

YouTube Channel: mathsforai
Engineering Mathematics-II
2019 Course

Sr.No.	Unit	Topic	Subtopic	YouTube Link
1		Formation of Differential Equations (DE)	Formation of DE	https://youtu.be/keqjvDHiYUE
2	I	First Order Ordinary differential Equations	Exact DE	https://youtu.be/Tv9pMdmyAuY
3			Reducible to Exact DE_Type-1	https://youtu.be/ZnITLOWqj3A
4			Reducible to Exact DE_Type-2	https://youtu.be/g637N20OV_o
5			Reducible to Exact DE_Type-3 & 4	https://youtu.be/KDPfbctdUY0
6			Linear Differential Equations	https://youtu.be/84XN5Yvri_Q
7			Reducible to Linear Differential Equations	https://youtu.be/w6pOcoaS8eg
8			II	Applications of Differential Equations
9	Orthogonal Trajectories (Polar Curves)	https://youtu.be/ld1jHUfPsSg		
10	Newton's Law of Cooling	https://youtu.be/F8VgP96IsAQ		
11	R-C Circuit	https://youtu.be/J_NDMcQK2ZU		
12	R-L Circuit	https://youtu.be/9qlnSNqQgpc		
13	Rectilinear Motion	https://youtu.be/rThDDTIKb_s		
14	Fourier Law of Heat Conduction	https://youtu.be/TdKdS3mRgrw		
15	III	Integral Calculus	Gamma Function	https://youtu.be/suVrrw4PUNs
16			Beta Function	https://youtu.be/lx1-3vXAPdk
17			Reduction Formulae_1	https://youtu.be/iHMTOKBLVfw
18			Reduction Formulae_2	https://youtu.be/QJgxwZoxTBk
19			Differentiation Under Integral Sign Rule 1	https://youtu.be/JZZDPX5GU8g
20			Differentiation Under Integral Sign Rule 2	https://youtu.be/fbu3_j8ijOO
21			Error Function	https://youtu.be/2zr140bwpvo

22	IV	Curve Tracing	Cartesian Curves_1	https://youtu.be/r5U6NTjreb4
23		Curve Tracing	Cartesian Curves_2	https://youtu.be/3hquyE8nnuw
24		Curve Tracing	Cartesian Curves_3	https://youtu.be/fKiAm27VSiO
25		Curve Tracing	Polar Curves_1	https://youtu.be/wleKv8SVwyU
26		Curve Tracing	Polar Curves_2	https://youtu.be/S6Xuh8epyAw
27	V	Solid Geometry	A Sphere	https://youtu.be/HsRVUD_Qy14
28			Right Circular Cone	https://youtu.be/-BLLd3-8JCc
29			Right Circular Cylinder	https://youtu.be/5GFC8dUItiY
30	VI	Multiple Integrals and their Applications	Double Integrals_1	https://youtu.be/j6P-yK0kxzg
31			Double Integrals_2	https://youtu.be/LWVAdxI9wjw
32			Triple integration	https://youtu.be/i7AhtyHeUIE
33			Volume by Triple integration	https://youtu.be/aVEI7FDTgc