

M.S. Software Systems

- Type of Input:** Employed professionals holding an Integrated First Degree of BITS or its equivalent, with adequate work experience.
- Normal Duration:** Four Semesters
- Special Feature:** This Work Integrated Learning Programme is specially designed for the HRD requirements of a diverse spectrum of IT Industries.

Semesterwise pattern for students admitted in the First Semester of the academic session

Course No.	Course Title	Units
First Year First Semester		
SS ZG514	Object Oriented Analysis & Design	4
SS ZG562	Software Engineering & Management	5
SS ZG519	Data Structures & Algorithms Design	5
SS ZG518	Database Design & Applications	5
First Year Second Semester		
IS ZC415	Data Mining	3
	<i>Elective 1</i>	
	<i>Elective 2</i>	
	<i>Elective 3</i>	
Second Year First Semester		
SS ZG515	Data Warehousing	5
SS ZG653	Software Architectures	5
	<i>Elective 4</i>	
	<i>Elective 5</i>	
Second Year Second Semester		
BITS ZG629T	Dissertation	20

Semesterwise pattern for students admitted in the Second Semester of the academic session

Course No.	Course Title	Units
First Year First Semester		
SS ZG514	Object Oriented Analysis & Design	4
SS ZG562	Software Engineering & Management	5
SS ZG519	Data Structures & Algorithms Design	5
SS ZG518	Database Design & Applications	5
First Year Second Semester		
SS ZG515	Data Warehousing	5
SS ZG653	Software Architectures	5
	<i>Elective 1</i>	
	<i>Elective 2</i>	
Second Year First Semester		
IS ZC415	Data Mining	3
	<i>Elective 3</i>	
	<i>Elective 4</i>	
	<i>Elective 5</i>	
Second Year Second Semester		
BITS ZG629T	Dissertation	20

Pool of Electives

Course No.	Course Title	Units
BITS ZC463	Cryptography	3
BITS ZC481	Computer Networks	3
BITS ZG553	Real Time Systems	5
BITS ZG659	Technical Communication	4
CS ZG525	Advanced Computer Networks	5
CS ZG623	Advanced Operating Systems	5
EA ZC473	Multimedia Computing	3
EEE ZG512	Embedded System Design	4
EEE ZG582	Telecom Network Management	5
IS ZC424	Software for Embedded Systems	3
IS ZC446	Data Storage Technologies & Networks	3
IS ZC462	Network Programming	3
SS ZG513	Network Security	4
SS ZG516	Computer Organization & Software Systems	5
SS ZG521	Advanced Data Mining	4
SS ZG527	Cloud Computing	5
SS ZG531	Pervasive Computing	4
SS ZG552	Software Testing Methodologies	4
SS ZG622	Software Project Management	4

Note: This is the currently operative pattern as approved by the Senate-appointed committee, subject to change if the situation warrants.