

RK VIGYAN PG COLLEGE KALWAR JAIPUR, RAJ.
B.SC 2ND SEMESTER MATHEMATICS THEORY

S.N	PAPER (I, II, NAME	UNIT	TOPIC	VIDEO LINK
1		UNIT-I	Partial differential	https://youtube.com/playlist?list=PLVCBPCYGv7bCQau4F-LQ38zWDIfNZs2C&si=eJkOScOyZVTPu7WE
2			Euler theorem on homogeneous function 01	https://youtu.be/79Z1SQXfE-k?si=XL3jWqYQmm37rT-i
3			Euler theorem on homogeneous function 02	https://youtu.be/wk-Y18h8fOM?si=81qUzsb2urBTy24F
4			Euler theorem on homogeneous function 03	https://youtu.be/7ckkq1geqIQ?si=eL-4IAkqtQuF-niP
5			Euler theorem on homogeneous function 04	https://youtu.be/vFRrqLDV-10?si=Ehm0R_AvMkWYTrdE
6			Chain rule of pde 01	https://youtu.be/n2wyqq-K7_A?si=YhmQ-Tz4j_oa4Irn
7			Chain rule of pde 02	https://youtu.be/eahZsr-PG0?si=dAbnf07DBovp1uzZ
8			Chain rule of pde 03	https://youtu.be/KAF4Uhsarew?si=npyaEYSSYLovwvUk
9			Chain rule of pde 04	https://youtu.be/ZTkBpLz2KHc?si=fpV9J9pnbhY13_UG
10			Total differentiation of implicit function	https://youtu.be/LCZjeaymmW4?si=hxRURS7ovhQMkt--
11			Derivative of length of an arc 01	https://youtu.be/xf-qUqdFFjA?si=qOuBIUbp84y92w
12			Derivative of length of an arc 02	https://youtu.be/41OncvchN7M?si=c3api4wDohct_y1A
13			Derivative of length of an arc 03	https://youtu.be/wdfcy3X_0cc?si=Zof9ivoyZ7jaU2w7

14			Derivative of length of an arc 04	https://youtu.be/FqtNGB3SjSA?si=SOATtGoXYDh5VKQw
15			Derivative of length of an arc 05	https://youtu.be/PpkcRWXluPY?si=3wDFJVFlrivid6Rt
16			Pedal equations	https://youtube.com/playlist?list
17			Curvature various formulas	https://youtube.com/playlist?list=PLyQABO6hmtLHAom0b2AqkaCB_
18			Centre of curvature	https://youtu.be/vOO3eRKhHOQ?si=ckf0kLofdZA6mWnZ
19			Chord of curvature	https://youtu.be/kvQ1GBK_bgk?si=ZN0SvUHMTU69EiYw
20		UNIT-II	Envelope one parameter family of curve 01	https://youtu.be/VFzCbdr0EEk?si=1STEn-pD4GJxvB2d
21			Envelope one parameter family of curve 02	https://youtu.be/nj3lBrt-oWM?si=Ual-765A7ktm4HFJ
22			Envelope when two parameters are connected by a relation	https://youtu.be/oaLRype57M?si=68xXiPMvArewqri3
23			Maxima and minima of a function of two variables	https://youtu.be/h6Fwjo-mcAk?si=zKdFcoROxla8o48e
24			Langrange method of undetermined multipliers 01	https://youtu.be/yG1fHOvLLRE?si=XQ8xXF9RbtxsrdFE
25			Langrange method of undetermined multipliers 02	https://youtu.be/kjyQanvaoSY?si=bhGDwSzDsB7vaLM_
26			Asymptotes definition and parallel to coordinate axes	https://youtu.be/g5Pa1IO3hsQ?si=4g0LbK0PH_FqN6G-
27			Inspection method	https://youtu.be/m8lml6LQyWs?si=9OQE7Jwv-5r5rhWm
28			Intersection of a curve and it's asymptotes	https://youtu.be/CBrIHByAlrw?si=NFQwu7-uuRL7RAQC

29			Multiple points	https://youtu.be/O-A8dNz0iVQ?si=RY56d7-tENdRZ-O2
30			Curve tracing of standard curves 01	https://youtu.be/CioY8ElsjO4?si=AEYqU49m3jiup3k
31			Curve tracing of standard curves 02	https://youtu.be/yhGOx0qhGF0?si=wmenKsFqpePAnwFA
32			Curve tracing of standard curves 03	https://youtu.be/zLQE8tO5G90?si=HrrlIEuJy1N037lj
33		UNIT-III	Beta Gamma function	https://youtube.com/playlist?list=PLyQABO6hmtLFo53JURJ9ku48euQ5fJ51B&si
34			Reduction formula	https://youtube.com/playlist?list=PLANVbeWxpa2yPNssYJ2uS9Wg2gewbulL&si
35			Double integration in polar form	https://youtu.be/qdI1Xxuwj2w?si=jqam4ZpqwVQv0uSF
36			Triple integration	https://youtu.be/re6hf7m2hP4?si=U5YqETsaO_OUgfN8
37			Dirichlet's integral	https://youtu.be/MFArWa9ZwnA?si=JyObjlQrQe_KTbAr
38			Rectification area 01	https://youtu.be/LkEUSvWXHPU?si=8n1f2SH9UtKqRutk
39			Rectification area 02	https://youtu.be/AFXy6_P3OZ8?si=qXFrmMokrRxN9G6v
40			Rectification area 03	https://www.youtube.com/live/pehcoxDB6II?si=toPeSVq2zgoGNGrG
41			Volume and surface of solid of revolution	https://youtube.com/playlist?list=PLFMuAhuVLvMm69YmVAAgLrlzHfTtd1RGi&si
42		UNIT-IV	Scalar and vector point function	https://youtu.be/FfJtVvQtqTM?si=9ZXrISRLsUx5IMZb
43			Differentiation of vector point function 01	https://youtu.be/FfJtVvQtqTM?si=6pRvtQEVwVRtig-x
44			Differentiation of vector point function 02	https://youtu.be/xqld3WYVDt0?si=nVLlxuce9o7O2vPl
45			Directional derivative 01	https://youtu.be/PX78MrbdKr8?si=0estn9GXgBACytPs
46			Directional derivative 02	https://youtu.be/UTPRAKphIKQ?si=KGO_s0kS9vyg30g8

47		Differential operators gradient , divergence, curl	https://youtube.com/playlist?list=PLdhH6IJ5Nz1f8Zpfz5oUuj2U3MUkmRUJa&si
48		Line integral 01	https://youtu.be/99BzGd0KoW0?si=gM0Q5uZXnkp5e75w
49		Line integral 02	https://youtu.be/pfCwRLK29h4?si=niebsgbl5ID9jwB8
50		Surface integral 01	https://youtu.be/kA-zIC8euhU?si=Pz-BWuSQqmmLKYpl
51		Surface integral 02	https://youtu.be/K37VbB5Ukxk?si=s1LjOZUKqex62lLe
52		Surface integral 03	https://youtu.be/X2Z0tJG0rjU?si=-mz7Ijyig3XB6Crs
53		Volume integral	https://youtu.be/7gZ5V8TqWFk?si=gVrlg6exOhoc--zG
54		Gauss theorem	https://youtu.be/2sOfYtjDdZ0?si=pq0I2Hv2FsPHGt33
55		Green theorem	https://youtu.be/6fJE3vvjB8o?si=ggvw9AGke23hP6MO
56		Stock theorem	https://youtu.be/kOsgDUHSHgl?si=l86wh3ZndyYStYCw