

MCA

1. Tagline:

"Mastering the Art of Computing"

2. About the Program:

"The Master of Computer Applications (MCA) program is designed to equip students with advanced knowledge and skills in computer science and applications, fostering innovation and leadership in the digital world."

3. Key Aspects of What MCA Graduates Do Include:

- a) Software Development and Engineering
- b) Database Management and Data Analytics
- c) Web and Mobile Application Development
- d) Cybersecurity and Information Assurance
- e) Cloud Computing and Virtualization
- f) Artificial Intelligence and Machine Learning

4. Course Concept Map with Course Name in Center:

5. Industry Training:

"Bridging Knowledge to Industry Excellence, industry training paving the Way for Industry Prowess."

Brief:

"The MCA program offers various industry training programs designed to bridge the gap between academic learning and the practical demands of the industry, ensuring students are proficient in the latest technologies and practices."

7. Industry Training:

- 1. CISCO (Network Security Training)
- 2. AWS (Cloud Computing And Amazon Web Services)
- 3. Problem Solving (Geeks for Geeks)
- 4. Version Control and Collaboration (GitHub)
- 5. Mock Interviews (Hyresnap)
- 6. Employability Assessment test (AMCAT)

8. Training Road Map:

1st/2nd Sem

Problem-Solving

Skill Set: C,C++ Language

No. Of Hours: 20

Outcome: Logic Building using Programming language

3rd Sem

Problem-Solving

Skill Set: C,C++ Language

No. Of Hours: 20

Outcome: Generate Range of effective solutions

Web Technology

Skill Set: HTML,CSS

No. Of Hours: 20

Outcome: Analyze the Web Page and Identify its different properties

Data Science

Skill Set: Mathematics, Python, Machine Learning models and algorithms

Outcome: Industry Oriented Certificates

No. Of Hours: 20

Cloud Computing

Skill Set: AWS/Google Cloud Practical Knowledge

No. Of Hours: 20

Outcome: Industry-Oriented Certificates.

4th Sem

Problem-Solving

Skill Set: C,C++ Language

No. Of Hours: 20

Outcome: Develop a consistent problem-solving approach

Web Technology

Skill Set: Javascript, BootStrap

No. Of Hours: 20

Outcome: Learn server-side (back-end) fundamentals and apply them to create dynamic websites and web apps.

Data Science

Skill Set: Mathematics, Python, Machine Learning models and algorithms

Outcome: Industry Oriented Certificates project building related to complex problems

No. Of Hours: 20

Cloud Computing

Skill Set: AWS/Google Cloud Practical Knowledge

No. Of Hours: 20

Outcome: Advance Industry Oriented Certificates and project building related to complex problems

9. Top Achievers Quotation:

"From Coders to Innovators: Student Success Stories, Empowering the Next Generation of Tech Leaders."

Highest placement in batch 2021-23: Princi Tyagi

Company Name- Koeing Solutions Pvt. Ltd.

Profile- Corporate Trainer

package: 10.78

Love Varshney

Company Name- Koeing Solutions Pvt. Ltd.

Profile- Corporate Trainer

package: 10.78

Batch (2021-2023), Placed Students

Hritviz Soni

Profile : Associate Software Engineer

Company: Accenture

Package: 6,50,000

Akansha Singhal

Profile : Associate Software Engineer

Company: Coditas Solutions LLP

Package: 6,00,000

10. Placement Glimpses 2023:

1. Total number of Actual placements.

177

2. Highest salary package offered.

10,78,788

3. Total number of companies that visited for placements of MCA.

119

4. Placement percentage of MCA department.

92.67

5. Total number of placements offered by the college.

240

6. Total number of super-dream (≥ 1000000) offers with exceptionally high CTC and the corresponding amount in LPA.

3

7. Total number of dream offers (≤ 999999 and ≥ 700000) with remarkable CTC and the corresponding

amount in LPA

0

8. Total number of super offers (≤ 699999 & ≥ 400000) with excellent CTC and the corresponding amount

in LPA.

98

11. Top Internship Offers Companies List:

12. Top Placement Offers Companies List:

13. Industry Partnerships & MoUs:

MAGIC BUS has developed Skill Development courses that it delivers to students through its NGO partner centers across India. It shall also conduct the training placement to enable the students to put into practice the theory and methods acquired during the course and strengthen their career prospects.

Softtechera Systems Pvt. Ltd. is an esteemed company dedicated to improve software architecture, develop a tech-driven digital strategy, and optimize software portfolio. Sotechera Systems Pvt. Ltd will provide professional communication training to the students of MCA in order to enhance their verbal and written communication skills.

NSMX is a market research services and consulting company affianced in providing an integrated solution to a wide range of small, medium & large online market research companies seeking services throughout the world. NSMX has established brand equity in the Market Research domain through the range of services provided to its client base and the domain knowledge of its professionals.

14. Facilities and Lab List:

Database Lab in MCA

The Database Lab in the MCA program provides hands-on experience with leading database management systems like Oracle, MySQL, and PostgreSQL. Equipped with advanced data analytics tools and guided by experienced faculty, students engage in practical projects that cover database design, SQL programming, and data mining. The lab's industry-relevant curriculum ensures students are job-ready, offering real-world skills and collaborative opportunities that enhance their employability in database management and data analytics roles.

Training Lab in MCA

The Training Lab in the MCA program offers hands-on experience with the latest technologies and software tools. Students engage in practical projects covering areas like software development, data analytics, cybersecurity, and AI. Guided by experienced faculty and industry professionals, the lab ensures students gain real-world skills and industry-relevant knowledge, preparing them for successful careers in the tech industry.

15. Events & News Section:

HackIndia-2024 || India's Biggest Web3 Hackathon || Unleash Your Web3 Vision || 14th & 15th 2024 || Exciting Prizes to Win

Inter-Colleges Participants: Students from the MCA & B.Tech departments of ABES EC, MIET College, Invertis University, Quantum University, IIMT, and many more institutions/universities participated, contributing to the vibrant atmosphere of the event. Around 320 students in 60 teams participated and made the event a resounding success. The top 10 teams were selected based on their performance metrics:

- Project Presentations (PPTs)
- Pitch
- Innovation

Short Term Course (STC) || Network Science using Python in Joint Collaboration with NITTTR Chandigarh

The Department of Computer Application, ABES Engineering College, Ghaziabad, successfully organized an online Short Term Course (STC) in collaboration with NITTTR Chandigarh, India, on the theme of “Network Science using Python,” from 13th May to 17th May 2024, for Academicians, Researchers, Scholars, and Students.

A total of 35 participants registered and participated in this STC. The FDP on Network Science using Python attracted many participants from various departments, including CSE, IT, CSDS, and CE. This five-day STC started on 13th May and ended on 17th May 2023. Each day the STC was scheduled with three sessions, making a total of 14 sessions.

Alumni Interaction cum Expert Talk || IT Infrastructure Administration || 4 May 2024

The Department of Computer Applications (MCA) at ABES Engineering College, Ghaziabad, successfully conducted the Alumni Interaction cum Expert Talk on “IT Infrastructure Administration” on 4 May 2024, under the series Alumni Interaction cum Expert Talk. This online alumni interaction cum expert talk was attended by all students and faculty members of the department.

Tech Quest: Guest Lecture Series || Fourth Lecture || Prompt Engineering the Future of AI Development

The Guest Lecture was conducted for Students & Faculty Members of the MCA Department, ABES Engineering College, Ghaziabad. After attending the session, the students gained knowledge about opportunities available in the field of AI. The students connected their previous technical knowledge and learned how emerging technologies are using AI. The main key points covered by the speaker are:

Introduction of Prompt Engineering

Generative AI

Working of language models.

Foundation of LLM

Calculation of Space efficiency

Responsible AI in prompt Engineering

Azure open AI Service

Zero-shot Prompting