PROSPECTUS 2026-27

St. Xavier's College (Autonomous), Ahmedabad

(Affiliated to Gujarat University)

Re-accredited with "A+" by NAAC (4th Cycle)

May everyone who enters this sacred campus
be blessed with peace and integrity.
And achieve the impossible with Thy Divine Power !

St. Xavier's College (Autonomous) Ahmedabad

Founded : 1955

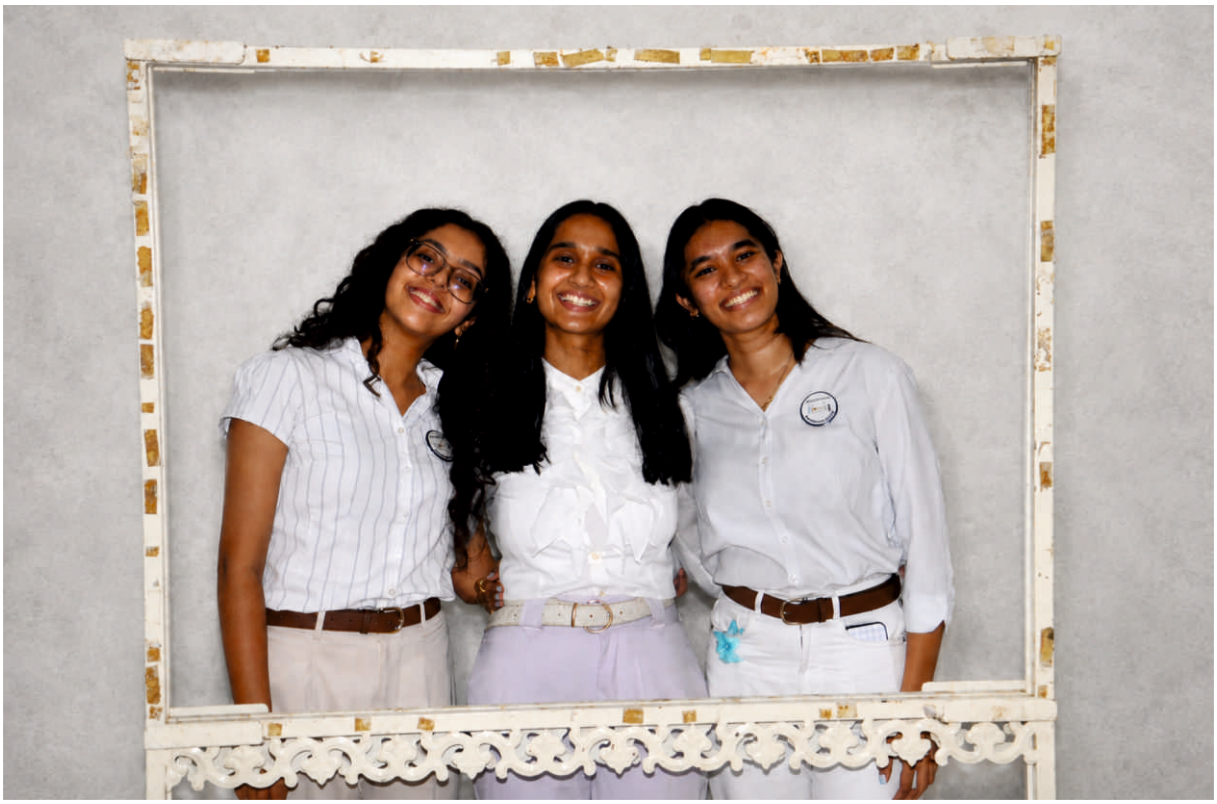
Staff : 180+

Students : 4500+

UG Programmes : 24

PG Programmes : 12

Distinguishing Features :
Academics
Research
Extra-Co-Curricular Activities
Sports
Holistic Development



Academic Life

Students thrive in a relaxed and open learning environment, where teaching encourages discussion and critical thinking. Teachers are easily approachable for support beyond class hours. The curriculum often incorporates projects and internships, emphasizing hands-on experience and collaboration with peers.

Study Structure

Methods of instruction is generally delivered through lectures, lab sessions, flipped classrooms, field visits, group activities, seminars, project works and independent assignments. A course credit structure can vary from 2-4 credits and a student must acquire 22 credits in a semester. A student has the flexibility to move out of a programme at the end of two semesters with a certificate, or at the end of 4 semesters with a diploma, or at the end of 6 semesters with a degree, or at the end of 8 semesters with an honours degree. As per NEP guidelines, several departments of the college can offer Research Projects to students who fulfill the required credentials.

The post graduate programmes currently are spread over two years with 96 credits.

Learn from Experts

Our teaching staff are experts in their fields (more than 80% of faculty members are PhD holders), ensuring you learn the most up-to-date topics. Every student is assigned a personal mentor - a faculty member from your department who understands your subject and potential challenges. Your mentor will guide your academic journey and support your personal and professional growth throughout your time at Xavier's.

Develop your Skills

You will have numerous opportunities to develop your skills, whether in research, social work, sports, aesthetics, literature, culture, or personal growth. The college emphasizes holistic education with a strong focus on equity. Students are offered a wide array of extracurricular opportunities, including NCC, NSS, Tarumitra, women's development initiatives, cultural activities, and various clubs. Entrepreneurial programmes in areas like tissue culture (in-Xitu) and DEXIC are also available. The college has established 'XITED', which is a cell that orients students towards innovations and product development. Additionally, the college promotes physical fitness and teamwork through sports such as basketball, football, cricket, volleyball, and hockey, ensuring a well-rounded educational experience for all students. College has sports facilities, auditoriums, open-air theatre, research laboratories, and library that provide the perfect environment for honing both soft and hard skills.

Additionally, we support students with placement assistance and entrepreneurship programs. Through our numerous working MoUs, students can gain valuable hands-on experience and expand their professional horizons.

Vision

To build a more inclusive and humane society by accompanying the youth journeying through higher education, inspiring them to deepen their self-understanding, developing a critical understanding of reality, igniting a passion for the common good, becoming sensitive to the less privileged and moulding them to become environmentally conscious.

Mission

To create an institution with excellence in academics and research in the service of learning to all strata of society with special attention to marginalized, disadvantaged, differently abled, discriminated people, and victims of social and economic disparity.

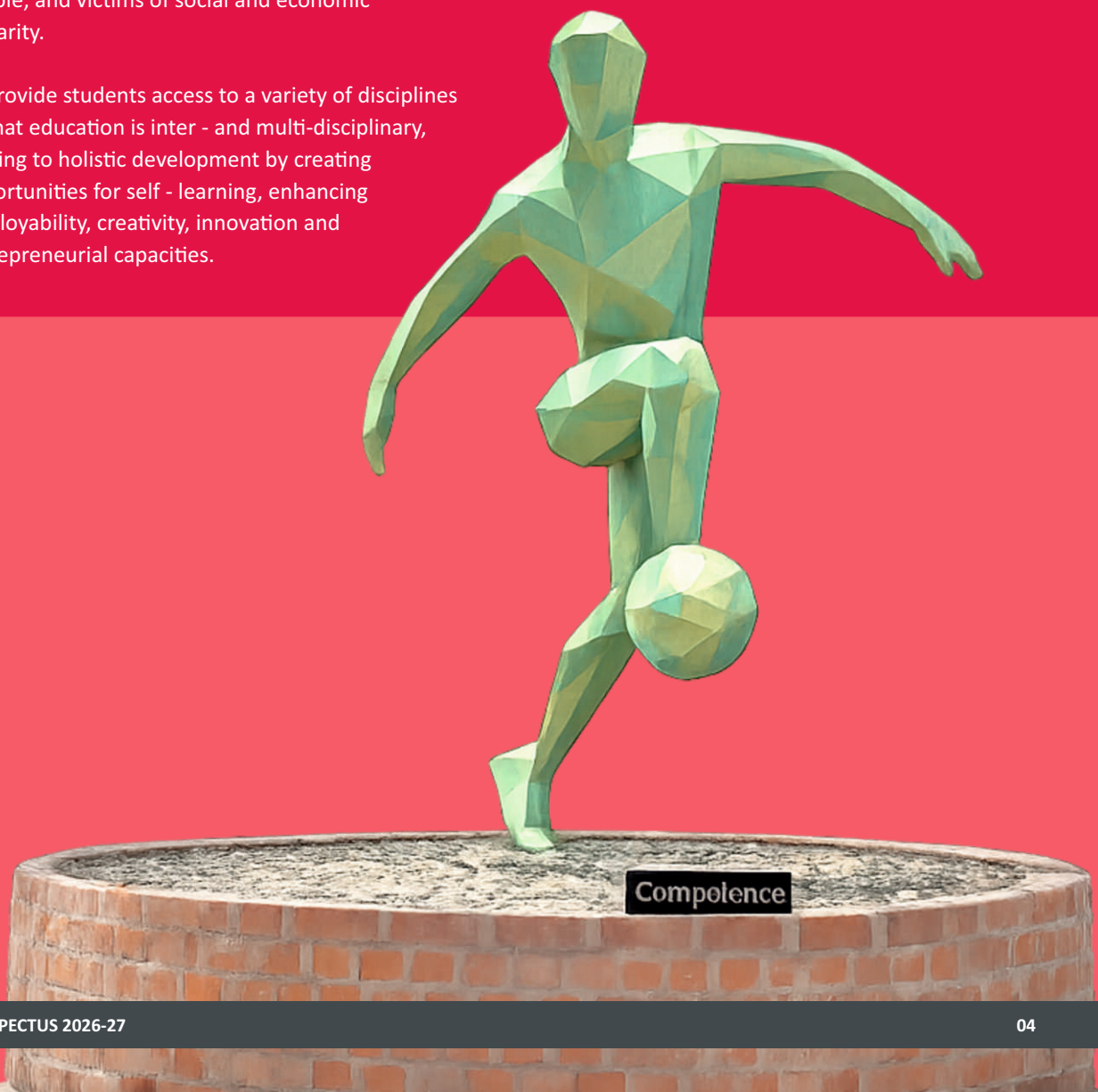
To provide students access to a variety of disciplines so that education is inter - and multi-disciplinary, leading to holistic development by creating opportunities for self - learning, enhancing employability, creativity, innovation and entrepreneurial capacities.

To foster gender sensitivity, equality, scientific temper that encourages research, an invigorating environment for skill upgradation and effectuate collaborations with other educational/research institutions and industries.

To engender an experience of urban and rural extension work so that students are inspired to work towards the upliftment of all and sustainable development.

Core Values

Holistic development, Excellence in academic, research and service learning, Integrity, Hard Work, Equity, Honesty, Fairness and Tolerance.



Board of Trustees

(The Ahmedabad St. Xavier's College Society)

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Dr. Fr. David K Roy, SJ	:	Secretary	(Ex-Officio)
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Fr. Ramesh Macwan, SJ	:	Treasurer

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Dr. Sebastian V. A.	:	Principal
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Dr. Fr. Suresh Antony, SJ	:	Vice Principal (Research & Development and HR)
Dr. Nirmal Desai	:	Controller of Examinations
Dr. Rajesh Iyer	:	NEP Nodal Officer
Dr. Pinky Desai	:	Management Appointee

Director's Message

Greetings!

St. Xavier's College (Autonomous) begins this academic year, its 72nd year of academic excellence. Our College has been moulding generations of students with Jesuit pedagogy which is almost five centuries old. We strive to offer our best in academic, sports, and other extra and co-curricular fields.

At Xavier's we believe in and strive towards holistic formation of young minds emphasizing intellectual, character, emotional, physical and spiritual formation through quality education. We mould young girls and boys to become persons for others, to serve the humanity, and become contributors of nation building.

Our focus is threefold: academics, research, and extension activities. Our excellent faculty and staff are committed to accompany the young and vibrant minds towards quality academic and research inputs, which form a strong foundation for their professional life. We also give opportunities to engage in some extension activities in service of the wider society.

Our implementation of NEP 2020 since the academic year 2023-24 is paving newer ways to enhance the ability, skillsets and academics of the student community.

Welcome to Xavier's and wish you all the very best!

Dr. Fr. David K Roy SJ

Principal's Message

Welcome to a college that nurtures enthusiasm, builds confidence, and instills discipline.

We take pride in saying, "Once a Xavierite, always a Xavierite." The values we cultivate - hard work, tolerance, honesty, solidarity, respect for diversity, and a constant quest for excellence - are meant to stay with you for life and to positively influence your families and society.

At Xavier's, we offer a rich learning environment with opportunities and exposure rooted in a thoughtfully designed curriculum. Our aim is to help every student realize their full potential - whether becoming research-oriented or industry-ready. With committed and selfless staff, student-friendly teaching methods, and a vibrant campus life, you will find ample avenues to hone your talents and grow in confidence to face life ahead. Our mentoring system and personal growth programmes uphold the dignity of every individual and ensure that each student is guided and supported to become a happy, responsible citizen.

As we begin a new academic year, with the continued support of our management, staff, alumni, parents, well-wishers, and students, we remain dedicated to providing quality education and giving wings to your dreams.

Strive not only to become a Xavierite, but to remain passionate and committed by always giving your best.

May God bless you all.

Dr. Sebastian V. A.

Beginnings

St. Xavier's College, Ahmedabad, began as an Arts College on the premises of St. Xavier's School, Mirzapur, in 1955. Under the leadership of the first Principal, Fr. Frank Lobo, and the in-charge of the Arts section, Fr. Joseph Lobo, the College made a humble beginning, offering only English and Economics as majors then. Moving to its present location in Navarangpura in 1956, SXCA continued to grow. The Science section was started with Chemistry and Biology as majors, and Physics was introduced the following year. Even as the building work continued, the Men's Hostel was started in 1957. Talented and dedicated Jesuits arrived in the following decades. Together with a committed group of faculty, they took the college to new heights in academics, sports, and extracurricular activities. Fr. Herbert de Souza SJ, Fr. Carlos Valles SJ, and Fr. Donald Dias SJ are a few of those luminaries.

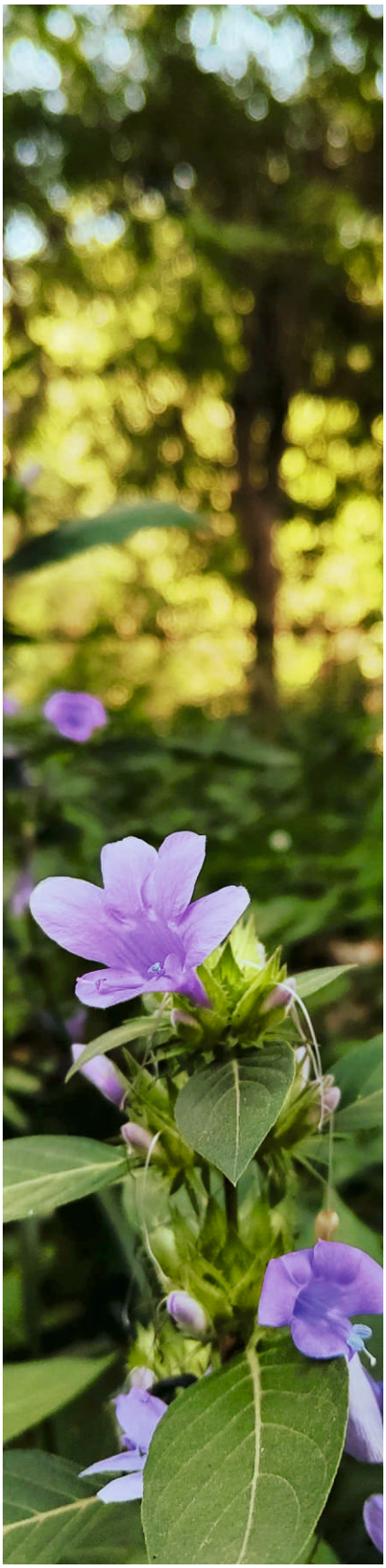
To remain faithful to the Jesuit Education's goal of forming persons for others, SXCA introduced Jagrat for the ST/SC students, Utkarsh for the differently-abled, and Seva Suhas for the Christians students through its Campus Ministry services. Currently, these units contribute admirably to the students' holistic development, alongside NSS, NCC, and CWDC (Collegiate Women's Development Cell).

Present

A few recent landmarks in the history of SXCA are worth mentioning here. In 2001, SXCA became the first college in Gujarat to be accredited with 'Five Stars'. At the turn of the millennium, the college started offering a Post Graduate Diploma in Computer Application (PGDCA), and in 2003, Xavier Institute of Computer Applications (XICA) was inaugurated in the new building overlooking the football ground. SXCA was conferred 'Academic Autonomous Status' on 19 June 2014, opening the possibility of expansion through introduction of new self-financed programmes. In June 2023, SXCA became one of the first colleges in Gujarat to introduce NEP (National Education Policy 2020), and has successfully implemented it ever since, despite several academic, logistical, and administrative hurdles along the way.

Looking Ahead

Guided by the Ignatian principle of 'MAGIS', a tireless pursuit of excellence to make everything better, St. Xavier's College, Ahmedabad, continues to dream big. In the years to come, SXCA dreams of expanding itself into a more widespread, inclusive, and impactful institution of higher education in India. It is dreaming to transform itself into a colossus of learning with state-of-the-art facilities, extraordinary academic output, and universally cherished ethical, moral, and spiritual values. Relying on the combined strength of 'Xavier Parivar' - the management, faculty, staff, students, alumni, parents, collaborators, and well-wishers - SXCA is looking forward to scaling new heights in academic excellence and service.



Index

Bachelor of Arts: Economics

Duration: 4 years
Total seats: 60 (Grant in Aid)
Total seats: 45 (Self Financed)

Envisaging attainment of academic excellence through making students to think critically about economic issues emerging every day, so that they can actively engage with policy issues.

Subject Overview

Besides providing theoretical insights, the department also provides experiential knowledge about applied economics. The department has a qualified team dedicated towards training students to graduate with excellent merit, and establish themselves in areas like Development Economics, International Economics, Management, Social Sector, Civil Services and Administration, Banking, Trade and Commerce, Business and Data Analytics. The department conducts seminars, encourages discussions on current affairs, educates through innovative ways, facilitates research, and organizes educational excursions and festivals which provide management skills. Teachers make themselves available to students who need individual mentoring in academics, career and personal growth. Further, the department trains students to be leaders, and helps develop their talents in a holistic manner.

Programme Content

- Microeconomics and Macroeconomics
- Econometrics
- Mathematical Economics
- International Trade
- Finance Development
- Environment Sustainability
- Behavioural Economics

Career Opportunities

A Bachelor's in Economics offers diverse career opportunities in finance, consulting, policy-making, and data analysis. Graduates can work as economic analysts, financial advisors, policy researchers, or market strategists in banks, government agencies, think tanks, and multinational corporations. The degree also provides a strong foundation for advanced studies like MA, MBA, or CFA, ensuring high employability and growth in a data-driven economy.

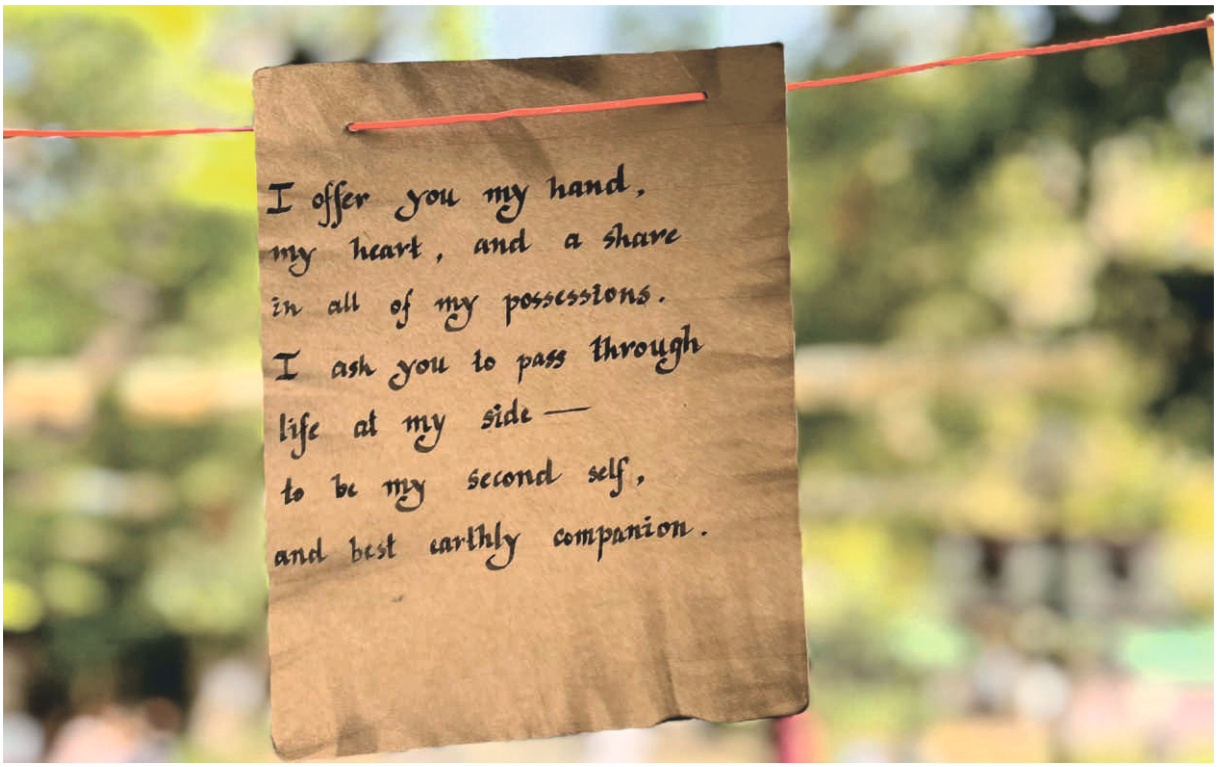
Options for Minor Courses

- Communicative Language
- Business Communication
- Business Statistics and Data Analytics

Find out more about this course:
sxca.edu.in/economics/
economics@sxca.edu.in

Bachelor of Arts: English

Duration: 4 years
Total seats: 60 (Grant in Aid)
Total seats: 60 (Self Financed)



The English department envisions fostering critical thinking, aesthetic sensibility, effective communication, and innovative socio-cultural engagement. Through expertise in English literature and language, we hope to nurture students to become adept professionals as well as responsible, sensitive, and conscientious persons. We hope to provide professional and personal skill-building with a special emphasis on employability, sustainability, effective communication, and creative expression in language.

Subject Overview

BA in English is a four-year programme designed to provide an in-depth interdisciplinary engagement with literature, language, culture, and media. The programme offers courses in literature, academic writing, TESOL, communication skills and media studies. Professional areas covered through the syllabus include content writing, teaching of English as a second language, teaching of literature, digital journalism, writing for media and other related professions.

Programme Content

- Literary criticism
- World Drama
- Phonetics
- Writing skills
- History of English Literature

Career Opportunities

A BA in English Literature opens diverse career paths, including roles in publishing, content writing, journalism, education, and digital media. Graduates can work as editors, teachers, copywriters, or literary critics. Additionally, skills in research, communication, and critical thinking offer opportunities in public relations, marketing, and even law.

Options for Minor Courses

- Behavior Psychology
- Business English
- Fundamentals of Economics

Find out more about this course:
sxca.edu.in/English/
english@sxca.edu.in

Master of Arts: English

Duration: 2 years
Total seats: 60

Subject Overview

Studying English at St. Xavier's College, at the Postgraduate (MA) level, combines a focus on linguistic proficiency with an attempt to nurture critical thinking and engagement with creative literary works. While language skills are a recognized necessity given the competitiveness of the national and international job market, the development of the ability to read critically and empathetically, to critique cultural artefacts and to establish rigorous and current theoretical frameworks for social and textual analysis form an integral part of humane living. The humanities in general, and literature in particular, have the ability, through this focus, to further what has been a long term aim as far as the College is concerned: equitable and just processes of learning, taking into account a multiplicity of positions from which this knowledge is produced.

Programme Content

- British literature
- American literature
- Language studies
- Indian Literature
- Women's writing

Career Opportunities

A Master's in English Literature opens diverse careers in academia, media, corporate, and government sectors. Graduates work as professors, content writers, editors, PR specialists, digital marketers, and technical writers. Additional qualifications in digital marketing or technical writing enhance prospects in emerging fields like content strategy and corporate communications.

Find out more about this course:
sxca.edu.in/English/
english@sxca.edu.in

Bachelor of Arts: Gujarati

Duration: 3 years
Total seats: 30 (Grant in Aid)

To orient students of Gujarati and Hindi, they are introduced to literary masterpieces, taken to institutions that preserve and promote Gujarati and Hindi literature, theatre and culture. To widen their literary and linguistic horizons, students are encouraged to participate in seminars, workshops, literature fests, research projects and co-curricular activities.

Subject Overview

The programme includes works of eminent writers of different eras, giving a glimpse of the societal conditions, the ethos and culture during medieval times, the practices and policies of earlier times, juxtaposed with the contemporary society, and understanding changes that have enabled cultures and languages to evolve. The programme aims at enabling students to be conversant with the subject as they could grow to become content writers, journalists, authors, poets and facilitators.

Programme Content

- Literary forms
- Linguistics
- Writing Skills
- Translation
- History of Gujarati Literature (Medieval, Modern, Post Modern)
- Literary Criticism

Career Opportunities

A Bachelor's in Gujarati-Hindi opens doors to diverse career opportunities in translation, content writing, journalism, teaching, and media. Graduates can work as language experts, translators, scriptwriters, news anchors, or professors in publishing houses, TV channels, educational institutions, and government agencies. The degree also provides a strong foundation for higher studies like MA, PhD, or BEd, ensuring growth in cultural, literary, and mass communication fields.

Options for Minor Courses

- Behavior Psychology
- Samanya Hindi
- Fundamentals of Economics

Find out more about this course:
sxca.edu.in/Gujarati/
gujarati@sxca.edu.in

Bachelor of Arts: Psychology

Duration: 4 years
Total seats: 60 (Grant in Aid)
Total seats: 150 (Self Financed)

To foster academic equity and promote holistic development among students through a diverse range of academic, extracurricular, and co-curricular initiatives. We are committed to providing a supportive environment where all students have equal opportunities for academic success and personal growth. By offering a variety of stimulating experiences, including research opportunities, sports, hands-on learning through field trips and cultural activities, we aim to empower students to thrive academically and flourish in all aspects of their lives.

Subject Overview

Our undergraduate programme in Psychology offers a comprehensive exploration of the science of human behaviour and mental processes. Students delve into the complexities of the mind, brain, and social interactions, learning to describe, analyze, predict, and positively influence behaviour.

The programme offers a diverse range of courses, including behavior studies, counselling, personality psychology, social psychology, psychopathology, research methods and industrial psychology. Here, students gain a solid foundation in psychological principles and their practical applications. The curriculum emphasizes the development of essential skills such as research, critical thinking, and interpersonal communication, preparing graduates for diverse career paths in psychology and related fields, including clinical practice, human resources management, and social services.

Programme Content

- Basic Psychological Process
- Counselling and Industrial Psychology
- Psychology for Adjustment
- Social Psychology
- Research Methodology
- Child Psychology
- Psycho Pathology
- Experimentation in Psychology

Career Opportunities

A Bachelor of Arts in Psychology offers diverse career paths in counselling, human resources, social work, and market research. Graduates can work as mental health assistants, HR specialists, behavioural analysts, or rehabilitation counsellors in clinics, schools, NGOs, and corporate firms. Additionally, skills in research, communication, and data analysis lead to opportunities in healthcare, education, and corporate sectors. The degree also provides a strong foundation for advanced studies like MA, MSc, MSW or MBA, ensuring opportunities in clinical, organizational, and research-oriented fields.

Minor Courses

- English
- Gujarati
- Economics
- Hindi
- Sanskrit
- Sociology

Find out more about this course: sxca.edu.in/Psychology/ psychology@sxca.edu.in

Master of Arts: Clinical Psychology

Duration: 2 years
Total seats: 90 (Self Financed)

Postgraduate Programme

Psychology, an integral part of human life, enables us to understand the complexity of human behaviour, mental processes, and human performance. The Master's Degree Programme in Clinical Psychology is designed to provide students with an in-depth understanding of mental health and psychological functioning, while equipping them with the knowledge and skills required for professional practice as Clinical Psychologists. Along with a comprehensive and up-to-date curriculum, the programme offers valuable opportunities for supervised internships and practical training, allowing students to apply theoretical knowledge in real-world settings. The course also aims to promote mental health awareness, reduce the stigma associated with mental illness, and foster ethical, competent, and compassionate practice in the professional realm.

Programme Content

- Diagnostic and Statistical Manual of Mental Disorders
- International Classification of Diseases
- Cognitive Psychology & Neuropsychology
- Counselling & Psychotherapy
- Internship & Dissertation
- Social Psychology
- Psychological well being

Career Opportunities

A Master's degree in Clinical Psychology equips graduates with the competencies required for diverse professional roles such as clinical psychologists, therapists, counsellors, researchers, and mental health professionals across hospitals, rehabilitation centres, NGOs, educational institutions, and corporate wellness programmes. The programme also prepares students for roles in academic and research settings, including teaching, pursuing doctoral studies, and contributing to evidence-based psychological practice. Specialized training in various therapeutic approaches, psychological assessment (including psychometric and projective techniques), research methodology, statistical software, and work in industrial and organizational settings enhances graduates' employability in this rapidly growing field. In addition, exposure to working with children with special needs, school mental health initiatives, and inclusive education broadens opportunities within educational and developmental contexts. Overall, the programme prepares graduates for both professional practice and advanced academic pursuits, enabling them to contribute meaningfully to mental health services, education, research, and community well-being.

Find out more about this course:
sxca.edu.in/academics/departments/arts-humanities/psychology/
psychology@sxca.edu.in

Bachelor of Arts: Sanskrit

Duration: 3 years
Total seats: 30 (Grant in Aid)

To develop a thirst for knowledge in Sanskrit with a view to acquiring Sanskrit as a spoken language, and to promulgate the value and cultural heritage of Sanskrit in society.

Subject Overview

The course work comprises a detailed study on Sanskrit Drama, its types, special features of Sanskrit one Act Plays, Criticism on the episodes of literary works like Bhasa, Bhagavad Gita, Kalidasa's Raghuvansham and the Upanishads. Translations of verses is an integral part of the course. Understanding the styling of various writers, the contexts of their writing, the textual implications of their language, the psychological aspects of the literature and bringing the text into the present time – these features are also unravelled in the course.

Programme Content

- Indian Philosophy
- Indian Poetics
- Classical Sanskrit Literature
- Dharmashastras
- Spoken Sanskrit
- Vedic Literature
- Epigraphy

Career Opportunities

A BA in Sanskrit Literature offers unique career opportunities in fields such as teaching, translation, research, and cultural preservation. Graduates can pursue roles in academia, working as Sanskrit teachers or researchers. They may also contribute to translating ancient texts, working with museums, or taking positions in cultural organizations and heritage management. The degree also provides a strong foundation for higher studies like MA, PhD, ensuring growth in linguistics, philosophy, Indology, and religious studies. Rigorous preparation for UPSC/GPSC.

Minor Courses

- Gujarati
- Economics

Find out more about this course:
sxca.edu.in/Sanskrit/
sanskrit@sxca.edu.in

Bachelor of Arts: Sociology

Duration: 4 years
Total seats: 60 (Self Financed)

To foster a diverse and inclusive learning environment that encourages open dialogue and respect for various perspective, so as to understand contemporary society and its people.

Subject Overview

The Department of Sociology invites students to explore the dynamic relationship between society and social development through the BA (Hons) program in Sociology. The program enables students to critically engage with social structures, institutions, and processes that shape human interactions and social life. Students gain a comprehensive understanding of core sociological theories, concepts, and research methods, along with their application to contemporary social issues. The curriculum offers a holistic perspective on society—from micro-level interactions within families and small groups to macro-level structures such as communities, institutions, and global systems. Through rigorous coursework, students examine key social institutions including family, religion, education, economy, and politics, while developing analytical and research skills essential for understanding social change. Aligned with the National Education Policy (NEP) 2020, the program equips students with practical knowledge, critical thinking abilities, and ethical sensitivity to navigate and contribute meaningfully to a rapidly evolving society.

Programme Content

- Principles of Sociology and Sociological Theories
- Social Structures and Social Processes
- Indian Society and Social Institutions
- Sociology of Development
- Social Change and Contemporary Social Issues
- Research Methodology

Career Opportunities

A Bachelor's in Sociology opens avenues in social work, NGOs, public policy, social administration, and community development. Graduates can work as social researchers, development officers and program coordinators in government and non-profit sectors. The degree also provides a strong foundation for higher studies such as MA, MSW and Public Policy. Sociology is a preferred optional subject for Civil Services and other competitive examinations, as it offers critical insight into Indian society, governance, and social justice, making it highly relevant for careers in public service and administration.

Minor Courses

- Introduction to Sociology
- Indian Society
- Gender, Sexuality and Society
- Social Problems

Find out more about this course:
sxca.edu.in/Sociology/
sociology@sxca.edu.in

Bachelor of Commerce: Business Process Services

Duration: 4 years
Total seats: 70 (Self Financed)

Empower students by giving them a strong foundation in the specialized area of commerce with the objective of enhancing their employability, broadening their horizons, and building a mind-set equitable individual and social progress.

Subject Overview

The department offers a BCom with a specialization in BPS, which is a Bachelors degree program in commerce. This programme has been designed in collaboration with TCS, one of the major organizations in the BPS industry. The programme focuses on enhancing employability and fosters the supply of talent for the BPS industry. Overall, this programme aims to make students well-versed in contemporary commerce and business practices by developing mindsets and skillsets that are significant and relevant to the industry.

Programme Content

- Business Management
- Corporate accounting
- Company secretary and functions
- Income Tax
- Fundamentals of Entrepreneurship development

Career Opportunities

B.Com in Business Process Services opens several career opportunities in finance, accounting, HR, and operations. Graduates can work as process analysts, financial consultants, operations managers, or customer service executives in IT, banking, healthcare, and e-commerce sectors. With growing demand for outsourcing services, BPS professionals enjoy lucrative roles in multinational corporations, startups, and consulting firms, ensuring strong career growth and global exposure.

Minor Courses

- Financial Accounting
- Computerized Accounting
- Business Management
- Operations Research
- Principles and Practices of Audit

Find out more about this course:
sxca.edu.in/commerce/
commerce@sxca.edu.in

Bachelor of Commerce: General

Duration: 4 years
Total seats: 70 (Self Financed)

Empower students by giving them a strong foundation in the specialized area of commerce with the objective of enhancing their employability, broadening their horizons, and building a mind-set equitable individual and social progress.

Subject Overview

Our under-graduate BCom programme begins with an introduction to the basic concepts of Commerce so as to create a foundation for further studies in Commerce. The second and third year courses provide students with an in-depth understanding of commercial law, market research, enterpreneurship taxation, banking, operation research, corporate ethics, development, etc. On graduating, the curriculum engenders a strong knowledge base, enabling students to think critically and coherently on accounting and commercial concepts, as well as to formulate ideas, design experiments and communicate effectively – all of which are skills required for employability

Programme Content

- Business economics
- Management Accounting
- Marketing Research
- Income Tax
- Capital Markets
- Financial Accounting
- Indian Financial System

Career Opportunities

A BCom (General) degree offers several career opportunities in finance, accounting, marketing, and management. Graduates can explore roles like accountant, financial analyst, tax consultant, sales executive, or business development officer across sectors like banking, insurance, retail, and corporate. It also lays a solid foundation for further studies such as CA, CMA, MBA, or MCom, ensuring continued career growth and flexibility in the business field.

Minor Courses

- Fundamentals of Entrepreneurship Development
- Business Management
- Operations Research
- Human Resource Management
- Supply Chain Management

Find out more about this course:
sxca.edu.in/commerce/
commerce@sxca.edu.in

Bachelorette of Science: Business Administration

Duration: 4 years
Total seats: 120 (Self Financed)

To empower students with practical business skills, leadership qualities, and ethical values, preparing them for dynamic careers in management, entrepreneurship, and global corporate challenges.

Subject Overview

The BS Business Administration is a four-year honors program with specialization in Finance and Marketing, designed to develop high-level professional competencies through research and practical learning. It equips students with the skills to analyze business environments and make strategic decisions in both professional and personal spheres. The curriculum prepares students for managerial roles such as Business Analyst, Marketing Consultant, and Financial Executive. With a focus on Banking and Financial Services, Investment and Financial Statement Analysis, and Risk Management, the program nurtures financial expertise to support India's rapidly evolving economy. Additionally, it enhances communication, critical thinking, problem-solving, and teamwork, paving the way for strong career prospects in diverse commercial sectors.

Programme Content

- Business Finance
- Marketing
- Human Resource Management
- Operation Research

Career Opportunities

The course provides a wide range of career paths in the management areas such as marketing, finance, human resources, and business operations. Graduates are equipped to pursue roles such as business analysts, marketing professionals, HR managers, financial advisors, or entrepreneurs in various sectors including banking, consulting, information technology, and retail. Additionally, this degree lays the groundwork for further education, such as a Master of Business Administration (MBA), which fosters the development of leadership and strategic abilities essential for sustained career advancement.

Minor Courses

- Accounting
- Statistics
- Taxation

Find out more about this course:
sxca.edu.in/commerce/
commerce@sxca.edu.in

Bachelor of Computer Application

Duration: 4 years
Total seats: 180 (Self Financed)

To impart in-depth knowledge of computing systems utilizing technological and innovative methods, shaping them into responsible, ethical and humanitarian citizens, thus contributing towards society and its challenges through innovation-centric education and a research environment.

Subject Overview

BCA is one of the courses most opted for, in a career of Information Technology. The course, provides a sound academic base for an advanced career in computer applications. It covers key areas of computer studies and industrial computing along with the required analysis and synthesis involved in information systems. After the successful completion of the programme, a student should be able to get an entry-level job in the field of Information Technology or ITES. BCA graduates can also start their career as programmers and rise to positions of senior programmers. Some of the opportunities open for our students include Software Development & Design positions in companies like Microsoft, Oracle, Wipro, Infosys etc. and System Administrators in big corporate companies like Citibank, HLL, P & G etc.

Programme Content

- Core Programming
- Web Development
- System Foundations
- Artificial Intelligence, Cloud Security, Internet of Things, Blockchain
- Mobile App Development, Software Testing, DevOps, Data Science with R
- Software Development Projects, On-Job Training, Research Projects

Career Opportunities

BCA graduates have several openings as software development, IT consulting, cybersecurity, and data analytics. Graduates are well-equipped to pursue roles as software engineers, web developers, system analysts, or database administrators within technology companies, startups, financial institutions, and multinational corporations. Additionally, this degree lays a solid groundwork for further education, including Master of Computer Applications (MCA), Master of Business Administration (MBA) in Information Technology, or certifications in artificial intelligence and cloud computing, all of which are highly sought after in the fast-changing digital landscape.

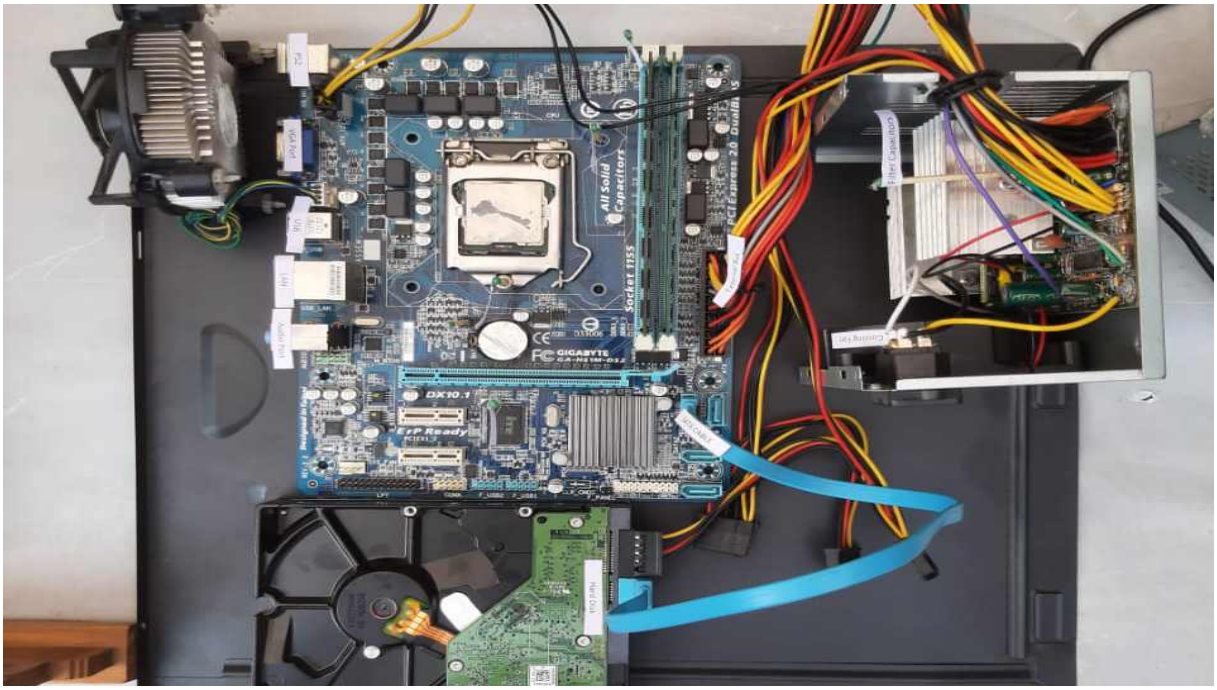
Minor Courses

- Basic and Advanced HTML
- Web-Designing with DHTML
- Multi Media Tools

Find out more about this course: https://sxca.edu.in/academics/departments/computer-sciences/
bca@sxca.edu.in

Bachelor of Science: Artificial Intelligence and Machine Learning

Duration: 4 years
Total seats: 60 (Self Financed)



To empower students with cutting-edge AI and ML skills, fostering innovation and ethical problem-solving. We prepare graduates to excel as industry leaders, researchers, and entrepreneurs, driving advancements in technology for a smarter, more connected world.

Subject Overview

The BSc in Artificial Intelligence (AI) & Machine Learning (ML) program provides a solid foundation in AI & ML, blending theory with practical experience. Aligned with the National Education Policy, it meets the rising demand for AI professionals across various sectors like healthcare, finance, and robotics. Key subjects include Python Programming, Artificial Intelligence, Machine Learning, Deep Learning, Autonomous Systems, Data Science, Computer Vision, Natural Language Processing, Large Language Model, and AI Fundamentals, fostering coding and analytical skills. Through practical projects, internships, and industry collaborations, students gain real-world experience. Guided by expert faculty, the program encourages critical thinking, innovation, and entrepreneurship, preparing graduates for careers in AI, data analysis, and research.

Programme Content

- Machine Learning & Deep Learning
- Natural Language Processing
- Computer Vision
- Reinforcement Learning & Autonomous Systems
- Large Language Models and Gen AI

Career Opportunities

Artificial Intelligence and Machine Learning offers opportunity in AI development, data science, robotics, and automation. Graduates can thrive as machine learning engineers, AI researchers, data scientists, or NLP specialists in industries such as tech, healthcare, finance, and research. This degree also provides a strong foundation for advanced studies like an MSc or PhD in AI, paving the way for leadership roles in shaping the future of AI technology.

Minor Courses

- Mathematics & Statistics for AI & ML
- Programming Languages
- Data Structure and Algorithms

Find out more about this course:
https://sxca.edu.in/academics/departments/computer-sciences/
msca@sxca.edu.in

Bachelor of Science: Information Technology

Duration: 4 years
Total seats: 60 (Self Financed)

To equip students with advanced IT skills, fostering innovation and problem-solving in digital world. We prepare graduates to excel as tech leaders, developers, and entrepreneurs, driving progress through cutting-edge technology and ethical practices.

Subject Overview

The Bachelor of Science in Information Technology (B.Sc. IT) is a four-year undergraduate program launching in June 2025, designed for students from Commerce and Science backgrounds. Aligned with the National Education Policy, it offers a strong foundation in programming, networking, cybersecurity, and data management. With an industry-driven curriculum, students gain practical experience through projects, internships, and hands-on training, preparing them for careers in IT firms, startups, and multinational companies. Eligible candidates from Commerce or Science streams can apply and take the first step toward a dynamic career in technology.

Programme Content

- Introduction to Programming
- Mathematical Foundations & amp; Statistics
- Office Automation & amp; Computer Basics
- Object-Oriented Programming
- Web Technologies & amp; Development
- Database Management & amp; Software Engineering
- Advanced Programming
- Database Systems & amp; Cloud Computing
- Software Development Projects
- Cybersecurity & amp; Networking
- Artificial Intelligence & Data Science
- IoT & amp; Blockchain Technologies
- Cloud Security & amp; Digital Strategies
- Software Development Projects, Research Projects & amp; On-the-Job Training (OJT)

Career Opportunities

IT graduates have bright careers in software engineering, cybersecurity, cloud solutions, and data management. Graduates excel as AI specialists, DevOps engineers, IT consultants, or systems architects in industries such as fintech, e-commerce, and smart infrastructure. The program offers practical training in emerging technologies like blockchain and IoT, while also providing opportunities for specialized certifications (AWS, CISSP) or graduate studies (MS in AI, MBA in Digital Transformation), ensuring a future-proof career in the ever-evolving tech landscape.

Options for Minor Courses

- Big data and analytics
- Networking
- Digital Marketing

Find out more about this course:
https://sxca.edu.in/academics/departments/computer-sciences/
bca@sxca.edu.in

Master of Science: Big Data Analytics

Duration: 2 years
Total seats: 35 (Self Financed)

'Data is the future.' Data is the most important element in any venture. Data gives us glimpses of the past, reality of the present and strengthens us to predict the future. The Tata Consultancy Services (TCS) initiative has made remarkable strides in shaping the talent capability aligned to data analysis, business requirements and to accrue seamless mutual benefits for the world of academics and industry. The objective of this course is to contribute to overall development of the student community in order to enhance quality and consistency of talent supply by channelizing practical industry knowledge to the classroom. The course work comprises Advanced Statistical Methods and Machine Learning, Foundations, Computing and Enabling Technologies for Data Science, Linear Algebra & Linear Programming and Database Management etc.

Programme Content

- Data storage
- Machine learning
- Predictive analytics
- Cybersecurity
- Data retrieval

Career Opportunities

MSc Big Data Analysis graduates are highly sought after, with opportunities in various industries like finance, healthcare, and technology. They can find roles as data scientists, analysts, engineers, or consultants, leveraging their expertise to extract valuable insights from large datasets. These professionals are instrumental in driving data-driven decision-making and innovation.

Find out more about this course: https://sxca.edu.in/academics/departments/computer-sciences/bda@sxca.edu.in

Master of Science: Artificial Intelligence

Duration: 2 years
Total seats: 30 (Self Financed)

The program presents a specialized curriculum in Artificial Intelligence (AI) and Machine Learning (ML), aligning with the National Education Policy to ensure a broad and inclusive education. It introduces the expansive role of AI & ML in various industries, emphasizing practical employability, innovation, and entrepreneurship. Core courses include Search Methods and Reasoning, Machine Learning & Deep Learning, Natural Language Processing and Large Language Models, Generative AI, Computer Vision, etc. equipping students with essential technical skills. The course fosters collaboration with many leading industry giants, providing a window into cutting-edge technology and research. With a commitment to dynamic learning, the program employs interactive teaching methods and is delivered by a mix of international and local experts. The course is coordinated and instructed by seasoned professionals, ensuring a rich educational experience that encourages students to engage in project-based learning and real-world problem-solving.

Programme Content

- Machine Learning & Deep Learning
- Natural Language Processing
- Computer Vision
- Reinforcement Learning & Autonomous Systems
- Large Language Models and Gen AI

Career Opportunities

Artificial Intelligence and Machine Learning has several career prospects such as AI development, data science, robotics, and automation. Graduates can thrive as machine learning engineers, AI researchers, data scientists, or NLP specialists in industries such as tech, healthcare, finance, and research.

Find out more about this course:
https://sxca.edu.in/academics/departments/computer-sciences/
msca@sxca.edu.in

Bachelor of Science: Biochemistry

Duration: 4 years
Total seats: 30 (Grant in Aid)

To excel in Biochemistry and Biotechnology teaching-learning, thus creating exceptional students with a skill-set that benefits society.

Subject Overview

Being a relevant field in pure sciences, our department offers a course that is interesting and covers a wide range of topics. Basics of cell and molecular biology, microbiology, bio-physics, cell culture techniques etc. are illustrated over the duration of the course. Highlighting the relevance of theoretical basics to practical work makes our course/department unique.

Programme Content

- Cell and Molecular Biology
- Enzymology and Applied Biochemistry
- Immunology
- Nutrition and Metabolism
- Genetics

Career Opportunities

A Graduation in Biochemistry offers promising careers in pharmaceutical research, biotechnology, healthcare, and forensic science. They can work as academicians, patent firms, science media, clinical researchers, lab analysts, or biotech specialists in hospitals, research labs, agri-tech firms, drug development companies, bioinformatics centres and biotech firms. The degree also sets the stage for advanced studies like MSc and PhD, driving innovations in genomics and drug development.

Options for Minor Courses

- Chemistry
- Physics

Find out more about this course: https://sxca.edu.in/biochemistry/
biochemistry@sxca.edu.in

Bachelor of Science: Biochemistry with Voc. Biotechnology

Duration: 4 years
Total seats: 30 (Self Financed)

To excel in Biochemistry and Biotechnology teaching-learning, thus creating exceptional students with a skill-set that benefits society.

Subject Overview

This programme was conceptualized with the thought that an amalgamation of a strong foundation in the subject and an enhanced skill-set would be a perfect blend for entrepreneurship. The course-work includes a component on entrepreneurship that gives an insight into the essentials of beginning a small-scale industry. Students opting for this programme will have Biochemistry as their core subject, supplemented with papers of Vocational Biotechnology as their Minor subject, thus enabling them to correlate basic science with the creation of products for improvement of society and environment. The Vocational Biotechnology component is a self-financed component.

Programme Content

- Molecular biology & rDNA technology
- Immunology & Medical Biotechnology
- Plant and Animal Biotechnology
- Biochemistry
- Environmental Biotechnology
- Entrepreneurship
- Bioinformatics
- Critical thinking in Biochemistry

Career Opportunities

A Vocational Biotechnology program prepares graduates for specialized roles in biopharmaceuticals, agriculture, industrial biosciences and to be a entrepreneur. Students gain practical training as lab technicians, quality assurance specialists in vaccine production, genetic engineering, and food processing. The program ensures job readiness and offers opportunities for further certifications in GMP, molecular diagnostics, and bioprocessing automation.

Find out more about this course: https://sxca.edu.in/biochemistry/
biochemistry@sxca.edu.in

Bachelor of Science: Biotechnology

Duration: 4 years
Total seats: 80 (Self Financed)

To excel in Biochemistry and Biotechnology teaching-learning, thus creating exceptional students with a skill-set that benefits society.

Subject Overview

Biotechnology is emerging as a revolutionary field of research and development in the 21st century. So, we aim to introduce students to the broad horizons of the science of biotechnology. Adopting a more practical and analytical approach to the basic principles of subjects like biochemistry, microbiology, molecular biology, cell biology, and immunology, the department ensures that students are conversant with the fundamentals as well as practical applications. The course-work includes a minor research project in one of the semesters with the objective of enhancing the ability of students to design experiments, analyse data and understand the relevance of research for development.

Programme Content

- Molecular Biology
- rDNA Technology
- Fermentation technology
- Cell culture techniques
- Industrial Enzymology

Career Opportunities

A Graduation in Biotechnology offers careers in pharmaceuticals, agriculture, healthcare, and environmental science. Graduates can work as research scientists, bioprocess engineers, or quality control analysts in biotech firms, labs, and agri-tech companies. The degree also prepares for advanced studies like MSc, PhD, or MBA, driving innovation in gene therapy, biofuels, and personalized medicine. With hands-on training and industry exposure, graduates are ready to address global challenges in health, food security, and sustainability.

Options for Minor Courses

- Biochemistry

Find out more about this course:
https://sxca.edu.in/biochemistry/
biochemistry@sxca.edu.in

Master of Science: Biochemistry

Duration: 2 years
Total seats: 30 (Self Financed)

The Graduate Programme in Biochemistry goes into the depths of the workings of the multifaceted proteins, DNA and RNA with the objective of highlighting why understanding basic mechanisms and techniques together ensure significant research. The programme is formulated for developing competent Biochemists leading towards a PhD programme. The programme obliges students to read original publications and envisages significant inputs in laboratory work, communication skill, creativity, planning, execution and critical evaluation of the studies undertaken. The students can opt for in-house projects or choose to apply to research institutions and industries for their dissertation projects. A paper on Neurobiology has been included in the curriculum, as there is a growing awareness of neurological disorders and issues in the society. Students are guided and encouraged to prepare for several competitive examinations and several of them have cleared examinations such us GATE, NET, GSET.

Programme Content

- Immunology
- Molecular Biology
- Applied Biochemistry
- Neurobiology
- Nutrition and Diseases

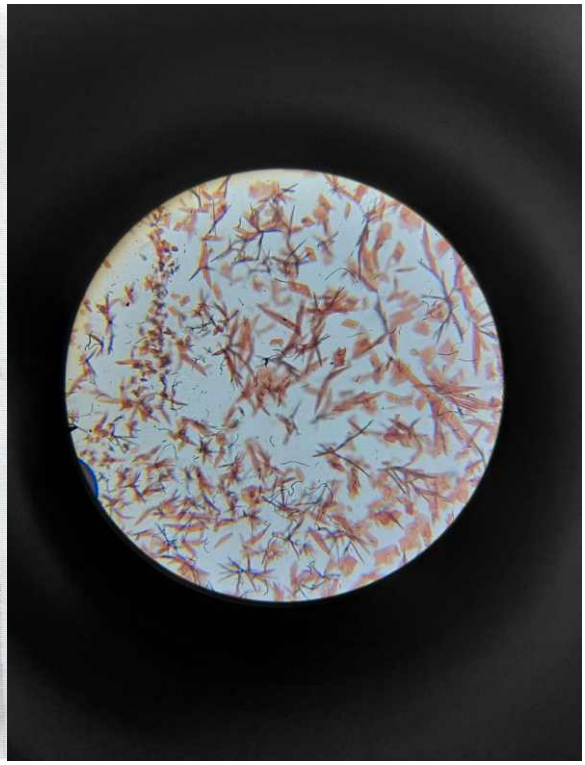
Career Opportunities

MSc Biochemistry graduates pursue diverse careers in pharmaceutical, healthcare, research, and environmental sectors. Roles include biomedical scientist, pharmacologist, clinical biochemist, and biotech product manager.

Find out more about this course: https://sxca.edu.in/academics/departments/science/biochemistry-biotechnology/ biochemistry@sxca.edu.in

Master of Science: Biotechnology

Duration: 2 years
Total seats: 30 (Self Financed)



Biotechnology is a product-oriented science that has its applicability in sectors as varied as Agriculture, Food and nutrition, public health, Therapy and diagnostics, Environment, Textile industry and thus it entails the need to have a strong knowledge base of Metabolism, Molecular biology, Microbiology, Genetic engineering, Bioinformatics, immunology, analytical and technical skills. The curriculum of this MSc. programme has been designed to ensure that the student strengthen their knowledge base and go through experiential learning modules to hone their technical skills. The curriculum has got acquiescence from professionals in academics and industry. Students are guided and encouraged to prepare for several competitive examinations and several of them have cleared examinations such us GATE, NET, GSET.

Programme Content

- Cell and Molecular Biology
- Genetic Engineering
- Microbial Biotechnology
- Applied Biotechnology
- Genetics and Bioinformatics

Career Opportunities

A Masters in Biotechnology offers careers in pharmaceuticals, agriculture, healthcare, and environmental science. Graduates can work as research scientists, bioprocess engineers, or quality control analysts in biotech firms, labs, and agri-tech companies. The degree also prepares for advanced studies like PhD driving innovation in gene therapy, biofuels, and personalized medicine.

Find out more about this course: https://sxca.edu.in/academics/departments/science/biochemistry-biotechnology/
biochemistry@sxca.edu.in

Bachelor of Science: Botany

Duration: 4 years
Total seats: 30 (Grant in Aid)

We aim to inspire and equip aspiring botanists with essential knowledge and skills, empowering them to make impactful contributions to research and entrepreneurship.

Together, we can shape a sustainable environment for future generations.

Subject Overview

The Botany programme offers a comprehensive exploration of life's diversity, spanning from microorganisms to algae, fungi, mosses, ferns, and seed plants, culminating in the study of plant communities and their roles within ecosystems. It immerses students in a liberal arts environment that encourages scientific curiosity and interdisciplinary learning, utilizing a variety of both indoor and outdoor methodologies. Each semester integrates hands-on projects that foster creativity, critical thinking, and analytical skills, while also emphasizing the scientific methods used by biologists to understand the natural world. Students of botany dive into topics such as plant anatomy, physiology, genetics, ecology, taxonomy, and biotechnology. The subject not only covers the theoretical aspects but also involves practical learning through fieldwork, lab experiments, and project-based research. Botany connects science with real-life applications. At the B.Sc. (Bachelor of Science) level, students gain a solid foundation in plant science through core subjects, and at the M.Sc. (Master of Science) level, the program deepens understanding and offers specialization. Students also undertake a research project or dissertation that fosters independent study, scientific writing, and innovation.

Programme Content

- Plant Diversity
- Taxonomy and systematics
- Plant Physiology and Biochemistry
- Anatomy and Embryology
- Gardening, Economic Botany, Medicinal Botany, and Ethnobotany
- Anatomy and Embryology
- Phytogeography and Forestry
- Ecology and Environmental Biology
- Organic Farming and Palynology
- Biostatistics
- Laboratory, Herbarium, and Micro techniques
- Plant genetics, Cell biology, Molecular biology, and Plant Biotechnology

Career Opportunities

A B.Sc. degree in Botany offers careers as a Plant Scientist, Plant Taxonomist, Phytochemist, Ecologist, Restoration Ecologist, Forester, Agronomist, Horticulturist, Pharmaceutical Botanist, Bioinformatics Specialist, Environmentalist, Agricultural officer, Herbarium curator, Botanical Garden Educator, Urban Greening Specialist, Plant Data Analyst. Graduates can work as botanists in research labs and NGOs. The degree also prepares for advanced studies like MSc or PhD, tackling challenges in food security, biodiversity, and sustainable agriculture.

Options for Minor Courses

- Fundamentals of Zoology I
- Fundamentals of Zoology II
- Biochemistry and Biophysics
- Animal Physiology

Find out more about this course:
https://sxca.edu.in/botany/
botany@sxca.edu.in

Master of Science: Botany

Duration: 2 years
Total seats: 30 (Self Financed)

A Master of Science (M.Sc.) program in Botany is a comprehensive postgraduate course designed to immerse students in the intricate study of plant sciences. This program emphasizes a scientific approach that delves deeply into various subfields of Botany, including Taxonomy, Ethnobotany, Gardening, Medical Botany, Remote Sensing, and Mycology. The programme is thoughtfully designed to nurture a research-oriented mindset among students and instill research aptitude from the very beginning.

Students enrolled in this program will have unique opportunities to engage in research projects and fieldwork, benefiting from the Departments strong connections with tribal and local communities. These partnerships facilitate hands-on experiences in ethnobotanical studies, medicinal research, fungal biology, landscaping initiatives, and taxonomic research, enabling students to apply their academic knowledge in real-world contexts. The programme has incorporated topics that align with United Nations Sustainable Development Goals (SDGs), ensuring that students are equipped to tackle real-world environmental and societal challenges. Through this well-rounded curriculum, graduates will be equipped with the expertise to contribute significantly to the advancement of botanical science and its practical applications in society.

The department has over 3000 books and journals, along with a Herbarium, a collection of seeds and wood samples. Students of the Department have excelled in art, sports, as well as in co-curricular and extension activities. Overall, the study of botany at both B.Sc. and M.Sc. levels equips students with the knowledge and skills needed for careers in research, education, agriculture, environmental science, forestry, as an entrepreneur, in pharma and beyond.

Programme Content

- Phycology, Mycology, and Bryology
- Plant Ecology, Remote Sensing, and Environmental Science
- Economic Botany and Ethnobotany
- Herbal Cosmetology
- Cell Biology and Molecular Biology
- Genetics and Plant Breeding
- Field Work, Herbarium and Micro techniques.
- Dissertation / Research Project

Career Opportunities

A Master of Science (M.Sc.) degree in Botany opens up a range of career opportunities in various fields. Graduates can find roles as Research Assistants in esteemed research laboratories such as CSIR, ICAR, and ICMR, in both the government and private sectors. Other potential careers include positions as lecturers or assistant professors, school teachers, agriculture officers, plant pathologists, soil scientists, environmental consultants, and roles within the Forest Department, such as Range Forest Officer (RFO) or Divisional Forest Officer (DFO). Additionally, there are opportunities in the pharmaceutical industry as pharmacognosists or plant biotechnologists, Quality Control Executives, Product Manager, Herbarium Curators, Botanical Garden Superintendent, Scientific officers in organizations such as DRDO, BARC, FRI, or CSIR. Most upcoming fields are as a Scientific Content Writer or Editor, and as an Environmental Journalist.

Find out more about this course:
https://sxca.edu.in/academics/departments/science/botany/
botany@sxca.edu.in

Bachelor of Science: Chemistry

Duration: 4 years
Total seats: 60 (Grant in Aid)

To create and disseminate knowledge in all aspects of the chemical sciences and to strive to enable students to make meaningful contributions to diverse technology in society in order to improve the lives of citizens through research and service.

Subject Overview

A BSc in Chemistry provides a comprehensive understanding of chemical principles, including organic, inorganic, physical, and analytical chemistry. The course covers laboratory techniques, data analysis, and chemical synthesis, preparing students for careers in research, pharmaceuticals, environmental science, and manufacturing. It also lays the foundation for advanced studies in chemistry.

Chemistry is offered as a part of several subject combinations. The thrust is in developing a strong foundation in the basic concepts. The curriculum covers every area of Chemistry, comprising Organic Chemistry, Inorganic Chemistry, Physical and Analytical Chemistry. These basics are supplemented with some current and environmentally relevant topics like Green Chemistry, Soil Chemistry and Everyday Chemistry as electives.

Programme Content

- Organic Chemistry
- Physical Chemistry
- Inorganic Chemistry
- Analytical chemistry
- Nanotechnology

Career Opportunities

A Bachelor's in Chemistry offers several careers in pharmaceuticals, materials science, environmental analysis, and industrial R&D. Graduates can become analytical chemists, quality control specialists, lab technicians, or formulation scientists in drug companies, chemical plants, forensic labs, and research institutions. It also paves the way for advanced studies (MSc, PhD, or MBA in Chemical Management), enabling opportunities in nanotechnology, green chemistry, and polymer science. With practical lab skills, graduates contribute to innovation across industries like cosmetics, renewable energy, and more.

Options for Minor Courses

- Physics
- Biochemistry
- Industrial Chemistry

Find out more about this course: https://sxca.edu.in/chemistry/
chemistry@sxca.edu.in

Bachelor of Science: Chemistry with Industrial Chemistry

Duration: 4 years
Total seats: 30 (Self Financed)

To create and disseminate knowledge in all aspects of the chemical sciences and to strive to enable students to make meaningful contributions to diverse technology in society in order to improve the lives of citizens through research and service.

Subject Overview

Keeping in view our intent of making students self-reliant and industrious, the vocational course has been designed with entrepreneurship as a basic flavor. Students enrolling in this programme have Chemistry as their core subject with additional papers of Industrial Chemistry. This helps them to learn and train in the area of some of the core industrial aspects.

Under the entrepreneurship skill-development program, the vocational IC students run an in-house industrial training unit (ITU) wherein they are trained in purchasing raw materials, manufacturing products such as soap solution, candles and creams; promoting and selling these products in the market. This training contributes immensely in making the students enterprising and self-sustaining. Specialized topics such as medicinal chemistry, bioorganic chemistry and advanced organic synthesis are part of the curriculum. The programme also offers courses on natural products, industrial chemistry, cosmetic chemistry and organic spectroscopy.

Programme Content

- Organic Chemistry
- Physical Chemistry
- Inorganic Chemistry
- Analytical chemistry
- Nanotechnology

Career Opportunities

A Bachelor's in Industrial Chemistry prepares graduates for roles in chemical manufacturing, focusing on process optimization and quality assurance. Careers include process chemists, production supervisors, and safety officers in industries like pharmaceuticals, petrochemicals, and agrochemicals. The program blends theory with practical training in chemical reactions, waste management, and analysis, opening opportunities in paints, polymers, and renewable energy. Further education in chemical engineering or an MBA can enhance leadership prospects.

Options for Minor Courses

- Physics
- Basic Mathematics
- Pharmaceutical Chemistry

Find out more about this course:
https://sxca.edu.in/chemistry/
chemistry@sxca.edu.in

Master of Science: Chemistry (Analytical)

Duration: 2 years
Total seats: 35 (Self Financed)

Chemical analysis is a common feature linking earth sciences, pharmaceutical sciences, environmental sciences, petrochemical industry, forensic sciences etc.

Subject Overview

An analytical chemist can help identify and solve problems in these varied areas of research. Against this backdrop and with the sole aim of moulding students with the requisite skill-set needed to be employable analysts; we offer MSc. Chemistry (Analytical). The course has been designed with special emphasis on developing research aptitude, providing a strong background in instrumental techniques and enhancing employability. The course includes topics such as Qualitative Optical Spectroscopy, Electroanalytical Chemistry, Modern Separation Chemistry, Clinical and Regulatory aspects of Drug Discovery, Bioanalysis, Environmental Analysis and an industrial training program.

Programme Content

- Electroanalytical Methods
- Industrial Analytical Chemistry
- Forensic Sciences
- Industrial applications and titrimetric methods
- Analytical Instrumental technique

Career Opportunities

Analytical chemistry has several career opportunities in pharmaceuticals, environmental science, forensics, food safety, and materials science. Professionals work in R&D, quality control, and regulatory compliance, using advanced techniques like chromatography and spectroscopy. Industries, government labs, and academia seek analytical chemists for drug development, pollution monitoring, and forensic analysis. With growing demand for precision and innovation, this field promises rewarding careers with competitive salaries and global relevance.

Find out more about this course: https://sxca.edu.in/academics/departments/science/chemistry/
chemistry@sxca.edu.in

Master of Science: Chemistry (Organic)

Duration: 2 years
Total seats: 35 (Grant in Aid)

The Masters Programme offers an exciting range of educational opportunities, with strengths in both the fundamental area of the discipline, and in significant new areas and applications.

Subject Overview

Graduate-level coursework, research opportunities, industrial training and field visits are available in physical, organic, inorganic, and analytical chemistry as well as in a substantial number of cross-disciplinary and interdisciplinary areas such as material sciences, surface science, spectroscopy, magnetochemistry, and biological chemistry. Moreover, the department has an excellent array of equipment for research/ project works.

Programme Content

- Advanced Organic Chemistry
- Advanced Organic Synthesis
- Bioorganic Chemistry
- Selected topics in Medicinal Chemistry
- Natural Products and Biomolecules
- Medicinal Chemistry

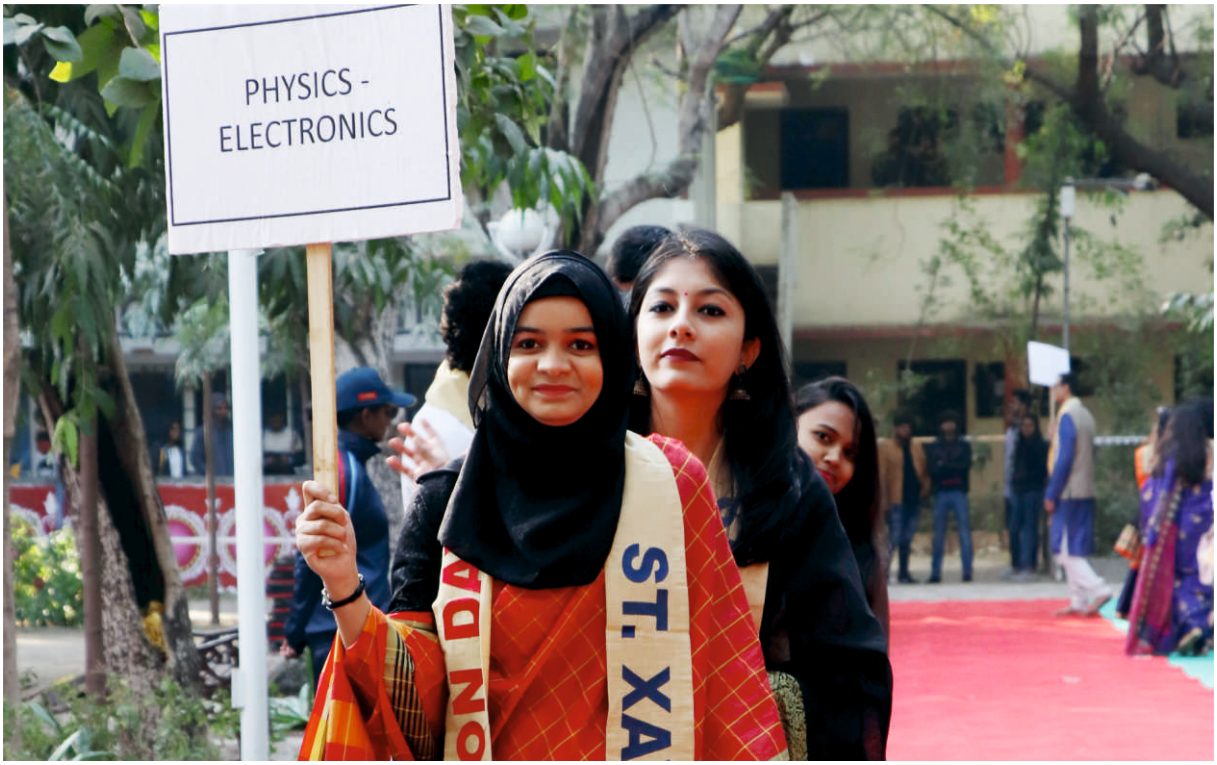
Career Opportunities

Organic chemistry has several options in pharmaceuticals, agrochemicals, petrochemicals, and materials science. Professionals work in drug synthesis, polymer development, and flavor/fragrance industries. Roles include research scientists, process chemists, and quality analysts in industries, academia, and government labs. Strong demand for innovation ensures dynamic career growth and opportunities.

Find out more about this course: https://sxca.edu.in/academics/departments/science/chemistry/
chemistry@sxca.edu.in

Bachelor of Science: Electronics

Duration: 3 years
Total seats: 30 (Grant in Aid)



To nurture young scholars of merit in Electronics with intellectual, emotional and cultural tenets. To inculcating principles of sensitivity and tolerance towards fellow human beings.

Subject Overview

The BSc in Electronics provides a comprehensive understanding of electronic systems, circuit design, and signal processing that power our modern world. Students develop practical skills in component assembly, troubleshooting, and system implementation while mastering theoretical concepts of digital and analog circuitry. This foundation prepares graduates for diverse careers in telecommunications, consumer electronics manufacturing, semiconductor design, and emerging technologies. As industries increasingly rely on electronic innovations, this degree serves as a crucial stepping stone toward advanced specializations in artificial intelligence, robotics, and quantum computing—fields that will define our technological future.

Programme Content

- OPAMP applications and Semiconductor Physics
- Digital Design and Microprocessor
- Electronic Instrumentation and Transducer
- Electronic Communication and Optical fiber
- Introduction to Single Boards Computers with Python/C++

Career Opportunities

A undergraduate degree in Electronics helps students with the skills to thrive in fields such as embedded systems, telecommunications, robotics, and consumer electronics. Career opportunities like electronics engineer, circuit designer, IoT specialist, and automation technician, with applications in high-growth industries including aerospace, automotive, healthcare, and renewable energy. For those pursuing further specialization, the degree offers a strong foundation for advanced research in VLSI design, AI hardware, and embedded systems, positioning graduates at the forefront of innovation in smart devices, industrial automation, and next-generation computing.

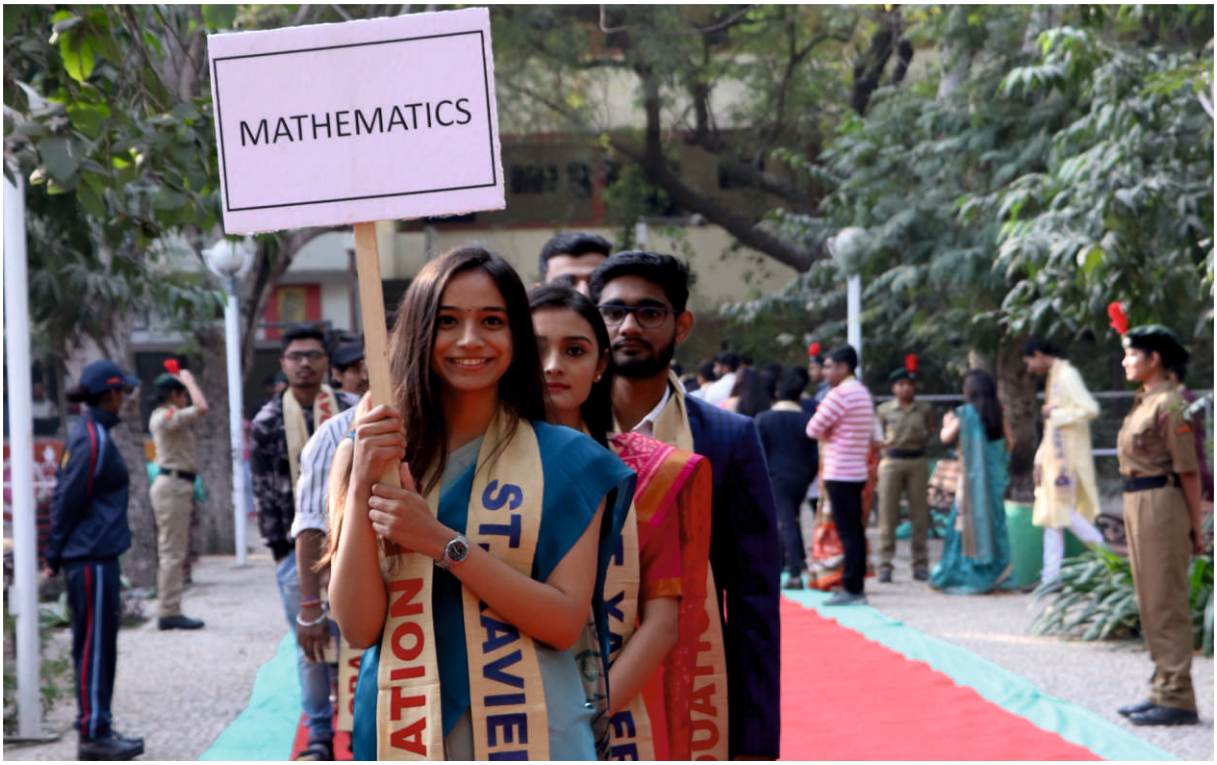
Options for Minor Courses

- Physics
- Mathematics

Find out more about this course:
https://sxca.edu.in/physics/
physics@sxca.edu.in

Bachelor of Science: Mathematics

Duration: 3 years
Total seats: 30 (Grant in Aid)



To achieve excellence in empowering the students through building their mathematical aptitude, and foster research that cultivates mathematicians who can contribute to nation-building

Subject Overview

A Bachelor's degree in Mathematics prepares one for think logically, plan strategically and then apply the appropriate methods to solve the problem based on the knowledge gained. It has a myriad of opportunities in actuarial sciences, mathematical modelling and mathematics education as well as in graduate-school teaching, leading to a research career in mathematics or statistics. A strong background in Mathematics aids research in many areas like computer science, bioinformatics, computational biology and social sciences.

Programme Content

- Problem Solving in Mathematics
- Linear Algebra and Abstract Algebra
- Calculus and Graph Theory
- Mathematical Programming
- Numerical Analysis

Career Opportunities

A Mathematics degree prepares students for a careers in data science, finance, cryptography, and academia. Graduates become actuaries, analysts, and researchers in banks, tech companies, government, and research institutions. This foundation also supports advanced studies in applied mathematics, AI, and physics, developing crucial analytical skills for solving complex problems.

Options for Minor Courses

- Statistics
- Physics

Find out more about this course: https://sxca.edu.in/mathematics/
mathematics@sxca.edu.in

Master of Science: Mathematics

Duration: 2 years
Total seats: 30 (Self Financed)

The Master's Program in Mathematics gives an opportunity to the students to broaden their knowledge in the subject with a focus on applications. The programme is designed to ensure that students are able to do well in competitive exams. The understanding of the different modules will prepare the students to take up teaching profession and for careers in the government sector, corporates, and research institutes. The programme will also enthuse students to pursue their doctoral studies.

Programme Content

- Topology and Number Theory
- Complex Analysis and Advanced Calculus
- Graph Theory and Differential Equations
- Mathematical Methods and Functional Analysis
- Metric Spaces and Real Analysis

Career Opportunities

A career in mathematics has several opportunities, especially in teaching at school, UG, or PG levels, and research in pure/applied mathematics. Strong mathematical skills also open doors in IT, data science, cryptography, and AI, where analytical and problem-solving abilities are highly valued.

Find out more about this course: https://sxca.edu.in/academics/departments/science/mathematics/
mathematics@sxca.edu.in

Master of Science: Microbiology

Duration: 2 years
Total seats: 30 (Self Financed)

To develop critical thinking in students on Microbiological concepts and encourage their application for a better world

MSc. Microbiology course is designed to understand the power of microorganisms by gaining in-depth theoretical and practical knowledge. The curriculum and new approach of learning will empower students to understand microbial diversity and their potential to deliver the solutions for Industries, Agriculture and Environment. Student will plan and start their research project in Sem-III, which continue and completed in Sem-IV. We will encourage students for independent scientific thinking to increase multi-dimension research potential to tackle local and global challenges with ethics and value-driven learning.

Programme Content

- Microbial diversity
- Environmental Microbiology
- Industrial Microbiology
- Food and Agriculture Microbiology
- rDNA Technology
- Regulatory Affairs
- Applied Microbial Technology
- Bioprocess Technology
- Medical and Pharmaceutical Technology

Career Opportunities

Healthcare, pharmaceuticals, biotechnology, food industries, and research are the most sought after career for a microbiologist. They work as clinical researchers, lab managers, quality control analysts, or public health specialists. With growing demand in infectious disease control, vaccine development, and genetic engineering, this degree ensures strong career growth and innovation-driven roles.

Find out more about this course: https://sxca.edu.in/microbiology/
microbiology@sxca.edu.in

Bachelor of Science: Physics

Duration: 4 years
Total seats: 30 (Grant in Aid)

To nurture young scholars of merit in Physics with intellectual, emotional and cultural tenets. To inculcating principles of sensitivity and tolerance towards fellow human beings.

Subject Overview

The BSc in Physics offers a transformative journey through the fundamental laws governing our universe, from quantum phenomena to cosmic structures. Students develop analytical abilities through mathematical modelling and experimental investigation, learning to approach complex problems with methodical precision. The curriculum balances theoretical frameworks with hands-on laboratory experiences, cultivating observational techniques and data analysis skills. This program nurtures independent thinking and scientific inquiry, preparing graduates for diverse career paths in research institutions, technology development, energy sectors, and educational settings.

Programme Content

- Modern Physics
- Classical Physics
- Mathematical Physics
- Quantum Mechanics
- Solid-State Physics
- Electrodynamics
- Electronics
- Statistical Science

Career Opportunities

A Physics degree launches careers in research, technology, engineering, and data science. Graduates work as quantitative analysts, optical engineers, and research associates across aerospace, renewable energy, healthcare, and finance sectors. This analytical foundation supports advanced studies in astrophysics, quantum computing, and applied physics, empowering innovations in nanotechnology, artificial intelligence, and space exploration.

Options for Minor Courses

- Mathematics
- Chemistry
- Electronics

Find out more about this course:
https://sxca.edu.in/physics/
physics@sxca.edu.in

Master of Science: Physics

Duration: 2 years
Total seats: 30 (Self Financed)

The Master's Programme in Physics is initiated with the mission to champion fundamental and applied science, help students explore and connect physics with the world around them, and enable them to stay connected with science through research, academia or industry. The department has partnerships with renowned centres of research excellence for students to work with scientists of repute and gain hands-on experience of the most advanced experimental techniques and the most sophisticated theoretical and experimental methods. The curriculum encompasses Quantum Mechanics, Atmospheric physics, Condensed Matter, Nano Science and Technology, Material Sciences, Nuclear Physics, Electronics and Theoretical Physics and much more. The research work in the final semester will provide an opportunity to select students to work at Institute of Plasma Research, Physical Research Laboratory, Space Application Centre etc. This course enables students to explore exciting careers in national and international research laboratories related to the diverse branches of Physics, academic institutions, space organization, meteorology departments, medical industry. electronics industry, Public services, Armed forces and much more.

Programme Content

- Modern Physics
- Classical Physics
- Mathematical Physics
- Quantum Mechanics
- Solid-State Physics
- Electrodynamics
- Electronics
- Statistical Science

Career Opportunities

A post graduate in physics gets opportunities in research, academia, aerospace, renewable energy, and healthcare. Roles include scientists, engineers, data analysts, and educators. Strong problem-solving skills open doors in IT, finance, and R&D, ensuring diverse and dynamic career prospects.

Find out more about this course: https://sxca.edu.in/academics/departments/science/physics-and-electronics/physics@sxca.edu.in

Bachelor of Science: Statistics

Duration: 3 years
Total seats: 30 (Grant in Aid)

To attain academic excellence in imparting the skills of Statistics, and to expand the knowledge of students through innovative teaching, learning and extension activities.

Subject Overview

The Department offers courses in Statistics at the undergraduate level to both Arts and Science students. The three years undergraduate degree will impart the knowledge of Statistics along with a broad grounding in other allied subjects. Statistics is the science of collecting, analyzing, interpreting, and presenting data. As a core component of decision-making in a data-driven world, it plays a crucial role across diverse fields such as economics, business, healthcare, government, and social sciences. The B.Sc. program in Statistics offers students a strong foundation in statistical theory and methods, coupled with practical skills in data analysis and interpretation. The curriculum blends classical techniques with modern computational tools, enabling students to work with real-world data using statistical software. Students will develop analytical thinking, problem-solving abilities, and data literacy, preparing them for a wide range of careers or further studies in data science, analytics, actuarial science, and research. Through a mix of lectures, practical sessions, and project-based learning, this program equips graduates with the skills to turn data into meaningful insights—making them valuable contributors in an increasingly information-rich world.

Programme Content

- Advance Probability Theory
- Basic Statistics for Data Science
- Statistical Inference
- Design of Experiments
- Sampling Techniques and Industrial Quality Control
- Data Analysis using various software (Excel, R-Programming, JAMOVI & Python)

Career Opportunities

A degree in statistics offers jobs in data science, finance, public policy, and research. There are opportunities as data analysts, biostatisticians, risk modelers, and market researchers in healthcare, technology, and economics. It has openings in studies in machine learning, epidemiology, and actuarial science.

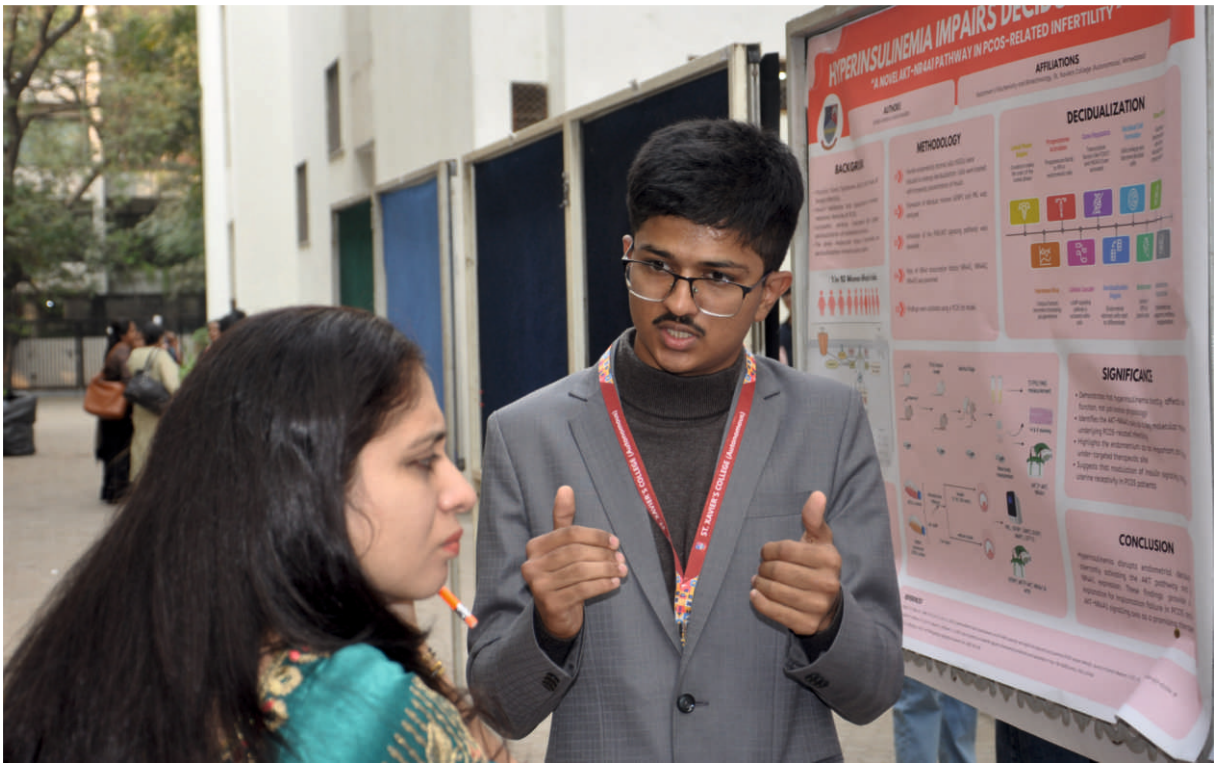
Minor Courses

- Mathematics

Find out more about this course:
https://sxca.edu.in/statistics/
statistics@sxca.edu.in

Bachelor of Science: Zoology

Duration: 3 years
Total seats: 30 (Grant in Aid)



To attain academic excellence through making students to think critically about economic To generate versatile eco sensitive and socially conscious Zoology students that would benefit the animal kingdom, as well as all other allied subjects.

Subject Overview

The undergraduate programme in Zoology is designed with a strong research orientation and focuses on animal physiology , anatomy, and ecology. It provides a comprehensive understanding of the animal world, both at the organismal and molecular levels. The syllabus includes the study of animal diversity (non-chordates and chordates), ecology, animal physiology, biochemistry, cytology, genetics, organic evolution, and biophysics. It also covers applied zoology subjects like apiculture, sericulture, fisheries, poultry science, applied entomology, wildlife of India, human parasitology, histology, developmental biology, animal behaviour and chick embryology.

Programme Content

- Toxicology
- Animal behavior
- Genotoxicity
- Ecology
- Wildlife

Career Opportunities

A BSc in Zoology opens careers in wildlife conservation, research, and biotechnology, with roles like wildlife biologist, zoo curator, or conservation officer in NGOs, parks, andlabs. It also prepares graduates for advanced studies in ethology, marine biology, or veterinary science, empowering them to tackle biodiversity loss, ecosystem crises, and wildlife health challenges. After graduating in zoology, students can explore careers in healthcare, environmental science, teaching, and government services too.They may work as zoologists, wildlife officers, research assistants, clinical research professionals, or environmental consultants. Academic careers require postgraduate studies and qualifying exams, while government jobs include forest services and civil services roles. Some graduates also choose self-employment in fields like aquaculture or beekeeping, or specialize further in biotechnology, bioinformatics, or management. Overall, higher education or skill-based training improves job opportunities and career growth.

Options for Minor Courses

- Botany

Find out more about this course:
https://sxca.edu.in/zoology/
zoology@sxca.edu.in

“Growing stronger and stronger as the journey lasts longer!”

Why Xavier's?

- We instill life lessons: gender sensitivity, compassion, competence, equality, equity and acceptance of heterogeneity.
- Fostering and nurturing students to be globally competent.
- A dynamic and growing research culture in the campus.
- Empowering students for the universal good! – Jesuit Magis!
- A great student demography with inclusivity and equity.
- A legacy of academic excellence established by highly qualified facilitators (91% of the faculty with PhD or NET/GSET).
- A+ Re-accreditation by NAAC in the 4th Cycle.
- Ranked among top 50 colleges in India by India Today, The Week and Outlook magazines.
- An invigorating environment for holistic development.
- Bridging traditional and modern digital tools for teaching – learning.
- A serene, green and environment friendly campus.
- NEP 2020 implemented based on five pillars: Access, Equity, Quality, Affordability & Accountability

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