



# School of Information Technology

# School of Information Technology

## Vision

“To be a prominent brand of Premier University of Integral & Transformational Learning for Future Leaders”

## Mission

To bring in effective contribution from the School of IT is to inspire and nurture fresh minds to initiate with innovative ideas/dreams to transform into reality as trained IT hi-tech professional leaders. By placing such transformed IT leaders with modern advance technical skill set throughout the world through capitalizing on enriched modern resources/facilities within World Class Premium AURO University as learners to leaders.

## Objectives

- **Conception:** Believes in creating highly IT technical professionals to deliver their best with exceptional performance in the technical world as representatives of our AURO University.
- **Forte:** Meticulously designed Industry oriented Course Structure flow is superior as compared to other Universities/Institutes in IT and always alert

to be prompt in upgrading syllabus according to the industry requirements.

- **Strength:** Strength of School of IT is ongoing multiple collaborations with IT Industries around the world as much as possible.
- **Growth:** School of IT keeps on building starting from single UG (BSc.IT) to multiple UG and PG programs.
- **Organize:** Organize Conferences / Seminars / Workshops / Training programs to be conducted by the senior IT professionals from reputed IT industries (MNCs) and eminent Academicians.
- **Opportunities:** Organizes Live Projects implementing latest advance technologies.
- **Achieve:** Achieving high standards for Internships and Placements.
- **Enrichment:** Enduring Development to enrich facilities / resources such as of Books / Journals / Magazines in Library, Latest configuration (H/w & S/w) in IT Labs, Technically updated Faculty Members to create overall conducive Hi-tech environment.
- **Priority:** The key priority to focus is on to take care of growth in technical knowledge of students as they are the premium brand ambassadors of our School of IT from AURO University.
- **Branding:** Building the brand image for School of IT is always an everlasting process to uplift and shape the technical knowledge and personality of students.

## Courses Offered

BSc. IT (3 Years)

BSc. IT + M. Sc. IT  
(3+2 Years) Integrated

M. Sc. IT (2 Years)



## Introduction of Bachelor of Science (Information Technology) Program

Bachelor of Science (Information Technology) in School of IT at AURO University was launched in 2012 with laying the foundation for School of IT. This BSc.IT program for IT aspirants from any stream to lead into the era of Information Technology as to become one of the finest architects of technology with their highly technical skill set till date in today's fastest growing pitch of worldwide business industries.

BSc.-IT is a well formulated designed program for students who intent for professional career in Information Technology. The course structure flow have been pragmatically designed to guide the student from basic concepts and to train in the recent advance technological practices similar to the industries. Divulging the latest required technical skill set through hands-on in the Hi-tech IT laboratories experiences is emphasized at every stage of the program and bring awareness to the future prospects in the IT world. Though now School of IT has already launched couple of Masters' programs with much more advance learning and training with the continuation of the course structure flow from BSc.IT program. This program of BSc.IT has now jointly being carried in flow with M. Sc. IT (Integrated) Program.

### Objectives of BSc. IT Program

- To equip students with an integrated Hi-skill set that will allow them to develop their professional careers in Information Technology.
- To prepare students with the theoretical and practical knowledge that is necessary to enable them to understand the design of complex computer applications.
- The program trains students to acquire the latest skills and build their future capabilities using world-class technology.
- Skills to work with higher end applications on complex network technologies, ability to analyze, design and develop softwares.
- Develop confidence in providing better IT Solutions for current issues and challenges faced by any business industries.
- Qualities imparted as expertise to become proficient IT Entrepreneurs.
- To enhance IT Potential to become the professional leaders in IT Industries.

### Learning Outcomes

- At the end of this intensive three-year program it is expected that a graduate of the program:
- Will build comprehensive conceptual foundation of IT knowledge,
  - Will be well equipped with in-depth trained in these three important and complementary requirements for a successful IT career; an ability to analyze, conceptualize and design systems; fluency with modern software design and development tools.
  - The students will have to undergo live training with industry internship within India or abroad in the last semester of the Program.
  - With these abilities, a graduate of this Program are prepared as IT professionals for satisfying career in the challenging field of Information Technology – as software engineer, analyst, system designer, etc.
  - Those who had completed this journey of this BSc.IT program are performing remarkably as achievers in their Masters anywhere across India or Abroad.



## Bachelor of Science & Master of Science – Information Technology (Integrated 5 Years) Program

Integrated Master of Science Information Technology in School of Information Technology at AURO University opens the door for fresh aspirants to be leaders in the era of Information Technology and become one of the finest application creators through advance technologies inculcated with highly technical skill set implemented in the contemporary business industries.

Integrated Master of Science Information Technology is an intensive program designed for students who aim high at professional career in Information Technology. The course structure flow has been cautiously designed in integrating five years to guide the student from basic concepts from Bachelors three years till two years of Masters to train them up to the recent advance technological practices in the industries. Imparting the latest required technical skill set through hands-on in the Hi-tech IT laboratories experiences is emphasized at every stage of the program and brings awareness to the future prospects in the modern IT world.

### Objectives of B.Sc. IT (3 years) + M. Sc. IT (2 years) Integrated 5 Years Program

- To equip students with an integrated High-skill set that will allow them to develop their professional careers in Information Technology.
- To prepare students with the theoretical and practical knowledge that is necessary to enable them to understand the design of complex computer applications.
- To acquire the latest skills and build their future capabilities using world-class technology.
- To import skills to work with higher end applications on complex network technologies, ability to analyze, design and develop software.
- To develop confidence in providing better Information Technology solutions for current issues and challenges faced by industry
- To develop qualities and develop expertise to become proficient Information Technology entrepreneurs.

### Learning Outcomes

At the end of this intensive five-year program, it is expected that a graduate of the program:

- Will be well equipped with in-depth training in three important and complementary requirements for a successful IT career.
- This program builds sound theoretical foundations, an ability to analyze, conceptualize and design systems, fluency with modern software design and development tools.
- The students will have to undergo live training twice with industry internship in the sixth semester of Bachelors and tenth semester in Masters within India or abroad, this will give exposure to live work experience of industry.



- With these abilities, graduates of this program are prepared as IT professionals for career opportunities in the challenging field of Information Technology – as software engineer, analyst and system designer.
- This MSc in Information Technology (Integrated) Degree automatically satisfies the conditions for professional engineer status in India and Abroad.

### Conditions Apply

- After completion of three years of B.Sc. IT student can discontinue for further M.Sc. IT from integrated program.
- Direct Admission to 2-years M. Sc. IT-Integrated is not permissible.



## Introduction of Master of Science (Information Technology) Program

Master of Science (Information Technology) in School of IT at AURO University opens the door for fresh aspirants to lead into the era of Information Technology as to become one of the finest architects of technology with their highly technical skill set in today's fastest growing pitch of worldwide business industries.

MSc.-IT is a concrete program designed for students who intend for professional career in Information Technology. The course structure has been prudently designed to guide the student from basic concepts and train them up to the recent advanced technological practices in the industries. Imparting the latest required technical skill set through hands-on in the Hi-tech IT laboratories experiences are the highlights at every stage of the program and to bring awareness to the future prospects in the IT world.



### Objectives of M.Sc. IT Program

- To equip students with an integrated High-skill set that will allow them to develop their professional careers in Information Technology.
- To prepare students with the theoretical and practical knowledge that is necessary to enable them to understand the design of complex computer applications.
- The program trains students to acquire the latest skills and build their future capabilities using world-class technology.
- Skills to work with higher end applications on complex network technologies, ability to analyze, design and develop software.
- Develop confidence in providing better IT Solutions for current issues and challenges faced by any business industries.
- Qualities imparted as expertise to become proficient IT Entrepreneurs.
- To enhance IT Potential to become the professional leaders in IT Industries.

### Learning Outcomes

At the end of this intensive two-year program:

- It is expected that a graduate of the program will form sound theoretical foundation, will be well prepared with in-depth trained in these three important and complementary requirements for a successful IT career.
- An ability to analyze, conceptualize and design systems, fluency will develop with modern software design and development tools.
- The students will have to undergo live training with industry internship within India or abroad in the last semester of the Program. With these abilities, a graduate of this Program are prepared as IT professionals for satisfying career in the challenging field of Information Technology – as software engineer, analyst and system designer.
- This MSc in Information Technology Degree automatically satisfies the conditions for professional engineer status in India and Abroad.



## List of Faculty Members

**Dr. Sharad Raghuvansh**  
HOD, Associate Professor

**Dr. Papri Ghosh (Das)**  
Assistant Professor

**Mr. Vishal Thakor**  
Assistant Professor

**Mrs. Anshu Agarwal**  
Assistant Professor

**Dr. Bhanu P. Singh**  
Assistant Professor

**Mr. Rajiv Katare**  
Assistant Professor

**Mr. Akhilesh Latoria**  
Assistant Professor

**Mrs. Juhi Khengar**  
Teaching Assistant

### Eligibility Criteria for

#### 1. B. Sc. – Information Technology (3 years)

#### 2. 5 Years Integrated M. Sc. - B. Sc. Information Technology

- Successful completion of Class XII (10+2) or equivalent examination in any stream with 50% aggregate marks or equivalent grade. Students expecting their results by July 2018 may also apply for provisional admission. Students appearing for their Class XII examination will be given provisional admissions based on their Class X performance.
- In case the student has received the Class XII certificate from abroad or has been an IB student and has received IB diploma an equivalence certificate issued from Association of Indian University (AIU) must be attached with the application form.

## Program Structure - B. Sc.IT (3 Years)

YEAR-1	YEAR-2	YEAR-3
<ul style="list-style-type: none"> <li>• Programming using 'C'</li> <li>• Fundamental of Computer Organization</li> <li>• Introduction to Microprocessor and Digital Electronics</li> <li>• Fundamental of Statistics</li> <li>• Data Structures Programming in C</li> <li>• Database Management System</li> <li>• System Analysis and Design</li> <li>• Fundamental of Mathematics</li> <li>• Science Of Living</li> <li>• Yoga &amp; Meditation</li> <li>• Physical Education</li> </ul>	<ul style="list-style-type: none"> <li>• Object Oriented Programming with "C++"</li> <li>• Relational Database Management System</li> <li>• Internet Concepts and Web Designing</li> <li>• Operating System</li> <li>• Management Information System</li> <li>• Java Programming</li> <li>• Computer Networks</li> <li>• ASP.Net</li> <li>• Business Intelligence :Data Warehousing and</li> <li>• Data Mining</li> <li>• Computer Graphics</li> </ul>	<ul style="list-style-type: none"> <li>• Design and Analysis of Algorithm</li> <li>• Advanced ASP.NET</li> <li>• Software Engineering</li> <li>• Information Security</li> <li>• E-Business</li> <li>• Android Programming</li> <li>• Cloud Computing</li> <li>• Python Programming</li> <li>• Preparation of Project</li> <li>• Project</li> </ul>

\*AURO University reserves the right to change the course curriculum

## Program Structure – BSc. IT & M. Sc. IT (Integrated 5 Years)

YEAR-1	YEAR-2	YEAR-3
<ul style="list-style-type: none"> <li>• Programming using 'C'</li> <li>• Fundamental of Computer Organization</li> <li>• Introduction to Microprocessor and Digital Electronics</li> <li>• Fundamental of Statistics</li> <li>• Data Structures Programming in C</li> <li>• Database Management System</li> <li>• System Analysis and Design</li> <li>• Fundamental of Mathematics</li> <li>• Science Of Living</li> <li>• Yoga &amp; Meditation</li> <li>• Physical Education</li> </ul>	<ul style="list-style-type: none"> <li>• Object Oriented Programming with "C++"</li> <li>• Relational Database Management System</li> <li>• Internet Concepts and Web Designing</li> <li>• Operating System</li> <li>• Management Information System</li> <li>• Java Programming</li> <li>• Computer Networks</li> <li>• ASP.Net</li> <li>• Business Intelligence: Data Warehousing and Data Mining</li> <li>• Design and Analysis of Algorithm</li> </ul>	<ul style="list-style-type: none"> <li>• Advanced ASP.NET</li> <li>• Computer Graphics</li> <li>• Software Engineering</li> <li>• Information Security &amp; Management</li> <li>• E-Business</li> <li>• UNIX and SHELL Programming</li> <li>• Cyber Security and Forensic</li> <li>• Python Programming</li> <li>• Preparation of Project</li> <li>• Projtect</li> </ul>

\*After completion of three years of B.Sc.IT student can discontinue for further M.Sc.IT from integrated program.

M. Sc. IT (Integrated) – 1st Semester	M. Sc. IT (Integrated) – 2nd Semester	M. Sc. IT (Integrated) – 3rd Semester	M. Sc. IT (Integrated) – 4th Semester
<ul style="list-style-type: none"> <li>• Discrete Mathematics</li> <li>• Cryptography &amp; Network Security</li> <li>• Mobile Computing</li> <li>• System Simulation and Modelling</li> <li>• Advanced PHP</li> </ul>	<ul style="list-style-type: none"> <li>• Advance Java Programming</li> <li>• Artificial Intelligence</li> <li>• Enterprise Resource Planning</li> <li>• Wireless Technologies</li> <li>• Adv. Python Programming with Django</li> </ul>	<ul style="list-style-type: none"> <li>• Cloud Computing Technology</li> <li>• Software Testing</li> <li>• Software Project Management</li> <li>• Elective – I</li> <li>• Elective – II</li> </ul>	<ul style="list-style-type: none"> <li>• Project - II</li> </ul>

\*\* Two Electives subjects in the 3rd Semesters to make total of 15 Subjects.

### Electives Modules for BSc.IT & M. Sc. IT (Integrated)

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| <ul style="list-style-type: none"> <li>• Distributed System</li> <li>• Automata Theory</li> <li>• Compiler Design</li> </ul> | <ul style="list-style-type: none"> <li>• Advance database management system</li> <li>• Linux Administration</li> <li>• Neural Network and Fuzzy Logic</li> </ul> |
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## Eligibility Criteria for M. Sc. IT (02 Years)

- Bachelor's degree (10+2+3 or 10+2+4) from a recognized University / Institute in India or abroad, with a minimum of 50% marks.
- In case the Bachelor's degree received from abroad, an equivalence certificate issued from Association of Indian University (AIU) must be attached with the application form.
- Student expecting their results by July 2018 may also apply for provisional admission subject to the fact that their aggregate score in Bachelor Degree Examination shall be a minimum of 50% marks.

## Program Structure – M. Sc. IT

M. Sc. IT – 1st Semester	M. Sc. IT – 2nd Semester	M. Sc. IT – 3rd Semester	M. Sc. IT – 4th Semester
<ul style="list-style-type: none"> <li>• Data Structures Programming in C</li> <li>• Management Information System</li> <li>• Computer Networks</li> <li>• Web Technologies</li> <li>• Operating System</li> </ul>	<ul style="list-style-type: none"> <li>• Object Oriented Programming with "C++"</li> <li>• Computer Graphics</li> <li>• Advanced Web Technologies with PHP</li> <li>• Core Java</li> <li>• Relational Database Management System</li> </ul>	<ul style="list-style-type: none"> <li>• Software Engineering</li> <li>• Cyber Security and Forensic</li> <li>• Cloud Computing</li> <li>• Elective – I</li> <li>• Elective – II</li> </ul>	<ul style="list-style-type: none"> <li>• Project</li> </ul>

\*\* Two Electives subjects in the 3rd Semesters to make total of 15 Subjects.

Common Module Electives for both M. Sc. IT 2 Years & M.	Electives of M. Sc. IT (only for 2 years) Program
<ul style="list-style-type: none"> <li>Automata Theory</li> <li>Compiler Design</li> <li>Advance Database Management System</li> <li>Linux Administration</li> <li>Neural Network and Fuzzy Logic</li> </ul>	<ul style="list-style-type: none"> <li>Programming in C# with .NET framework</li> <li>Artificial Intelligence</li> <li>Business Intelligence: Data Warehousing and Data Mining</li> <li>Wireless Technologies</li> <li>Mobile Computing</li> <li>Advance Android Programming</li> </ul>

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## Live Projects

- Developed Live project on Placement Portal for AURO University,
- Developed three Live Projects for Taj and Marriott Hotels,
- Got breakthrough for LIVE project & Internship on Cloud Computing provided by Kavalus Inc., USA.
- Students got selected in Live Project of Taj and Marriott for effective upgrading.
- Collaboration with Computer Society of India(CSI), Chennai, India in Surat Chapter at Institutional Level for Conferences, Seminars, Guest Lectures and Research purpose.

## Choice Based Credit System (CBCS) from School of IT

School of IT has launched three valuable IT subjects for choice based credit system to the students for other schools in AURO University. This CBCS will make the students to gain extra knowledge according to their interest and earn four additional credits from such each IT subjects along with their regular credits in their course structure. The subjects provided from School of IT for CBCS are as follows:-

1. Fundamentals of Programming,
2. Fundamental of Cyber Security,
3. Web development.

## Workshops / Training Sessions & Expert Talks

The Expert Talk conducted “To Develop Career in IT for Emerging Modern Technologies” by **Mr. Ravi Katare, Sr. Vice-President, Bank of America, New York, USA**. The expert’s lecture was an amazing energy filled time for students of School of IT in AURO University as expert initiated by giving a brief yet highly motivational insightful view about the journey of a man from a strong technological background reaching to such enormous height with standard in a very short span of time. He enlightened students about the present-day industry scenario and how the industry is ever-changing because of emergence and huge technological advancements in the area like Artificial Intelligence, Machine Learning, Robotics, Agile and so forth with variety of demo of current software being used in the banking industry. Mr. Ravi Katare has proudly accepted to be the advisor in advisory board of School of IT.



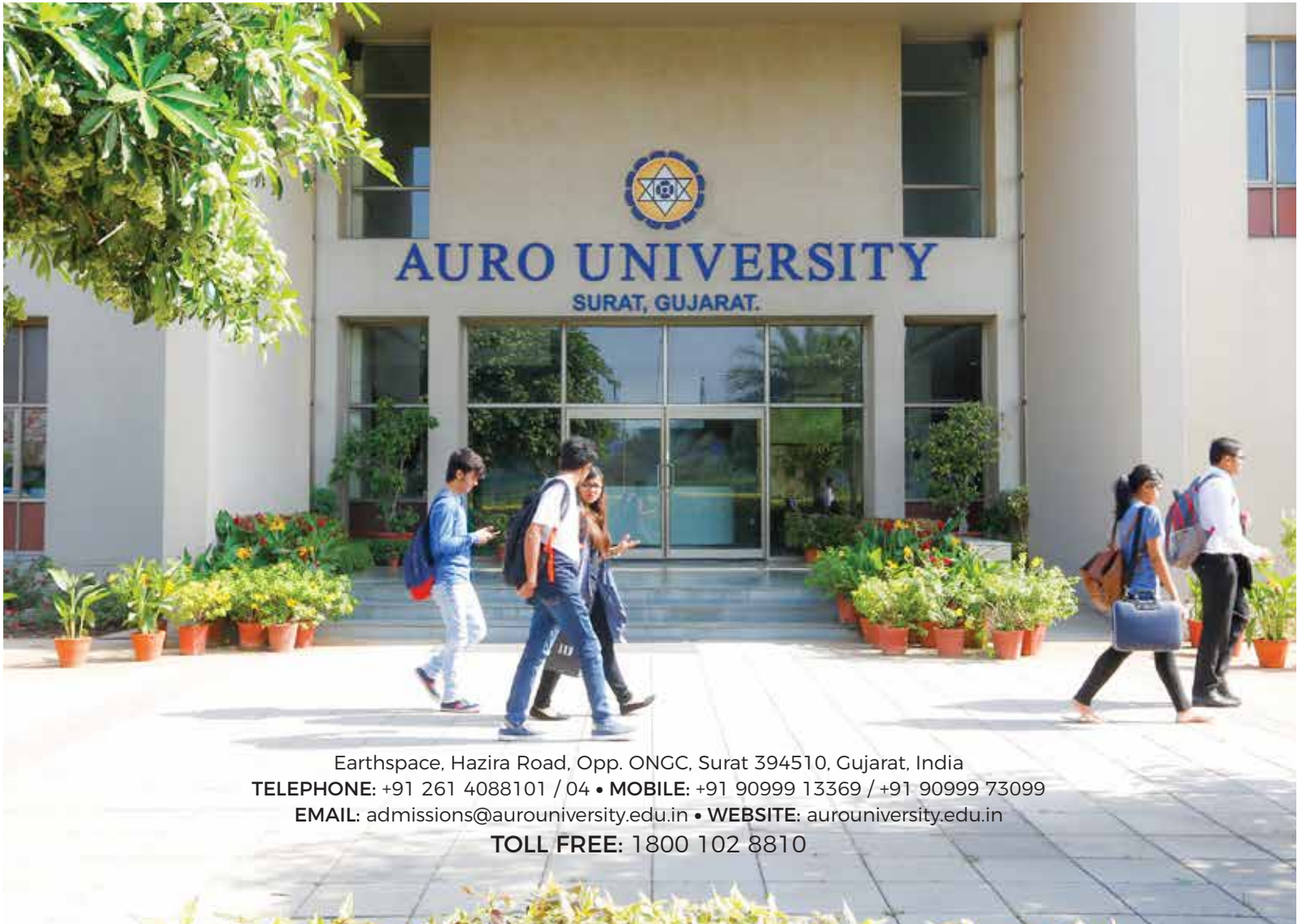
**Mr. Ravi Katare**, Sr. Vice-President, Bank of America, New York, USA.

Training Sessions conducted on “IDA Management on Cloud Computing” by **Mr. Amish Munshi, President & CTO, Kavalus Inc., USA** during for two months in continuation for Live project development for all the Batches of School of IT in AURO University. The training sessions included the latest technologies of Java J2EE- Java security, Restful Web Services, SpringBoot, Docker, Ldap, MongoDB, Redishfor the development of project during the internship provided by Kavalus Inc. Mr. Munshi even collaborated his company with School of IT through MOU for long term relationship in providing such Live Projects & Internship to students of School of IT, AURO University.



**Mr. Amish Munshi**, President & CTO, Kavalus Inc., USA





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