

MAEER'S  
**MIT** | Arts, Commerce  
& Science College

Affiliated to Savitribai Phule Pune University

Accredited by NAAC with "A" Grade

MIT Arts, Commerce  
& Science College

Academic Year

2024-25

**BCA (Science)**

## About Us

MIT Arts, Commerce and Science College established by Prof. (Dr.) Vishwanath Karad in 2007 under the aegis of Maharashtra Academy of Engineering and Educational Research (MAEER) Pune, affiliated with Savitribai Phule Pune University and recognised by the Government of Maharashtra has emerged as a prominent institute emphasizing on quality education, research opportunities and exposure to advancing academic innovation and engaging students, staff, alumni, and other stakeholders to achieve its educational goals. Located in a peaceful and nurturing environment, the college is Equipped with top- notch infrastructure with latest technological advancements and excellent library facilities for seamless academic activities. Research and academic programmes are driven by our highly qualified and experienced faculty members who foster in-depth knowledge and practical skills through active learning, field visits, expert guidance, training programs, research support, and continuous assessment. We have the Training and Placement Cell who facilitates the process of campus placement, strives to help students in improving communication and employment- seeking skills and assist to explore the various job opportunities thus leading to best placements amongst educational institute in Pune.

### Awards, Affiliations and Recognition:

- ❖ MIT ACSC College is Accredited by NAAC with a CGPA of 3.21 on a Four point scale at 'A' Grade.
- ❖ Affiliated to Savitribai Phule Pune University and recognised by the Government of Maharashtra.
- ❖ Our educational institution in Pune, Maharashtra, has received the Education Excellence Award for achieving outstanding placements amongst other regional institutions.
- ❖ We are proud to have received the Best College Award in Rural Area for two consecutive years (2015-16 & 2016-17) from Savitribai Phule Pune University. We recognise our commitment to providing quality education in underserved areas.
- ❖ Our efforts towards student development have been acknowledged with the University Level Best College Award for 2017-18 by Savitribai Phule Pune University, underscoring our dedication to nurturing well-rounded individuals.
- ❖ We are ranked among the top colleges in India by India Today MDRA Best Colleges Ranking for 2018, 2019, 2020, and 2022, attesting to our reputation for excellence in education.
- ❖ MITACSC has secured the 3rd position in the prestigious TOP 10 EMERGING COLLEGES 2022, recognizing colleges established in or after 2010 for outstanding performance. The college is proud of its accomplishments and advancements and is committed to owning its promising future.

## MIT ACSC offers a wide range of Undergraduate and Postgraduate programs:

### Undergraduate Programs

- ❖ B.Com. ( Bachelor of Commerce)
- ❖ BBA ( Bachelor of Business Administration)
- ❖ BBA ( International Business)
- ❖ BBA ( Computer Application)
- ❖ BCA ( Science )
- ❖ B.Sc. ( Animation )
- ❖ B.Sc. ( Computer Science )
- ❖ B.Sc. ( Cyber & Digital Science )
- ❖ B.Sc. ( Information Technology )

### Postgraduate Programs

- ❖ M.Sc. (Computer Science)
- ❖ M.Sc. (Computer Application)
- ❖ M.Sc. (Data Science)
- ❖ M.Sc. (Industrial Mathematics with Computer Application)

### Ph.D.

- ❖ Ph.D. - Mathematics



# BCA

## (Science)

### About the Course

The demand for IT professionals is booming in current rapidly evolving technological environment. BCA (Science) programme is one such course which offers students with numerous possibilities. The programme provides students with both fundamental and advanced understanding of computer applications and information technology. It is designed for candidates who desire to learn about new emerging technologies by using computer languages. Thus, the BCA (Science) programme is intended to provide prospective students with in-depth knowledge of basics of computer , software development programs and information technology in order for them to better grasp their practical applications. With the increase in digitalization, this has become one of the most popular courses among others.

### Objective

The program focuses on understanding logical building in programming and produce knowledgeable and skilled human resources that is employable in IT and ITES. At the end of the program, students will be able to develop and understand various program such as planning, designing and building Complex Application Software Systems as well as to provide support for automated systems or application and other software functionalities.

### Why choose MIT ACSC?

The MIT ACSC believes in developing its students' personalities to produce future responsible global citizens. At MIT ACSC, training and knowledge are based on the five principles of holistic development policy. It Focus on

- Application Development.
- Hands on Practical Experience.
- Project based learning.
- 100% Placement Assistance to students.

Global certifications and training as per the industry requirements. The placement cell prioritizes training students for the placement process. It emphasizes interview techniques, aptitude, and self-presentation abilities.



## Eligibility

- A candidate is eligible for admission to the Degree in Bachelor of Computer Application after passing 12th Std. examination (H.S.C. 10 +2) from Science stream with English as passing subject. **OR**
- Three Years Diploma after S.S.C. i.e. 10th Standard of Board of Technical Education conducted by Government of Maharashtra or its equivalent. **OR**
- Two Years Diploma in Pharmacy after H.S.C., of Board of Technical Education conducted by Government of Maharashtra or its equivalent.

## How to Apply?



An eligible student has to apply directly to the college through the college admission application form. Admission will be offered to the students on the basis of H.S.C./ 12th percentage.

## Future Prospects/Scope

After completing the course, one can work or pursue higher education in the field. With the rapid advancement of information technology, this course provides promising Career progression in software Development, Database, Web Development, Networking, Software Testing, Cyber Security, Digital Marketing, Android Programming and Python and other options.



# Program Structure

## BCA (Science)

### SEMESTER I

Code	Course Title
BCA111	Fundamentals of Computers
BCA112	Problem Solving and C Programming
BCA113	Applied Mathematics
BCA114	Business Communication
BCA115	Fundamentals of Computers Laboratory
BCA116	C Programming Laboratory
BCA117	Applied Mathematics Laboratory
BCA118	Business Communication Laboratory

### SEMESTER II

Code	Course Title
BCA121	Computer Organization
BCA122	Advanced C Programming
BCA123	Operating Systems Concepts
BCA124	Database Management Systems – I
BCA125	Computer Organization Laboratory
BCA126	Advanced C Programming Laboratory
BCA127	Operating Systems Laboratory
BCA128	Database Management Systems - I Lab

### SEMESTER III

Code	Course Title
BCA231	Data Structures
BCA232	Database Management Systems - II
BCA233	Software Engineering
BCA234	Data Structures Laboratory
BCA235	Database Management Systems - II Lab
BCA236	Project Laboratory using Soft. Engg.
EVS-231	AEC Course - Environmental Science - I
LA-231	AEC Course - Language - I

### SEMESTER IV

Code	Course Title
BCA241	Computer Organization
BCA242	Advanced C Programming
BCA243	Operating Systems Concepts
BCA244	Database Management Systems – I
BCA245	Computer Organization Laboratory
BCA246	Advanced C Programming Laboratory
EVS-241	AEC Course - Environmental Science - II
LA-241	AEC Course - Language –II

### SEMESTER V

Code	Course Title
BCA351	DSE – I (Core Java)
BCA352	DSE – II (Data Mining & Business Intelligence)
BCA353	DSE – III (Python Programming)
BCA354	DSE – I Lab (Core Java)
BCA245	Computer Organization Laboratory
BCA355	DSE – II Lab (Data Mining & Business Intelligence)
BCA356	DSE –III Lab (Python Programming)
BCA357	SEC – I
BCA358	SEC – II

### SEMESTER VI

Code	Course Title
BCA361	Computer Organization
BCA362	Advanced C Programming
BCA363	Operating Systems Concepts
BCA364	Database Management Systems – I
BCA366	Advanced C Programming Laboratory
BCA367	AEC Course - Environmental Science - II
BCA368	AEC Course - Language –II

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# College Campus



Computer Lab



Class Room



Canteen



Play Ground



Computer Lab



Indoor Sports



Class Room



Computer Lab



Library



Garden



Class Room



Play Ground



Electronics Lab



Laboratory



Laboratory



Class Room



Indoor Sports

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