



CHANAKYA
UNIVERSITY

Rooted in ideals • Ascending with ideas

Decoding Life

For transforming research into
sustainable solutions

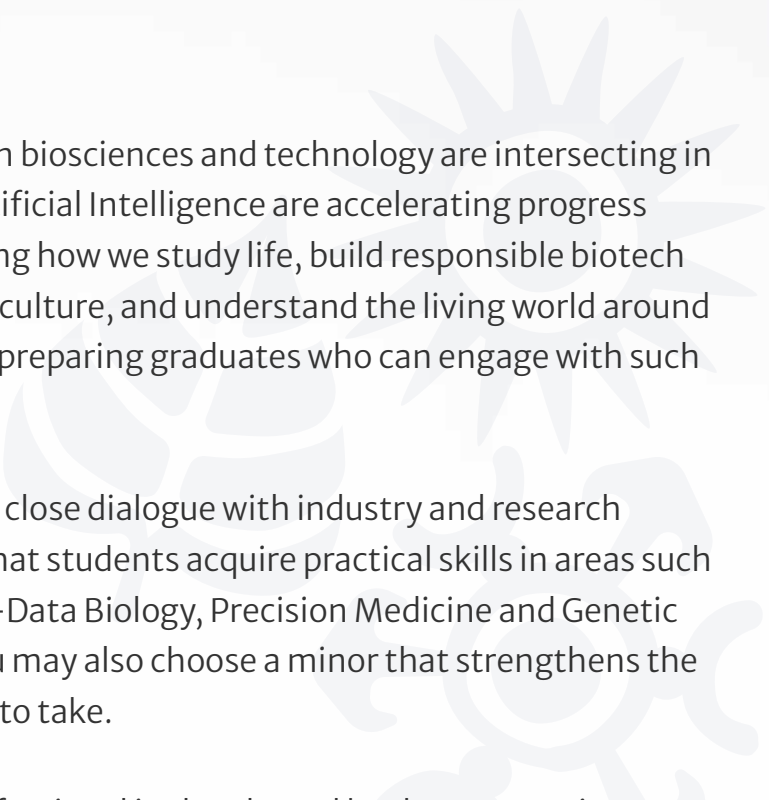


School of
Biosciences

From the
Dean's Desk



Prof. H.S. Subramanya
Pro Vice-Chancellor,
Dean, School of Biosciences



We are entering a moment when biosciences and technology are intersecting in new ways. Breakthroughs in Artificial Intelligence are accelerating progress across the life sciences: reshaping how we study life, build responsible biotech solutions, drive sustainable agriculture, and understand the living world around us. With this shift, our School is preparing graduates who can engage with such changes creatively.

Our curriculum evolves through close dialogue with industry and research partners. This helps us ensure that students acquire practical skills in areas such as Genomics, Bio-markers, Big-Data Biology, Precision Medicine and Genetic Engineering. Along the way, you may also choose a minor that strengthens the direction you wish your journey to take.

Your growth as a bioscience professional is also shaped by the perspectives you encounter. That is why our School is working closely with other Schools of the University, creating a space where public health, engineering, management, computing, and the social sciences come together. Together, we study health policy, examine real-world impact, and build technology-driven solutions, including those at emerging frontiers like Physical AI.

Through this shared ecosystem, we hope to help you find your place in a future shaped by discovery. Please explore the brochure as a dialogue of endless possibilities in the allied fields of Biosciences and how we can collectively pursue some of the many opportunities.

Vision for the School by our Patron

The School of Biosciences is supported by the generous philanthropy of Dr Kiran Mazumdar–Shaw and the Mazumdar–Shaw Foundation. This support helps us in two ways: it enables us to pursue cutting–edge research while keeping our academic offerings accessible and affordable to all learners.

In this spirit, the school is contributing to the vision of ensuring that India is on the scientific map of the world in terms of large innovation. The attempt is to contribute to advances that can strengthen global healthcare and drive the socio–economic progress of India.





Scientific Advisory Board



Prof. H.S. Subramanya
Chairman, Director IBAB &
Biocon Chair.



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Prof. Ramaswamy Subramanian
Member, Professor of Biological
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Dr. Rishikesh Pandey
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Chief scientist, Cytovris.



Dr. Abhigyan Satyam
Member,
Assistant Professor, Harvard University.



Dr. Anurag Mairal
Member, Adjunct professor of
Medicine, Stanford University.

Ongoing Research Domains

Specialisation is the key to progress in Biosciences. The school has therefore identified four strategic domains that guide our research efforts and strengthen our scientific depth. These are:

Computational Biology

- Bioinformatics
- Big Data Biology
- AI-driven Biology

Genomics

- Disease Genomics
- Metagenomics
- Microbiome

Bioengineering

- Genetic engineering
- Synthetic Biology
- Precision medicine
- Biomaterials and Tissue Engineering
- Regenerative Medicine

Disease Biology

- Molecular Basis of Disease
- Inflammatory and Infectious Diseases
- Neurological and Cardiovascular Diseases
- Cancer Biology
- Biomarker and Drug Discovery

State-of-the-art Research Facilities

The School hosts dedicated laboratory facilities that include:

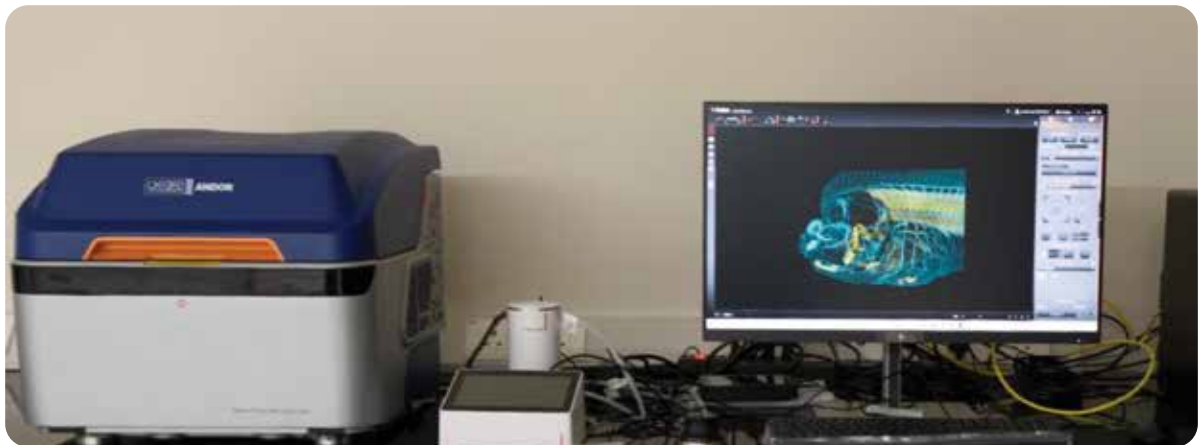


Core Cell and Molecular Biology facilities including Real-Time qPCR

Advanced facilities for visualization and quantifying DNA, RNA and proteins with dedicated spaces for culturing bacterial and mammalian cells, essential for conducting basic and applied biotechnology research.

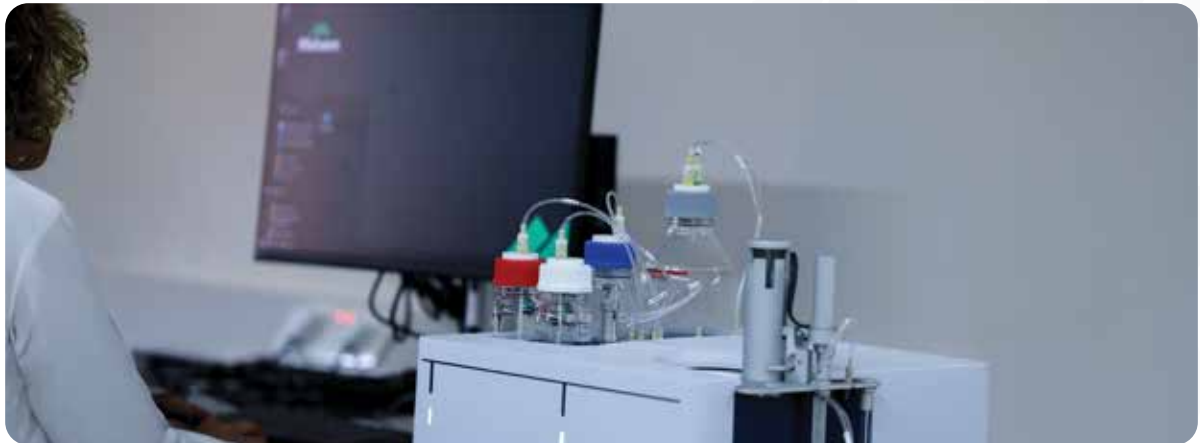
Advanced Imaging Systems including Confocal Microscope and FACS

Provides high-resolution visualization of live cells, tissues to trace molecules in action. FACS allows precise cell characterization, essential for immunology, stem cell biology, and cancer research.



Advanced Biophysical Equipment such as PEAQ-ITC and SPR

Allows real-time measurement of kinetics and thermodynamics of biomolecular interactions, which is crucial for drug discovery, protein biochemistry, and structural biology studies.



Powerful High-Performance Cluster with NVIDIA A30 GPU

Enables large-scale data analysis, simulation, and AI-driven research. Supports genomics, big-data biology, molecular modelling, and machine-learning applications with high computational speed and accuracy.



Course Offerings

B.Sc Biotechnology

Learning is rooted in practical molecular biology, microbiology and genomics, supported by hands-on experience with basic as well as advanced equipment.

Students build a foundation that can lead toward careers in medical diagnostics, environmental biotechnology, food biotechnology and agricultural biotechnology.

The program integrates biology with engineering through laboratory experience in biosensors, biomaterials, bioprocess systems and biophysical tools.

This learning trajectory can support career interests in biomedical devices, tissue engineering, bioprocess design and bio-instrumentation.

B.Tech Biotechnology and Bioengineering

M.Sc.

Bioinformatics and Biotechnology

Training focuses on computational genomics, metagenomics and precision biology using analytical and computational workflows.

Graduates are prepared to pursue roles connected to genomic analytics, computational drug discovery, biomedical data science and systems biology.

Scholars carry out focused research within specialisations such as disease biology, synthetic biology, regenerative medicine, cancer biology or microbiome science alongside ongoing research groups.

The program supports long-term pathways in academic research, translational R&D, scientific consulting and highly specialised bioscience leadership roles.

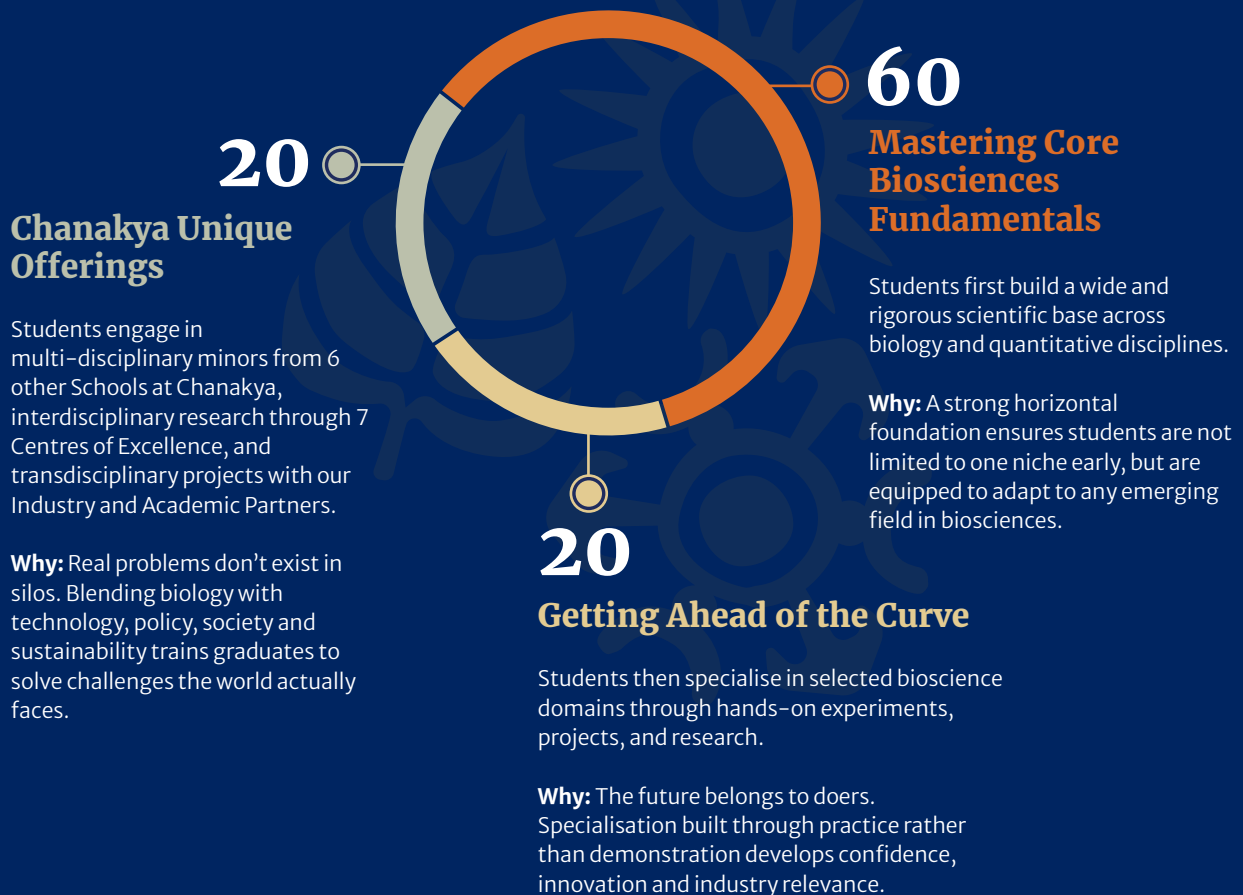
Doctoral Program

For more details, visit our website
www.chanakyauniversity.edu.in



Innovative Pedagogy

Out of every 100 hours a student invests in their learning journey at the *School of Biosciences*, the distribution of effort and exposure is envisioned as:



Why Chanakya University?

Critical thinking, innovation & problem-solving

At Chanakya University, classroom learning is strengthened through research initiatives, industry projects, internships, and entrepreneurial exposure. Our academic framework blends conceptual foundations with hands-on experience to develop analytical and creative problem-solving abilities.



Academic distinction

Our faculty come from premier institutions in India and abroad, bringing deep knowledge and global perspectives. Their scholarship is recognized by leading journals, research bodies, policymakers, and funding agencies, ensuring a high-quality academic environment.



Holistic well-being & campus life

Chanakya University offers a vibrant and inclusive campus ecosystem enriched with co-curricular and extracurricular activities. Our expansive green campus and student-centered initiatives foster physical, emotional, and social well-being.



Career success, higher education & entrepreneurship

Students graduate prepared for diverse career pathways—whether pursuing competitive postgraduate programs across the world, joining top organizations and research institutes, or launching their own ventures. Success is guided only by students' interests, ambition, and imagination.



Unique Minors

Chanakya University is envisaged as a trans-disciplinary university. Students choose their minor component of the program offered by other Schools. This enables them to curate unique pathways for their professional pursuits. Here is a tentative list based on the offerings of the previous Academic Years:

- Digital Humanities
- Cybersecurity
- Advertising and Management
- Entrepreneurship and Management
- Development Studies
- Visual Communication
- Samskruta
- Philosophy
- Pharmaceutical Chemistry
- Physics
- Enterprise Management
- Creative Arts
- Sustainability

Inter-disciplinary Foundations

The pedagogy at Chanakya is to make students lifelong learners. Therefore, the Foundation Program, irrespective of the disciplinary background, imparts some of the fundamental life skills for holistic development. This includes courses like:

- Essentials of Entrepreneurship
- Effective Communication
- Financial Literacy
- Hidden Science in Daily Life
- Essential Mathematics and Statistics
- Values, Ethics and Morals: Revisiting Mahābhārata
- Indian Stories: Universal Values
- Life Lessons from Bhagavad Gita
- Kannada Pravesha (Basic) – level 1

- Kannada Utsava (Advanced) – level 2
- Hindi Sahitya (Basic)
- Samskruta Pravesha
- Kali Kannada
- Dance, Movement and Choreography
- Music, Communication and Management
- Digital Fluency
- Exploring creativity through Carnatic music
- Act, React, Interact – Understanding Theatre arts
- Yakshagana
- Being On stage
- The Art of Perspective
- 10K Running – Science, Training, and Performance
- Foundations of healthy communication and relational skills
- Interface of Law, Policy and Practice
- Global Citizenship
- Documentary Film Making
- Life at Molecular level
- Impact of Art and culture on Economy, Society and Polity
- Climate Change Through Data: Understanding, Visualizing, and Acting
- Macroeconomic concepts and trends & processes in India
- Comprehending India Through Ramayana
- Yogadarshana: beyond Asana



Frequent Seminars and Industrial Immersion

Chanakya aspires its students to be Industry-ready researchers. Eminent Senior Researchers and Industry Leaders help students enrich their experience.



Dr Anurag Mairal, Adjunct Professor of Medicine and the Director, Global Outreach Programs at Stanford Byers Center for Biodesign, Stanford University, during his in-person book talk on his latest book, “Reimagining Health: Inspiring Stories of Innovators at the Intersection of Health and Technology.”



Dr. Shekhar Mande, Former DG of CSIR and Professor at the Bioinformatics Centre, Savitribai Phule Pune University, for a distinguished lecture on The History of Biomedical Sciences in India' at the University.



School of Biosciences students attending the Infosys Prize
Winners' Symposium



The Director, Seribiotec Research Laboratory (SBRL), Bengaluru
along with their team visiting the School of Biosciences.



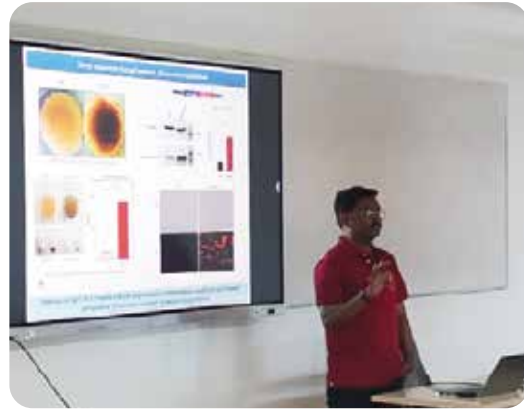
Chanakya University hosting a Workshop on Climate Resilient Agriculture (CRA)



One day workshop on 'Nanotechnology in Regenerative medicine'



A talk on Sustainability in Environment Strategies for Nurturing Nature by Dr. Pravin Jagdale, Carbon Scientist, Founder of BHUMI Pvt. Ltd.



Prof. Saravanan, Professor, Department of Biological Sciences and Bio-engineering, IIT Kanpur (IITK), delivering his lecture on 'Combating AMR'



Visuals from the visit of the Consul General of the Netherlands



School of Biosciences faculty visiting Akash Super Speciality Hospital

Hands-on Learning

Our programs aim to blur the boundaries between lectures, classrooms, and labs. Students are expected to contribute to research right from early semesters. Internships and other projects are thus an integral part of degree completion.



Merit-cum-Means
Scholarships:

Where Talent Meets Opportunity

At Chanakya University, true merit is never held back by financial constraints.

Our Merit-cum-Means Scholarships empower hardworking students with exceptional potential and genuine need. With around 49% of students receiving some percentage of financial aid, support here is not the exception; it's our commitment. For more details, visit the university website and take a confident step toward your future.



Potential Career you may aspire to

Bioinformatics and Computational Biology: Bioinformatics Analyst, Computational Biologist, Data Scientist in Life Sciences, Genomics AI Developer.

Agriculture, Food and Environmental Biotechnology: Agri-Biotechnology, Environmental Biotechnology, Food-Biotechnology, Carbon Management Analysis.

Healthcare, Pharmaceuticals and Biomedicine: Clinical Research Associate, Biomanufacturing Specialist, Computational Drug Designer, Biomedical Data Scientist.



Research and Development: Scientist, Bioinformatics Specialist, Systems Biologist, Lab Manager.

Biotechnology Entrepreneurship, Industry, and Consulting: Bio-entrepreneur, Patent Analyst, Product Development Manager, Biotechnology Consultant.

Regulatory Affairs, Intellectual Property Rights and Biosafety: Patent Analyst, Science Policy Analyst, Biosafety Officer, Regulatory Affairs.

Education, Academia, and Science Communication: Professors, Training Specialist, Subject-Experts.

Forensics and Emerging Technologies: Forensic Scientist, Synthetic Biologist, CRISPR Specialist, Metagenomics Analyst.



Meet Your Faculty Mentors



Prof H S Subramanya, PhD (IISc),

Professor, Dean-SBS, Pro-VC

Subramanya is a distinguished scientist with a strong academic background and extensive experience in research and industry spanning across three decades. He is a renowned expert in Structural biology and Drug research.

Dr Krishna Kurthkoti, PhD (IISc),

Associate Professor

Krishna heads the Laboratory of Molecular Microbiology at the School of Biosciences. A key focus area is to study the role of iron in host-pathogen interactions. His lab also dissects genetic and non-genetic drivers of antimicrobial resistance by integrating multi-omics with genetics and microscopy.



Dr Shubhada Hegde, PhD (CDFD),

Associate Professor

Shubhada uses computational and systems biological approaches to understand disease mechanisms. Her research focus areas include systems biology, gene regulation, host-pathogen interactions, and drug discovery.

Dr Sumi S, PhD (SCTIMST),
Associate Professor

Sumi's research focuses on the molecular mechanisms involved in vascular diseases, for predictive marker discovery and drug target identification. She uses patient samples and endothelial cell models to understand the role of hemodynamic flow pattern, inflammation and epigenetic reprogramming in vascular disease pathology.



Dr Sanjukta Mukherjee, PhD (CSIR-IICB),
Associate Professor

Sanjukta aspires to design and discover chemical probes to modulate the structure and function of nucleic acids, especially RNA. She aims to target RNA-protein interactions to study phase separation, protein aggregation to decipher their physiological or pathological functions.



Dr Shilpee Jain, PhD (IITK),
Assistant Professor

Shilpee is a bioengineer developing micro/nanodevices based on electrical and magnetic stimulations with extensive biomedical applications. These can help in efficient intracellular delivery of biomolecules for better therapeutic outcomes, smart degradable bandages for wound healing with enhanced rate of recovery.





Dr Priyadarshan Kinatukara, PhD (CSIR-CCMB),
Assistant Professor

Priyadarshan is interested in understanding the mechanisms maintaining lipid diversity using structural, biochemical, and bioinformatic approaches. A long-term goal is to understand how lipids can impact gut microbial populations and lead to lifestyle-related disorders.

Dr Deepthi Hebbale, PhD (IISc),
Assistant Professor

Deepthi heads the biofuel research group focused on sustainable solutions to biomass waste generated by looking into complete biomass valorisation into value-added products along with biofuel production.



Dr Preethi Vijayaraghavareddy, PhD
(Wageningen University),
Assistant Professor

Preethi's research focuses on the physiological and molecular dissection of traits that enhance drought adaptation and water productivity. She aims to develop climate-resilient and water-efficient crops using both physiological and molecular insights.

Dr Kumaraswamy TR, PhD (Bangalore University),

Assistant Professor

Kumaraswamy's research focuses on water management and climate resilience using GIS, remote sensing, and hydrological modelling. He aims to develop data-driven frameworks for resilient and decentralized water management.



Dr Amal Vijay, PhD (IISER Pune), Assistant Professor

Amal Vijay studies biomolecular recognition using computational tools aided by advanced molecular dynamics simulations, and data-driven approaches. His work focuses on predicting the thermodynamics and mechanisms of key interactions for biomedical applications.



Dr Anjana T, PhD (TDU), Research Scientist

Anjana is interested in integrative approaches that bridge Ayurveda and modern biology, with a focus on exploring the translational potential of Ayurvedic practices in managing metabolic disorders.



Dr Abrar Rizvi, PhD (FIRC Institute of Molecular Oncology),

Research Scientist

Abrar is driven to understand the mechanisms underlying tissue homeostasis and its restoration after injury. His research investigates the dual role of fibroblasts in wound healing and as drivers of disease in fibrosis and cancer. By elucidating these mechanisms, he aims to develop targeted therapies to promote regenerative healing and reverse fibrotic diseases.



Research and Industry Partnerships

Our faculty members and Research Scholars have collaborations with eminent institutions across the globe, fostering a collaborative research culture in the school.



Academic Institutions and Universities

- Indian Institute of Science
- National Centre for Biological Sciences
- Indian Institute of Technology Kanpur
- Indian Institutes of Science Education and Research–TVM
- CSIR–Centre for Cellular and Molecular Biology
- CSIR–Institute of Microbial Technology
- DBT–Rajiv Gandhi Centre for Biotechnology
- Birla Institute of Technology & Science Pilani, Hyderabad
- University of Hyderabad



Hospitals and Industrial organizations

- Aakash Hospitals
- Rashtrottahana Hospitals
- Sri Jayadeva Institute of Cardiovascular Sciences and Research
- Centre for Cellular and Molecular Platforms
- Amway Global Services India Private Limited
- Matriverse Private Limited

What do your seniors have to say:



The B.Sc. Biotechnology program at Chanakya University has strengthened my fundamentals. The faculty is supportive in both theory and labs, constantly encouraging creative and independent thinking. I feel more confident in my academic abilities because of this learning environment.

Shashank

At the School of Biosciences, the integration of molecular biology with computation and data analysis has helped me develop a scientific and research-oriented mindset. Hands-on lab work and faculty guidance make learning meaningful and practical, while the campus culture motivates both academic excellence and curiosity.

– Soumit Roy (PG2500101)

Manasa



Chanakya University has transformed me academically and personally by helping me understand my strengths and build confidence. The curriculum, faculty support, and opportunities for leadership and skill development have shaped my goals and identity.

Soumit

Being part of the first B.Sc. Biotechnology batch has been a motivating experience filled with learning and self-improvement. Seminars by researchers have clarified my career direction and boosted my enthusiasm for the field. Faculty guidance during labs and involvement in clubs have supported my academic and personal growth together.

Bhavishya





Campus Life

At Chanakya, the belief is that the campus is like a cradle of society. Students across states come and make it their home. To provide them with learning opportunities beyond the classroom, dedicated clubs have been established. These include:

Chanakya Chamber of Commerce, Chanakya Kannada Balaga, Social Legal and Policy Awareness Club, Sports and Adventure Club, Aroha Cultural Club Dance, Cultural Club Music, Cultural Club Theatre, Manthan Debate Society, Maya Filmography Club, Media Club, Photography and Videography Club, Quiz Club, Samskriti, Scribes and Pages, Visual Arts Club, Cogni Crew, Ignite Entrepreneurship Club, Turing Club, Robotic Process Automation Club, Home Renovation and Interior Design, Ideation and Design Thinking Club.





Meanwhile, at Chanakya



Prof. Manjul Bhargava (Princeton University), Member of Chanakya University's International Advisory Council, delivering Distinguished Lecture on 'The World of Maths and Music'.



(Late) Dr Bibek Debroy, Chairman, Prime Minister's Economic Advisory Council, delivering 'Distinguished Lecture on 'Key Transitions in the Indian Economy'.



Sri Kris Gopalakrishnan, Co-Founder of Infosys, addressing the Chanakya Community on 'Opportunities in India'.



Students interacting with Sri Sridhar Vembu (Founder and CEO, Zoho Corp.).



Dr. S. Somanath (Chancellor, Chanakya University and Former Director, ISRO) at the Space Consortium 2025, Chanakya University.



Sri M. Jagadesh Kumar, (then) UGC Chairman interacted with the university academic staff.



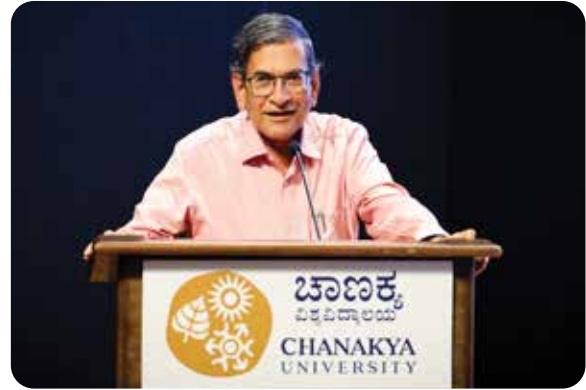
Sri Subrat Mohanty, Director – Axis Bank, being welcomed by Sri M P Kumar, Pro-Chancellor during his campus visit.



3X Grammy Award-winning artist, and Member of International Advisory Council, Ricky Kej performing his concert, The Earth Symphony, in the Preksha Auditorium.



Dr. M. D. Srinivas, Chairman, Centre for Policy Studies, Chennai and Member, Advisory Committee, Dr Ramdas Pai Chair on Education, Chanakya University being felicitated for awarded with Padma Shri.



Prof. P. Balam, Former Director, IISc Bengaluru, Chairman, International Advisory Council, Chanakya University addressing the students.



Dr. Peter Hefele (Policy Director, Martens Centre for European Studies) discussing renewable sources of energy during the Indo-European Summer Academy being hosted at Chanakya University.



John Colgrove, Founder and Chief Visionary Officer (CVO), Pure Storage discussing new developments in the field of Sustainable infrastructure (along with Sri Mohan Das Pai).

Board of Governors



Dr. S. Somanath
Chancellor
Chanakya University
Former Chairman, ISRO



Sri M.P. Kumar
Pro Chancellor
Chanakya University



Prof. Yashavantha Dongre
Vice Chancellor
Chanakya University



Prof. M.K. Shridhar
President
CESS, Bengaluru



Sri Kris Gopalakrishnan
Co-founder, Infosys
Chairman, Axilor Ventures



Sri T.V. Mohandas Pai
Chairman
Aarin Capital Partners



Prof. B. Mahadevan
Former Professor
IIM Bangalore



Prof. Nandini N
Former Professor
Bangalore University



Sri Nagaraj Reddy
Secretary
CESS, Bengaluru



Dr. Shamika Ravi
Member
Prime Minister's Economic
Advisory Council, New Delhi



Prof. H.S. Subramanya
Pro Vice Chancellor
Chanakya University



Dr. Sushant Joshi
Registrar
Chanakya University



Principal Secretary
Department of Higher Education
Govt. Of Karnataka

International Advisory Council

Guided by renowned global thought leaders spanning academia, arts, industry, professions, and socio-cultural spheres, embodying the spirit of Bharat.

Chairman



Prof. P. Balaram
Former Director,
Indian Institute of Science, Bengaluru



Dr. Sitaram Jindal
Chairman & MD
Jindal Aluminium Limited



Dr. Kiran Mazumdar-Shaw
Executive Chairperson
Biocon Ltd



Prof. Manjul Bhargava
Professor Princeton
University



Justice Sharad Arvind Bobde
Former Chief Justice
of India



Prof. V.G. Narayanan
Professor
Harvard Business School



Prof. Jeffrey Ullman
Professor, Stanford University
Turing award winner



Prof. Dr. Oliver Günther
President University of
Potsdam, Germany



Prof. Anurag Mairal
Professor
Stanford University



Dr. Meenakshi Jain
Noted Historian
Member, Rajya Sabha



Sri Sajjan Jindal
Chairman, JSW Group



Prof. Pratima Murthy
Director NIMHANS,
Bengaluru



Prof. Narendra Ahuja

Professor University of Illinois,
Urbana-Champaign



Prof. Bhushan Patwardhan

Former Vice
Chairman University Grants
Commission



Sri Anurag Behar

Chief Executive Officer
Azim Premji Foundation



Prof. S. Sadagopan

Former Director
IIT Bengaluru



Sri Adnan Sami

Singer and Musician



Sri Alok Kshirsagar

Sr. Partner, McKinsey



Sri Ricky Kej

3X Grammy Award Winner &
Environmentalist



Sri Manish Sabharwal

Chairman
Teamlease Services



Sri Amish Tripathi

Author and Former Diplomat



Prof. Bhimaraya Metri

Director IIM-Nagpur



Prof. Michel Danino

Author, Indologist



Sri Harish Bijoor

Brand Guru & Founder
Harish Bijoor Consults Inc



Sri Prakash Belawadi

Co-Founder Centre for
Film & Drama



Sri S.V. Ranganath

Former
Chief Secretary, Government
of Karnataka



Dr. Lavanya Vemsani

Distinguished Professor, History
and Religious Studies, Shawnee State
University, Ohio, USA

Chanakya University

At a Glance: 2025-26

Learners' Inclusivity

2400+ Students
on campus

49% Students
receiving aid

Academic Diversity

40+ Programmes
Offered

400+ Courses
to choose from

Infrastructure Development

116 Acres
of Campus

15 Lakhs+ Sq.Ft
BUA Constructed

Thought Leadership

145+ Faculty
Members

65+ Domains
Experts

Transdisciplinary Initiatives

6 Academic
Schools

7 Centres
of Excellence

2 Research
Chairs

Admissions Enquiry

In Biosciences, even the smallest discoveries can create change that reaches far beyond borders. Start your journey of impact with us. Join a School that offers strong disciplinary depth within a trans-disciplinary University. For more information about the broader University experience, please refer to our University Brochure





Modern Library



Cricket Stadium



Comfortable Hostels



Volleyball Court





Equipped Gymnasiums



Sports Complex



Comfort That Supports Learning



Food Court



Tennis Court



Auditorium



CHANAKYA
UNIVERSITY

Rooted in ideals • Ascending with ideas



Your Pathway to
Chanakya Admission



Apply
Online



CUPP

Chanakya University
Pravesha Pareeksha



Personal
Interviews



Enroll



For Admission Enquiries

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