

**Graduate attributes for the BSC IT Program**

Sr No	Program	Semester	Course Name	Critical Thinking					Application Tool and Techniques	Interpretative proficiency	Communication Skills (Visual Communication (Ideas can be converted to Visual aids))	Writing Skills (Report writing ability, problem design ability)	Creativity (Innovation and Conceptualization)	Scholarship		Ethical Responsibility	
				Knowledge base for Information Technology	Problem Analysis	Solution Development	Investigation of Complex problem							Interdisciplinary	Life-long learning	Social Environmental awareness	Community engagement
1		SEM I	Imperative Programming		✓	✓			✓								
2		SEM I	Digital Electronics	✓		✓		✓		✓						✓	✓
3		SEM I	Operating Systems	✓				✓	✓								
4		SEM I	Discrete Mathematics	✓	✓			✓	✓								
5		SEM I	Communication Skills	✓				✓	✓		✓			✓	✓	✓	✓
6		SEM I -Practical	Imperative Programming Practica	✓	✓	✓		✓	✓								
7		SEM I -Practical	Digital Electronics Practical	✓	✓	✓		✓	✓								
8		SEM I -Practical	Operating Systems Practical	✓	✓	✓		✓	✓								
9		SEM I -Practical	Discrete Mathematics Practical	✓	✓	✓		✓	✓								
10		SEM I -Practical	Communication Skills Practical	✓	✓	✓		✓	✓		✓			✓	✓	✓	✓
11		Sem II	Object oriented Programming	✓	✓	✓		✓	✓								
12		Sem II	Microprocessor Architecture	✓	✓			✓	✓							✓	✓
13		Sem II	Web Programming	✓				✓	✓		✓						✓
14		Sem II	Numerical and Statistical Methods	✓	✓			✓	✓								
15		Sem II	Green Computing	✓	✓			✓	✓		✓				✓	✓	✓
16		SEM II-Practical	Object Oriented Programming Practical	✓	✓	✓		✓	✓								
17		SEM II-Practical	Microprocessor Architecture Practical	✓	✓	✓		✓	✓								✓
18		SEM II-Practical	Web Programming Practical					✓	✓								
19		SEM II-Practical	Numerical and Statistical Methods Practical	✓		✓		✓	✓								
20	FYIT	SEM II-Practical	Green Computing Practical		✓	✓		✓	✓							✓	✓
21		Sem III	Python Programming	✓	✓	✓		✓	✓		✓			✓	✓	✓	✓
22		Sem III	Data Structures	✓	✓	✓		✓	✓		✓						
23		Sem III	Computer Networks	✓	✓	✓		✓	✓		✓						
24		Sem III	Database Management Systems	✓	✓	✓		✓	✓					✓	✓		
25		Sem III	Applied Mathematics	✓	✓	✓		✓	✓								
26		Sem III-Practical	Python Programming Practical	✓	✓	✓		✓	✓								
27		Sem III-Practical	Data Structures Practical	✓	✓	✓		✓	✓		✓						
28		Sem III-Practical	Computer Networks Practical	✓	✓	✓		✓	✓							✓	✓
29		Sem III-Practical	Database Management Systems Practical	✓	✓	✓		✓	✓		✓			✓	✓		✓
30		Sem III-Practical	Mobile Programming Practical	✓	✓	✓		✓	✓		✓			✓	✓		✓
31		SEM IV	Core Java	✓	✓	✓		✓	✓								
32		SEM IV	Introduction to Embedded Systems	✓	✓	✓		✓	✓							✓	✓
33		SEM IV	Computer Oriented Statistical Techniques	✓	✓	✓		✓	✓								
34		SEM IV	Software Engineering	✓	✓	✓		✓	✓					✓			✓
35		SEM IV	Computer Graphics and Animation	✓	✓	✓		✓	✓		✓						
36		Sem IV-Practical	Core Java Practical	✓	✓	✓		✓	✓								
37		Sem IV-Practical	Introduction to Embedded Systems Practical		✓	✓		✓	✓								
38		Sem IV-Practical	Computer Oriented Statistical Techniques Practical	✓	✓	✓		✓	✓								
39		Sem IV-Practical	Software Engineering Practical		✓	✓		✓	✓								
40	SYIT	Sem IV-Practical	Computer Graphics and Animation Practical	✓	✓	✓		✓	✓								
41		Sem V	Software Project Management	✓	✓	✓		✓	✓								
42		Sem V	Internet of Things	✓	✓	✓		✓	✓								
43		Sem V	Advanced Web Programming	✓	✓	✓		✓	✓		✓						✓
44		Sem V	Artificial Intelligence	✓	✓	✓		✓	✓		✓			✓	✓		✓
45		Sem V	Enterprise Java	✓	✓	✓		✓	✓								
46		Sem V-Practical	Project Dissertation	✓	✓	✓		✓	✓								
47		Sem V-Practical	Internet of Things Practical	✓	✓	✓		✓	✓					✓			
48		Sem V-Practical	Advanced Web Programming Practical 2	✓	✓	✓		✓	✓		✓						
49		Sem V-Practical	Artificial Intelligence Practical 2	✓	✓	✓		✓	✓					✓			✓
50		Sem V-Practical	Enterprise Java Practical 2	✓	✓	✓		✓	✓								
51		Sem VI	Software Quality Assurance	✓	✓	✓		✓	✓								
52		Sem VI	Security in Computing	✓	✓	✓		✓	✓					✓			
53		Sem VI	Business Intelligence	✓	✓	✓		✓	✓					✓			✓
54		Sem VI	Principles of Geographic Information Systems	✓	✓	✓		✓	✓		✓						
55		Sem VI	Enterprise Networking	✓	✓	✓		✓	✓								
56		Sem VI	IT Service Management	✓	✓	✓		✓	✓								
57		Sem VI	Cyber Laws	✓	✓	✓		✓	✓		✓						
58		Sem VI-Practical	Project Implementation 2	✓	✓	✓		✓	✓								
59		Sem VI-Practical	Security in Computing Practical 2	✓	✓	✓		✓	✓					✓			
60		Sem VI-Practical	Business Intelligence Practical 2	✓	✓	✓		✓	✓					✓			
61		Sem VI-Practical	Principles of Geographic Information Systems Practical	✓	✓	✓		✓	✓		✓						
62		Sem VI-Practical	Enterprise Networking Practical	✓	✓	✓		✓	✓								
63	TYIT	Sem VI-Practical	Advanced Mobile Programming	✓	✓	✓		✓	✓		✓						