TENTATIVE **BITS Pilani Dubai Campus, Dubai, UAE**

SEMESTERWISE CHART FOR M.E. DESIGN ENGINEERING

(Operative from I Sem. Academic Year 2011-12 onwards; Ref.:- Base charts as approved by Senate 159 and Senate 160)

			I SEMESTER				II SEMESTER	

YEAR	COURSE NO.		COURSE TITLE	UNITS	COURSE NO		COURSE TITLE	UNITS
I	DE	G531	PRODUCT DESIGN	5	DE	G611	DYNAMICS & VIBRATION	5
	ME	G611	COMPUTER AIDED ANALYSIS & DESIGN	5	ME	G511	MECHANISMS & ROBOTICS	5
	ME	G512	FINITE ELEMENT METHOD	5			ELECTIVE	3 to 5
			ELECTIVE	3 to 5			ELECTIVE	3 to 5
II	DE	G631	MATERIALS TECHNOLOGY & TESTING	5	BITS	G629T	DISSERTATION	16
	BITS	G540	RESEARCH PRACTICE	4			OR	
			ELECTIVE	3 to 5	BITS	G639	PRACTICE SCHOOL	20
			ELECTIVE	3 to 5				

Pool of Electives (Any five 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 3 2 5
2 DE G514 Fracture Mechanics 3 2 5
3 DE G522 Design Projects 3 2 5
4 EA C415 Introduction to MEMS 3 1 4
5 ME F423 Micro Fluidics and its Application 4
6 ME G612 Plastics Engineering 3 2 5
7 ME G535 Advanced Engineering Mathematics 3 2 5
8 ME G515 Computational Fluid Dynamics 3 2 5

9 ME G521 Mechanical System Design 3 2 5
10 ME G532 Machine Tool Engineering 3 2 5
11 ME G641 Theory of Elasticity and Plasticity 3 2 5
12 MSE G511 Mechatronics 3 2 5
13 MSE G531 Concurrent Engineering 3 2 5
14 MST G511 Nondestructive Testing Techniques 3 2 5
15 MST G522 Advanced Composites 3 2 5
16 MST G531 Experimental Stress Analysis Techniques 3 2 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