

## **Bachelor of Arts – Economics**

**Program Duration:** 3 years

**Eligibility Criteria:** A candidate must have passed the Higher Secondary School Certificate (Std. XII) Examination conducted by the Maharashtra Board / Other Indian State Boards or equivalent examination.

### **Program Highlights:**

- Offers a wide range of popular courses – QUANTITATIVE METHODS FOR ECONOMICS, ECONOMETRICS, DATA SCIENCE WITH PYTHON, BEHAVIOURAL ECONOMICS, INTERNATIONAL FINANCE & TIME SERIES FORECASTING
- Theory & hands-on practical sessions on Software tools like Excel, R & PYTHON designed to inculcate skills required for undertaking research
- Bridge courses on **quantitative methods** at S.Y.B.A. - Entry point; M.A. Part I - Entry point & M.A. Part II - preparatory for Research Project
- Benchmarked syllabus against leading universities - Delhi University, California University
- Opportunity to undertake a research project under the guidance of an experienced research supervisor.
- Capacity building for internships with RBI, Teach for India, Public policy research organisations etc. and skill building with Mithibai Economic Forum & The Economic Transcript and various other extra-curricular activities.
- MOU signed with Maharashtra Economic Development Council (MEDC) with opportunities for internship, field work & research, networking with industry experts and professionals as well as participation in academic meets, national seminars and conferences.

**Student intake:** 120 (F.Y.B.A), 120 (S.Y.B.A), 60 (T.Y.B.A)

### **Placements:**

Students have been placed in companies like Morgan Stanley, KPMG, EY, Deloitte (USI - CS), Barclays, PWC, ZS Associates (New Company), ICICI Bank, Futures First, J.P. Morgan Chase, Deutsche Bank, Phillip Capital (New Company), Aditya Birla Capital (New Company), BNP Paribas (New Company), TCS (Atlas). Annual packages offered ranging between Rs. 3 lakhs to Rs. 12.88 lakhs.



## **BACHELOR OF ARTS in ENGLISH (HONOURS)**

**Program Duration: 4 years**

**Eligibility Criteria:** A candidate must have passed the Higher Secondary School Certificate (Std. XII) examination conducted by the Maharashtra / other Indian State Boards or equivalent examination.

### **Program Highlights:**

1. The course enables the learner to encourage critical thinking and the ability to analyse literary eras and texts.
2. The learner gets acquainted with effective communication skills which leads to the holistic development of the learner.
3. Activities like seminars, workshops, and field trips are conducted to expose students to experiential learning.
4. Career options open after course completion include, journalism, advertising, translation, script-writing, proof-reading, teaching, research.

**Student in-take: 120**

**Miscellaneous: (meritorious alumni, good quality non geotagged photos, placement data etc)**

### **Meritorious alumni:**



Name: Utkarsh Dev  
Senior Manager, Product  
Development (Content)  
Motilal Oswal Financial Services



Name: Radhika Rajwani  
Assistant Professor  
Mithibai College (Autonomous)

## Departmental Activities:



**Industrial field visit to S.J. Studio**



**A literary Festival**



**Drama Production, "Happily Ever After" by MA English Part-I students**



# B.A.M.M.C

## MULTIMEDIA AND MASS COMMUNICATION

### ABOUT

BAMMC (B.A. in Multimedia and Mass Communication) is a media based course, and at present is a sought after media program within the undergraduate student community. It incorporates the study of diverse fields of media such as print, radio, television, digital etc. In the span of 4 years, students are exposed to multiple subjects ranging from Digital Media, Advertising, Public Relation, Media Planning and Buying, Journalism etc.

### COURSE HIGHLIGHTS

- ▶ Industry Oriented Curriculum
- ▶ Live Projects
- ▶ In-house Studio
- ▶ Workshops & Seminar
- ▶ Internships
- ▶ Hands on Training

### SUBJECTS OFFERED

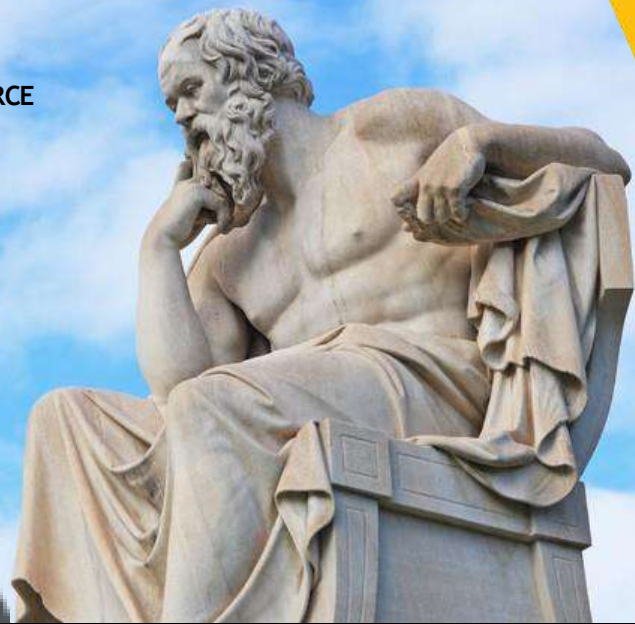
Advertising | Journalism | Mass Communication | Electronic Media | Film Appreciation  
Digital Media | Media Planning & Buying | Theatre | Ad Design | Graphics | Brand Building | Reporting & Editing | Public Relations | Event Management | Photography | Culture Studies | Direct Marketing | Consumer Behaviour and many more!

### CAREERS

- Ad Agency
- Client Servicing
- Ad Copywriting
- Art Director
- Media Planner
- Media Buyer
- Journalist
- Editors for Print
- News Anchors
- Public Relations
- Content Writer
- Social Media Exec.
- SEO and SMM
- Graphic Designer
- Film Productions
- Film Making
- Ad Films
- Radio Jockey
- Photographer
- Event Planner
- Publishing Agency
- Storyboard Artist
- Corporate Comm.
- Audio Video Editing



SVKM's  
MITHIBAI COLLEGE OF ARTS  
CHAUHAN INSTITUTE OF SCIENCE &  
AMRUTBEN JIVANLAL COLLEGE OF COMMERCE  
AND ECONOMICS (AUTONOMOUS)



# B.A. Philosophy

## ABOUT

The Department of Philosophy is one of the oldest departments of Mithibai College. Philosophy deals with questions about reality, knowledge, and actions. Our courses are curated to offer the best possible learning on these issues. Going beyond the binary of Indian and Western Philosophy, we equip students to be able to do philosophy surpassing these boundaries.

## COURSE HIGHLIGHTS

- ▶ Critical Thinking
- ▶ Applied Philosophy
- ▶ Ethical Analysis
- ▶ Discussion and Debate
- ▶ Globally competence

## SUBJECTS OFFERED

Introduction to Philosophy | Moral Philosophy | Social and Political Philosophy | Greek and Medieval Philosophy | Indian and Western Philosophy | Philosophy of Religion | Living Ethical Issues | Philosophy of Bhagavad Gita | Philosophy of Yoga | Filmosophy | Applied Ethics | Tools of Philosophy | Problems of Philosophy | Gandhian Thought

## CAREERS

- ♦ Management (MBA)
- ♦ Journalist
- ♦ Life Coaching
- ♦ Research
- ♦ Writer
- ♦ Public Relations
- ♦ Yoga Trainer
- ♦ Motivational Speaker
- ♦ Counsellor
- ♦ Lawyer
- ♦ Human Resources
- ♦ Film Making
- ♦ Programme Developer
- ♦ Computational Linguistics
- ♦ Teaching
- ♦ UPSC and MPSC
- ♦ Publishing Agency
- ♦ Art Critic
- ♦ Digital Entrepreneur



# DEPARTMENT OF PSYCHOLOGY



## ABOUT

The Department of Psychology offers several programs like B.A. in Psychology, B.Sc. In Psychology, and M.A. in Industrial/Organizational Psychology. The Department strives for enabling students achieve academic excellence, scientific rigorosity, empathetic listening skills, and enhanced meta cognitive skills.

## COURSE HIGHLIGHTS

Courses offered by the Psychology department offer versatile knowledge in psychological theory and practice, provide hands-on experience in research and inculcate critical thinking and analytical skills. Across the various courses, our learners engage in seminars, and research competitions. The enriched, experiential learning empowers our learners for higher degrees and professional practice.

## SUBJECTS OFFERED

Fundamental Principles in Psychology	Social Psychology
Human Development	Cognitive Psychology
Abnormal Psychology	Counselling Psychology

## CAREERS

Cognitive Neuroscientist	Mental Health Practice
Clinical Researcher	Academics
Human Resources	Research

## LEADING RECRUITERS

Salto De Fee	Michael Page	Tata Consultancy Solutions
Accenture	InspireOne	Third Sector Partners
Fourth Quadrant	Great Manager Institute	Hunt Partners



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AMRUTBEN JIVANLAL COLLEGE OF  
COMMERCE AND ECONOMICS

# B.A. SOCIOLOGY

## ABOUT

One of the oldest department in college with large number of students and 100% faculty are its alumni. The department inculcates values of community services, gender sensitization and environmental concerns. The updated Curriculum is based on enhancing skill development and employability. With a pedagogy emphasizing on experiential learnings through regular internships, study tours and field visits, assures a holistic development of the student

## COURSE HIGHLIGHTS

- ▶ experiential learning
- ▶ Internships with NGOs
- ▶ Innovative courses
- ▶ Celebrating diversity
- ▶ Field visits

## SUBJECTS OFFERED

Sociology of performing Arts and folk dance | Human resource development | Gender Studies | Environmental Issues | Social Research | Social thinker and Anthropological studies | Social volunteerism and community health | Media, culture and society

## CAREERS

- Journalist
- Marketing Executive
- PR Manager
- HR Manager
- Higher Education Lecturer
- Media Planner
- LAW
- Family and child counselling
- Marriage counselling
- Social activism and work
- Social Researcher
- Community development worker



# B.Com. (A&F)

## Bachelor of Commerce (Accounting And Finance) – BAF



### ABOUT

The program aims to build a strong foundation in the field of accounting and finance by covering and strengthening both theoretical and practical aspects. Learners undertake various activities such as presentations, case study analysis and field visits to enhance their learning experience. The program's objective is to create graduates who can provide innovative solutions to business problems, apply research skills to overcome challenges and communicate effectively in the challenging business environment.

### PROGRAMME HIGHLIGHTS

- Experienced Faculty with Doctoral and Professional Qualifications
- Grooming for Entrepreneurship
- Internships
- Field Visit & Guest Sessions by Industry Experts
- Training & Placements
- Mentoring for Higher Education

### KEY SUBJECTS OFFERED

Financial Accounting | Cost Accounting | Auditing | Management Accounting | Equity Market | Debt Market | Financial Management | Taxation | Law | Management | Security Analysis & Portfolio Management | Commodity & Derivatives Market | Internships

### FUTURE PROSPECTS

#### Higher Education

- M.Com. | MBA
- CA | CS | CMA
- CPA | CFA | CFP
- L.L.B. | ACCA
- M.Sc. Finance

#### Career Pathways

- Accounting
- Tax Practitioner
- Auditing
- Financial Analyst

- Stock broking
- Consultancy and Management
- Entrepreneurship & Start Ups

### LEADING RECRUITERS

- Morgan Stanley
- KPMG
- JP Morgan Chase
- ICICI Bank
- Ernst N Young
- Deloitte
- Tres Vista
- Future First







Shri Vile Parle Kelavani Mandal's

# MITHIBAI COLLEGE OF ARTS , CHAUHAN INSTITUTE OF SCIENCE & AMRUTBEN JIVANLAL COLLEGE OF COMMERCE AND ECONOMICS

(AUTONOMOUS – Affiliated to university of Mumbai)

NAAC Reaccredited 'A' Grade, CGPA:3.57 (February 2016 to December 2023)

Best College (2016-17), University of Mumbai



## B.Com. (M & F)

### Bachelor of Commerce (Management and Finance)

#### ABOUT

B. Com. (Management and Finance) programme aims at preparing learners for careers in Accounting, Finance and Management. The primary focus of this programme is to transform learners into top-notch professionals in the financial services industry. It provides a competitive learning environment that challenges the learners' mind. It also emphasises on inculcating values and transforming them into socially responsible professionals.

#### PROGRAMME HIGHLIGHTS

- Industry Updated Syllabus
- Diversity – Students from all across India joins the program
- Compulsory Internship
- Rock Solid Foundation for Higher Studies
- Certificate Courses
- Assistance in Internship and Placements
- Bridge Courses for Non-commerce Students

#### KEY SUBJECTS OFFERED

Accounting | Auditing | Cost and Management Accounting | Taxation | Financial Management | Economics | Business Laws | Corporate Laws | Business Communication | Investment Analysis | Financial Modelling | Entrepreneurship Management.

#### FUTURE PROSPECTS

##### Higher Education

- MBA
- LLB
- ACCA
- CA/CS/CMA
- CPA/CFA

##### Career Pathways

- Accounting
- Auditing
- Wealth Management
- Financial Services
- Insurance Services

- Banking
- Financial and Business Analyst
- Government Services
- KPOs
- Business Management Services

#### LEADING RECRUITERS

- Tres Vista Financial Services
- Morgan Stanley
- KPMG
- JP Morgan Chase
- ICICI Bank
- Ernst N Young
- Deloitte
- Barclays

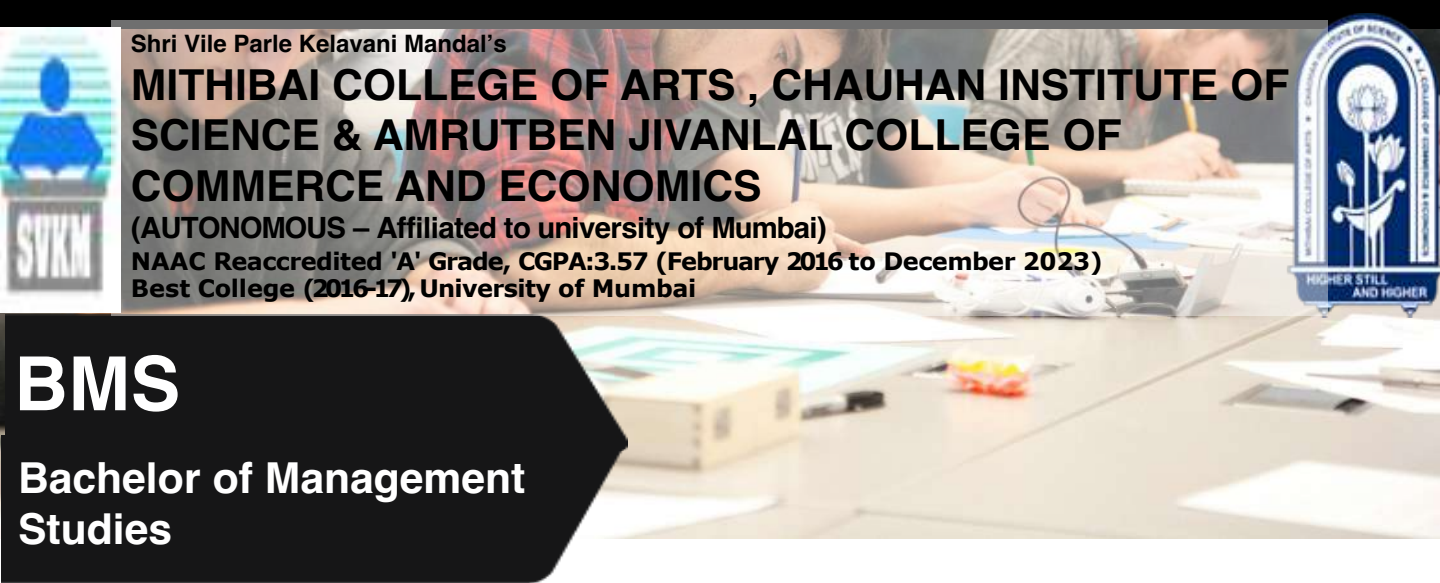


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## BMS

### Bachelor of Management Studies

### ABOUT

The **Bachelor of Management Studies (B.M.S.) Programme** has been designed to cater to the growing needs of the industry for creating Entrepreneurs, Businessmen, and professionally qualified Managers. The course structure is designed in collaboration with academicians and professionals who have deliberated on these challenges and have created a balanced curriculum. With BMS coming under AICTE from 2024, it has become one of the most prestigious undergraduate programmes with the most potential for overall development of the learner.

### PROGRAMME HIGHLIGHTS

- Establish well-rounded academic foundation
- Core faculty members with ample industry and academic work experiences.
- Encourages innovation in teaching learning process
- Students are supported in their endeavours by the faculty members
- Innovative projects, Field projects & Assignments
- Guest lectures by eminent industry professionals and experienced alumni members

### KEY SUBJECTS OFFERED

HRM | Production & TQM | Strategic Management | Taxation | Consumer Behaviour| Business Analytics | Business Laws | Consumer Behaviour | Managerial Accounting | E-Commerce and Digital Marketing | IMC | Entrepreneurship Management | Services Marketing | IT in Business

### FUTURE PROSPECTS

#### Higher Education

- MBA
- LLB
- ACCA
- CA/CS/CMA
- CPA/CFA

#### Career Pathways

- Business Consulting
- Service Sector Management
- Wealth Management
- Financial Services

- Marketing and Advertising
- Business Analytics
- Supply Chain Management
- HR
- Brand Management

### LEADING RECRUITERS

- Zomato
- Morgan Stanley
- KPMG
- JP Morgan Chase
- ICICI Bank
- Ernst N Young
- Deloitte
- Barclays



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COLLEGE OF COMMERCE  
AND ECONOMICS  
(AUTONOMOUS)**



**Department of Statistics  
Bachelor of Science  
Applied Statistics & Data  
Analytics**

Mithibai College (Autonomous) is envisaged as a destination for the most talented and promising students since its inception in 1961. The college inculcates values that prepare a student for academic excellence through the paths of critical thinking, a professional work ethic, and the determination to be accountable. In 2021, India Today has ranked Mithibai College 1st amongst all Arts and Science colleges in Mumbai and 2nd in Commerce. According to EduWorld, Mithibai College is 7th amongst all Autonomous Colleges in the country & 2nd in the state of Maharashtra. The focus of the college is on excellence and education with a human touch which has attracted the attention of many. The college provide ample opportunity for career advancement and extracurricular achievements.



**COURSES TAUGHT**

Descriptive Statistics, Probability, Distribution Theory, Statistical Inference, Industrial Statistics, Operations Research Real Analysis, Discrete Mathematics, Linear Algebra, Numerical Methods, Sampling Techniques, ANOVA, Regression Analysis, Stochastic Processes, Reliability & Survival Analysis, Data Mining, Business Analytics, Stock Markets, Futures & Options. R Programming, Python, Excel.

The Department of Statistics has grown by leaps and bounds since its inception. Presently, there are 11 full-time faculty members in the department. Under autonomy, the Department of Statistics has taken the initiative of introducing new courses at the undergraduate level keeping in view the contemporary trends in related fields and needs of the students.

Faculty members strive to clear concepts, impart great knowledge and to validate the theoretical concepts developed in the classrooms the students are asked to perform a requisite number of practical's in different fields of Statistics. Apart from this, the department ensures that students possess negotiation, organizational, management and teaching skills. This not only makes the students more employable but also gives them an upper edge over Statistics students from other colleges.

The three year program is designed to explore the practical applications of Statistics & Data Analytics techniques through real world examples. The learners are made aware of the increasing role of Statistics in diverse areas and its indispensability in marketing and finance, to also focusing on rigorous methods, tools and techniques to sift through a maze of data. The learners acquire hands on experience using cutting edge tools and techniques to solve complex problems and extract meaningful information from the data. Our system encourages critical thinking and an innovative spirit.

**CONTACT US**

**Course Coordinator**

**Mr .Priyesh Tiwari**

**Assistant Professor**

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**Bhaktivedanta Marg**

**Vile Parle (West)**

**Mumbai 400056**



NAAC Reaccredited 'A' Grade, CGPA: 3.57 (Feb 2016)  
Granted under RUSA, FIST-DST & Star College Scheme of DBT, Govt. of India



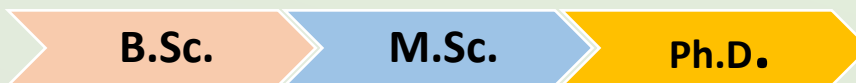
## DEPARTMENT OF BIOTECHNOLOGY

### B.Sc. BIOTECHNOLOGY

#### ABOUT THE DEPARTMENT

Biotechnology Department was established in 2002, the Post graduate course was started in 2007. It is a recognized center for Ph.D. The Department offers a transitive educational experience that emphasizes curiosity, creativity and collaboration, helping students to reach their professional goals.

#### COURSES OFFERED:



#### SALIENT FEATURES:

- Qualified, skilled and experienced Faculty members winning awards in their thrust areas with multidisciplinary domain knowledge and research experience.
- Minor and major research projects worth and more than 85 publications by faculty in reputed journals
- State of the Art Laboratory facilities for research, Hands on workshops for students
- 2 Credit Add On Course on 'Specialized aspects of Biotechnology –Tools and application of Bioinformatics'
- Research projects and participation in conferences and seminars, industrial visits, guest lectures, Outreach activity, assistance for internships.

#### THRUST AREAS OF THE DEPARTMENT

Molecular Biology, Microbial Biotechnology, Plant Biotechnology, Animal Biotechnology Industrial biotechnology, Nanotechnology, Bioorganic Chemistry, Recombinant DNA Technology, Environmental biotechnology & Sustainable Development, IPR.

#### CURRICULUM

- Globally Competent, interdisciplinary & industry oriented
- Syllabi revised after every three years keeping the recent developments in the subject
- Core subject and minor subject with relevant practicals.
- Vocational, skill enhancement and elective papers.

#### STUDENTS PROGRESSION

- M.Sc. In Biotechnology, Food Science, Genetic Engineering or MBA, Higher studies in national and overseas universities in various countries, Employment Pharma, Food, Healthcare, research, academics, Progression towards Ph.D. studies in recognized research institutes.
- Alumni recipients of Awards & Patents, placed in reputed industries and institutes.

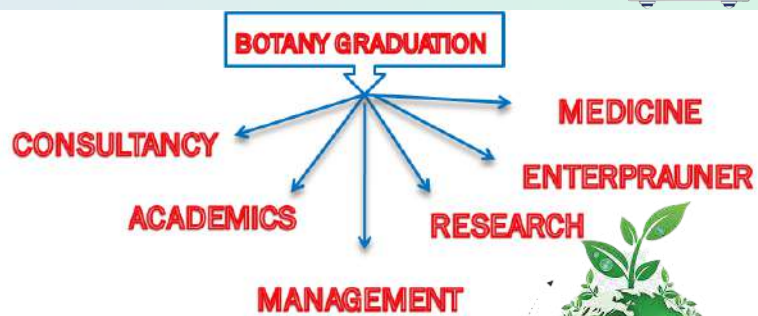


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Best College (2016-17), University of Mumbai



## B.Sc. BOTANY



Mithibai College has well equipped centrally airconditioned classrooms & laboratories, central and departmental library facility for the students. The Department of Botany is one of the oldest departments , It was established as an independent department in 1961. From then the department has flourished and offers B.Sc. Botany, M.Sc. Botany and Ph.D. in Botany to the students.

## Key Features of the Program

The course is intended to create skill-oriented graduates. Experienced and Qualified Teaching Faculty with well Equipped PG & Research Laboratory, regular visits to Research Institutes and Field visits for updating student's knowledge are some of the departmental forte. Botany has made propels in significant areas like invention of herbal formulation in cosmetics and pharmaceuticals, Plant Tissue Culture, Cytogenetics, Palynology, Environmental Botany etc. The course affirms erudition of all these and also sensitizes students in solving many environmental problems at the global level. They are also encouraged to go for internships which is efficacious in making them entrepreneurs and researchers.

## Modules Offered

The Department of Botany at Mithibai College offers a diverse range of subjects aimed at providing students with comprehensive skills and knowledge in technology. These subjects include:

- Plant Taxonomy
- Plant Biotechnology & r-DNA Technology
- Developmental Botany
- Pharmacognosy & Phytochemistry
- Plant Anatomy
- Cryptogams
- Molecular Biology
- Palynology
- Plant Physiology
- Horticulture & Gardening

## Careers

The Department of Botany at Mithibai College offers a pathway to a diverse array of rewarding careers in the dynamic field of technology. Graduates have the opportunity to pursue roles as:

- Pharmaceuticals
- Plant Tissue Culture
- Forensic Officer
- Cosmetics & perfumery
- Forest Officer
- Landscape Designer
- Environment monitoring
- Plant Nursery Manager
- Hydroponic Technology

## Placements

- Students have been placed at companies like Forest Department-Himachal Pradesh, Terracon Ecotech, Narayan Co, SIMAS, Cactus Communication, Flavours and Fragrance and so on.
- Alumni have been working on projects conducted at institutes like BSI, ICMR, NBRI etc.



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Mithibai College of Arts, Chauhan Institute of Science &  
Amrutben Jivanlal College of Commerce and Economics  
Vile Parle (West), Mumbai 400 056.  
(AUTONOMOUS)



# Department of Chemistry

ADMISSIONS OPEN

## B. Sc. Chemistry

Eligibility- HSC (with Chemistry)

Duration- 3 years (B. Sc. Degree)

4 years (B. Sc. Hons or  
B. Sc. with research)

Open Elective Courses can be  
selected in any other subject

### Courses/ Papers offered

- Food Adulteration Chemistry
- Chemistry in Daily Life
- IT Skills for chemist
- Chemistry of Paints and Adhesives
- Chemistry of soaps and detergents
- Polymer Chemistry
- Analytical Techniques
- Physical Chemistry
- Inorganic Chemistry
- Organic Chemistry
- Chemical Calculations

### About the Department

- The Department of Chemistry has been one of the largest departments of Mithibai College since its inception.
- Highly qualified teaching staff.
- Fully equipped, updated laboratories.
- Separate research laboratory for Ph.D. students, facilitated with instruments like High-performance liquid chromatography (HPLC), UV-visible spectrophotometer, Flame photometer, etc.
- For more details scan QR code.

### Career in Chemistry

It opens the door to-

- Research in chemical science,
- Jobs in chemical or pharmaceutical companies for R & D, ADL, QA QC, RA, IPR, ETP etc. and in government organizations like BARC- Bhabha Atomic Research Centre, DRDO- Defence Research and Development, ONGC- Oils and Natural Gas Corporation .
- Research or master programs outside india.
- School Teaching thr' B. Ed.



Department Brochure



Visit College Website

SVKM's Mithibai College  
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Vile Parle (W), Mumbai 400 056.

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www.mithibai.ac.in



Best College (2016-17), University of Mumbai

## ABOUT US

At Mithibai's Computer Science department, we transform students into industry-ready professionals, equipping them with the skills to excel in the computer science domain. Our comprehensive curriculum ensures clarity of concepts, starting from basic program creation to hands-on experience with various software. Students learn to adapt to different technologies, including building mobile applications with Android Studio, developing full-stack websites using the .NET framework and web-based libraries, and mastering operating systems like Linux. They analyze case studies, research papers, and stay updated on current trends, such as Artificial Intelligence, Networking, Ethical Hacking, Cyber Forensics, Deep Learning, Data Science, and IoT.

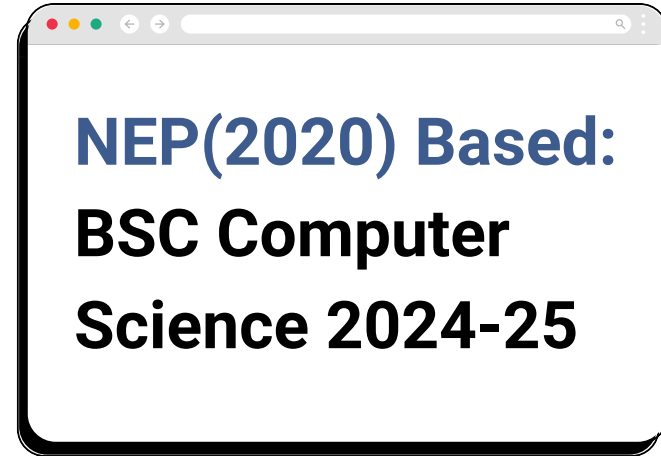


## JOB PROSPECTS

- Data Scientist
- Financial Analyst
- AI Research Scientist
- Drug Discovery
- Web Analyst
- Software Developer
- Testing

## PLACEMENT OPPORTUNITY

- Deloitte
- EY
- PWC
- Infosys
- Wipro



## TOPICS COVERED

- Python
- Java
- C# / C++
- Android
- Data Science
- Machine Learning
- Artificial Intelligence
- Cloud Computing
- Natural Language Processing

## HIGHLIGHTS

- Fully functional lab with latest computer, equipped with AC, WiFi, and Smartboards.
- Highly qualified and experienced teachers.
- Outstanding placement record, with over 90% of registered students placed, and an average starting package of 3.5 lakhs.
- NEP-based BSc Computer Science program, aligning with the goals of the National Education Policy 2020
- Practical-focused teaching and learning approach, ensuring students are well-prepared for industry challenges.





## B.Sc. Mathemtaics

The Department of Mathematics offers B.Sc. programs in Mathematics. The department currently serves over 200 undergraduate students, providing them with the skills and developing logical reasoning abilities, and a deep understanding of abstract concepts, preparing them for careers.

### Course Highlights

The Mathematics Department at Mithibai College prioritizes technical proficiency through efficient teaching methods aligned with industrial needs. Emphasizing problem-solving and analytical skills, it builds a strong foundation in both basic and advanced principles of Mathematics. Regular seminars, guest lectures, and competitions departmental fest enhance students' competitive skills.

### Subjects Offered

The Department of Mathematics at Mithibai College offers a diverse range of subjects aimed at providing students with comprehensive skills and knowledge in Mathematics. These subjects include:

- Linear Algebra
- Real Analysis
- Probability
- Python Programming
- Discrete Mathematics
- Numerical analysis
- Differential Equations
- Complex Analysis
- Multivariate Calculus
- Abstract Algebra

### Careers

The Department of Mathematics at Mithibai College offers a pathway to a diverse array of rewarding careers . Graduates have the opportunity to pursue roles as:

- Financial Analyst
- Insurance Risk Manager
- Banking
- Computer Programmer
- Data science
- Math Professor

### Leading Recruiters

- Deloitte India
- Tata Consultancy Solutions
- Infosys Technologies
- JP Morgan





## MICROBIOLOGY

### Programs Offered

The Department of Microbiology was founded in 1979 and has since grown to be one of the few departments that have been affiliated to the University of Mumbai, that offer the under-graduate, post-graduate degree as well as the doctoral degree.

### Course Highlights

**Cutting-edge Curriculum:** Microbiology courses feature contemporary syllabi designed to stay abreast of the latest advancements in the field that are the need of the hour.

**State-of-the-Art Facilities:** Access to high-end instruments ensures that learners are equipped with the necessary skills and knowledge to seamlessly transition into industries/research institutes anywhere in the world upon graduation.

Our students are encouraged to go for internships/research projects at various industries/research institutes.

### Subjects Offered

The Department of Microbiology at Mithibai College offers a diverse range of subjects aimed at providing students with comprehensive skills and knowledge in technology. These subjects include:

- Genetic Engineering
- Medical Microbiology
- Immunology
- Synthetic Biology
- Industrial Microbiology
- Environmental Microbiology
- Microbial Biochemistry
- Molecular Biology
- Bioinformatics
- Food Microbiology
- Dairy Microbiology
- Virology

### Careers

The Department of Microbiology at Mithibai College offers a pathway to a diverse array of rewarding careers in the dynamic field of technology. Graduates have the opportunity to pursue roles as:

- Vaccine Development
- Medical Research
- Medical Diagnostics
- Clinical Research
- Food and Dairy Technology
- Bioinformatics
- Nanobiotechnology
- QA / QC
- Medical Content Writing

### Leading Recruiters

- Students have been placed at companies like Cipla, Crimson, Cactus, etc. and diagnostic centers such as SRL, Neuberg and so on.
- Alumni have been working on projects conducted at institutes like CIFE, NIO, ACTREC, etc.



## Department of Physics

Our program is led by a esteemed faculty with extensive experience in Physics. State-of-Art laboratories enable hands-on experience, fostering strong research skills. Students engage in experiments, data analysis, and assessments. We prioritize practical learning through visits to eminent research institutes and field excursions. Faculty encourage students to engage in critical thinking, specifically on curriculum-based topics.

Beyond academics, our focus includes instilling values of social responsibility, ethics, and diversity in Physics.

## Research Centre

We offer doctoral research programs for highly motivated students looking to pursue a career in Science. Our faculty collaborates with scientists in other organizations like BARC, TIFR, IIT-B which allow them to have access to major instrumental facilities for their research programs.



## Activities

- Inter-collegiate Science Tech Fest “Einsteinium-99: An Element of Physics”
- Enriching Seminars by eminent Scientists/Academicians
- Regular Industry Visits
- Lectures by Visiting Scientists
- Internships
- Certificate Courses
- Fostering scientific-social growth amongst the students
- Career Guidance

### Intercollegiate Science TechFest Einsteinium 99



## Highlights

- Unique program with high demand
- Hands-on practice in research – conduction of various aspects of research across the years
- Industry-academia interface – guest lectures and internships
- Enriched Experiential learning – practicals, guest lectures, and innovative teaching-learning experiences
- Short-term/Add-on courses – regularly introduced (e.g., Astronomy and Astrophysics etc.)
- Better future academic prospects, especially to apply for MSc programs

### Eminent Scientists from BARC and TIFR



### Study Visit to TIFR



## New Education Policy

### Salient Features :

- New Curricular and Pedagogical Structure
- Students can offer electives of other faculties/streams
- Robust curricular and extra-curricular activities between vocational and academic streams.

## Program modules

- Optics
- Modern Physics
- Mechanics
- Thermodynamics
- Electricity and Magnetism
- Special Theory of Relativity
- Quantum Mechanics
- Nuclear Physics
- Material Science
- Electronics
- Electrodynamics
- Classical Mechanics
- Solid State Physics
- Atomic and Molecular Physics
- Earth Science
- Astronomy and Astrophysics
- Renewable Energy

## Contact us

SVKM's Mithibai College of Arts, Chauhan  
Institute of Science & Amrutben Jivanlal  
College of Commerce and Economics  
Bhaktivedanta Swami Marg, Gulmohar Road,  
Suvarna Nagar, Vile Parle (W), Mumbai,  
Maharashtra 400056  
02242339000

## Training & Placement

Training and placement programs are crucial for Physics students. They provide practical experiences that supplements theoretical knowledge. These initiatives refine communication, empathy, counseling, and problem-solving skills, enhancing readiness for diverse career paths. Students establish professional networks which cultivate confidence, boosting employability and ensuring success in future careers.

## Career options

- Research & Development
- Scientific posts in national research institutes like BARC, ISRO, RRCAT, IIT's, IISc, IPR, IPL, PRL, HRI, RRI, IUCAA, Forensic Labs etc.
- Telecommunication industries
- Aviation
- Technical assistants in various institutes in PSU and national institutes.
- PSU's like ONGC, IOL, BPCL, HPCL, BHEL, NPCIL, etc.
- Systems developer, software engineers and Computer system analysts.
- Embedded system industries.
- Academics.

### Global/National Acclaim of our Physics Alumni

- Sahil Ugale awarded full scholarship for MSc at Bonn-Cologne Graduate School of Physics and Astronomy (2022-23)
- Abhinay Mohan, Sahil Ugale and Bhushan Thakur secured Erasmus Mundus scholarship for M.Sc Physics at Universite Paris-Saclay (2023-24, 2022-23, 2021-22)
- Tejas Apte cleared IIT JAM (2023-24)
- Aisha Shaikh cleared CSIR-NET as well as GATE exam (2022-23)
- Nikhil Singh cleared IIT JAM and joined IISER Pune for Int. Ph.D (2022)
- Amit Gupta cleared IIT JAM and joined NIT for MSc. Physics (2021)
- Ganesh Gupta cleared GATE exam (2021)



Shri Vile Parle Kelavani Mandal's



## Mithibai College of Arts, Chauhan Institute of Science & Amrutben Jivanlal College of Commerce and Economics.

(Autonomous - Affiliated to University of Mumbai)

NAAC Reaccredited 'A' Grade, CGPA: 3.57 (February 2016 to December 2023)  
BEST COLLEGE (2016-17), University of Mumbai

## B.Sc. Physics



## Career Options

- Indian Statistical Service
- Data Analyst
- Market Research Analyst
- Bio- Statistician
- Data Scientist
- Data Manager
- Business Analyst
- Credit Risk Analyst
- Actuary Manger
- Statistical Quality Control Analyst
- Financial Analyst

## Job opportunities

- Machine Learning Engineer
- Business Analyst
- Economist
- Research Scientist
- Insurance Underwriter
- Financial Manager
- Chartered Accountant
- Environmental Scientist
- Quality Analyst
- Project Manager
- Data Analyst/Researcher
- Professor

## Contact us



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manjiri.vartak@mithibai.ac.in

## New Education Policy

### Salient Features

- New Curricular and Pedagogical Structure
- Students can offer electives of other faculties/ streams.
- Robust curricular and extra-curricular activities between vocational and academic streams.

### Program modules

- Advanced Probability
- Distribution Theory
- Hypothesis Testing
- Estimation Theory
- ANOVA
- Design Of Experiments
- Regression Models
- Multivariate Analysis
- Time Series Analysis
- Industrial Statistics
- Operations Research
- Survey Sampling
- Bio-Statistics
- Data interpretation
- Data Analysis
- Actuarial Science
- Microsoft Excel
- R programming



SHRI VILE PARLE KELAVANI MANDAL'S



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2016 TO DECEMBER 2023)

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## DEPARTMENT OF STATISTICS

- Seasoned faculty with extensive teaching experience.
- Hands-on training on computers
- Students involve themselves in statistical experiments, reasoning, data analysis.
- Beyond academics, our focus is to instill values of social responsibility, ethics, and diversity.



## ZOOLOGY



## Programs Offered

The Department of Zoology was founded in 1961 and has since grown to be one of the few departments that have been affiliated to the University of Mumbai, that offer the under-graduate, post-graduate degree as well as the doctoral degree.

## Course Highlights

**Cutting-edge Curriculum:** Our Zoology course features contemporary syllabi designed to stay abreast of the latest advancements in the field.

**State-of-the-Art Facilities:** Access to high-end instruments ensures that learners are equipped with the necessary skills and knowledge to seamlessly transition into the industry upon graduation.

## Subjects Offered

The Department of Zoology at Mithibai College offers a diverse range of subjects aimed at providing students with comprehensive skills and knowledge in technology. These subjects include:

- Systematics & Type study
- Haematology & Immunology
- Histology
- Toxicology
- Embryology
- Physiology
- Animal Tissue Culture
- Forensic Entomology
- Economic Zoology
- Biostatistics
- Ecology
- Evolution
- Genetics
- Zoopharmacognosy

## Careers

The Department of Zoology at Mithibai College offers a pathway to a diverse array of rewarding careers in the dynamic field of technology. Graduates have the opportunity to pursue roles as:

- Indian Forest Services
- Research Scientist
- Academician
- Fishery Biologist
- Wildlife organizations
- Laboratory technicians
- Toxicologist
- Ecologist
- Entomologist

## Leading Recruiters

- Students have been placed at companies like CleanMax, Wiingy Pvt. Ltd., Onsitego, Intas Pharmaceuticals, Climacrew, Communic LLC etc. .
- Alumni have been working on projects conducted at institutes like CIFE, NIO, ACTREC, etc.





# Biochemistry (UG)



The Department of Biochemistry started the 6 Units B.Sc. Programme in 1999 and thereafter the Masters Programme in the year 2007. Under NEP (2020), the Department will be offering Biochemistry Courses to UG students under School of Life Sciences and Open Electives to the students of Commerce & Arts faculty. Department also offers M.Sc. program in Biochemistry.

## Course Highlights

In the academic session 2024-25, Biochemistry will be offered along with Chemistry to undergraduate students. The programme endeavors to enrich domain knowledge in Biochemistry and Allied Sciences. To cater to the millennial generation multi-modal pedagogical tools are incorporated in the teaching learning process along with faculty-student mentoring and peer-peer interactions aimed at evolving holistic persona.

## Courses Offered

The Department of Biochemistry at Mithibai College offers a diverse range of courses aimed at providing students with comprehensive skills and knowledge. These include:

- The building blocks of life-Biomolecules which includes Carbohydrates, Amino acids, Proteins, Lipids and Nucleic Acids. Biomolecules provide functionality to living organisms. The course encompasses structure of monomers (sugars, amino acids, fatty acids) and their bonding leading to polymers such as polysaccharides, proteins, lipids and the blueprint of life-DNA & RNA.
- Nutritional Biochemistry focusses on the study of Macro & Micro nutrients, Nutrition and Energy Metabolism. Due to increasing lifestyle related morbidity, people are becoming more sensitive to the issue of healthy diet resulting in healthy gut leading to overall wellness. This course helps the learner appreciate the interplay of diet in human physiology.

## Careers

The Department of Biochemistry offers a pathway to a diverse array of rewarding careers in the dynamic field of biological science. Graduates have the opportunity to pursue roles in:

- Academics
- Research
- Nutrition & Dietetics
- Science Communication
- Diagnostics
- Pharma QA/QC

**Connect with us at:**

**[Biochemistry@svkmmumbai.onmicrosoft.com](mailto:Biochemistry@svkmmumbai.onmicrosoft.com)**

