INSTITUTE OF SCIENCE & TECHNOLOGY FOR ADVANCED STUDIES & RESEARCH

(Recognized by Section 2(f) & 12(B) of UGC Act. by University Grant Commission, New Delhi)

1st Rank among All Colleges of Gujarat by KCG (GSIRF) – 2021

ISTAR

COMPUTER SCIENCE (M.Sc. CA & IT Programme)
Constituent College of The CVM University

CVM UNIVERSITY

About M.Sc.(Computer Application & Information Technology, CA & IT) :

Computer Application & Information Technology is the most captivating sector of the modern world. Every people and each of the organization are been fascinated by the technique of it. The objective of this course is to "Produce Master of Science (CA & IT) students with technological and skilled abilities to work on real challenges of the industries and societal needs."

Course Duration: 2 Years

Eligibility: As per UGC/CVMU Norms

Who passed, B.Sc. (CA & IT) | B.Sc. (IT) | B.Sc. (CS) | BCA any Science Graduate who studied one theory course in Computer Science / Information Science from recognized University.
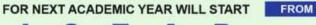
Course content M.Sc.(CA & IT)

Semester - 1
- Advanced computer networking
- Analysis and design of algorithms
- Practical based on advanced computer networking
- NoSQL database technology
- Practical based on NoSQL database technology
- System software
- Big data & analytics
- Digital image processing

Semester – 2
- Machine learning
- Practical based on machine learning
- Wireless communication
- Data analysis using r programming
- Application development using android platform – i
- Practical based on data analysis using r programming and application development using android platform-i
- Geographic information system
- Software testing

Semester – 3
- Application development using android platform – ii
- Compiler design
- Data warehouse and data mining
- Emerging trends in it
- Practical – i
- Practical – ii
- Parallel computing

Semester – 4
- Internship(project work)

-: Unique Features :-

●Both courses are designed as per the current industry requirements ●Two year postgraduate programme affiliated to The CVM University ●The course provides the knowledge, technical skill and solid background not only in the field of computer science but also would make them compatible with industrial standards ●We have highly learned pool of faculty members with well qualified Doctoral degree and skilled with latest technology ●Seminars, Industrial visit, Study Tips, Expert Talks, Webinar, Summer Training, Bridge Course and hands on workshop for student development ●Enriched library facility with latest edition books and periodical journals ●Highest University result with maximum distinction and first class ●Majority of our students are employed in industries, consultancies and research organizations in several parts of our country and abroad also ●Well Equipped Laboratory & smart Classrooms.

-: Program Outcomes :-

Provide a platform to the students to interact with leading teachers, scientist, and industry practitioners.

- Technical Proficiency: Post Graduates in computer science should possess a strong understanding of various programming languages, databases, software engineering principles, algorithms, data structures, and other technical aspects relevant to computer applications.
- Advanced Technology: Students get the knowledge of latest technology which is currently required in industries.
- Problem-Solving Skills: Post graduates in computer science should be adept at analysing complex problems and devising efficient solutions using computational techniques and software development methodologies.
- Project Management: Post programs often emphasize project management skills, including planning, scheduling, budgeting, resource allocation, risk management, and coordination, to ensure successful completion of software projects.
- Continuous Learning: Given the rapidly evolving nature of technology, Post graduates should demonstrate a commitment to lifelong learning and professional development, staying updated with the latest trends, tools, and techniques in the field of computer applications.
- Career Readiness: Ultimately, the goal of an MCA program is to prepare graduates for successful careers in various sectors such as software development, IT consulting, system analysis, database administration, project management, research, and academia. Graduates should possess the skills, knowledge, and mindset required to excel in their chosen career paths and make meaningful contributions to the field of computer applications.

ADMISSION FOR NEXT ACADEMIC YEAR WILL START **FROM MAY**

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