



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 : Integral Calculus

Faculty : rpgupta - Mrs. Rajshri P. Gupta

Unit	Topic Code	Topic Covered	Date	Course	Section
3	1	First order first degree differential equations	02/05/2018	BAML110	A
3	2	Linear differential equations	02/05/2018	BAML110	A
3	3	Reducible to linear differential equations	03/05/2018	BAML110	A
3	4	Exact differential equations	03/05/2018	BAML110	A
3	5	Higher order linear differentialequations with constant coefficients	07/05/2018	BAML110	A
3	6	Higher order linear differentialequations with constant coefficients	07/05/2018	BAML110	A
3	7	Higher order linear differentialequations with constant coefficients	08/05/2018	BAML110	A
3	8	General Method	08/05/2018	BAML110	A
3	9	Method of variation of parameters	09/05/2018	BAML110	A
4	10	Cauchy's homogeneous differential equations	09/05/2018	BAML110	A
4	11	Legendre homogeneous differential equations	10/05/2018	BAML110	A
4	12	Simultaneous differential equations	10/05/2018	BAML110	A
4	13	Special types of differential equations	14/05/2018	BAML110	A
4	14	Application of differential equations to various engineering problems.	14/05/2018	BAML110	A
1	15	Integral Calculus:Gamma function	15/05/2018	BAML110	A
1	16	Beta function	15/05/2018	BAML110	A
1	17	Differentiation under integral sign	16/05/2018	BAML110	A
1	18	Tracing of curves	16/05/2018	BAML110	A
1	19	Quadrature	17/05/2018	BAML110	A
1	20	volumes and Surface of solids of revolutions	17/05/2018	BAML110	A



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2	21	Multiple Integral :Elementary double integrals	21/05/2018	BAML110	A
2	22	Change of order of integration	21/05/2018	BAML110	A
2	23	Applications to mass	22/05/2018	BAML110	A
2	24	Applications to area	22/05/2018	BAML110	A
2	25	Applications to volume	23/05/2018	BAML110	A
2	26	Applications to center of gravity	23/05/2018	BAML110	A
2	27	Elementary triple integrals	24/05/2018	BAML110	A
5	28	Vector Differentiation: Review of Scalar triple product.	24/05/2018	BAML110	A
5	29	Vector triple product.	28/05/2018	BAML110	A
5	30	Differentiation of vectors	28/05/2018	BAML110	A
5	31	Gradient of scalar point function	29/05/2018	BAML110	A
5	32	Directional derivatives	29/05/2018	BAML110	A
5	33	Divergence and Curl of vector point function	30/05/2018	BAML110	A
5	34	Divergence and Curl of vector point function	30/05/2018	BAML110	A
5	35	Solenoidal motion	31/05/2018	BAML110	A
5	36	Irrotational motion	31/05/2018	BAML110	A
6	37	Vector Integration: line integrals	04/06/2018	BAML110	A
6	38	Line integrals	04/06/2018	BAML110	A
6	39	Surface integrals	05/06/2018	BAML110	A
6	40	Volume integrals	05/06/2018	BAML110	A
6	41	Green's theorem in plane	06/06/2018	BAML110	A
6	42	Gauss divergence theorem	06/06/2018	BAML110	A



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6	43	Gauss divergence theorem	07/06/2018	BAML110	A
6	44	Stoke's theorem	07/06/2018	BAML110	A