MBLS-102 Course content schedule 2024-2025

Date	Subjects	Book	Exercises
10-9	- vectors	16.1 - 16.3,	16.11 : 1, 2, 3(i,ii), 4(i,ii), 6, 7, 9, 11,
	- dot products	16.5, 16.6	19, 21, 22, 23, 24, 27
12-9	- revision algebra	2.1 - 2.6,	2.9 : 10, 12, 14, 16, 20, 24, 26, 32, 34
	- revision trigonometry	3.1, 3.2, 3.4, 3.5,	3.10 : 3, 4, 6, 8, 12, 20, 24, 27, 28,
	- revision polar coordinates	3.6 - 3.8,	29, 30, 39, 40, 42
	- revision logarithm	4.1 - 4.6	4.13 : 24, 26, 27, 28, 30, 32, 38, 43,
	- revision derivatives		44, 54
17-9	- implicit derivative	4.7, 4.10	4.13 : 66, 67, 68, 79, 80, 81, 85, 86
	- revision optimization	5.1 - 5.4, 5.6 -	5.9 : 3, 8, 10, 12, 17, 20, 26, 30, 31,
	- revision integration	5.8	35, 37, 38, 49, 51(i),(ii),(iii)
19-9	- integration techniques:	6.3, 6.4, 6.6	6.8 : 11, 12, 13, 16, 17, 19, 20, 21,
	substitution, partial, and		27, 35,
	partial fraction decomposition		45, 48, 49, 63, 64, 66 (feel free to
			practice with similar exercises)
24-9	- differential equations:	11.1 - 11.5	11.8 : 6, 10, 12, 13, 14, 16, 17, 18,
	separable & linear		19, 20, 22, 30, 31, 32, 33, 34, 35, 36,
			37
1-10	- Maclaurin sequence	4.9, 7.6	4.13 : 74, 76
	- cross product		7.9 : 58, 59, 61, 65, 72 (i) en (ii)
			16.11 : 31, 33, 34, 35, 37
8-10	- complex numbers	8.1, 8.2, 8.3	8.8: 3, 4, 5, 7, 8, 10, 12, 13, 14, 16,
		(excl. de	19, 20, 23, 25, 30, 31, 32, 34, 35,
		Moivre's -	36, 40, 42
		formula), 8.5	
15-10	- permutations and	21.5, 21.6 ,	21.12 : 12, 13, 16, 17, 18, 19, 20, 21,
	combinations	21.10	22, 26, 27
	- binomial distribution		
	- least squares		
22-10	- functions of multiple	9.1, 9.2, 9.3, 9.5	9.12 : 1, 4, 5, 6, 7, 8, 11, 14, 17, 18,
	variables		32, 35, 36
	- partial derivatives		
	- total differential		