

# Why Ahmedabad



**A PRIVATE UNIVERSITY  
WITH A PUBLIC ETHOS**

Ahmedabad University is a private, non-profit institution established in 2009. Located in the heart of one of India's most dynamic, entrepreneurial and fast-growing cities, the University has top facilities and a diverse range of programmes across disciplines. The liberal arts education at Ahmedabad University is:

**Interdisciplinary** Students have the opportunity to combine different ways of looking at the world. Students across the University share a common curriculum, the Foundation programme. After that, in addition to your major, you can take electives from any discipline, with the option of obtaining a minor.

**Rigorous** Ahmedabad is a research University. All faculty are actively engaged in research at the forefront of their disciplines. Students are encouraged and supported to pursue their own research.

**Hands-on** Learning is project-based. Students have unparalleled access to facilities at the undergraduate level, from a library system with over 40,000 books to state-of-the-art scientific equipment. The Independent Study Period offers students the chance to explore their passions through intensive, collaborative projects.

Find out more about our distinctive approach to higher education.

# Apply

**Eligibility** The Bachelor of Arts (Honours) Major in History is open to anyone who has completed class 12 or the equivalent.

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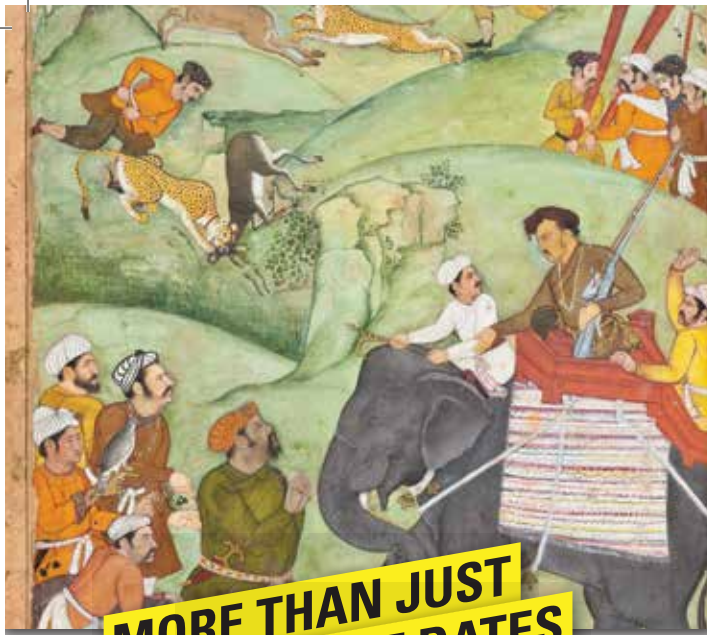


# Major in History



Ahmedabad  
University

School of  
Arts and Sciences



Muhammad Nasir al-Munshi, Prince Salim at a Hunt, ca. 1600, Los Angeles County Museum of Art

**MORE THAN JUST  
A LIST OF DATES**

History is more than just a list of dates and events. Rather than teaching through the memorisation of historical data, the Bachelor of Arts (Honours) Major in History at Ahmedabad University trains students to think historically, inviting them to participate in the rigours, pleasures and adventures of historical enquiry. This critical sensitivity to the past enables students to understand how the present has come to be, and forms the bedrock for endeavours to shape the future.

The degree in History gives students a grounding in Indian as well as global history. They learn how people, communities, empires and nations have interacted with and shaped each other over the centuries. Students are trained in spoken and written communication, critical thinking, and evidence-based reasoning. Delivered by faculty members who are themselves active researchers, the major will not only equip students with qualitative analytical skills, but also train them in quantitative ways of approaching history.

## Course Structure

All incoming undergraduates at Ahmedabad University start with the Foundation programme, an interdisciplinary course that covers fields from Mathematics to Literature through project-based learning.

The history major opens with a course titled 'Ahmedabad as a Gateway to Global History', where the city of Ahmedabad becomes a lens to explore a range of histories in multiple time periods.

Core courses from the India, Global, and Methods clusters make up the major's foundation. While the India cluster focuses on the civilisations of India through different periods and regions, the Global cluster includes survey courses on histories of Africa, the Silk Route, East Asia and the Middle East. In the Methods cluster, students engage with the past first-hand, visiting archives that contain primary source documents and learning how to verify historical truths. Students also get to choose from a wide range of electives to build on their individual interests.

Sample courses:

- History of India (I): The Birth of Civilisations in the Indian Subcontinent
- Constructing a Historical Narrative: From Herodotus to Hobsbawm
- The Old and the New Worlds
- Introduction to World Religions
- Nation and the Performing Arts
- Imagining Modern India: An Intellectual History of a Nation

As with all majors at Ahmedabad University, students pursue their own interests with a thesis or capstone project which they complete in their final year.

## Faculty

**Aditi Deo**  
*PhD, Indiana University, Bloomington*  
Ethnomusicology, Folk traditions of Rajasthan and Gujarat, Hindi film music

**Aparajita Basu**  
*PhD, University of California, Berkeley*  
Intellectual and cultural history of 19<sup>th</sup> and 20<sup>th</sup> century South Asia, pan-Asianism

**Aparajith Ramnath**  
*PhD, Imperial College London*  
History of science, technology, and industry in South Asia

**Manomohini Dutta**  
*PhD, University of Texas, Austin*  
Premodern Indian history, law and religion

**Maya Jasanoff**  
*Coolidge Professor of History, Harvard University*  
Visiting Professor, Ahmedabad University  
Imperial history, global history, history of the British Empire

**Patrick French**  
*PhD, Edinburgh University*  
Biography, history of the British Empire, political history

**Samuel Wright**  
*PhD, University of Chicago*  
History of ideas, early modern India, Indian philosophy

## Career Pathways

Graduates of the major in History are prepared, depending on their interests, for diverse career paths, in teaching, research, museums, archives, libraries, law, the civil services, journalism, publishing, advertising, the NGO sector, business and entrepreneurship.

Students interested in further study will find the major in History an ideal preparation for Masters or doctoral level study in various specialisations of History, but also potentially in Politics, International Relations, and Management.

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**Eligibility** The Bachelor of Arts (Honours) Major in Philosophy, History and Languages is open to anyone who has completed class 12 or the equivalent.

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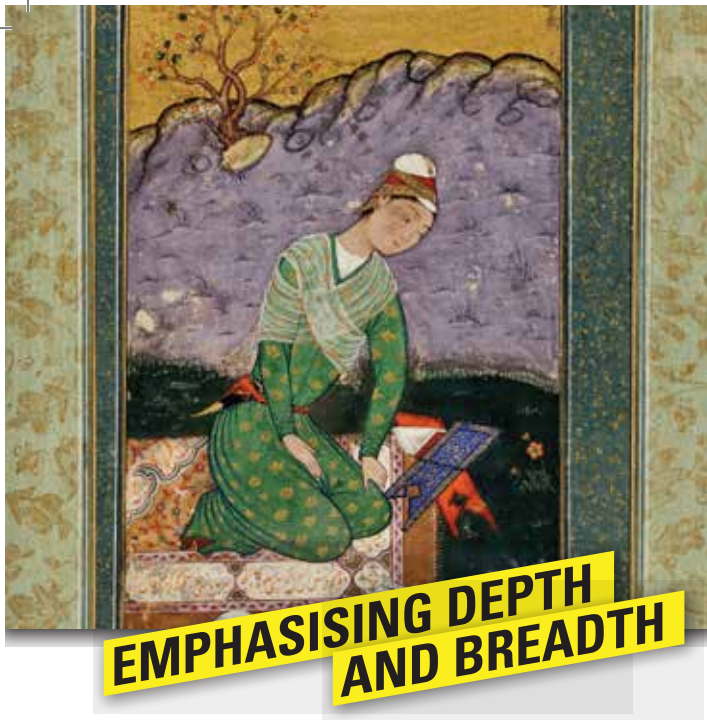
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- 🐦 @ahmedabad



# Major in Philosophy, History and Languages





Mir Sayyid Ali, Portrait of a Young Scholar, ca. 1550, Los Angeles County Museum of Art

## Course Structure

All incoming undergraduates at Ahmedabad University start with the Foundation programme, an interdisciplinary course that covers fields from Mathematics to Literature through project-based learning.

The course structure of the major in Philosophy, History and Languages is open and flexible. Students enrol in a set of core courses, language courses and elective courses.

Introductory courses:

- Introduction to Humanistic Enquiry
- Interpreting Texts
- Research Methods
- PHL Colloquium

Languages offered in 2019:

- Japanese
- German
- Hindi
- Urdu
- Sanskrit

Sample electives:

- Global Intellectual History
- Moral Philosophy
- Indian Ocean Networks

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The Bachelor of Arts (Honours) Major in Philosophy, History and Languages at Ahmedabad University is the only interdisciplinary degree of its kind in India.

The programme involves a vibrant community of students and faculty who share a concern for questions that are cross-disciplinary. Acquainting students with major intellectual trends in the Humanities, the course of study is problem-based or theme-based and draws upon diverse theoretical orientations. Philosophy, History and Languages teaches precision of scholarship and encourages students to chart new critical approaches to areas of study that span Philosophy, History and Languages. A central component is the study of languages relevant to a chosen theme or problem.

Depending on the theme chosen, students have the option to enrol in a wide range of courses such as ethics, intellectual history, post-colonial studies, and political philosophy. The major equips students with rigorous critical thinking and writing skills required in any future career.

## Faculty

**Aditi Deo**  
*PhD, Indiana University, Bloomington*  
Ethnomusicology, folk traditions of Rajasthan and Gujarat, Hindi film music

**Apaar Kumar**  
*PhD, Emory University*  
Kant, history of philosophy, ethics

**Aparajita Basu**  
*PhD, University of California, Berkeley*  
Intellectual and cultural history of 19<sup>th</sup> and 20<sup>th</sup> century South Asia, pan-Asianism

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History of ideas, early modern India, Indian philosophy

## Career Pathways

Graduates of the degree in Philosophy, History and Languages will be prepared for a wide range of careers. Strong critical thinking, writing and language skills together with the ability to analyse and interpret texts will enable graduates to succeed in law, media, politics, the development sector, government service, the civil services, publicity and marketing, journalism, translation, and research.

Graduates acquire a demonstrable record as scholars and researchers with the capacity to complete original and innovative work. They are ideally placed to pursue higher studies in Philosophy, History or Languages, and a range of disciplines across the Humanities.

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**Eligibility** The Bachelor of Science (Honours) Major in Physics is open to anyone who has taken Physics and Mathematics in class 12.

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# Major in Physics



## FROM THE UNIVERSE TO THE PARTICLE

Bubble Nebula, NGC 7635  
NASA, ESA, Hubble Heritage team

From the large-scale processes that form galaxies to the complex phenomena we encounter at a quantum scale, Physics is the science of the most fundamental forces that shape our Universe, govern our lives and underlie our technological achievements. At Ahmedabad University, the Bachelor of Science (Honours) Major in Physics gives students a rigorous and hands-on instruction in the principles of this science.

The major promotes exposure to research alongside an active role in society. In laboratory courses, students have the opportunity to work hands-on with research equipment. The undergraduate thesis or group capstone project requires students to carry out in-depth research in an area of their interest. They may also work on individual projects and assist faculty research.

Through laboratory and theory courses and combined with Ahmedabad University's interdisciplinary course of study outside the major, the degree in Physics hopes to create the well-rounded scientists of tomorrow.

## Course Structure

All incoming undergraduates at Ahmedabad University start with the Foundation programme, an interdisciplinary course that covers fields from Mathematics to Literature through project-based learning.

After the Foundation programme, students take courses in fundamental areas of Physics. These include:

- Classical Mechanics
- Electromagnetic Theory
- Electrical Circuits and Electronics
- Waves and Optics
- Quantum Mechanics
- Thermodynamics
- Solid State Physics
- Experimental Physics
- Atomic, Nuclear, and Molecular Physics

Students will also be able to choose from a range of discipline electives. Sample electives include courses in Astrophysics, Advanced Quantum Mechanics, Plasma Physics, History of Science, etc. As an elective, students have the opportunity to carry out individual study with a faculty member.

Students must also fulfill certain prerequisites in Mathematics, which are offered at the University.

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## Faculty

**Aditya Vaishya**  
*PhD, Centre for Climate & Air Pollution Studies and School of Physics, National University of Ireland Galway*  
Climate change, aerosol-cloud-radiation interaction

**Ashwin Pande**  
(Mathematics)  
*PhD, University of Maryland, College Park*  
*PhD Physics, Indian Institute of Science, Bangalore*  
Mathematical physics, topology and geometry

**Raghavan Rangarajan**  
*PhD, University of California, Santa Barbara*  
Cosmology, particle physics, inflation in the early Universe, matter-antimatter asymmetry of the Universe

In the School of Engineering and Applied Science:

**Deepak Verma**  
*PhD, IIT Delhi*  
Thin film solar cells and photovoltaic systems

**Gaurav Goswami**  
*PhD, Inter-University Centre for Astronomy and Astrophysics (IUCAA), Pune*  
Cosmology, quantum field theory

**Mitaxi Mehta**  
*PhD, Gujarat University & PRL*  
Nonlinear dynamics, Mathematical Physics, bio-informatics, data visualisation, machine learning

## Career Pathways

Graduates of the degree in Physics will gain a thorough understanding of the field of Physics. They will also be empowered with problem solving techniques and strong communication skills.

This is a perfect preparation for graduates to pursue higher degrees in Physics in India or abroad. With their interdisciplinary training at Ahmedabad University, they may pursue higher degrees in Management, Engineering and Computer Science or choose alternate career paths, such as in science writing, programming or analytics.



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**Eligibility** The Integrated Master of Science in Life Sciences is open to anyone who has taken Biology in class 12.

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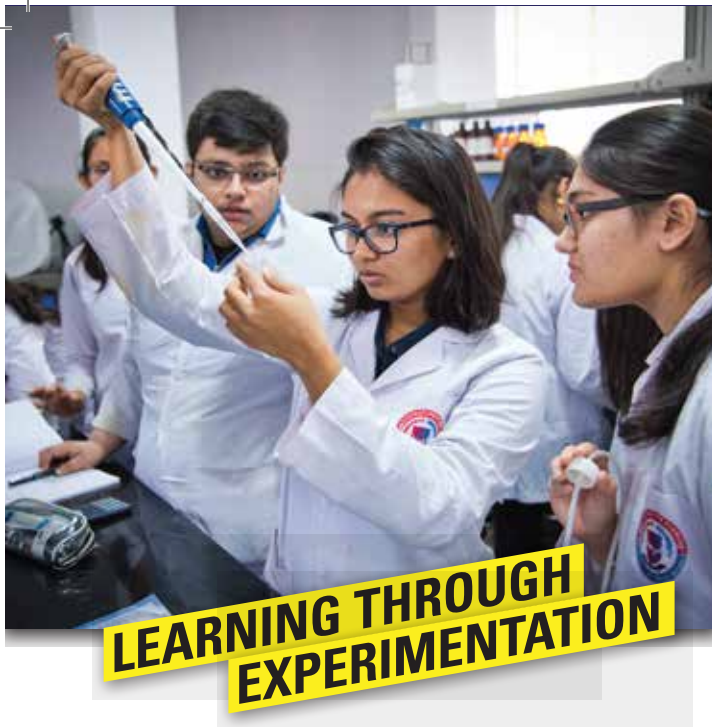
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# Master in Life Sciences



The Integrated Master of Science in Life Sciences is an innovative reconfiguration of the traditional Biology degree.

With a commitment to learning through experimentation, the degree unfolds through individual research projects in the lab in frontier areas of the life sciences. Here students have the rare opportunity to assist in faculty research. And this is the only degree in India that offers students at the Masters level hands-on access to advanced equipment, at our Centres for Excellence in Imaging, Flow Cytometry, In Silico Technology, and Nanotechnology Research and Applications.

With an emphasis on both industry and academia, the five-year degree trains students in theory and laboratory work and empowers them to be independent and informed researchers.

## Course Structure

All incoming undergraduates at Ahmedabad University start with the Foundation programme, an interdisciplinary course that covers fields from Mathematics to Literature through project-based learning.

The Integrated Master of Science revolves around 16 core courses, which lay foundations for students' future work. These include topics in Microbiology, Genetics, Ecology, and Bioinformatics.

Additionally, students are required to take General Educational Requirements that give them training in core skills such as Statistics and Programming.

Drawing on faculty research interests, the degree offers a range of discipline electives that allow students to focus their work. Sample electives include Advanced Biochemistry, Flow Cytometry, Microscopy and Imaging, Nanobiotechnology, Human Protozoan Parasites, and Cancer Biology.

The entire final semester is devoted to working on a Masters thesis, which gives students the opportunity for in-depth engagement, both theoretically and in the lab, with a subject of their choice.

## Career Pathways

The degree in Life Sciences provides rigorous training in the lab and in the classroom. Graduates gain a thorough grounding in theory and acquire the hands-on experience necessary to carry out advanced research. This prepares them equally well for industry and academia. They have the skills to find work in research laboratories in the country and internationally, in pharmaceuticals, biotech and other fields. They are prepared to undertake studies at the PhD level in various fields of Biology. Graduates have gone on for further study in India and internationally in the UK and Australia.

## Faculty

**Ashutosh Kumar**  
*PhD, CSIR - Indian Institute of Toxicology Research, Lucknow*  
DNA biochip, environmental nanotechnology

**Krishna Swamy**  
*PhD, Academia Sinica, Taiwan*  
Speciation, evolution of complex traits, evolution of cooperation

**Manish Datt**  
*PhD, CSIR - Institute of Microbial Technology, Chandigarh*  
Bioinformatics, computational biophysics, in silico tools for therapeutic research

**Neha Jain**  
*PhD, Indian Institute of Science Education and Research, Mohali*  
Amyloids, biofilms, neurodegeneration, molecular biophysics, microbiology

**Noopur Thakur**  
*PhD, Uppsala University, Sweden*  
Signaling, cancer and epigenetics

**Rama Ratnam**  
*PhD, University of Illinois, Urbana-Champaign*  
Computational neuroscience and neuroengineering

**Ratna Ghosal**  
*PhD, Indian Institute of Science, Bangalore*  
Ecology, conservation biology, animal behaviour

**Ritesh Shukla**  
*PhD, CSIR - Indian Institute of Toxicology Research, Lucknow*  
Nanobiotechnology, toxicology, DNA forensics, point of care/detection diagnostic devices

**Sanjay Singh**  
*PhD, CSIR - National Chemical Laboratory, Pune*  
Cancer nanotechnology, drug delivery, artificial enzymes (nanozymes) and theranostics

**Souvik Sen Gupta**  
*PhD, CSIR - Indian Institute of Chemical Biology Kolkata*  
Anti-leishmanial therapeutics, Molecular Parasitology

**Subhash Rajpurohit**  
*PhD, Maharishi Dayanand University Rohtak*  
Genetic basis of climate adaptation, metabolic ecology, and rapid evolution

**Vivek Tanavde**  
*PhD, Cancer Research Institute, Mumbai*  
Adult Stem Cells, miRNA regulation of cell differentiation, cancer biomarkers

## Exit Policy

Students may exit the Integrated Master of Science programme at the end of the 4<sup>th</sup> year with a Bachelor of Science (Honours) Major in Life Sciences.



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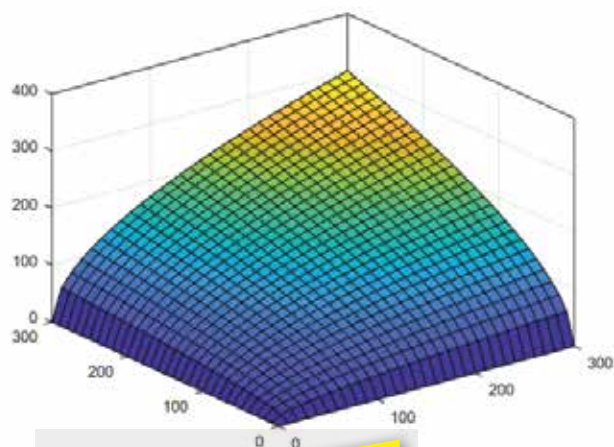
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# Major in Economics



**QUANTITATIVE  
AND CREATIVE**

Economics ranges from the study of individual behaviour to the broader study of the economics of nations. It can help answer a wide range of economic and social questions. Can we change industry behaviour to reduce its impact on the environment? How does globalisation affect economies? Theoretically rigorous, data-intensive, and research based, the Bachelor of Arts (Honours) Major in Economics at Ahmedabad University provides the tools to analyse key economic and policy issues facing our society.

The degree combines a solid basis in economic theory with quantitative methods. Students are trained in statistics and econometrics as well as in research methods and statistical software. The development of strong mathematical skills allows students to grasp modern economic theory and apply economic principles to current day issues.

Students learn from faculty who are avid researchers in their area of specialisation. Many have substantial experience working in non-academic jobs as well. The expertise that they bring to the classroom greatly enriches the academic experience.

The degree in Economics is taught jointly with the Amrut Mody School of Management.

Faculty research of Professor Pallavi Vyas

## Course Structure

All incoming undergraduates at Ahmedabad University start with the Foundation programme, an interdisciplinary course that covers fields from Mathematics to Literature through project-based learning.

Ten core courses are required to graduate with a Bachelor of Arts in Economics:

- Introduction to Microeconomics
- Introduction to Macroeconomics
- History of Economic Thought
- Intermediate Microeconomics
- Macroeconomics (World Economy)
- Indian Economy
- Linear Algebra
- Econometrics
- Anthropology/Sociology/Psychology
- Research Methods

Some of the core courses require prerequisites in Mathematics (offered at the University).

Students choose from a wide range of discipline electives to develop and build on an area of interest. They include Data Science, Development Economics, Environmental Economics, Finance, International Economics, Political Economy, Game Theory and Urban Informal Economy.

Students complete a thesis in their final year. The thesis provides an opportunity to think creatively about a topic and conduct systematic research in it, allowing students to deepen their understanding of principles learned during their coursework.

Students are also encouraged and supported to pursue internships during the summer months. This helps them develop an area of specialisation and chart a career path.

## Faculty

**Chakravarthi Rangarajan**

*Former Governor,  
Reserve Bank of India  
PhD, University of  
Pennsylvania*

Macroeconomics and  
monetary and fiscal policy

**Amol Agarwal**

*FPM, IIM Bangalore  
Macroeconomics, economic  
history, and financial markets*

**Himani Baxi**

*PhD, Gujarat University  
Public finance and public  
policy, urban finance*

**Jeemol Unni**

*PhD, SPEISER, Ahmedabad  
Labour Economics,  
development studies,  
economics of education,  
urban and informal economy,  
gender studies*

**Mita Suthar**

*PhD, Gujarat University  
Macroeconometrics,  
industrial economics, cultural  
economics*

**Pallavi Vyas**

*PhD, University of Chicago  
Labour economics, human  
capital theory, public health  
and development economics*

**Sonal Yadav**

*PhD, Gujarat University  
Labour economics,  
development economics,  
economics of education and  
health, gender studies*

**Supratim Das Gupta**

*PhD, University of  
South Carolina  
Resource and environmental  
economics, energy  
economics, real options,  
macroeconomics*

## Career Pathways

Graduates with a Bachelor of Arts in Economics will be well equipped to critically analyse issues in India and globally using a theoretical framework and data-based evidence. They will be prepared to pursue doctoral studies in Economics or related disciplines such as Business or Political Science. Or they could pursue advanced professional degrees in Business Administration, Law or Public Policy. Employment opportunities include working in business, the civil services, the corporate sector, government and non-government organisations, investment banks, journalism, the media, and research institutions.

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Ahmedabad University is a private, non-profit institution established in 2009. Located in the heart of one of India's most dynamic, entrepreneurial and fast-growing cities, the University has top facilities and a diverse range of programmes across disciplines. The liberal arts education at Ahmedabad University is:

**Interdisciplinary** Students have the opportunity to combine different ways of looking at the world. In the first year, students across the University share a common curriculum, the Foundation programme. After that, in addition to your major, you can take electives from any discipline, with the option of obtaining a minor.

**Rigorous** Ahmedabad is a research University. All faculty are actively engaged in research at the forefront of their disciplines. Students are encouraged and supported to pursue their own research.

**Hands-on** Learning is project-based. Students have unparalleled access to facilities at the undergraduate level, from a library system with over 40,000 books to state-of-the-art scientific equipment. The Independent Study Period offers students the chance to explore their passions through intensive, collaborative projects.

Find out more about our distinctive approach to higher education.

# Apply

**Eligibility** The Bachelor of Arts (Honours) Major in Social and Political Sciences is open to anyone who has completed class 12 or the equivalent.

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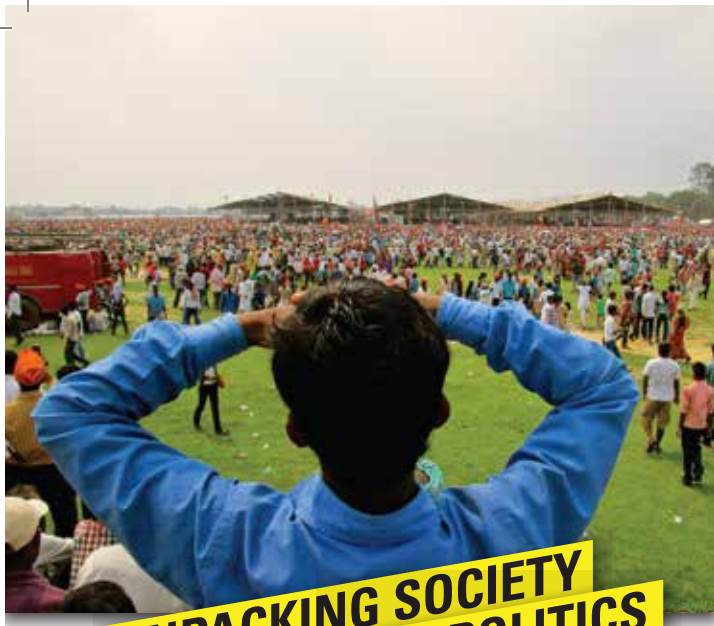
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# Major in Social and Political Sciences





## UNPACKING SOCIETY AND POLITICS

From the faculty research of  
Professor Sarthak Bagchi

The contemporary social world we collectively inhabit is a complex one, beset with economic, ecological, social and political challenges. Ideas of community, social difference, regionalism and nation-states remain context-specific, while forces like technology, climate change, finance and migration push us towards thinking in terms of globally entwined lives. Drawing on insights from anthropology, economics, political science and sociology, the Bachelor of Arts (Honours) Major in Social and Political Sciences equips students to approach such complexity from an academic standpoint, to engage critically with persistent social problems and to design daring solutions.

The major will offer students rigorous training in key debates from the social sciences, and quantitative as well as qualitative methods of data analysis, case study research, archival and document analysis, and participant observation. Learning will involve student initiative through a combination of lectures, assignments and classroom activities. Through projects, internships and apprenticeships, students will be encouraged to apply the knowledge and skills they have gained in the classroom to areas of social concern that they identify around them.

## Course Structure

All incoming undergraduates at Ahmedabad University start with the Foundation programme, an interdisciplinary course that introduces students to a range of fields, from Mathematics to Literature, through project-based learning.

The major in Social and Political Sciences begins with gateway courses designed to introduce students to critical problem solving. Students take several theory courses to gain a grounding in core concepts and debates in social and political sciences. In the methods courses, students learn how to carry out field research and work with data. Finally, students may use discipline electives to take courses related to their research interests.

Sample courses:

- Ahmedabad as a Gateway to the World
- Identity, Inequality and Difference
- Politics in Independent India
- Economy and Society
- Computational Data Analysis
- Qualitative Field Research I and II

As a culmination of their coursework, students write an Undergraduate thesis. The thesis can consist either of an academic study based on original data collection or a capstone project that addresses social issues through multimodal design projects or policy reports.

## Faculty

**Aditi Deo**  
*PhD, Indiana University, Bloomington*  
Ethnomusicology, folk traditions of Rajasthan and Gujarat, Hindi film music

**Darshini Mahadevia**  
*PhD, Jawaharlal Nehru University*  
Urban planning and studies, human and gender development, climate change

**Karthik Rao-Cavale**  
*PhD, Massachusetts Institute of Technology*  
Spatial political economy, urban and regional history, legal and political mobilisation

**Keita Omi**  
*PhD, University of Utah*  
International relations, comparative politics, foreign policy, intelligence studies

**Leya Mathew**  
*PhD, University of Pennsylvania*  
Sociology of education, cultural politics, middle classes, feminisms

**Mary Ann Chacko**  
*EdD, Columbia University, New York*  
Critical childhood studies, citizenship education, police in schools, gender in education

**Maya Ratnam**  
*PhD, Johns Hopkins University*  
Ecology and selfhood in South Asia, Adivasi lives and resource politics, land rights

**Sarthak Bagchi**  
*PhD, Leiden University*  
Electoral politics, populism, state-society relations, comparative politics

## Career Pathways

The degree in Social and Political Sciences from Ahmedabad University will equip graduates with excellent communication and interpersonal skills, and the ability to work in teams and collaborate across specialisations. They will be trained in methods from a range of disciplines. Graduates will be able to pursue higher studies in disciplines such as Anthropology, Development Studies, International Studies, Political Science, Sociology and Urban Planning. In addition to academics, graduates will have the interdisciplinary training they need to pursue careers in journalism, law, new media, the development sector and in civil services.

# Why Ahmedabad



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**Eligibility** The Bachelor of Arts (Honours) Major in Psychology is open to anyone who has completed class 12 or the equivalent.

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- ahduniv
- @ahduniv @ahmedabad



# Major in Psychology



Ahmedabad  
University

School of  
Arts and Sciences



## MENTAL PROCESSES GUIDING BEHAVIOUR

Psychology is a scientific study of mental processes and behaviour, and the relation between them. Though the focus is on an individual, comparative studies with people across cultures enrich knowledge on how and why people behave in ways that they do. The Major in Psychology through its research oriented curriculum enables students to learn (i) how people perceive, learn, and think; (ii) how behaviour is motivated; (iii) how individuals differ from one another; (iv) how the personality develops across the life span; (v) how interpersonal variables impact relationships in groups, organisations, and society; and (vi) how pathological behaviour develops and is modified.

Courses introduce students to the theories and empirical studies of behaviour. Laboratory experiments are performed to verify the known psychological facts and principles, and to investigate the new ones. Psychological testing makes students skilled in assessing individual differences. Consequently, students acquire the attitude, knowledge, and skills relevant to (a) careers in business, counselling, education, law, medicine, public policy, and technology and (b) graduate studies in psychology.

Students Majoring in Psychology are expected to demonstrate:

1. Knowledge of the theory and research within the discipline of Psychology;
2. Skill to observe, record, and analyse a problem, using psychological methods; and
3. Attitude and skill to draw sound inferences from given data.

## Course Structure

All incoming undergraduates at Ahmedabad University start with the Foundation programme, an interdisciplinary course that covers fields from Mathematics to Literature through project-based learning.

### Core Courses

- Introduction to Psychology
- Research Methods of Psychology
- Data Analyses in Psychology
- Cognitive Psychology
- Abnormal Psychology
- Social Psychology
- Developmental Psychology
- Biological Psychology

### Electives

- Lab in Psychology
- Personality and Individual Differences
- Psychological Assessment
- Comparative Psychology
- Evolutionary Psychology
- Cognitive Neuroscience
- Social Cognition
- Cross-cultural Psychology
- Psychology and Law
- Industrial and Organizational Psychology
- Consumer Psychology
- Environmental Psychology
- Educational Psychology
- Counselling Psychology
- Health Psychology
- Positive Psychology
- Independent Research

As with all majors at Ahmedabad University, students pursue their own interests with a thesis or capstone project which they complete in their final year.

## Faculty

Ramadhar Singh  
PhD, Purdue University  
Distinguished University  
Professor

Divita Singh  
PhD  
Indian Institute of Technology  
Gandhinagar

## Career Pathways

Students can choose to work in industry or go on to pursue higher studies. Upon completion of higher studies, students can take up senior positions in industry and research laboratories, start their own venture or pursue research and teaching in academic institutions.

Aspirants who have successfully completed their training in psychology can make their mark in the following lucrative branches of psychology.

Clinical Psychology | Counseling Psychology | Health Psychology | Teaching and Research | Industrial/Organizational and Human Resource | Sports Psychology | Community Counseling | Educational Psychology | School Counselling | School Psychology | Social Work



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# Apply

**Eligibility** The Bachelor of Science (Honours) Major in Computer Science is open to anyone who has completed class 12 or the equivalent with Mathematics.

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# Major in Computer Science



## DESIGNING DIGITAL WITH DATA

The bachelor's programme in computer science offers a solid foundation to students with breadth and depth of knowledge in computing. The programme offers rigorous coursework coupled with exposure to a rich set of applications and tools through project based courses, course assignments, undergraduate capstone and summer internships. In addition to core courses, students are required to pursue specialisation electives and free electives.

Our computer science majors will have the ability to:

- Gain firm understanding of the basic principles of computer science from the perspective of theory, systems and applications
- Think critically, and analyse and solve complex computing problems by applying principles of computing and other relevant disciplines
- Communicate effectively
- Practice and grow in the computing industry as professionals
- Conduct research and assist leading researchers in design, development, and support of applications that involve knowledge of cutting edge tools, development frameworks and good analytical skills
- Enhance their knowledge and skills while working collaboratively on complex multi-disciplinary problems
- Make informed decisions by weighing the ethical and social aspects of modern computing technology in the design, development, and delivery of computing services

## Course Structure

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### Core Courses

Discrete Mathematics | Computer Programming  
Probability and Stochastic Processes | Advanced Data Structures and Algorithms | Computation Structures | Programming Language Concepts and Paradigms | Design and Analysis of Algorithms Theory of Computing | Computer Systems and Networking | Introduction to Bio-informatics  
Artificial Intelligence | Introduction to Bio-informatics

### Electives

#### Theoretical Computer Science

Approximation Algorithms  
Complexity Theory  
Enumerative Combinatorics and Graph Theory  
Network and Combinatorial Optimization  
Linear Programming and Stochastic Optimization  
Information Theory and Quantum Computation

#### Systems

Software Engineering  
Networking and Distributed Computing  
Parallel and Distributed Computing  
Computer and Network Security  
Supply Chain Management  
Operations Research  
Financial Engineering

#### Artificial Intelligence

Introduction to Machine Learning  
Natural Language Processing  
Computer Vision  
Neural Networks and Deep learning  
Robotics  
Information Retrieval

#### Bio-computing

Introduction to Computational Biology  
Introduction to Systems Biology  
Algorithms for Pattern Matching  
Sequence Analysis: Genes, Proteins and Genomes  
Molecular Phylogenetics and Evolution  
Statistical Methods in Bioinformatics

#### Data Science

Linear Algebra and Optimization  
Mathematical Statistics  
Data Analytics and Visualization  
Big Data Analytics  
Machine Learning

#### Computational Science

Advanced Statistics  
Natural Language Processing  
Computational Social Science  
Computational Linguistics

#### Quantum Computing

Linear Algebra  
Information Theory and Quantum Computation  
Complexity Theory  
Quantum Information Theory  
Quantum communication  
Quantum electronics

As with all majors at Ahmedabad University, students pursue their own interests with a thesis or capstone project which they complete in their final year.

## Faculty

### Barbara Morawska

*PhD (Computer Science),  
Clarkson University NY*  
Unification theory, Description  
Logics, Ontologies, Algorithms,  
Complexity analysis

### Sanjay Chaudhary

*PhD (Computer Science),  
Gujarat Vidyapith*  
Distributed Computing, Cloud  
Computing, Blockchain  
Technology, Data Analytics,  
and ICT Applications in  
Agriculture and Rural  
Development

### Shashi Prabh

*PhD (Computer Science),  
University of Virginia*  
Wireless networks, Internet of  
Things, Cyber-Physical  
Systems

### Srikrishnan Divakaran

*PhD (Computer Science),  
Rutgers University*  
Design and Analysis of  
Algorithms for problems with  
applications in Bioinformat-  
ics/Computational Biology,  
Data Sciences, Distributed  
Systems and Operations  
Research.

## Career Pathways

Students can choose to work in industry or go on to pursue higher studies. Upon completion of higher studies, students can take up senior positions in industry and research laboratories, start their own venture or pursue research and teaching in academic institutions.

There are various areas where students can work, depending upon their interests and vacancies in the market.

Software Developers, Software Testing, Data Architect, Database Developer, Data Modeler, Quality Assurance Associate / Analyst, Mobile Applications Developer, UI/UX Designer, Software Quality Assurance (QA), Game Designer, Website/ Mobile Application Designer, Information Technology Auditor, Data Engineer, Data Analyst, Decision Scientist