



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 : Mathematical Applications in Electrical Engineering

Faculty : nvvaidya - Nalini V. Vaidya

Unit	Topic Code	Topic Covered	Date	Course	Section
1	1	Laplace Transform : Definition and its simple properties	03/05/2018	BAML202	A
1	2	Transform of derivatives and integrals	03/05/2018	BAML202	A
1	3	Evaluation of integrals by L.T. ,inverse L.T.& its properties	05/05/2018	BAML202	A
1	4	Convolution theorem	05/05/2018	BAML202	A
1	5	Laplace transforms of periodic function & unit step function	07/05/2018	BAML202	A
1	5	Laplace transforms of periodic function & unit step function	07/05/2018	BAML202	A
1	7	Application of Laplace transform to solve ordinary differential equation	08/05/2018	BAML202	A
1	7	Application of Laplace transform to solve ordinary differential equation	08/05/2018	BAML202	A
2	9	Properties of Z-transform	10/05/2018	BAML202	A
2	9	Properties of Z-transform	10/05/2018	BAML202	A
2	11	More examples on Inverse Z-transform	12/05/2018	BAML202	A
2	12	Inverse & relation with Laplace transform	12/05/2018	BAML202	A
2	13	Application of Z- transform to solve difference equation with constant coefficients	14/05/2018	BAML202	A
3	14	Complex Variables : Analytic Functions	14/05/2018	BAML202	A
3	15	Cauchy Riemann conditions	15/05/2018	BAML202	A
3	16	Complex Variables : Conjugate functions	15/05/2018	BAML202	A
3	17	Singularities. Cauchy's integral theorem and integral formula (Statement only).	17/05/2018	BAML202	A
3	18	Complex Variables : Taylor's and Laurentz's Theorem	17/05/2018	BAML202	A
3	19	Residue theorem	19/05/2018	BAML202	A
3	20	Complex Variables : More examples on Residue theorem	19/05/2018	BAML202	A



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Unit	Topic Code	Topic Covered	Date	Course	Section
3	21	Contour integration.	21/05/2018	BAML202	A
4	22	Fourier Series: Periodic Function	21/05/2018	BAML202	A
4	23	Periodic Function And their expansion	22/05/2018	BAML202	A
4	24	Even & odd function	22/05/2018	BAML202	A
4	25	More examples on Even & odd function	24/05/2018	BAML202	A
4	26	Change of interval	24/05/2018	BAML202	A
4	27	Half range expansion	26/05/2018	BAML202	A
5	28	Fourier Transform: Fourier integral theorem, Fourier Transform and their simple properties	26/05/2018	BAML202	A
5	29	Fourier Transform: Fourier integral theorem, Fourier Transform and their simple properties	28/05/2018	BAML202	A
6	30	Partial Differential Equations : PDE of first order & first degree	28/05/2018	BAML202	A
6	31	Examples on Partial Differential Equations of first order & first degree	29/05/2018	BAML202	A
6	32	Linear homogeneous partial differential equation of nth order with constant coefficients	29/05/2018	BAML202	A
6	33	Linear homogeneous partial differential equation of nth order with constant coefficients	31/05/2018	BAML202	A
6	34	Partial Differential Equations : Method of separation of variables	31/05/2018	BAML202	A
6	35	Examples on Method of separation of variables	02/06/2018	BAML202	A
6	36	Applications to transmission Lines	02/06/2018	BAML202	A
6	37	Applications to transmission Lines	04/06/2018	BAML202	A
6	38	Examples on Applications of partial differential equations	04/06/2018	BAML202	A
6	39	Simple Applications	05/06/2018	BAML202	A



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Unit	Topic Code	Topic Covered	Date	Course	Section
6	40	Partial Differential Equations : Examples on Applications of partial differential equations	05/06/2018	BAML202	A
6	41	Examples on Applications of partial differential equations	07/06/2018	BAML202	A
1	42	REVISION	07/06/2018	BAML202	A
2	43	REVISION	09/06/2018	BAML202	A
3	44	REVISION	09/06/2018	BAML202	A