innovate   achieve   lead

M.Sc.

Information Systems
For Working
Professionals

**WORK
INTEGRATED
LEARNING
PROGRAMMES**

BITS Pilani
Pilani | Dubai | Goa | Hyderabad | Mumbai
An Institution of Eminence

HCL

PROGRAM INTRODUCTION

Information Technology plays a pivotal role in enabling business functions and driving innovation across sectors such as healthcare, governance, and education, leading to a significant demand for proficient Information Systems professionals.

M. Sc. Information Systems programme cultivates critical technical and problem-solving skills, foster effective teamwork, and empower learners to lead projects aimed at solving complex technology-centric challenges.

Humanities

Design

Computers

Mathematics

Computing
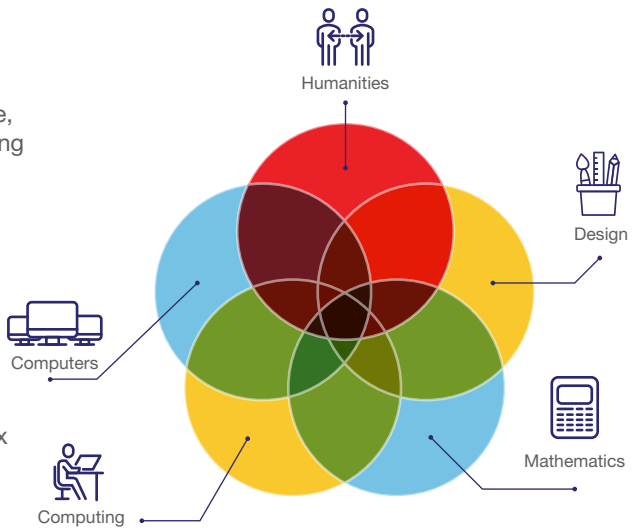
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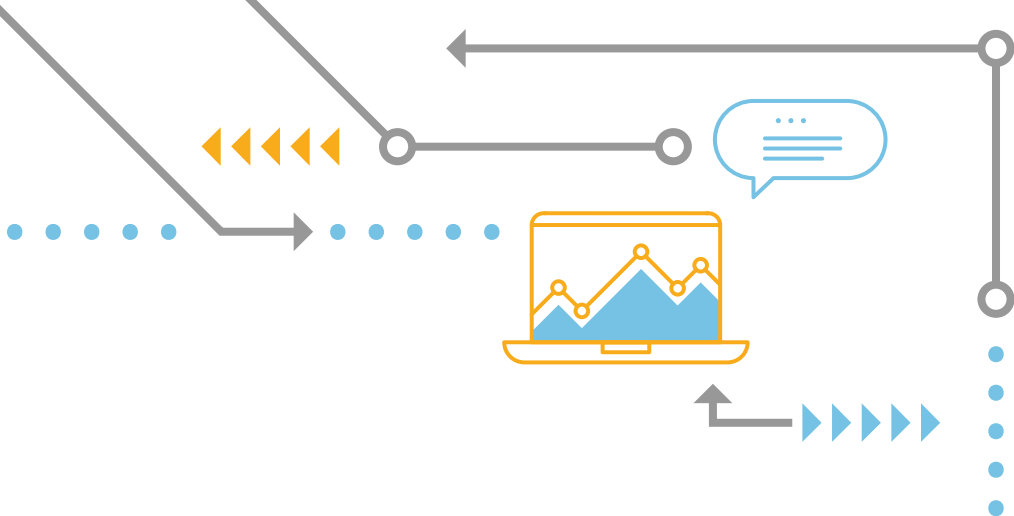
PROGRAMME HIGHLIGHTS

▶ 5 Semester M.Sc. Information Systems programme.

▶ UGC approved programme for Working professionals.

▶ Pursue the programme without any career break.

▶ Online classes conducted mostly on weekends.

▶ Lab exercises include programming, simulations, system analysis, and design. Tools used include Eclipse, MySQL/MongoDB, Star UML, NS2, and Wireshark.

▶ The final semester includes a practical Dissertation (Project Work) for real-world application.

▶ The programme emphasizes experiential learning through labs, assignments, case studies, and integrated work activities.

▶ Become a part of Elite and Global BITS Pilani Alumni community.

▶ Fee submission option using easy - EMI with 0% interest and 0 down payment.

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PROGRAMME OBJECTIVES

▶ This programme aims to fulfill the demand for proficient professionals capable of designing and sustaining Information Systems across diverse domains.

▶ Empower candidates to gain an competitive edge in the IT industry.

STUDENT LEARNING OUTCOMES

UPON PROGRAMME COMPLETION, LEARNERS WILL BE ABLE TO:

▶ Master the basics of computer and software development.

▶ Gain proficiency in various information technologies.

▶ Collaborate effectively within software development and maintenance teams, ensuring the delivery of high-quality software.

▶ Create opportunities for pursuing higher educationbased on use cases and billing plans.

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PROGRAMME CURRICULUM
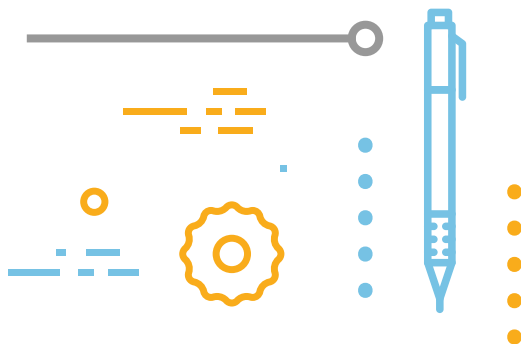
First Semester	Second Semester
Discrete Structures for Computer	Object Oriented Programming & Design
Linear Algebra & Optimization	Systems Programming
Computer Programming	Probability and Statistics
Digital Electronics and Microprocessors	Data Structures and Algorithms
Third Semester	**Fourth Semester**
Computer Organization & Architecture	Compiler Design
Database Systems & Applications	Software Engineering
Operating Systems	Computer Networks
Elective 1	Elective 2
Fifth Semester	
Elective 3	
Elective 4	
Project	

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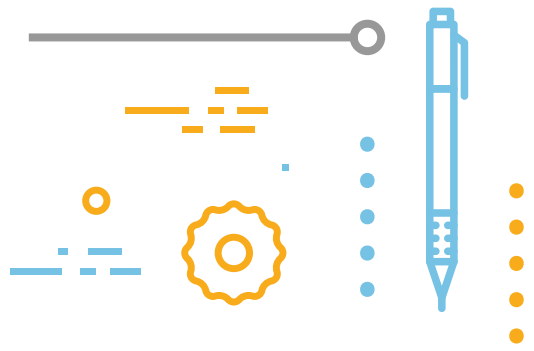
Electives	
Advanced Compilation Techniques	Data Mining
Advanced Operating Systems	Parallel Computing
Artificial Intelligence	Software Development for Portable Devices
Management Information Systems	Software for Embedded Systems
Computer Graphics	Data Storage Technologies & Networks
Multimedia Computing	Network Programming

Choice of Electives is made available to enrolled students at the beginning of each semester.
A limited selection of Electives will be offered at the discretion of the Institute.

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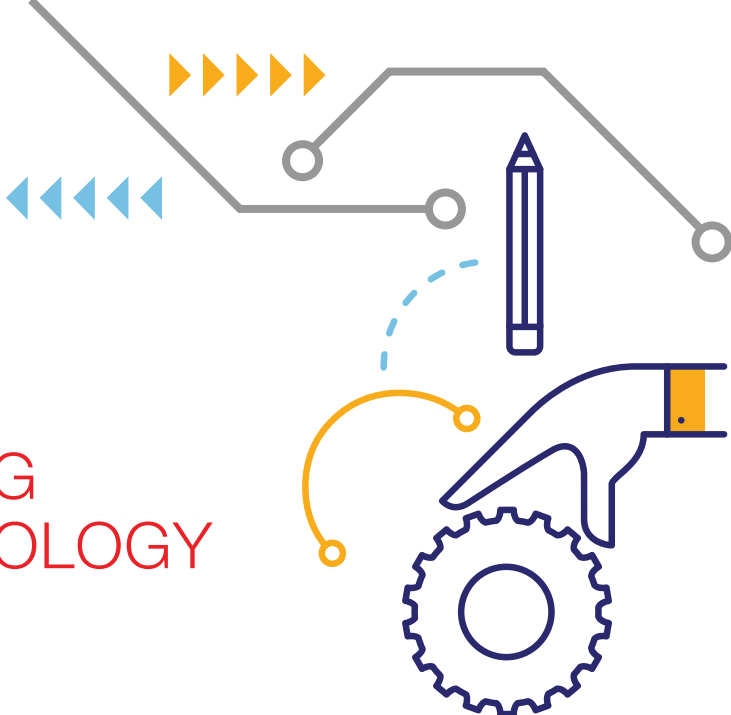
LEARNING METHODOLOGY

Attend online lectures over weekends

- Lectures are conducted live via online classes. These lectures can be attended via the internet using a computer from any location. These online classrooms offer similar levels of interactivity as regular classrooms at the BITS Pilani campus.

- The class schedule is announced within 1 week of completion of the admission process.

- The online lectures are conducted usually over weekends for a total of 7-8 hours per week. If you miss a lecture, you can also access the recorded lecture on the internet.

DIGITAL LEARNING

- Learners can access engaging learning material at their own pace which lecture videos, student notes, curated content etc. for select courses, through a learning management platform that is engaging and mobile-friendly.

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EXPERIENTIAL LEARNING & LABS

The programme emphasises on Experiential Learning that allows learners to apply concepts learnt in classroom in simulated, and real work situations. This is achieved through:

The program prioritizes experiential learning, enabling learners to apply classroom concepts in simulated and real work scenarios through remote and virtual lab exercises.

Tools and Technologies: Lab exercises consist of programming exercises, experiments using simulation tools, analysis and design of systems, etc. Some of the tools used in assignments are MongoDB, Star UML, NS-2 and WireShark.

PROJECT WORK

During the final semester participants carryout a semester-long intensive project work applying the various concepts learnt throughout the program guided by the organisation mentor and supervisor. Participants are provided access to virtual labs where applicable, and faculty expertise to support the project work.

EXAMINATIONS & CONTINUOUS ASSESSMENT

The learners' performance is assessed continuously throughout the semester using various tools such as quiz, assignments, mid-semester and comprehensive exams. The assessment results are shared with the learners to improve their performance.

Each course will entail a minimum of 1 Assignment / Quiz, a mid-semester exam and a final comprehensive exam. Your semester calendar will clearly indicate the dates of the mid-semester and comprehensive exams. Typically, a mid-semester or comprehensive examination for a course is of 2-3 hours duration. The examinations are typically conducted over a weekend, i.e. Saturday and Sunday. These exams will be conducted either at the learners' office premises, or at another suitable location. Details regarding the exam location will be communicated at the beginning of the semester.

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ELIGIBILITY CRITERIA

Minimum eligibility to apply: Professionals employed in Information Technology industries, holding a B.E./M.Sc. degree or its equivalent, with adequate preparation in Mathematics with at least 60% aggregate marks, and minimum 18 months experience within HCL Technologies, are eligible to apply.

The above are only the minimum criteria to apply. The final decision to offer admission to an applicant rests with BITS Pilani which will be made based on an overall review of your application information.

FEE STRUCTURE

The following fees schedule is applicable for candidates seeking new admission during the academic year 2024-2025:

Application Fees (one time)	:INR 1,500
Admission Fees (one time)	:INR 16,500
Semester Fees (per semester)	:INR 66,750

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HOW TO APPLY

▶ Click here to visit the Online Application Center. Create your login at the Online Application Center by entering your official HCL Email ID only and create a password of your choice. Once your login has been created, you can anytime access the Online Application Center using your official email ID and password.

▶ Begin by clicking on Step 1 - 'Fill/ Edit and Submit Application Form'. This will enable you to select the programme of your choice. After you have chosen your programme, you will be asked to fill your details in an online form. You must fill all details and press 'Submit' button given at the bottom of the form.

▶ Now, click on 'Pay Application Fee' to pay INR 1,500/- using Netbanking/ Debit Card/ Credit Card

▶ Finally, click on 'Upload & Submit All Required Documents'. This will allow you to upload one-by-one all the mandatory supporting documents such academic

certificates and transcripts, photograph, etc. and complete the application process. Acceptable file formats for uploading these documents are .DOC, .DOCX, .PDF, .ZIP and .JPEG

▶ Upon receipt of your Application Form and all other enclosures, the Admissions Cell will scrutinise them for completeness, accuracy and eligibility.

▶ Admission Cell will intimate selected candidates by email within two weeks of submission of application with all supporting documents. The selection status can also be checked by logging in to the Online Application Centre.

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DISCLAIMER

Ever since it was declared as a Deemed to be University in 1964, BITS Pilani has been offering higher education programmes in science and technology, and has earned an enviable reputation for its innovations in this sphere. The Work Integrated Learning Programmes (WILP) of BITS Pilani constitutes a unique set of educational offerings for working professionals. These programmes, which BITS began to offer in 1979, have, over the years, evolved along the lines envisaged in the National Policy on Education, 1986.

The WILP are rigorous higher education programmes in technology areas, designed keeping the evolving needs of industry in view, and meant for working professionals in their respective domains. The very intent is to deliver the education at the workplace, in order that the greatest degree of work integration of the education is achieved, and thus the WILP are very distinct in philosophy and pedagogy from open, distance learning programmes. Though it is incorrect and improper, at times the WILP are compared to ODL programmes. Accordingly, it has been our constant endeavor to engage with the regulator, and provide all necessary information about these programmes.

The WILP have been well received, and accepted by industry, because of the high quality of the programmes in terms of the curriculum and the instruction, and also because of the high degree of work integration, which results not only in up gradation of knowledge, but also in up skilling, and productivity increase.