

BITS Pilani Dubai Campus, Dubai, UAE

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

M.E. Design Engineering

Year	I Semester				U	II Semester				U	Summer Term			U
I	BITS	G659	Technical Communication	4		BITS	G620	Professional Practice I	3					
	DE	G611	Dynamics & Vibration	5		ME	G512	Finite Element Methods	5		ME	G521	Mechanical System Design	5
	ME	G511	Mechanisms & Robotics	5		DE	G631	Materials Technology & Testing	5		ME	G611	Computer Aided Analysis and Design	5
				14					13					10
II	BITS	G621	Professional Practice II	3		BITS	G629T	Dissertation	10		BITS	G629T	Dissertation	7
	DE	G611	Product Design 1 Elective	5 *				1 Elective	*					
				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

1. DE G513 Tribology 5
2. DE G514 Fracture Mechanics 5
3. DE G521 Instrumentation and Applied Electronics 5
4. DE G522 Design Projects 5
5. EA C415 Introduction to MEMS 4
6. MSE G511 Mechatronics 5
7. MSE G531 Concurrent Engineering 5
8. MST G511 Nondestructive Testing Techniques 3 2 5
9. MST G522 Advanced Composites 5
10. MST G531 Experimental Stress Analysis Techniques 5

- 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.