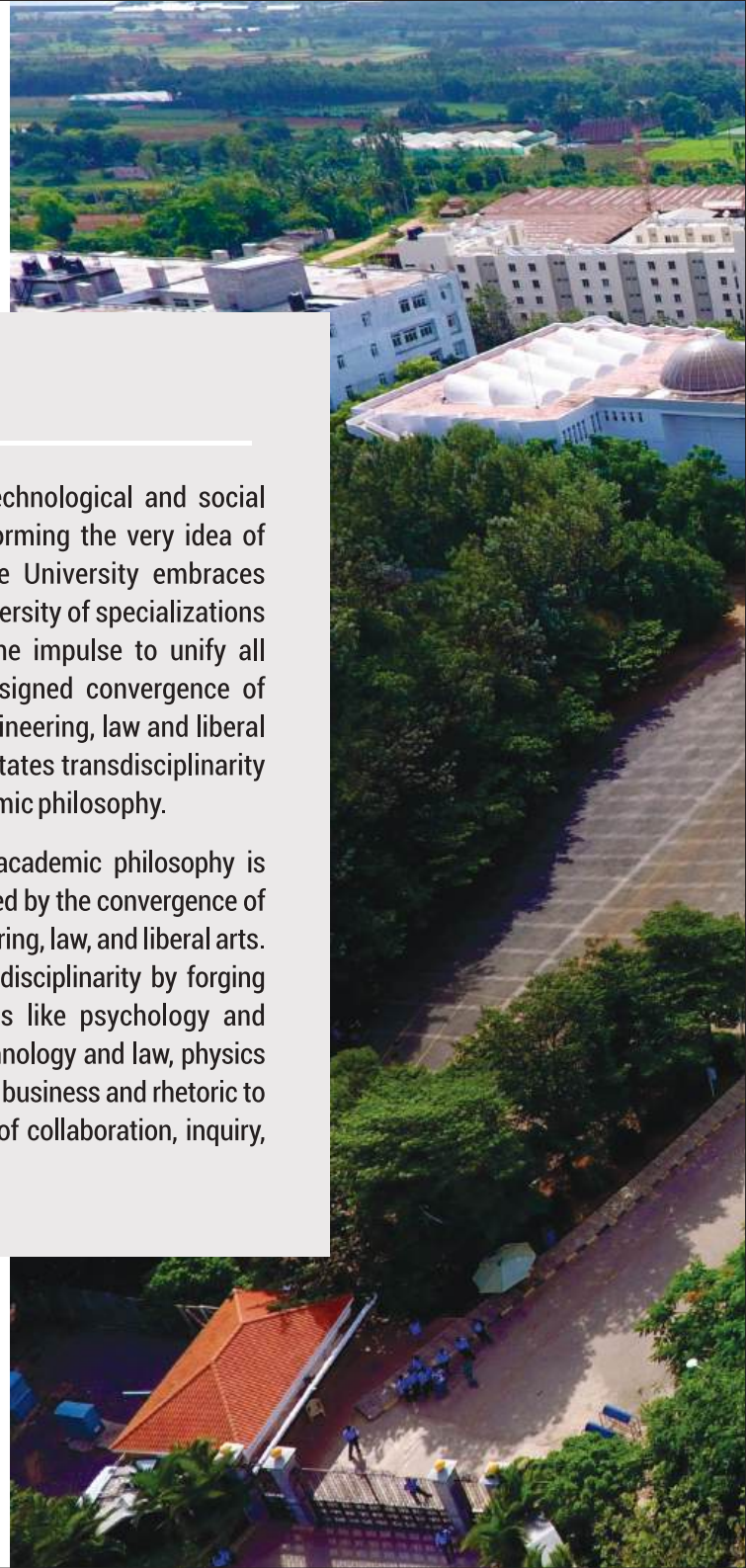


Integrated deep-tech Institute for Advanced
Research in Quantum AI, Machine Learning,
Robotics, and Cyber Physical Systems.



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ALLIANCE UNIVERSITY

As the first Private University established in South India, Alliance reimagines the idea of the University by creating a community that leads the charge against the complex challenges of the 21st century. The University conceives research to be the essence of all teaching and learning practices.

A unity between research and teaching is promoted to extend the frontiers of knowledge to solve real world problems at the local, national, and global scale. For this purpose, the University seeks to be the nerve center of interaction between industry, the government, the civil society, and the community at large.

In times when technological and social change is transforming the very idea of employability, the University embraces the increasing diversity of specializations while retaining the impulse to unify all knowledge. A designed convergence of the business, engineering, law and liberal arts units' precipitates transdisciplinarity as the core academic philosophy.

The University's academic philosophy is intentionally guided by the convergence of business, engineering, law, and liberal arts. It embodies transdisciplinarity by forging divergent streams like psychology and data science, technology and law, physics and philosophy or business and rhetoric to nurture the spirit of collaboration, inquiry, and enterprise.



ALLIANCE UNIVERSITY CENTRAL CAMPUS

AU-QUASAR

Alliance University - Quantum AI School for Advanced Research

India's premier integrated deep-tech school, represents Alliance University's strategic commitment to shaping the frontier of computational and engineering sciences, establishing a distinguished presence in next-generation technology research.

At the convergence of Quantum Computing, Artificial Intelligence, Robotics, and Cyber Physical Systems, the School unites these disciplines to unlock their transformative potential across research, innovation, and industry.

Powered by



Quantum Computer



FOREWORD

Alliance University - Quantum AI School for Advanced Research reflects our commitment to advancing foundational and applied sciences in areas that are redefining computation. By bringing together expertise across quantum computing, artificial intelligence, robotics, cyber physical systems, and machine learning the School is positioned to engage with technologies that will shape the future of research, industry, and society.

The initiative is designed to foster collaboration across academia and industry, serving as a quantum computing hub for over 200 global technology companies, national defence and aerospace PSUs, and is closely aligned with India's National Quantum Mission which has an outlay of ₹ 6,000 Crores. As deep-tech evolves, its impact is expected to extend across domains such as healthcare, materials science, climate modelling, and intelligent systems.

Through this institute, we aim to contribute to the development of a new generation of researchers and practitioners equipped to work at the intersection of disciplines and to participate in the ongoing transformation of computational sciences.

Keep growing at AU-QUASAR!



Abhay G. Chebbi

Pro-Chancellor, Alliance University

STRATEGIC AREAS OF RESEARCH & CAREER PATHWAYS

Quantum & AI Systems

India's quantum ecosystem is scaling under National Quantum Mission, with plans for 50 qubit systems by 2026 and ₹ 6,000 crore in quantum projects underway in India's public sector. India also aims to develop 25,000 quantum specialists within the next 5–7 years.

Students will work on quantum algorithms and hybrid quantum & AI systems, preparing for careers in research labs, deep tech startups, and global R&D teams.

Source: NASSCOM, The Quantum Revolution in India – Betting Big on Quantum Supremacy

AI & Machine Learning

India's AI market is projected to reach \$17 billion by 2027 while generative AI could contribute \$359–\$438 billion to GDP by 2030. India already employs 4,20,000+ AI professionals and leads the world in AI skill penetration.

Students will explore AI/ML, large scale modeling, and generative systems – opening opportunities in enterprise, AI research roles, and product innovation.

Source: India's AI market seen touching \$17 billion by 2027, notes NASSCOM-BCG report

Robotics & Cyber Physical Systems

Under India's National Mission on Interdisciplinary Cyber Physical Systems (NM ICPS), multiple innovation hubs are funded to advance autonomous systems, robotics, IoT, and CPS technologies.

Students will engage in autonomous robotics, embedded AI, and real time control systems, preparing for careers in automation, smart manufacturing, autonomous vehicles, and intelligent systems design.

Source: Department of Science and Technology, Government of India

Quantum Communication & Secure Networks

Secure quantum communication is a strategic priority for many countries including India. It involves satellite and fibre-based Quantum Key Distribution (QKD) research. India has achieved a milestone 1,000-km QKD network in under two years, and the focus is on sectors such as defence and banking.

Students from AU-QUASAR will be positioned for roles in national cyber initiatives, critical infrastructure defence, and secure communications engineering. Their expertise in post-quantum cryptography will play a key role in securing the future of an ever-evolving world.

Source: NASSCOM, The Quantum Revolution in India – Betting Big on Quantum Supremacy

Quantum Sensing & Precision Measurement

India invests in quantum sensors (atomic clocks, magnetometers) for precision navigation and environmental monitoring. This field directly contributes to Aerospace, Defence, and Scientific Instrumentation Sectors.

Students will gain practical experience in sensor design and analytics, skills highly valued in R&D and industry labs.

Source: NASSCOM, The Quantum Revolution in India – Betting Big on Quantum Supremacy



ABOUT THE PROGRAMS

A crucible of innovation, imagination, and intellect. Where equations become engines, algorithms become architects, and machines learn to think. Here, the frontiers of human knowledge meet the edge of possibility, forging technologies that were once the realm of visionaries. Each program is a journey through unexplored domains, a passage from curiosity to mastery, preparing minds to reshape the future of science, industry, and society.

BACHELOR OF TECHNOLOGY (B. TECH.)

Designed for students who aspire to build deep technical expertise from the outset. These programs integrate foundational engineering principles with advanced topics in computing, AI & ML, robotics, cybersecurity and system integration. Students gain expertise in algorithm design, intelligent systems, autonomous control, sensor integration, and emerging quantum computing paradigms building a career foundation across technology creation, research, and innovation.

- **B. Tech. in Computer Science & Engineering (Quantum Computing & Information Science)**
- **B. Tech. in Artificial Intelligence & Machine Learning**
- **B. Tech. in Robotics & Artificial Intelligence**
- **B. Tech. in Cyber Physical Systems**

High Impact Roles

- Quantum Algorithm Developer
- Quantum Engineer
- AI & Machine Learning Engineer
- Robotics & Automation Engineer
- Cyber Physical Systems Specialist

Duration

Four years, full-time (eight semesters), including capstone projects, design studies, internships, research interpretation.

Eligibility

Passed 10+2 or equivalent from a recognized Board / Council with a minimum of 50% marks (45% for SC/ST) in aggregate, and Physics & Mathematics as compulsory along with one of the subjects - Chemistry / Biotechnology / Biology / Computer Science.

Valid score in JEE (Main / Advanced) or AUQET (Alliance University QUASAR Entrance Test) or Karnataka state-level entrance examinations.



CURRICULUM & LEARNING JOURNEY

A four-phase progressive curriculum architecture with each phase corresponding to a distinct developmental stage in a student's journey from curious entrant to domain-expert graduate. The framework is designed so that each phase builds upon the previous, creating a coherent, longitudinal learning arc rather than a collection of disconnected courses.



A

AWAKEN

Building foundations for scientific thinking and creator mindset right through semester 1 & 2



U

UNCOVER

Hands-on with cutting-edge technology to explore the fields and understand the capacity through semester 3 & 4



R

REALIZE

Research pathways in deep tech and advanced systems leading up to product development through semester 5 & 6



A

ASCEND

Publishing the impact of research and innovation in specialised areas through semester 7 & 8

MASTER OF TECHNOLOGY (M. TECH.)

Designed for students who wish to pursue advanced study, research, and specialised mastery in areas transforming technology and society. These programs emphasize ethical AI, responsible innovation, and hybrid computational approaches combining symbolic, neural, and quantum methods. Ideal for students seeking leadership roles in research, industry, or academia.

- **M. Tech. in Artificial Intelligence & Deep Learning**
- **M. Tech. in Quantum Computing**
- **M. Tech. in AI-Powered Robotics & Automation Systems**
- **M. Tech. in Cognitive Computing**
- **M. Tech. in Ethical AI & Responsible Innovation**
- **M. Tech. in Hybrid AI Systems**

High Impact Roles

- AI Research Scientist
- Deep Learning Specialist
- Quantum Computing Researcher
- Quantum Software Engineer
- Robotics & Autonomous Systems Lead
- Ethical AI & Responsible Innovation Consultant
- Hybrid AI Systems Architect

Duration

Two years, full-time (four semesters), including research projects, thesis work, and industry internship.

Eligibility

B.E. / B. Tech. with a minimum of 50% marks (45% for SC/ST) or equivalent in aggregate in Computer Science/Information Technology or MCA.

Valid score in AUQET (Alliance University QUASAR Entrance Test).



INFRASTRUCTURE AND RESEARCH FACILITIES





On Campus Quantum Hardware
8-Qubit Superconducting
Quantum System

**Robotics, Autonomous &
Cyber Physical Labs**
Advanced Experimentation Spaces for
Robotics and Intelligent Systems



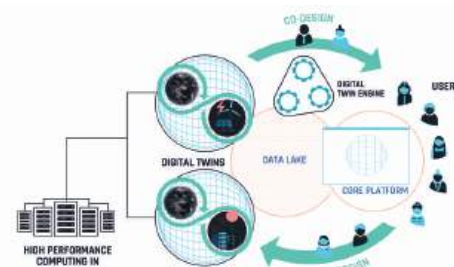
NVIDIA DGX H200 GPU Clusters
High-performance AI Model Training
Infrastructure

**Q-CaaS (Quantum Computing as a
Service) Platform**
Cloud-enabled Quantum Experimentation



Multi-Platform Quantum Cloud
Access to Global Quantum Ecosystems and
Simulation Environments

**Digital Twin & High-Performance
Computing Access**
Simulation Environments and HPC Resources
for Complex Modeling



INTERNATIONAL LINKAGES

Through a rich tapestry of articulation agreements with globally renowned and reputed universities and institutions, Alliance University propels students towards International excellence, nurturing their transformation into astute global citizens. Our spectrum of international programs not only unlocks avenues for global exposure but also crafts a crucible for refining cross-cultural perspectives, fostering academic prowess, and nurturing personal evolution.

SEMESTER EXCHANGE PROGRAMS
DUAL-DEGREE PROGRAMS
INTERNSHIP PROGRAMS
PATHWAY PROGRAMS



100+ PARTNERSHIPS WITH FOREIGN INSTITUTIONS FOR STUDENT MOBILITY

*representative list



INNOVATION AND VENTURE PATHWAYS

Startup as
Academic
Credit

Student
start-up grant
up to ₹10 Crores

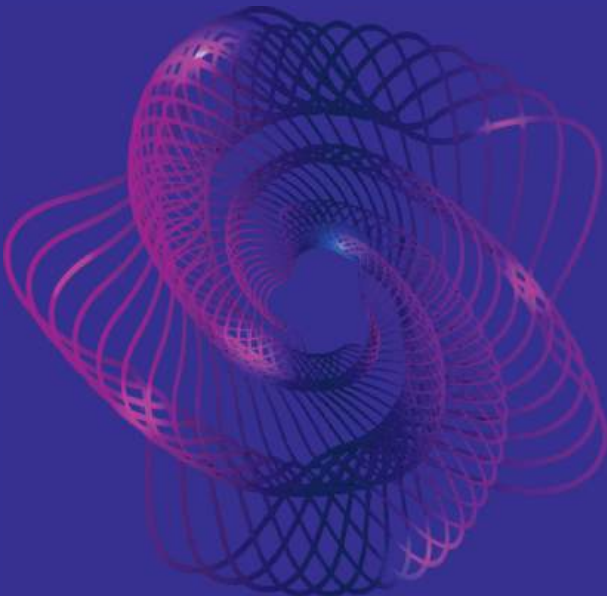
AURIIC

Powered by
Alliance University
Research Innovation
and Incubation Centre

IP Protection and
Legal Advisory

Pre-incubation
to Acceleration

Connect with India's top
Deep-tech Investor
Community



ALLIANCE UNIVERSITY AWARDS AND ACCOLADES

 Ministry of Education Government of India  (151-200 RANK-BAND UNIVERSITY)	 Recognised by University Grands Commission, India	 Technology Business Incubator, Approved by MSME, Government of India with a Corpus Fund of ₹ 10 Crores Sponsored by Alliance Business School	 Alliance University continues to make its mark in the QS World University Rankings: Asia 2026
 Ranked No. 1 in the National Sustainability Impact Institution's Ranking (NSIIR) by AIC-RAISE of the Atal Innovation Mission officially supported by Niti Aayog, Government of India	 Approved by All India Council for Technical Education	 Alliance School of Law is approved by Bar Council of India, New Delhi	 Among the Top Digii100 Higher Education Institutions Recognizing Outstanding Digital Excellence
 QS I-GAUGE Diamond Subject Rating for Law & Legal Studies	 A member of The Association to Advance Collegiate School of Business (AACSB), USA	 Accreditation for Business Programs through the International Accreditation Council for Business Education (IACBE), USA	 Recognised with the QS I-GAUGE Institution of Happiness Award
 QS I-GAUGE Diamond Subject Rating for Management	 Recipient of Coursera Engagement Excellence Award Recognizing Exceptional Learner Engagement and Innovation	 Alliance University is Entitled by UGC to Offer Online Degree Programs	 Approved as AIU Academic & Administrative Development Centre (AIU-AADC)



**TIMES ALL INDIA
ENGINEERING INSTITUTES
RANKING SURVEY 2025**

5th
AMONG TOP 30 INSTITUTES
IN RESEARCH CAPABILITY

7th
IN SOUTH INDIA
REGION-WISE

8th
AMONG TOP 125 PRIVATE
ENGINEERING INSTITUTES

10th
AMONG TOP 175
ENGINEERING INSTITUTES

16th
IN PLACEMENTS AMONG
TOP 70 PRIVATE INSTITUTES

STUDENT LIFE

Quantum Computing Club

Global quantum hackathons, Qiskit certification preparation, student-led research projects & paper reading sessions



AI Research Society

Deep-tech competition teams, AI for social good projects, research paper writing workshops, & ML model deployment challenges



Quantum Hacks

India's largest student quantum computing hackathon with a ₹ 5 lakh prize pool



Quasar AI Challenge

48-hour AI development marathon. Defence Tech Symposium: collaboration with DRDO on national security challenges



**Beyond the Classroom
Technical Clubs,
Hackathons, and
Global Exposure.**



Deep-tech Entrepreneurship Cell

Startup pitch events, investor connect sessions, product management workshops



Strategic Location in the Silicon Valley of India

Located at the heart of Electronics City, Bengaluru, AU-QUASAR is not merely an institution, it is a specialized ecosystem. We have shifted the focus from academic silos to a singular twenty-years horizon: Artificial Intelligence, Quantum Supremacy, and Autonomous Robotics.

Among 200+ Top Tech Companies of the World in the Neighborhood

The map displays the KLAY Electronic City area, highlighting numerous tech companies and landmarks. Key locations include:

- Bosch RBAI (Gate, 6)** Manufacturer
- Envision Financial Systems**
- Hewlett Packard Enterprise (HPE) : Beng...** Software company
- Altimetrik India**
- Altimetrik India Private Limited** Software company
- Sagility India**
- Infosys Foundation**
- Infosys**
- Tata Advanced Systems**
- Tech Mahindra**
- Tech Mahindra Limited** Software company
- Tech Mahindra Limited** Corporate office
- Tata Consultancy Services**
- PHASE II**
- M5 Ecity Mall**
- Wipro**
- Wipro electronic City** Corporate office
- C-DAC**
- Bosch EC3** Corporate office
- KLAY Electronic City, Phase 1 - Preschools an...** Welcome to KLAY - Where Every Child's...

Other landmarks and roads visible include: Central jail, Rayasandra Main Rd, Rayasandra Lake, Lake Rd, Basapura Village Road, Chikkathogur Main Rd, Doddanagamangala Rd, Soni Rd, CELEBRITY LAYOUT, Velankani Drive, Neeladri Rd, Joggers Ln, Huskur Rd, and YELLAMA LAYOUT.

PROGRAMS OFFERED AT ALLIANCE UNIVERSITY



FACULTY OF MANAGEMENT STUDIES

ALLIANCE SCHOOL OF BUSINESS

BBA (Hons.) – Finance | Human Resource | International Business | Operations Management | Marketing | Business Analytics | FinTech

B.Com. (Hons.) – Accounting & Taxation | Finance Management | International Business | Marketing Management | Business Analytics | FinTech

MBA – Finance | Marketing | Operations | Human Resource | Business Analytics & AI | Digital Transformation | Entrepreneurship & Family Business Management | Product Management

Ph.D. in Management – Finance | Marketing | Operations Management | Organizational Behaviour & Human Resource Management | Entrepreneurship

ALLIANCE ASCENT COLLEGE

MBA – Marketing | Finance | Human Resource | Operations | Business Analytics & AI

ALLIANCE SCHOOL OF MANAGEMENT AND TECHNOLOGY

B.Com. (Hons.) – Integrated CA | **MBA** in FinTech



FACULTY OF ENGINEERING AND TECHNOLOGY

ALLIANCE SCHOOL OF APPLIED ENGINEERING

B. Tech. in Aerospace Engineering – Aeronautics | Astronautics | Unmanned Aerial Vehicles | Avionics | Aircraft Structures | Aerospace Manufacturing & Materials

B. Tech. in Civil Engineering – Smart Cities | Environment & Sustainability | Construction Technology & Management

B. Tech. in Electrical & Electronics Engineering – Renewables Electric Vehicles

B. Tech. in Electronics & Communication Engineering – AI & Machine Learning | Automotive Electronics | Biomedical Engineering | Embedded Systems & IoT | Entrepreneurship | Next Generation Communication System | Performing Arts & Creative Technologies | Robotics & Automation | Semiconductor Technology

B. Tech. in Mechanical Engineering – Robotics & Automation Technology | Smart Manufacturing Technology | Thermal Engineering | Advanced Material Science & Engineering | Automobile Engineering | Mobile Textile Technology | Mining Engineering & Machinery | Engineering Design & Analysis Technology | Industrial Engineering

B. Tech. in Biotechnology

B. Tech. in Production Engineering – Quality Management System & Standards | Smart Manufacturing & Industry 4.0 | Robotics, Automation & Control | Product & Project Management

M. Tech. in VLSI & Embedded Systems

Ph.D. in Biotechnology – Plant Sciences | Disease & Drug Research | Biodiversity Studies | Microbiology & Industrial Biotechnology | Nanobiotechnology & Biomaterials | Molecular Biology & Bioinformatics

Ph.D. in Engineering & Technology – Aerospace Engineering | Civil Engineering | Electrical & Electronics Engineering | Electronics & Communication Engineering | Mechanical Engineering

ALLIANCE SCHOOL OF ADVANCED COMPUTING

B. Tech. in Artificial Intelligence & Data Science | Artificial Intelligence & Machine Learning

B. Tech. in Computer Science & Engineering – AI & Future Technologies | Blockchain Technologies | Cloud Computing | Cyber Security | DevOps | Full Stack Development | IoT | Software Product Engineering

B. Tech. in Information Technology – Augmented Reality & Virtual Reality | Data Analytics

BCA (Hons.) – Data Science | AI/ML | Game Development

MCA – Generative AI | MCA General | Game Development | Data Science

M. Tech. in Artificial Intelligence & Data Science | Computer Science & Engineering

Ph.D. in Computer Science & Engineering – AI / ML | AIoT | Data Science | Cyber Security | Cloud Computing | Computer Vision | Immersive Technologies & Computational Intelligence

QUANTUM AI SCHOOL FOR ADVANCED RESEARCH (AU-QUASAR)

B. Tech. in CSE (Quantum Computing & Information Science)

B. Tech. in Robotics & AI | Cyber-Physical Systems | AI & Machine Learning

M. Tech. in CSE - AI & Deep Learning | Quantum Computing | AI Powered Robotics & Automation Systems | Hybrid AI Systems | Cognitive Computing | Ethical AI & Responsible Innovation



FACULTY OF LAW AND POLICY STUDIES

ALLIANCE SCHOOL OF LAW

B.A. LL. B. (Hons.) | B.B.A. LL. B. (Hons.) – Intellectual Property Rights Law | Business Law | International Law | Constitutional Law | Criminal Law
Bachelor of Law (LL. B.)

Master of Law (LL. M.) – IT and Data Protection Law | Corporate Law | Climate Change & Sustainability | Trade & Commercial Laws |
 Crime & Forensics Law | Human Rights Law | Intellectual Property Laws

Ph.D. in Law – Alternative Dispute Resolution (ADR) | Constitutional & Administrative Law | Corporate & Commercial Law | Criminal Law & Security Law |
 Cyber & Technology Law | Intellectual Property Law | LGBTQ Rights | Climate Change & Sustainability | Sustainable Development Goals | Women & Child Rights

CENTRE OF EXCELLENCE IN PUBLIC POLICY, SUSTAINABILITY, AND ESG RESEARCH

Ph.D. in Public Policy



FACULTY OF LIBERAL ARTS AND SCIENCES

ALLIANCE SCHOOL OF DESIGN

Bachelor of Design (B.Des.) – Visual & Communication | User Experience
 and Interaction | Product | Fashion | Interior | Animation Film
Ph.D. in Transdisciplinary Design

ALLIANCE SCHOOL OF ECONOMICS

Ph.D. in Economics

ALLIANCE SCHOOL OF FILM AND MEDIA STUDIES

B. Sc. (Hons.) – Film & Television Production

ALLIANCE SCHOOL OF LIBERAL ARTS

BA (Hons.) – Literary & Cultural Studies | Political Science | Sociology
 Media & Film Studies

B. Sc. (Hons.) – Economics | Computer Science | Data Science | Psychology

Bachelor of Business Administration – Business Studies

Bachelor of Fine Arts – Painting & Sculpture

Global Leaders' Alliance (Fellowship)

M.A. in English (Creative Writing)

Ph.D. in Liberal Arts

ALLIANCE SCHOOL OF SCIENCES

B. Sc. (Hons.) – Applied Mathematics | Chemistry | Physics

M. Sc. in Data Science | Chemistry

Ph.D. in Applied Mathematics | Sciences

ALLIANCE SCHOOL OF AVIATION STUDIES

BBA in Aviation Management

B. Sc. in Aviation / Aeronautical Science

B. Sc. in Aviation / Aeronautical Science + Commercial Pilot License

ALLIANCE SCHOOL OF PERFORMING, VISUAL AND CREATIVE ARTS

Diploma in Performing Arts (DPA)

Master of Performing Arts (MPA)

Ph.D. in Performing Arts

CENTRE OF EXCELLENCE IN INDIAN KNOWLEDGE SYSTEM

Ph.D. in Indian Knowledge System





AU-QUASAR

Alliance University - Quantum AI
School for Advanced Research

BEYOND BITS, BEYOND LIMITS

ALLIANCE UNIVERSITY QUANTUM AI SCHOOL FOR ADVANCED RESEARCH

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