

Summary of Lesson Plans of College Faculty

Name of College: A.M.M.B. Academic Session: 2017-18 Semester: Odd/Even For the month of July to Nov.

S No.	Name of Assistant / Associate Professor	Subject	Topics / Chapters to be covered	Academic activity to be organized	Topic of Assignments / Tests to be given to the students
1.	Summan Vats	Mathematics (Mechanics)	Aug. Calculus of variations Isoperimetric problems, brachistochrone, Euler's Equation, September Moment and Product of inertia, Angular momentum, Equimomental Systems, Coplanar Distri.	Seminars on angular momentum.	① Test on calculus of variations.
			October Generalized Co-ordinates, Lagrange's Equations, Hamilton canonical Equations		
			November Poisson Bracket, Identities, Hamilton's Principal Functions Brackets, Canonical Transformations,		② Test on Poisson Brac

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1.	Suman Vats	Mathematics B.C.A.I	<p><u>August</u> Sets, Its applications, Determinants, Matrices, Gramer's rule <u>September</u> Relations and functions Limit and continuity. <u>October</u> Differentiation of functions, logarithmic Differentiation, <u>November</u> Integration - Indefinite and definite Integrals.</p>	<p>Presentation on Indefinite Integration</p>	<p>① Test on sets. ② Test on limits Assignment on Integration</p>

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1.	Suman Vats	Mathematics	<u>August</u> Formation, order degree P.D.E, complete solution, singular soln. and general soln.		Test on
		P.D.E.	<u>September</u> Linear P.D.E of second and higher order, classification of P.D.E Hyperbolic, Parabolic Elliptic, Canonical form.		Classification of P.D.E.
		B.A. IInd	<u>October</u> Characteristic curves of 2nd order P.D.E. Solution of Laplace's Wave Equation, Heat Equations		② Test on solution of wave equations

S. Vats

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	Suman Vats.	Maths	Oct - Nov.	• Presentation	
		Statics	Virtual work	on Virtual	Assignment
		B. A. Ind	forces in three dimensions.	work	on Virtual
			wrenches, pull		work.
			lines and planes.		

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	Suman Vats	Mathematic	<u>August</u> Normed linear spaces, Banach spaces, Halders and Minkowski Inequality, completeness of L^p, R^n, C^n and $C[a,b]$.		Test on Normed linear spaces.
		Functional Analysis	<u>September</u> Finite dimensional Normed linear spaces, conjugate spaces, Hahn-Banach Extension Thm.		
			<u>October</u> Riesz Thm on L^p and $C[a,b]$ Second conjugate spaces, Projections, closed Graph Thm, open mapping Thm.		② Test on Projections

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	S. Vats	Functional	NOV.	Presentation	
		Analysis	Equivalent norms weak and strong convergence, compact operators and its relation with continuous operator.	on weak and strong convergence	Assignment on conjugate spaces.

S. Vats