

# BITS Pilani Dubai Campus, Dubai, UAE

Semester-wise pattern for Students Admitted to Higher Degree Program in the First Semester

## M.E. Software Systems

Year	I Semester				U	II Semester				U	Summer Term			U	
I	BITS	G659	Technical Communication	4	11	BITS	G620	Professional Practice I	3	13					
	BITS	C481	Computer Networks	3		SS	G562	Software Engineering & Management	5		SS	G516	Computer Organization and Software Systems	5	
	SS	G514	Object Oriented Programming & Design	4		SS	G515	Data Warehousing	5		SS	G653	Software Architecture	5	
				11					13					10	
II	BITS	G621	Professional Practice II	3	11 (min.)	BITS	G629T	Dissertation	10	13 (min.)	BITS	G629T	Dissertation	7	
	SS	G531	Pervasive Computing 1 Elective	5 *				1 Elective	*						7
				11 (min.)					13 (min.)						7

\* Minimum 3 Units each Elective

### Pool of Electives (Any two from the following)

Elective offerings are subject to availability of (i) faculty who can offer the elective and (ii) the minimum viable no. of students opting for the elective

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| <ol style="list-style-type: none"> <li>1. BITS C463 Cryptography 3 0 3</li> <li>2. BITS C464 Machine Learning 3 0 3</li> <li>3. BITS G553 Real Time Systems 5</li> <li>4. BITS G554 Data Compression 3 2 5</li> <li>5. EA C451 Internetworking Technologies 3 0 3</li> <li>6. EA C473 Multimedia Computing 3 0 3</li> <li>7. EEE G512 Embedded System Design 4</li> <li>8. IS C415 Data Mining 3 0 3</li> <li>9. IS C422 Parallel Computing 3 0 3</li> <li>10. IS C424 Software for Embedded System 3 0 3</li> <li>11. IS C446 Data Storage Technologies &amp; Networks 3 0 3</li> <li>12. IS C462 Network Programming 3 0 3</li> <li>13. IS C471 Computer Graphics 2 2 3</li> <li>14. IS C481 Graphical User Interfaces 3 0 3</li> <li>15. ITEB G621 Supply Chain Management 4</li> </ol> | <ol style="list-style-type: none"> <li>16. SS G512 Object Oriented Programming 4</li> <li>17. SS G513 Network Security 4</li> <li>18. SS G517 Data Structures and Algorithm Analysis 5</li> <li>19. SS G518 Database Design &amp; Application 5</li> <li>20. SS G522 Software Development Standards 4</li> <li>21. SS G532 Information Theory 4</li> <li>22. SS G541 User Interfaces 4</li> <li>23. SS G542 Knowledge Management 3</li> <li>24. SS G551 Advanced Compilation Techniques 5</li> <li>25. SS G552 Software Testing Methodologies 4</li> <li>26. SS G554 Distributed Data Systems 3 2 5</li> <li>27. SS G624 Computer Based Simulation and Modelling 5</li> <li>28. SS G641 Management Information and Decision Support Systems 5</li> </ol> |
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- Note:**
1. Semester wise pattern given above is as suggested by the appropriate Senate-appointed committee, subject to change if the situation warrants.
  2. Pool of Electives listed above are currently approved by Senate, subject to change if the situation warrants.
  3. Upon comparing the student's input degree curriculum with BITS degree curriculum, if a student is found to be inadequately prepared, one or more Deficiency courses may be prescribed and added to the courses of the Semester wise pattern (Chart) given above.