

Course wise Graduate Attribute selection for B.Sc. I.T. program.
This matrix is the base for computing level of attainment.

r No	Program	Semester	Course Name	Graduate attributes for the BSC IT Program						Communication Skills		Creativity Innovation and Conceptualization	Scholarship		Ethical Responsibility	
				Knowledge base for Information Technology	Problem Analysis	Solution Development	Critical Thinking Investigation of Complex problem	Application Tool and Techniques	Interpretative proficiency	Visual Communication (Ideas can be converted to Visual aids)	writing skills (Report writing ability, problem design ability)		Interdisciplinarity	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-Pr	Imperative Programming Practical	✓	✓	✓		✓	✓	✓			✓	✓	✓	✓
7		SEM I-Pr	Digital Electronics Practical	✓	✓	✓		✓	✓							
8		SEM I-Pr	Operating Systems Practical	✓	✓	✓		✓	✓							
9		SEM I-Pr	Discrete Mathematics Practical	✓	✓	✓		✓	✓							
10		SEM I-Pr	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-Pr	Object Oriented Programming Practical	✓	✓	✓		✓	✓	✓				✓	✓	✓
17		SEM II-Pr	Microprocessor Architecture Practical	✓	✓	✓		✓	✓							
18		SEM II-Pr	Web Programming Practical	✓	✓	✓		✓	✓							✓
19		SEM II-Pr	Numerical and Statistical Methods Practical	✓	✓	✓		✓	✓							
20	FYIT	SEM II-Pr	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-Pr	Python Programming Practical	✓	✓	✓	✓	✓	✓							
27		Sem III-Pr	Data Structures Practical	✓	✓	✓	✓	✓	✓							
28		Sem III-Pr	Computer Networks Practical	✓	✓	✓	✓	✓	✓							
29		Sem III-Pr	Database Management Systems Practical	✓	✓	✓	✓	✓	✓							✓
30		Sem III-Pr	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-Pr	Core Java Practical	✓	✓	✓	✓	✓	✓							
37		Sem IV-Pr	Introduction to Embedded Systems Practical	✓	✓	✓	✓	✓	✓							
38		Sem IV-Pr	Computer Oriented Statistical Techniques Practical	✓	✓	✓	✓	✓	✓							
39		Sem IV-Pr	Software Engineering Practical	✓	✓	✓	✓	✓	✓							
40	SYIT	Sem IV-Pr	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-Pr	Project Dissertation	✓	✓	✓	✓	✓	✓							
47		Sem V-Pr	Internet of Things Practical	✓	✓	✓	✓	✓	✓							
48		Sem V-Pr	Advanced Web Programming Practical 2	✓	✓	✓	✓	✓	✓							
49		Sem V-Pr	Artificial Intelligence Practical 2	✓	✓	✓	✓	✓	✓							
50		Sem V-Pr	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-Pr	Project Implementation 2	✓	✓	✓	✓	✓	✓							
59		Sem VI-Pr	Security in Computing Practical 2	✓	✓	✓	✓	✓	✓							
60		Sem VI-Pr	Business Intelligence Practical 2	✓	✓	✓	✓	✓	✓							
61		Sem VI-Pr	Principles of Geographic Information Systems Practical	✓	✓	✓	✓	✓	✓							
62		Sem VI-Pr	Enterprise Networking Practical	✓	✓	✓	✓	✓	✓							
63	TYIT	Sem VI-Pr	Advanced Mobile Programming	✓	✓	✓	✓	✓	✓							

