

## B.sc IT

The **B.sc IT** is a three year full-time degree program from Amity University.

| SEMESTER 1   | SEMESTER 2   |
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| IT Fundamentals and C Programming<br>Digital Electronics<br>Basic Mathematics<br>Computational Mathematics<br>Environmental Studies<br>English Language Usage Essentials<br>Understanding Self For Effectiveness<br><u><b>Foreign Language -I</b></u><br><u><b>French:</b></u> Introduction To Francophone Culture<br><u><b>German:</b></u> Introduction To German Culture<br><u><b>Spanish:</b></u> Introduction To Hispanic World<br><u><b>Japanese:</b></u> Introduction To Japanese Culture<br><u><b>Chinese:</b></u> Introduction To Chinese Culture<br><u><b>Arabic:</b></u> Introduction To Arabic Culture<br><u><b>Russian:</b></u> Introduction To Russian Culture<br><u><b>Sanskrit:</b></u> Introduction To Vedic Culture | Operating System Concepts<br>Data Structure Using C<br>Cyber & Information Security<br>Network Basics<br>Accounting Fundamentals<br>Sociology of Change and Development<br>Introduction To Communication Skill<br>Individual, Society and Nation<br>Foreign Language -II<br>French: French Grammar-1<br>German: German Grammar-1<br>Spanish: Spanish Grammar-1<br>Japanese: Japanese Grammar-1<br>Chinese: Chinese Grammar-1<br>Arabic: Arabic Grammar-1<br>Russian: Russian Grammar-1<br>Sanskrit: Sanskrit Grammar-1 |

### Term Paper

| SEMESTER 3   | SEMESTER 4   |
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| Object Oriented Programming Concepts using C++<br>Introduction to Database Management Systems<br>Fundamental of Routing Protocols<br>Computer Architecture and Assembly Language<br>Computer Oriented Numerical Methods<br>Term Paper(Evaluation)<br>Effective Written Communication<br>Problem Solving and Creative Thinking<br><u><b>Foreign Language -III</b></u><br><u><b>French:</b></u> French Written Expression and Comprehension-I<br><u><b>German:</b></u> German Written Expression and Comprehension-I | Software Engineering-I<br>Computer Communications and Networks<br>Internet of Things<br>Introduction to Open Source Technologies(PHP, MySql)<br>Principles of Marketing<br>Professional Communication For Recruitment and Employability<br>Values and Ethics For Personal and Professional Development<br><u><b>Foreign Language -IV</b></u><br><u><b>French:</b></u> Communicative French – I<br><u><b>German:</b></u> Communicative German - I<br><u><b>Spanish:</b></u> Communicative Spanish - I<br><u><b>Japanese:</b></u> Communicative Japanese - I<br><u><b>Chinese:</b></u> Communicative Chinese - I |

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| <p><b>Spanish:</b>Spanish Written Expression and Comprehension-I</p> <p><b>Japanese:</b>Japanese Written Expression and Comprehension-I</p> <p><b>Chinese:</b>Chinese Written Expression and Comprehension-I</p> <p><b>Arabic:</b>Arabic Written Expression and Comprehension-I</p> <p><b>Russian:</b>Russian Written Expression and Comprehension-I</p> <p><b>Sanskrit:</b>Sanskrit Written Expression and Comprehension-I</p> | <p><b>Arabic:</b>Communicative Arabic - I</p> <p><b>Russian:</b> Communicative Russian – I</p> <p><b>Sanskrit:</b>CommunicativeSanskrit - I</p> |
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### Independent Study and Research

| SEMESTER 5  | SEMESTER 6  |
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| <p>Java Programming</p> <p>Unix Operating System and Shell Programming</p> <p><b>Choose any (Choose -Any One) Specialization Electives</b></p> <ul style="list-style-type: none"> <li>• Introduction to Enterprise Resource Planning</li> <li>• Software Engineering-II</li> <li>• Human Computer Interaction</li> <li>• Image Processing</li> <li>• E-Governance</li> <li>• IT - Project Management</li> <li>• Fundamental of Cloud Computing &amp; Enterprise</li> </ul> <p>Independent Study and Research (Evaluation)</p> <p>Receptive and Expressive Communication Skills–III</p> <p>Group Dynamic and Team Building</p> <p><b>Foreign Language –V</b></p> <p><b>French:</b> French Grammar - II</p> <p><b>German:</b> German Grammar - II</p> <p><b>Spanish:</b> Spanish Grammar - II</p> <p><b>Japanese:</b> Japanese Grammar - II</p> <p><b>Chinese:</b> Chinese Grammar - II</p> <p><b>Arabic:</b> Arabic Grammar - II</p> <p><b>Russian:</b> Russian Grammar - II</p> <p><b>Sanskrit:</b> Sanskrit Grammar - II</p> | <p>Data Warehousing and Mining Concepts</p> <p><b>Choose Any Three Specialization Electives</b></p> <ul style="list-style-type: none"> <li>• Animation and Gaming</li> <li>• Fundamentals of E-Commerce</li> <li>• Software Testing Techniques</li> <li>• Multimedia Technologies</li> <li>• Web Technologies and Applications</li> <li>• Object Oriented Analysis and Design</li> <li>• Introduction to Mobile Computing</li> <li>• MATLAB Programming</li> <li>• Visual.net Technologies</li> <li>• Python Programing</li> <li>• Fundamental of Network Security</li> </ul> <p>Major Project</p> <p>Social Communication</p> <p>Stress and Coping Strategies</p> <p><b>Foreign Language –VI</b></p> <p><b>French:</b>French Written Expression and Comprehension - II</p> <p><b>German:</b>German Written Expression and Comprehension-II</p> <p><b>Spanish:</b>Spanish Written Expression and Comprehension-II</p> <p><b>Japanese:</b>Japanese Written Expression and Comprehension-II</p> <p><b>Chinese:</b>Chinese Written Expression and Comprehension-II</p> |

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|  | <p><b><u>Arabic:</u></b>Arabic Written Expression and Comprehension-II</p> <p><b><u>Russian:</u></b>Russian Written Expression and Comprehension-II</p> <p><b><u>Sanskrit:</u></b>Sanskrit Written Expression and Comprehension-II</p> |
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