



G H RAISONI COLLEGE OF ENGINEERING NAGPUR

(An Autonomous Institute affiliated to Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur)

CRPF Gate No.3, Hingna Road, Digdoh Hills, Nagpur. Maharashtra-440016 (India)

Course wise Teaching Plan for Session : Summer Term 2018

Course : Differential Calculus

Faculty : aadeshpande - Archana A.

Deshpande

Unit	Topic Code	Topic Covered	Date	Course	Section
5	1	Matrices-I: Inverse of matrix by adjoint method. Solution of simultaneous equations by adjoint method.	02/05/2018	BAML101	A
1	1	Discussion of syllabus COs ,TAEs and CAEs	02/05/2018	BAML101	A
5	2	Rank of matrix	02/05/2018	BAML101	A
5	3	Consistency of system of equations.	03/05/2018	BAML101	A
5	4	Consistency of system of equations.	03/05/2018	BAML101	A
5	1	Tutorial-1	07/05/2018	BAML101	A
5	2	Tutorial-2	07/05/2018	BAML101	A
5	5	Linear dependence.	08/05/2018	BAML101	A
5	6	Linear & orthogonal transformations.	08/05/2018	BAML101	A
5	7	Inverse of matrix by partitioning method.	09/05/2018	BAML101	A
5	8	Matrices-II : Characteristics equation.	09/05/2018	BAML101	A
6	9	Eigen values & Eigen vectors.	10/05/2018	BAML101	A
6	10	Reduction to diagonal form	10/05/2018	BAML101	A
6	3	Tutorial-3	14/05/2018	BAML101	A
6	4	Tutorial-4	14/05/2018	BAML101	A
6	11	Cayley Hamilton theorem (statement & verification).	15/05/2018	BAML101	A
6	12	Sylvester's theorem	15/05/2018	BAML101	A
6	13	Association of matrices with linear differential equations of second order with a constant coefficients	16/05/2018	BAML101	A
6	14	Sequence and Series: Convergence ,Divergence and Oscillation of sequence	16/05/2018	BAML101	A
1	15	Infinite series, Geometric series , Coverage of series ,	17/05/2018	BAML101	A



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1	16	Tests of convergence of series : Cauchy's integral test,	17/05/2018	BAML101	A
1	5	Tutorial-5	21/05/2018	BAML101	A
1	6	Tutorial-6	21/05/2018	BAML101	A
1	17	Comparison Test,	22/05/2018	BAML101	A
1	18	Ratio Test.	22/05/2018	BAML101	A
1	19	Differential Calculus: Successive differentiation.	23/05/2018	BAML101	A
2	20	Taylor's and Maclaurin series for one variable.	23/05/2018	BAML101	A
2	21	Taylor's and Maclaurin series for one variable.	24/05/2018	BAML101	A
2	22	Indeterminate forms	24/05/2018	BAML101	A
2	7	Tutorial-7	28/05/2018	BAML101	A
3	8	Tutorial-8	28/05/2018	BAML101	A
2	23	Indeterminate forms	29/05/2018	BAML101	A
2	24	Indeterminate forms	29/05/2018	BAML101	A
2	25	Curvature and radius of curvature	30/05/2018	BAML101	A
2	26	Curvature and radius of curvature	30/05/2018	BAML101	A
2	27	Centre of curvature.	31/05/2018	BAML101	A
2	28	Circle of curvature.	31/05/2018	BAML101	A
4	29	Euler's theorem	04/06/2018	BAML101	A
4	30	Chain rules	04/06/2018	BAML101	A
4	31	Chain rules	05/06/2018	BAML101	A
4	32	Total differential coefficient	05/06/2018	BAML101	A
4	33	Total differential coefficient	06/06/2018	BAML101	A



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4	34	Partial Differentiation (Jacobian): Jacobian	06/06/2018	BAML101	A
3	35	Jacobian	07/06/2018	BAML101	A
3	36	Taylor's and Maclaurin series for function of two variables	07/06/2018	BAML101	A