



AHMEDABAD UNIVERSITY

AES Institute of Computer Studies

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AES Institute of Computer Studies (AESICS) was established in the year 2000 by the most trusted and philanthropic education trust "The Ahmedabad Education Society" to impart post graduate MCA education to aspiring students and partially meet the demands of quality software professionals of the corporate and educational sector to contribute to the country's quest to become a knowledge superpower.

The institute has emerged as an excellent institute for skill based IT education and producing IT professionals with high technical and soft skill capabilities. The institute is highly preferred by the students to make their career in the field of IT as the institute provides state of the art infrastructure and which has adopted modern educational practices. The innovative academic planning is implemented which includes increased contact hours, intensive communication training, comprehensive computer training etc. The pedagogy adopted is a mix of lectures, case studies, projects and presentations by experts which brings best out of the students. The institute strives to close the gap between where the students are and where they wish to be. Our Alumni are placed in leading national and international IT companies like IBM, HP, Oracle, Cisco, Novell, TCS, PCS, Wipro and many more. This institute is highly preferred by the students to make their career in computer applications. A majority of our graduates opt for higher studies in India and abroad.

The institute has been accredited with **B++** grade by the National Assessment and Accreditation Council (NAAC) of the UGC.

Ahmedabad University is promoted by Ahmedabad Education Society, which was established in 1935 with inspiration from Sardar Vallabhbhai Patel, the 1st Deputy Prime Minister of India, and by visionaries which include Sheth Kasturbhai Lalbhai and Shri Ganesh Vasudev Mavlankar. It runs ten colleges, eleven schools and other academic institutes, each of which has a leading position in Gujarat.

The vision of Ahmedabad University is to be a temple of higher learning engaged in gathering, generating, storing and disseminating knowledge relevant to the societal needs, offering multi-disciplinary programs to students emphasizing their all round development.

MCA Programme: For whom:

The three years MCA curriculum (9 trimesters) programme offers qualifications for students heading for a carrier in the IT field. It aims at equipping students with the skill sets required which includes Software Engineering, Internet and e-commerce applications, Business applications, Web based applications, Project Management etc. so that they can fit well in the current IT scenario.

Academic System

- The overall learning load for the students in each trimester has been decided such so as to provide him/her with enough flexibility to take up additional study related assignments or participate in some local/state/national level academic events.
- The faculty decides the proper mix of pedagogy to be followed in each course depending on the nature and type of subject. A concept of tutorial has been implemented for remedial/problem solving purpose as per AICTE guidelines.

***UNDER FORMATION VIDE LETTER OF INTENT OF GOVT. OF GUJARAT– EPU/2007/859/PART-II/KM.2**

- Different modes of evaluation will be used by the faculty depending on the nature of course to evaluation a student.
Pedagogy will comprise a mix of following:
 - Classroom teaching using audio-visual teaching aids like OHP and multimedia system
 - Case studies in conceptual courses
 - Practical teaching in Computer laboratory using software/hardware platforms and tools
 - Group discussions, presentations and seminars
 - Internal Academic projects
 - Live Industrial projects
 - Organizing technical events like expert lectures, seminars, workshops and specialized need based training programs

Program design

- The MCA program comprises of 35 subjects spread over 3 years (9 trimesters) which aims to train students in state-of-art technologies and emerging trends in IT such as Web Engineering, Wireless Communications and Mobile Computing, Data Ware housing and Data Mining, Distributed systems and SOA, Geographic Information System, E-Security and Cyber law, Enterprise Applications and Open Source Technologies.

Career

- With the advances in technology several new subject areas and trends have emerged in last few years which have been included at appropriate level in the MCA curriculum.
- The courses and their content in the syllabus are designed to fulfil the current and emerging requirements of the global IT industry.
- Special courses like “Communication Skill” and “Seminar” has been designed for communication skill, soft-skill and over all personality development of the student.

Infrastructure:

Library:

The Institute library has a wide range of texts books, reference books, periodicals, journals and CDs. There are more than 4000 volumes including 2000 titles covering all major areas of IT. The Institute subscribes 10 international journals (IEEE, ACM), 12 national journals, 8 international magazines and 21 national magazines. There are 1500 CDs / DVDs in the library available to the students and faculty members. The facility of accessing Microsoft IT Academy Programme is also available which includes Professional Courseware (Advanced Program level), Academic Textbooks, E-learning, MSDN Academic Alliance, TechNet and e-Reference Library. A Book Bank facility is also available.

Computational Facility:

The institute has well-equipped computer laboratories, in which all the high-end configured workstations are networked to multiple servers running on multiple operating systems. A variety of operating systems, application softwares and rapid application development tools are available. There is a separate IBM Rational Laboratory for Training on OOAD with UML, Software Testing & Automation using Rose, Microsoft IT Academy Programme and Microsoft Dynamics Academic Alliance Programme for ERP and CRM training. All the servers and desktops are networked through Microsoft Exchange Server. Internet access is available through 2 MBPS connectivity.

Hostel, Canteen, Auditorium, Sports facility:

Separate hostels are available for boys and girls of all the institutes of the Ahmedabad Education Society. There is an air conditioned auditorium with audio visual facilities, open air theatre, cricket ground, courts for basket ball and volley ball, multifunctional gymnasium and canteen on campus.

Placement:

The institute provides assistance to the students to secure appropriate projects during their study and placement after the completion of the MCA program. Students are also provided career counselling so as to enable them to choose the right career for their bright future.

Cultural Activities:

A cultural festival is organized by the students once a year and a majority of the students participate in various competitions of music, dance, quiz, painting, drama etc.

Co-curricular Activities

The Institute believes in the overall development of students and hence arranges several extra curricular activities. The students participate in activities of the student branch of the Computer Society of India in the campus. The student branch arranges seminars, workshops and lectures inviting experts and leading academicians. This student branch has been conferred with the Best Student Branch award by the CSI for 2004-05, 2006-07 and 2007-08 in Region-3 (Gujarat, M.P. and Rajasthan). The students participate in various seminars, workshops, quiz and project development competitions. They also present technical papers in seminars and participate in quiz competitions.

Social Responsibility:

Students and faculty members donate blood in blood donation camps. Teacher's day, Independence Day and Republic Day are celebrated with zeal in the campus every year.

Alumni:

The Association of AESICS Alumni is a link between the Institute and the alumni. The members also help students in getting projects and final placements. At present there are more than 350 active members. The Institute's alumni have started providing visibility to and spreading its reputation in the industry. The members also interact with the present student population and provide them guidance and feedback.

PROPOSED THREE YEAR M.C.A. PROGRAMME STRUCTURE

FIRST YEAR MCA		
Trimester - I	Trimester – II	Trimester - III
Structured Programming using C	Data Structures	Operating Systems
Computer Organization and Architecture	Database Management Systems –II	Object Oriented Concepts and Programming using C++
Database Management Systems-I	Programming using C and C++	Design and Analysis of Algorithms
IT Tools	Discrete Mathematics for Computer Science	Computer Oriented Numerical and Statistical Methods
	Communication Skills	Management Systems
SECOND YEAR MCA		
Trimester – IV	Trimester – V	Trimester – VI
Core Java	Web Development using ASP.NET	TCP/IP Protocol Suite
Software Engineering	Object Oriented Analysis and Design using UML	Open Source Technologies
Operations Research	Managerial Economics	Elective-I
Enterprise Application Development using .NET	Data Communication and Networking	Enterprise Application Development (Project)
System Software	Seminar	
THIRD YEAR MCA		
Trimester – VII	Trimester - VIII	Trimester – IX
Software Project Management	Enterprise Applications (ERP, SCM, CRM)	System Development Project
Mobile Computing	Distributed Computing and Service Oriented Architecture (SOA)	
Advanced Java	Elective-III	
Elective-II	Web based Application Development (Project)	

Elective-I	Elective-II	Elective-III
1. Artificial Intelligence 2. Linux Administration 3. Computer Graphics 4. Search Engine Optimization	1. Compiler Construction 2. Multimedia Systems 3. Software Quality Management, Testing and Standards	1. Network Security 2. GIS 3. E-Security and Cyber laws 4. Data Warehousing and Data Mining 5. IT Infrastructure Management 6. E-Governance

The sequencing of subjects has been done in a way that any pre-requisite knowledge if required, is already gained before moving to a higher trimester.

The overall learning load for the students in each trimester has been decided in a way as to provide him/her with enough flexibility to take up additional study-related assignments or to participate in local/state/national level academic events.

Evaluation Pattern:

The evaluation scheme focuses on continuous evaluation of the student using a mix of different modes of evaluation. The mode of evaluation and its weightage is decided on the basis of the nature of the course, which will consist of Mid-trimester and End-trimester evaluation, Quizzes, Assignments, Projects, Presentations, Attendance and class-participation.

Medium of Instruction: *ENGLISH*

Admission in First Year MCA: By GCET-2009