

**RK VIGYAN PG COLLEGE KALWAR,
JAIPUR, RAJ.**

B.Sc. III Year PHYSICS

S.N.	Paper & Name	Unit	TOPIC	Video Link
1.	PAPER – I Quantum Mechanics & Spectroscopy	UNIT – 1	introduction about Quantum mechanics	https://youtu.be/_ybZsZKp8K4?feature=shared
2.			black body radiation	https://www.youtube.com/live/iuwsCLQXqjg?si=LsbHtMmGz5eNqsrE
3.			black body radiation 2	https://www.youtube.com/live/gpaeTBQhK-A?si=L4PE0b_JmPeFne04
4.			wien's displacement law	https://youtu.be/Zx8C1knM7gY?si=wuGj475I20wMEDnr
5.			photoelectric effect	https://youtu.be/TODO_ydB0GU?si=aERl79XWkmqhMjOs
6.			Compton effect	https://youtu.be/SDM0dHPijFY?si=5w0gte-TckhmfJ6I
7.			De Broglie hypothesis	https://youtu.be/RhTWVXRB-JE?si=aqt5Y3J6PTv9yMwT
8.			Davisson germer experiment	https://youtu.be/lsY8SeQbF1I?si=cWh7gL2tjyzm6iz
9.			uncertainty principle	https://youtu.be/9rRgfziJW0s?si=2CbS-qgJ14rGzS3
10.			application of uncertainty natural width of spectral line	https://youtu.be/e1RCRqvwEpo?si=iGvTfs4soOtQKczR

11.			application of uncertainty principle	https://youtu.be/_bUmN7Z2iYI?si=TVkwTJIrbJHwwIHF
12.			application of uncertainty 2	https://youtu.be/SkHVC75Fh2Q?si=hflzpDsGe-0EZuJK
13.			Operators	https://youtu.be/ZiFRw8sC0zM?si=wrAmY5YPCB3p0WLy
14.			Orthogonal wave function	https://youtu.be/1xR-LXpkeXE?si=4rJvz2f6qeYIk7iD
15.			hermitian operators	https://youtu.be/SCM-rAMMTY4?si=swZ39rzM18aECD9Q
16.			energy and momentum operator	https://youtu.be/oaKDwUeTz7Q?si=bx8ePa_bw09IzfaC
17.			ehrenfest theorem	https://youtu.be/43btksx7mBA?si=FwRtVB5UWVrkhiEq
18.			group velocity and Phase velocity	https://youtu.be/-gZGOosSmJM?si=zTqF15OFsYQIlrXP
19.			Gaussian wave packet	https://youtu.be/tjmD3i6ePDQ?si=SOakvYSGXmGhvhOg
20.		UNIT – 2	one dimensional Schrodinger equation	https://youtu.be/50fE5UjeP08?si=2HD4Sa83i161uFoo
21.			physical meaning of wave function	https://youtu.be/Fhh2yn_EdbA?si=Ms1nMrUfmF4xgjJf
22.			properties of wave	https://youtu.be/YxBNvNR5QOU?si=ikJJhviw504C2onf
23.			postulates of quantum mechanics	https://youtu.be/nJx0EEi1veo?si=D7SxWWHvhnEvX_tF

24.			probability current density	https://youtu.be/_yCAqdZ1KuQ?si=LqyG-QUCw4WPBhXr
25.			particle in 1D box	https://youtu.be/t1nnO4TrU6c?si=SQ2sx5b9vpBWX8Tt
26.			particle in 3D box	https://youtu.be/e3TuZcASo60?si=JnGGotGEHrzZiwil
27.			particle in 3d box 2	https://youtu.be/rYdrJY3qR7M?si=Uhd0yZgF9LKg8KBB
28.			rectangular potential barrier	https://youtu.be/zUbGA0RvDyg?si=nK3csnnUjiCONo-s
29.			square well potential	https://youtu.be/W98Q_vSj8o?si=kF68g9Fq9TXn2Fj
30.			step potential	https://youtu.be/rhfIvzZZxbk?si=FE_01UA3fsNWABjw
31.			Penetration through rectangular potential	https://youtu.be/LyjWDFkbva4?si=TLMEDpBaPm2x_Roo
32.			reflection and transmission coefficient	https://youtu.be/Ayd4Fg5vHDM?si=m4SiLiYqAxxA7G
33.			tunnel effect	https://youtu.be/LyjWDFkbva4?si=E1mZnfuBEFeyAUt7
34.		UNIT – 3	symmetric square potential	https://youtu.be/k8nsBxHjZVg?si=wzDw1yGTlpvnd4oq
35.			symmetric square well potential	https://youtu.be/v63fnTKRRqc?si=3RyzlBsVenrVljDz
36.			reflection and transmission coefficient square potential	https://youtu.be/C1KvEogVQhA?si=NgCBXnmBau2XCiBz

37.			particle in one dimensional finite well	https://youtu.be/V2T7zQt4vAo?si=SO-tEhPMh1n_ooCX
38.			simple harmonic oscillator	https://youtu.be/F_J3xG1JDaA?si=Sg013ATGTTzeE7Eg
39.			probability density	https://youtu.be/_yCAqdZ1KuQ?si=go-DFebw2JgUeuGC
40.			parity symmetric and anti symmetric wave function and its graphical representation	https://youtu.be/WqaufGuU1Xs?si=UADpSnDW9aysI56a
41.			Schrodinger equation in spherical coordinate	https://youtu.be/rEiSivcVzoI?si=h39cD8WZzoTqs1EN
42.			Energy for hydrogen atom	https://youtu.be/r07R8qmG_AA?si=4sNdZGW-AuZaknuU
43.			Bohr correspondence principle	https://youtu.be/o1-JLdPq8mo?si=3QslqveIBm8EFEL
44.			angular momentum and its quantization	https://youtu.be/4pRg0CyMUBs?si=qHGo_xSCF9UaqyD3
45.		UNIT – 4	hydrogen atom	https://youtu.be/xc_ZULAhTw?si=LcGtGpvzEEnNs-Xp
46.			stern garlec experiment	https://youtu.be/eaWQir4zKs8?si=w5wvnOC_8-vJeB-M
47.			Spin magnetic moment	https://youtu.be/IMzon7aOhks?si=ecsprnq-o21X7Cv4
48.			spin orbit coupling	https://youtu.be/DNK_LdbNENY?si=9kgKXUaRekYlgSIh

49.			fine structure	https://youtu.be/TYzTw-LEdge?si=wyppto_jVUJb7ngde
50.			franck hertz experiment	https://youtu.be/09Jdbx83SVo?si=wJ8Mux9NcCOLK2gd
51.			Zeeman effect	https://youtu.be/v-KIqp-LKls?si=UeNhlA_SMcgeuv9z
52.			stark effect	https://youtu.be/Gueyu92-5wI?si=5De5uoiMGDo5t3oh
53.			Spectroscopy	https://youtu.be/hILL0J9RtAQ?si=CXL5agCPZ2LUHH5Z
54.			Spectrophotometer	https://youtu.be/neoJUxzD75Q?si=gROUKqN_5EqAxKPY
55.			rotational inspectors copy	https://youtu.be/fn5cn38E06k?si=c7R_wAn5EO9mTE_w
56.			intensity of spectral line	https://youtu.be/wGzswAPgtcc?si=HAMuG97lbAukTCFg
57.			isotope effect	https://youtu.be/0SS1BxrHL4M?si=ikc39MWyeATsuwpr
58.			vibrational spectroscopy	https://youtu.be/RcgkX3F0YRE?si=rljUP70p4wraD1QI
59.			harmonic and an harmonic vibration	https://youtu.be/j--Dgx8xMrU?si=woGC0Xbfjtm90Hee
60.			vibrational rotational spectra	https://youtu.be/QS4HcVTLVaw?si=OCtDhHap9xoJRfeO
61.	PAPER – 2 Nuclear & Particle Physics	Unit – 1	Rutherford scattering	https://youtu.be/uVpPibGefY0?si=TjJLv92AjXX_NBO

62.			constituents of nucleus, charge , density	https://youtu.be/-tArcnEC03I?si=mk4IYGzXaWrQdwA_C
63.			Hofsteder experiment	https://youtu.be/WuoyZYNjSCc?si=bjuPSTgJFn-mrCtm
64.			magnetic moment	https://youtu.be/vgXi928nwH8?si=utjGZDvgtrpGnqQ_nuclear
65.			nuclear quadruple moment	https://youtu.be/SBuAz6Jbzic?si=AinGWghzbGywTx4J
66.			wave mechanical properties	https://youtu.be/xucu5VoXcdM?si=D4GpWsn8yEDJZ19
67.			classification of nucleus	https://youtu.be/pOS8Tpezi1Y?si=wdWNxH8pXp4Pcgxr
68.			mass defect and binding energy	https://youtu.be/gJ8eaN6QNYg?si=pQUq5robDEbNdfF0
69.			mass spectrograph	https://youtu.be/YTFw6E_989g?si=woLhhEeRRsM6gCBX
70.			segre chart	https://youtu.be/t20syymOZn8?si=IeoZslVJAVy9yKip
71.			liquid drop model, semi empirical formula	https://youtu.be/r1P21EzDv94?si=m3yD1MpUJXOXQF3C
72.			stability of nucleus	https://youtu.be/1XA0k-VddTI?si=zqDq4kzkSl3zkFFq
73.			Fermi gas model	https://youtu.be/S08gvZ5TMkY?si=hfjTixb3jirajT_o

74.			nuclear shell model	https://youtu.be/pWb0WdP2ia0?si=BhdMz08VP5EyG39z
75.		UNIT – 2	alpha decay	https://youtu.be/syrImkbtqHQ?si=2ITi15mIBwV4Gcpe
76.			beta decay	https://youtu.be/TpiZBAa5YWc?si=jYdzH5qVDSO3np65
77.			Gammow factor	https://youtu.be/wt6QxyJdKKc?si=tSlo mXyhs0pJ64sp
78.			Geiger nuttal law	https://youtu.be/1S6K5mVXQBg?si=eUpfgxDCCghRifuw
79.			range of alpha particle	https://youtu.be/Fk8G5J8Szkc?si=ajPKwOICF8dMrtd
80.			beta particle spectrum	https://youtu.be/jjVh9S3GKkI?si=4Ldo93TVIIsaK9wAY
81.			gamma ray	https://youtu.be/2NpocMdLofI?si=PVvVhqW6EtO3P6mw
82.			internal conversion	https://youtu.be/ia_ZQQvdgiM?si=Tn5s_BZ5PNNAJfx9
83.			application of radioactivity	https://youtu.be/JX0adGJMF8s?si=MwJ-HCWOhx_LDKFL
84.			nuclear fission and fusion	https://youtu.be/gUQRFwysPqI?si=GRxj1873tXSrl7i2
85.			potential barrier	https://youtu.be/aW3k2Y6g4uA?si=jHp pXZppsgenSNNL
86.			nuclear chain reaction	https://youtu.be/JtGleWn7NBk?si=1bm4Fe0ZjUDv9ssP

87.			controlled and uncontrolled chain reaction	https://youtu.be/dYCs-zMBXM8?si=1HyjdQNR7ISXvG5a
88.			fusion in Stars	https://youtu.be/tWx5hShHnwQ?si=Ma bh0TJRNkL9Bbaq
89.			conservation laws in nuclear reaction	https://youtu.be/gFeOgL3StAU?si=jSZ8h1Hw3XqVi8Yc
90.			kinematics of nuclear reaction	https://youtu.be/WJQ9ButKLxU?si=eU61Y6-PICxCMdcw
91.			Q value of nuclear reaction	https://youtu.be/RZhzAdcTUXY?si=Bt tb3f5C7TMYs0L1
92.			rate of reaction	https://youtu.be/WQ4nOOR-1K8?si=CGn7w5h5i5phj_hc
93.			reaction cross section	https://youtu.be/vF6xeN_f6k8?feature=shared
94.		UNIT – 3	energy loss by heavy charge particle in matter	https://youtu.be/oBQUGJbqpxg?si=iO2 tLAph50XkFNSe
95.			interaction of electrons and neutral particles with matter	https://youtu.be/0FlpRYryoFk?si=7mhd5A114ur_rQ0z
96.			bremsstrahlung radiation	https://youtu.be/MdWy9n9IP38?si=axGKzaFDcenoUrqD
97.			interaction of gamma radiation with matter	https://youtu.be/qo8gTLThpR8?si=IU3Jq-OlZV2y2WUm
98.			ionisation chamber	https://youtu.be/4A_eVeqX1nM?si=zsg45pbTM5wqBaZ0

99.			proportional counter	https://youtu.be/BDCyqzQpPtw?si=oeWVPNBIGPYf25IQ
100.			GM counter	https://youtu.be/CJxdqZPz3X4?si=qjJH6MMwnfdVxTcW
101.			current mode and pulse mode	https://youtu.be/j95zOOggz1E?si=rVcnajXaIXHrKwC
102.			ion source acceleator	https://youtu.be/UhNn63gFrr0?si=TPoK-KUE37Ci112Y
103.			van de graph accelerator	https://youtu.be/Q6oW18RwVZk?si=Tcru8ViiyC5cuaTc
104.			cockcroft walton accelerator	https://youtu.be/QtPwLh-0pIo?si=ndrvPbPD-soxS-he
105.			linear accelerator	https://youtu.be/omKecWcl6U0?si=N MlmhgarJIKuLcy5
106.			electron synchrotron	https://youtu.be/q24IfNyeapo?si=0WLo pICw4qrvQxeM
107.			Synchrocyclotron	https://youtu.be/-A_6WWFBLx0?si=KmQI1AMQqytKM2zb
108.			Cyclotron	https://youtu.be/YrpCel-AJkM?si=Z_7MAuJ-EyT0xEJF
109.			proton synchrotron	https://youtu.be/mhiB-0F5-7k?si=ei7uh3uzf9dm6vNO
110.		UNIT – 4	Elementary particles	https://youtu.be/VTsiiVWV-qw?si=o7d_xz9Dwpc3hmAO
111.			four fundamental forces	https://youtu.be/65DIEb6Nowc?si=f1_87Lp5XDDvtncV

112.			quark model	https://youtu.be/qjur7VpXgSc?si=Xlr3RXBZDBgxOap6
113.			Baryon octet	https://youtu.be/XjiEF4kc5oY?si=ltd--XQguQXLBmhL
114.			colour quarks	https://youtu.be/WBdtmmAROE?si=ANqjGtdvV8YTgqiM
115.			Gellman. Nishijima equation	https://youtu.be/WJRFcfXB4dQ?si=f2oHENzE7mZFfy9P
116.			fundamental particles	https://youtu.be/_42Mh6scJJA?si=ODUx1rj5tqy5gAoH
117.	PAPER – 3 Solid State Physics	Unit – 1	bond in solid	https://youtu.be/9RVV1rTcULc?si=03FyDj1NfdP7tuoE
118.			crystal lattice	https://youtu.be/53xqtsquglU?si=vs1UZpQGBu9rcnvE
119.			translation vector and primitive unit cell	https://youtu.be/he9j_9NdmZk?si=wcp-hoJnmQUcdOUC
120.			binding energy	https://youtu.be/60uuK3_HtI?si=N2ym7DpBPATYckDy
121.			x ray diffraction	https://youtu.be/USGaeyIgNaw?si=XP TauCkwblJ6Ona5
122.			laue equation	https://youtu.be/OINIhxxbPZY?si=Qg7dhOC0fRY8EcuZ
123.			Miller indices	https://youtu.be/uxLkULUIBkY?si=fbuslEe7tzbV9TFJ
124.			Braggs equation	https://youtu.be/lcbqwKYfKz0?si=ChCdchJJZN2rfJhD

125.			Bravais lattice – 1	https://youtu.be/mxNDwojAIJU?si=tm a4z4tgGfjfFk9X
126.			Bravais lattice – 2	https://youtu.be/mxNDwojAIJU?si=py Z2cKW9XLBtpC-N
127.			wigner seitz cell	https://youtu.be/gh1DdYBmb7o?si=XG dRfDj76n-PQcyD
128.			unit cell and primitive cell	https://youtu.be/Re9K3L272nE?si=2nc 5Sfbk08IOCy1t
129.			reciprocal lattice	https://youtu.be/704AhNbdaDs?si=3 R qYziRenaxfRHy
130.			Brillioun zone	https://youtu.be/qwlfEkGvlt4?si=- ZBhvFJNV14wF-XR
131.		UNIT – 2	bloch theorem	https://youtu.be/cJ6lSrAhNaE?si=7r4y QsAJWbyaukwx
132.			bloch theorem – 2	https://youtu.be/U_xvhyKOSOE?si=Yn gGeXCn84NvvBBB
133.			crystal momentum	https://youtu.be/64BmFBza1vE?si=HS YiZTjloYZxIO7e
134.			cronning penny model 1	https://youtu.be/Nc2GwGt91nU?si=eA LITmPrL-OXJgN
135.			cronning penny model 2	https://youtu.be/WCDKWyGCST0?si= SpRtbqjP6fI0dHBE
136.			cronning penny model 3	https://youtu.be/rn146VFCeNM?si=Xpl B-WcmQhckkEIP
137.			effective mass of electron	https://youtu.be/1q7gsi8ly7Y?si=YdBa kZJC6J8EqCDv

138.			origin of effective mass	https://youtu.be/6nVsETXbA8E?si=WIEkpi6yU2PjSTGz
139.			band theory of solid	https://youtu.be/ySYUb5McSGE?si=cpNXuMr5Row-jSkz
140.			periodic potential	https://youtu.be/5TGbgin3Y7c?si=SPPrPifMXBYHTQD7d
141.			hall effect	https://youtu.be/mxk22CQpKTU?si=BwkaW2AawNJU2h3S
142.			energy dispersion relation tight and weak bonding	https://youtu.be/Z_r-rMhChBM?si=le8DheLjUL56qMhH
143.			direct and indirect band gap	https://youtu.be/S155rw_3NLg?si=LDFoUT3IJ8SGe56f
144.			Generation and recombination of charge carrier	https://youtu.be/Y_jt3eUJNqM?si=O-Bt2bunM-BFw9fZ
145.			mobility of charge carrier	https://youtu.be/t8CNyahD5mc?si=h2gasos4xJkAFbWZ
146.			hall coefficient	https://youtu.be/IqYhnELFf7I?si=L-yYGhBaJ6XRmZ7R
147.		UNIT – 3	Phonon	https://youtu.be/ipMLh1mVNRQ?si=JTTWngVqrDDQpCW4
148.			dispersion relation in diatomic Lattice	https://youtu.be/0bQtF7-o544?si=UcWmpvEPt_8Vj50Y
149.			dispersion relation in monoatomic lattice	https://youtu.be/6S2-9lOyII4?si=4JAQnmFGybijuYFG

150.			debye theory	https://youtu.be/59KZQUqMIBI?si=10XgfuI9Qdc1Rr4u
151.			Dulong petit law	https://youtu.be/a9A88WYWly4?si=MybLN6P-z8CXoG
152.			Einstein theory of specific heat	https://youtu.be/UmlsTu7obi4?si=IJURYw5tCtQbGstz
153.			thermoelectric power	https://youtu.be/anWnscE88-E?si=DyUnebIWRzx4abXo
154.			drude Lorentz theory	https://youtu.be/qSi3mU2T-f4?si=oDl5Vav6a8xZbDWJ
155.			Sommer fields model for electrical conductivity	https://youtu.be/gSquxKZLQGk?si=UIOIHrLWa3dCqfT
156.			thermal conductivity electrical conductivity Widemann frenz relation	https://youtu.be/f1IGb1PpGQA?si=l-wd3HRd4v83S3xp
157.			hall effect	https://youtu.be/mxk22CQpKTU?si=JElchGOLDcCpEFX1
158.			density of States	https://youtu.be/uhryYTToUDQ?si=qcxizOik6JtZXbTT
159.		UNIT - 4	origin of magnetization	https://youtu.be/jjFawDHxh4g?si=oVl4BFuIGRukunb
160.			langevin theory of diamagnetics	https://youtu.be/EDFpbxXHpwC?si=xEToPuKv7TcRY2Zj
161.			language theory of paramagnetic material	https://youtu.be/VO-kvTXg_8Q?si=MGRQ2uMb-tIxCP4I

162.			Curie law	https://youtu.be/grbgmIePAb0?si=skrrHBqRRaUHnaR9
163.			domain theory	https://youtu.be/RI0gcdkSOZo?si=3vCdYhhnn2hS8li5
164.			type of ferromagnetism	https://youtu.be/PaeAqvOjrFg?si=bmD3dAENcq3gwnuo
165.			Heisenberg exchange interaction	https://youtu.be/Hww6MDjULK8?si=BkjiG-MPuQXr9rT5
166.			meissner effect	https://youtu.be/IE2Q2drYA18?si=Gvcf-UJAr8cASJ3O
167.			London equation	https://youtu.be/vJIPA0uY9Rs?si=HpF7rIpwqc3VHzCC
168.			mattiesiens law	https://youtu.be/vDsOxW2Wio0?si=H2AAPK3NCPBCiHVk
169.			josephson effect	https://youtu.be/6rI2PxHU4-k?si=x8v9tk6PvSWS0mPC
170.			BCS theory	https://youtu.be/Q1WBe_LX1u8?si=QeZ3RKL7CtTcOIxr

**RK VIGYAN PG COLLEGE KALWAR,
JAIPUR, RAJ.**

B.Sc. III Year CHEMISTRY

S.N.	Paper & Name	Unit	TOPIC	Video Link
1.	PAPER – 1 INORGANIC CHEMISTRY	UNIT – 1 Hard and Soft acid and base	classification of acids and bases as hard and soft	https://youtu.be/Iy_hCoaEs4Q?si=IRcHlzQ6ysJU_xd3
2.			pearson hsb concept	https://youtu.be/kmDK4d5SnJY?si=YjoQu2GZGRqXwWwR
3.			acid base strength and hardness and softness	https://youtu.be/yPZsi2lsp-w?si=Jn9xRpNzYEt0Dbfi
4.			Symbiosis	https://youtu.be/7zkSJ1zaONA?si=ePv48kQa6aQFWpX
5.			theoretical basis of hardness and softness	https://youtu.be/NoXja9OcEPc?si=XzORu1gPcnWAE4Y-
6.			electronegativity and hardness and softness	https://youtu.be/gGxzKyJA8F4?si=_6yNmQAK4iCtqUVY
7.		UNIT – 2 Metal ligand binding in transition metal complexes	limitation of valence bond theory	https://youtu.be/DokKWIs0Mac?si=G-AqPSMEzOtLkzzw
8.			an elementary idea of crystal field theory	https://youtu.be/sXvZ3PxUntk?si=IlGfru23u33Vs1pO
9.			crystal field splitting in octahedral tetrahedral and square planar complexes	https://youtu.be/FitjEPNXrRY?si=-69eUj8N2oIB23vB

10.			factors affecting the crystal field parameters	https://youtu.be/Ddx60zrBysk?si=ZacoMg2pDEeakLZ1
11.		Magnetic properties of transition metal complexes	types of magnetic behavior	https://youtu.be/zjzURoWBQE0?si=oK KGS_CXMr8YqOWs
12.			methods of determining magnetic susceptibility	https://youtu.be/DbprE-PRNkU?si=SNtWXI6-awmYfk2R
13.			spin only formula	https://youtu.be/wq6XSemdzqA?si=xPrnzvSEccjL24z6
14.			LS coupling	https://youtu.be/J6POmpgq1gw?si=5wiAGb8_y7hOdZJ
15.			correlation of μ_s and μ_{eff} values in hindi	https://youtu.be/if4NkB4b-Zs?si=1Xvtm94LBFS8EQtL
16.			orbital contribution to magnetic moment	https://youtu.be/cRAs7FXPSyE?si=xDeUQ3sFuAmxL1d
17.			application of magnetic moment data for 3d metal complexes	https://youtu.be/bXYtWiXXLv8?si=s16KqyktL1jBLlga
18.		UNIT – 3 Electron spectra of transition metal complexes	types of electronic transition	https://youtu.be/1GCunk-Ix3k?si=yeW1Ajif_0GHF8wo
19.			selection rules for d-d transition in hindi	https://youtu.be/JKF1Mg3IDP4?si=rO288E9v9Pwt7Pna
20.			spectroscopic ground state	https://youtu.be/LPVpwbhOfQI?si=HI2GCYWbrYRua-WQ

21.			spectrochemical series	https://youtu.be/Que69md5hmo?si=fVeEhWwKxJUrpZKR
22.			orgel diagram for d1 to d9 states	https://youtu.be/8UjvNxHG-BE?si=jcyxS1lsVsJJw2gS
23.			discussion of the electronic spectrum of $\text{Ti}(\text{H}_2\text{O})_6^{3+}$ complex ion	https://youtu.be/uLeKqtzE-ig?si=1oc2G7gx12TqLbTm
24.		Thermodynamics and Kinetic aspects of metal complexes	a brief outline of thermodynamic stability of metal complexes and factors affecting the stability	https://youtu.be/SlrBAkJkIIQ?si=n9CMHowLcmYf5G6R
25.		UNIT – 4 Organometallic chemistry	nomenclature and classification of organometallic compounds	https://youtu.be/4-Vg-hKJwUw?si=hpK_KJirC7E3OsUj
26.			preparation properties of organometallic compounds	https://youtu.be/VN963VzOVUE?si=hwgvfFFns47PQOKk
27.			bonding and application of alkyls and aryls of Li Al Hg Sn and Ti	https://youtu.be/fn5yu_neZCY?si=qgrB6urV7sOjC1B9
28.			organometallic compounds	https://youtu.be/BJEIzpgBcMg?si=4Q97CrUEG0RrY8k8
29.		Homogeneous hydrogenation	mononuclear carbonyls and the nature of bonding in metal carbonyl	https://youtu.be/47lhwIdqq2s?si=7nw6jxrgAR-M9GVS
30.		UNIT – 5 Bioinorganic chemistry	essential and trace elements in biological processes	https://youtu.be/sKb1ZCTe5eY?si=hKQdzfvf3WzI0gpC
31.			metalloporphyrins with special reference to haemoglobin and myoglobin	https://youtu.be/sUmCkv28gXc?si=QG i7HPy-xmtcjikT

32.				https://youtu.be/fLoJ-WqLKVo?si=gYRw5J63gchbWr9w
33.			biological role of alkali and alkaline earth metal ions with special reference to ca ²⁺ in hindi	https://youtu.be/HxTNIqKw-dk?si=7BLurpvx_LLkQ-IJ
34.			nitrogen fixation	https://youtu.be/3HVjnJUmQ3o?si=AiUYJVtE7tOpMQaB
35.		Inorganic polymers	silicones and phosphazenes	https://youtu.be/DoHGGrdMsjXU?si=Sy9J1cxAUDzSuUHG
36.			nature of bonding in triphosphazene	https://youtu.be/0kk-8E5wGT4?si=rMe8W2Yju0Gw2bvF
37.	PAPER – 2 Organic Chemistry	UNIT – 1 Nuclear magnetic resonance (NMR) spectroscopy	proton magnetic resonance spectroscopy	https://youtu.be/JFAIZWD2MV0?si=yHGC2vxIfUvA_Eek
38.			nuclear shielding and deshielding	https://youtu.be/UO5V_364iEo?si=_5p7psZi7qVUtJqr
39.			chemical shift and molecular structure	https://youtu.be/RPR-hTi0X6o?si=8Hgs6iE9939nqr1P
40.			spin spin splitting and coupling constant	https://youtu.be/Hi-hB7_ya5g?si=S01exbxEfBZdXchB
41.			areas of signal	https://youtu.be/FmYc9CjRCIs?si=PJY2I9z6UmLdTtJ5
42.			interpretation of nmr spectra of organic molecules such as ethyl bromide ethanol acetaldehyde 1,1,2 tribromoethane	https://youtu.be/XWscWwZjsMc?si=OwZ7RTNomvhZ5LoN

43.			Ehtyl acetate toluene and acetophenone	https://youtu.be/TXAUIIFwYUo?si=Ea2dK--D3V9eaU24
44.			problem pretaining of the structure elucidation of sample organic compound using NMR data	https://youtu.be/jKTj4oiM-v8?si=hzoshQFPaz5n7TSi
45.		Organic synthesis via enolates	acidity of alpha hydrogen in reactive methylene compounds	https://youtu.be/d3-8XrAtH2Q?si=lqXLK3DJWZq7b8xj
46.			alkylation of diethyl malonate and ethyl acetoacetate	https://youtu.be/W0H5K16DmSQ?si=wbTRk4XCU-ppiKFz
47.			claisen condensation	https://youtu.be/EtNruTPWjoE?si=-XeQkmDt7Vzu5ylx
48.			keto enol tautomerism of ethyl acetoacetate	https://youtu.be/9LHDzPKbrog?si=Xf1Ea0TNQG0c5yKy
49.			synthetic uses of ethyl acetoacetate and malinic ester	https://youtu.be/W0H5K16DmSQ?si=DIQG3_4R-vIooN6X
50.		UNIT – 2 Heterocyclic compounds	molecular orbital diagram and aromatic characteristics of pyrrole furan thiopheneand pyridiene	https://youtu.be/DWUGbmoA0Ok?si=QCyusQnwrTLz6cYK
51.			methods of synthesis and chemical reactions with particular emphasis of electrophilic substitution	https://youtu.be/_F93NtPUeNE?si=JHI Bc9hnt-7ezyv1
52.			mechanism of nucleophilic substitution reaction in pyridine derivatives	https://youtu.be/mZLYRaQ0jaU?si=fk5epwXzaOLgee43
53.			comparison of basicity of pyridine piperidine and pyrrole	https://youtu.be/64aSRZud_fo?si=EICX5A3ylgCcNVbg

54.			introduction to condensed five and six membered heterocycles	https://youtu.be/zwuy6VDtwaQ?si=VruhELAscNIXnafD
55.			preparation and reaction of indole	https://youtu.be/Ce7nLYvnQIA?si=tIWlv_3gAbRU02k2
56.			preparation and reaction of quinolone	https://youtu.be/8CtKer3p1E8?si=Xa2YWpWRBCZHhUFz
57.			skraup synthesis	https://youtu.be/8CtKer3p1E8?si=F2BJY-S8ifirLPal
58.			bischler napieralski reaction mechanism	https://youtu.be/sC39LPy5sLg?si=Ra5hCGx4AR1XS_Fv
59.			mechanism of electrophilic substitution reaction of indole quinoline and isoquinoline	https://youtu.be/LFwPgSWB8Ik?si=9w39pr85zwwq0o8KI
60.		UNIT – 3 Carbohydrates	classification and nomenclature of carbohydrates	https://youtu.be/xRJYrS5-DUM?si=Hst3gfg9NeH1pCsS
61.			Monosaccharides	https://youtu.be/K1kmH_sQMSQ?si=l-h8POUnMZeuCC7
62.			mechanism of osazone formation	https://youtu.be/dJ3tYuProvQ?si=-cIPjAczNy2bNfS_
63.			epimers mutarotation and anomers	https://youtu.be/tr10HGXcV90?si=UjgwrNMhqR9zFY9f
64.			interconversion of glucose and fructose	https://youtu.be/wFvDGtjsRkE?si=CRJUNJS0i8ygMaHf
65.			chain lengthening and chain shortening of aldoses	https://youtu.be/KQEPz8DjIt?si=LX7gk5HLJV90PU-J
66.			erythro and threo diastereomers	https://youtu.be/r894msGI4Xc?si=dIVuPmFJ6sQ3AaWL

67.			conversion of glucose into mannoseC	https://youtu.be/b595Mt3JhZQ?si=5JUuiBKZnHs750XP
68.			conversion of glucose into mannose	https://youtu.be/X-ffAuJIF6o?si=RY3MSliuZPzd01y4
69.			determination of ring size of monosaccharides	https://youtu.be/uxVI2-5VjPQ?si=feZXjObyOcGqlt6h
70.			formation of glycosides ethers and esters	https://youtu.be/dDNAmcUYT7M?si=p9clhDdN8_G0HPrw
71.			cyclic structure of d(+)-glucose and fructose	https://youtu.be/N3ICsP7nPpw?si=ysCXp84sgDejePHh
72.			structure of ribose and deoxyribose	https://youtu.be/SWGA23pa9d8?si=gG3edIMQW2Da57wA
73.			nomenclature and structure of disaccharides and polysaccharides	https://youtu.be/Xjuc_urhvjo?si=Cen1fy5KJ65fCt0g
74.			glycosidic linkage	https://youtu.be/p-NS13dhVzg?si=bHnqRHILpENaHqqE
75.		UNIT – 4 Amino acids peptides and nucleic acids	classification structure and stereochemistry of amino acid	https://youtu.be/dcXD49tc5NU?si=DWcU91a5EQI-CxQ7
76.			acid base behaviour of amino acids	https://youtu.be/oEblKq_ACBM?si=kvzZs2rz6BzD8QPX
77.			isoelectric point and electrophoresis	https://youtu.be/wRDVMT3Jw9U?si=m2H393DKNYiNlwu8
78.			preparation and reaction of alpha amino acid	https://youtu.be/_bKBURRQ270?si=LMeLR7VUfI5_7zeZ

79.			structure and nomenclature of peptide and protein	https://youtu.be/iuJTcqrQ6K8?si=-r-H4c_KkXE8jznU
80.			classification of protein	https://youtu.be/_zhWC7G2Ils?si=ZbiFeRKyXSYhz2tU
81.			peptide structure determination and group analysis selective hydrolysis of peptides	https://youtu.be/LzxY68Kas34?si=G1XeZgTG8qyB-Qj7
82.			classical peptide synthesis	https://youtu.be/oYsIA9b6bDQ?si=VUymuV8Bjt9w53m5
83.			solid phase peptide synthesis	https://youtu.be/hAax-KUoLgE?si=vv38cYKcSvUwaeKo
84.			introduction constituents of nucleic acid	https://youtu.be/xeZgKkh6SCU?si=K1bBqHvWmsbDouJt
85.		UNIT – 5 Organosulphur compounds	nomenclature structure features methods of formation and chemical reaction of thiols sulfonic acid	https://youtu.be/P2aaLSQPmOM?si=zp2Ee0lxjeTrz6QR
86.			nomenclature structure features methods of formation and chemical reaction of sulphaguanidine sulphadiazine sulphacetamide	https://youtu.be/_AmS9WWbCN8?si=Yx6bPTCCwKq43PTG
87.		Synthetic polymers	addition or chain growth polymerization	https://youtu.be/vjC4uBPSouc?si=VA9zighOJHO2Dln7
88.			free radical and ionic polymerization	https://youtu.be/vjC4uBPSouc?si=SYuojfDNBNpkgdxE
89.			Ziegler natta catalyst condensation or step growth polymerization	https://youtu.be/k1MHoh0rp0U?si=IDESOGG-QEWto4eV

90.			Polyesters	https://youtu.be/--Gp_W0SG0?si=n4en_jxyVCqbh-XH
91.			Polyamides	https://youtu.be/uO4RaZjprdg?si=Cm3JK1VfOV9vtQAD
92.			phenol formaldehyde resin	https://youtu.be/xb6m9miEkag?si=Uf3f3GWqI3AQBhs6
93.			urea formaldehyde resin	https://youtu.be/E06GH2GYIBs?si=QLDcjzEsTOQF337K
94.			epoxy resin and polyurethane	https://youtu.be/tg-qC3k6dwM?si=BJQwsleBg1lyBSiz
95.			natural and synthetic rubber	https://youtu.be/hdSzOIwxymU?si=3Vj6KccwTmcVT6Gf
96.		Synthetic dyes:	colour and constitution electronic concept	https://youtu.be/18879-0NpiQ?si=NcL17HEkCsh1Wjzu
97.			classification of dyes	https://youtu.be/6osOIVAVg-I?si=ZqIleyYX-RsXcTL7
98.			chemistry and synthetic of methyl orange	https://youtu.be/ENAcam5w60A?si=TanmfyaHiHj7pcz4
99.			congo red	https://youtu.be/G1jvdyvt-q8?si=QeQOgXo94bDL0U1O
100.			malachite green	https://youtu.be/sP2vCqJzxnQ?si=x6GAtTfviY4_Nj8P
101.			crystal violet	https://youtu.be/d9A-R-jocuA?si=x7MMjOa5cFJtUPI3
102.			phenolphthalein fluorescein	https://youtu.be/LqW0dDRBUQU?si=1h-ip9fnfRaaYSu6

103.			alizarin and indigo	https://youtu.be/5k74RHIBF8?si=ufXIk_Hhelaum7z8
104.	PAPER – 3 Physical Chemistry	UNIT – 1 Elementary quantum mechanics	Black body radiation	https://youtu.be/6FCH96CynWk?si=Q TmkmfzYWBqqmiW
105.			planck's radiation law	https://youtu.be/xNn3ucNTSLY?si=Qp pC3pcUTgYunVcI
106.			photoelectric effect	https://youtu.be/x5KOGW0Sk1c?si=uI5fiYkquq-N_77
107.			heat capacity of solids	https://youtu.be/t5g6Ie9wOGA?si=IXW654W5lxVT5MHF
108.			bohr's model of hydrogen atom	https://youtu.be/yn4_d1uIIXk?si=btaDK6IsxNCzEbE
109.			Compton effect	https://youtu.be/wFReDMbzlu8?si=XcKvMOINoWvq52K5
110.			de broglie hypothesis	https://youtu.be/RhTWVXRB-JE?si=cL1rKdaqOcxlmWWH
111.			the heisenberg uncertainty principle	https://youtu.be/RYkAd6zUJwQ?si=zq2lp922GBr3Xlp6
112.			sinusoidal wave equation	https://youtu.be/No984QCzW20?si=3Sie4vmoIJXYyMC
113.			Hamiltonian operator	https://youtu.be/14Cy0R6YyE8?si=49rIqwW72J2VwjQ4
114.			schrodinger wave equation	https://youtu.be/7UZUEPVmxOOQ?si=1e7r_qJQdCJuRcm7

115.			physical interpretation of wave function	https://youtu.be/IqbBad21WtQ?si=FBI_SyPSI4kP5FFLm
116.			postulates of quantum mechanics	https://youtu.be/nJx0EEi1veo?si=tpg4jrQRsyZYY0aK
117.			particle in a one dimensional box	https://youtu.be/e3TuZcASo60?si=OB_DNe9fVk-3_MK4E
118.			schrodinger wave equation for h atom	https://youtu.be/DwJrTzElwjg?si=VZx_MNR6UQYzgkhsL
119.			separation into three equations	https://youtu.be/36Ek4-d3CaY?si=ptjMe7YpRIWUQ-WU
120.			radial and angular wave function	https://youtu.be/IVt6GV-o5Pk?si=Ngcfg4ayk21AsulE
121.		UNIT – 2 Molecular orbital theory	basic idea criteria for forming mo from ao	https://youtu.be/DXnu9hSLaSc?si=hLqyoOYL_dY6NpaI
122.			construction of mos by lcao h2+	https://youtu.be/ak9hU5y0-bQ?si=nAx4OqmwMz9wIBoM
123.			calculation of energy levels from wave function	https://youtu.be/rGET1rtz1UM?si=7tBRLvJ0iBuMr05p
124.			physical pictures of bonding and antibonding wave function	https://youtu.be/IqbBad21WtQ?si=idnq2aC_-YIMZCDM
125.			hybrid orbitals sp	https://youtu.be/ygWTmyTLXuY?si=3u7z8NIVoN_Rkzl
126.			hybrid orbitals sp2	https://youtu.be/KwohqAB2Q3g?si=KDr2Py3Bx5OnJD-G

127.			hybrid orbitals sp ³	https://youtu.be/F8iwb5QAUTY?si=iJ5mQSkZ-rLicAPu
128.			calculation of coefficient of ao used in these orbital – 01	https://youtu.be/B5iSc7Jdkag?si=MCOq3qBp_GRMLu27
129.			calculation of coefficient of ao used in these orbital – 02	https://youtu.be/q2fhaT-gzKU?si=E8b3Ybc02dvFhht-
130.			calculation of coefficient of ao used in these orbital – 03	https://youtu.be/ZI1BJsv4Gh0?si=PlaWx3TIxZNeQ40E
131.			introduction to valence bond model of h ₂ and v.b.models	https://youtu.be/k1UOYP39Gdk?si=5FDL5yQU6plKVMXQ
132.		UNIT – 3 Spectroscopy	electromagnetic radiation	https://youtu.be/-dLPs5GSVOQ?si=wXQtbanXhwkh38J3
133.			basic features of different spectrometers	https://youtu.be/-jbq7PJc9E0?si=ZWh8D-PXtKBMn_Bz
134.			statement of the born oppenheimer approximation	https://youtu.be/OggnTBctvLE?si=uIEicFXj8Np-4byp
135.			degree of freedom	https://youtu.be/608FC1XvWhY?si=XkrZ0_QhEIGNwJXD
136.		Rotation spectrum	diatomic molecules	https://youtu.be/Ftj39vRlcX4?si=0s7qJIwjZxAo5-Hg
137.			energy level of a rigid rotator	https://youtu.be/hjy3BTcnQbQ?si=5m-QzsL-kSbNHuK
138.			selection rules	https://youtu.be/QSJAZzDWIM8?si=J26G2N0CVM9ppVcV

139.			spectral intensity	https://youtu.be/3aqaQ_H3uN0?si=oqFRdhnSx7QZ36TI
140.			determination of force constant and qualitative relation of force constant and bond energies	https://youtu.be/tyAo82GOOiQ?si=GZDsv8DxOqi5AHTw
141.			effect of anharmonic motion and isotope on the spectrum	https://youtu.be/Col9tKvPxKE?si=G40JQjEk0ma4f_qj
142.			idea of vibrational frequencies of different functional groups	https://youtu.be/5SeVoNNCirc?si=5-w2IKSrJgauIMk1
143.		Raman spectrum	basic principles and applications of raman spectrum	https://youtu.be/oJOVmhEtols?si=BODJA7Hydttotgts
144.			concept of polarizability in raman spectra	https://youtu.be/o26pn7S5aIY?si=6JVEnxCQVygINUC5
145.			pure rotational and pure vibrational raman spectra of diatomic molecules	https://youtu.be/vkqGiDn61Nk?si=ij2VJ0WctHAzqnPh
146.			selection rules	https://youtu.be/GVyUjpChV58?si=BU_Lpy91makY8k2Q
147.		Electronic spectrum	concept of potential energy curve for bonding and antibonding molecular orbital	https://youtu.be/LbXKVIldWXVA?si=g05puwBRmAm95Itn
148.			qualitative description of selection rules and franck condon principle	https://youtu.be/pgAhj8tsT4A?si=bALIJ_8jEtpGDOPV
149.		UNIT – 4 Photo chemistry	interaction of radiation with matter	https://youtu.be/1YYD88daQSY?si=wI_NvplVzDpnbvU4N
150.			difference between thermal and photochemical process	https://youtu.be/M6uPF6BNybw?si=Bl2zntT8rvS16rpD

151.			Grothus drapper law	https://youtu.be/I2lOE8zIMaM?si=s1rwzp8nqFYVvkqTx
152.		Stark einstein law	jablonski diagram	https://youtu.be/ptnMMEWhYw4?si=xiTEiuqCRYyuYW1R
153.			qualitative description of fluorescence and phosphorescence	https://youtu.be/nKqZ1IsVEqU?si=pB2LTCbvGahzMtXE
154.			non radiative process	https://youtu.be/BtTaN7-NwZU?si=uRHg85pJ1s8HMIby
155.			Quantum yield	https://youtu.be/ZjvVWJU-iSc?si=WLrbNecItWjPT8Id
156.			photosensitization in photochemistry	https://youtu.be/C1DZggRCWoE?si=59UI_DMlnFxY1ojw
157.			Physical properties and molecular structure	https://youtu.be/EgJLA-mBULE?si=FggtZjx2L0P8rQW
158.		optical activity	clausius mossotti equation	https://youtu.be/S_P1Cjgb5es?si=yh5PghvdRHONMIFd
159.			orientation of dipoles in an electric field	https://youtu.be/PSCFSU7xNeU?si=2pHPFdKuMgYHvAqA
160.		Dipole moment	induced dipole moment	https://youtu.be/pOWVuvzOzzI?si=2mVJT48JPHCjS5VY
161.			measurement of dipole moment temperature method and refractivity method	https://youtu.be/IXcYTuzVABA?si=sWQfL8nQllpBFXmg
162.			magnetic properties of materials- para- dia- and ferromagnetic substances with examples	https://youtu.be/58rJY3DxtWs?si=Ijm4Vh1N_7Zr1PZV
163.		UNIT – 5 Solutions dilute	ideal and non ideal solutions	https://www.youtube.com/live/T8k476rBYbY?si=q0oFSmDeZ8HB4N7H

		solutions and colligative properties		
164.			methods of expressing concentration of solutions activity and activity coefficient	https://youtu.be/akxrHIDF-C0?si=sNXyp0k_ULRPVltj
165.			Dilute Solution	https://www.youtube.com/live/DeMm7mx-Lsk?si=7fg93Q2FJjd_-gHz
166.			colligative properties	https://youtu.be/7M9w2-WEea0?si=a3nws6zzmye3Ye_
167.			raoult's law	https://www.youtube.com/live/Jt5JdlscpZU?si=uU2lJaYu_-gCHDM1
168.			relative lowering of vapor pressure	https://youtu.be/FTqAlOvGpFQ?si=DApXmQWsPLvqnn-t
169.			molecular weight determination	https://youtu.be/L5KC5_aD0XM?si=Sv5RE45KAZih-DO2
170.			law of osmotic pressure and its measurement	https://youtu.be/ty6aPP_Vj0Y?si=B2lbTCWxhgarrFTv
171.			determination of molecular weight from osmotic pressure	https://youtu.be/5e76D9QeMuI?si=MxhTMg0fUqpkLFsY
172.			Boiling Point, Boiling Point Elevation Reason for Boiling Point Elevation	https://youtu.be/zPMT39GvQHk?si=OA3oNvzM2Djvr3-A
173.			thermodynamics derivation of relation between molecular weight and elevation in boiling point	https://youtu.be/EY41hBd_gHI?si=FDIO7STDniDPrXU4
174.			experimental methods for determining various colligative properties	https://youtu.be/Hgitno1U58k?si=reniEqBUuuiYls9D

175.

**abnormal molar mass degree of dissociation
association of solutes**

<https://youtu.be/QTQhZrCRXA8?si=akQpbqRNj6-qJSqD>

**RK VIGYAN PG COLLEGE KALWAR,
JAIPUR, RAJ.**

B.Sc. III Year MATHEMATICS

S.N.	Paper & Name	Unit	TOPIC	Video Link
1.	PAPER – 1	UNIT – 1	GROUP	https://youtu.be/BnE_MJaU8BQ
2.			CYCLIC GROUP	https://youtu.be/yDQhErltWUg
3.			SUBGROUP	https://youtu.be/N1z5hnFru4w
4.			COSET	https://youtu.be/M0MruDktKz8
5.			LANGRANG THEOREM	https://youtu.be/L7P2JZRE9bE
6.		UNIT – 2	MORPHISM OF GROUP	https://youtu.be/haNBOXMQ5yE
7.			CAYLEY THEOREM	https://youtu.be/MzS9cwY3aYc
8.			NORMAL SUBGROUP	https://youtu.be/MgRfQkeI7Vo
9.			QUOTIENT GROUP	https://youtu.be/9lxb6Uyk3HM
10.			FUNDAMENTAL THEOREM OF ISOMORPHISM	https://youtu.be/qTb1-KiGTR0
11.		UNIT – 3	DEFINATION AND SIMPLE PROPERTIES OF	https://youtu.be/BVf5FFIbaaQ

			RINGS	
12.			SUBRINGS	https://youtu.be/eyb5csJzmYg
13.			MORPHISM OF RINGS	https://youtu.be/Vq17Y2i0rDM
14.			INTEGRAL DOMAIN	https://youtu.be/HDT7nduZEqw
15.			FIELD	https://youtu.be/Nxckze-DKwU
16.		UNIT – 4	IDEAL	https://youtu.be/e3riEvoIF6w
17.			QUOTIENT RING	https://youtu.be/7Tv0voLSZz0
18.			MAXIMAL IDEAL	https://youtu.be/_xcIdKa0z1U
19.			PRIME IDEAL	https://youtu.be/rPDVMgTACRU
20.			PID	https://youtu.be/B3bIolt-NeU
21.		UNIT – 5	LINEAR COMBINATION	https://youtu.be/w9uMJys1BQ0
22.			LINEAR DEPENDENT AND INDEPENDENT VECTORS	https://youtu.be/rDrQH9ma82o
23.			BASIS AND DIMENSIONS	https://youtu.be/Pc2dWW3aSrK

24.			GENERATION OF SUBSPACE	https://youtu.be/y_PHA3szo5s
25.			DIRECT SUM AND COMPLEMENT OF SUBSPACE	https://youtu.be/kSyYgXvBpQQ
26.			COMPLEMENT OF SUBSPACE	https://youtu.be/WBvroWQecEI
27.	PAPER – 2 complex analysis	UNIT – 1	COMPLEX VALUED FUNCTION	https://youtu.be/2r9NIYsBbro
28.			LIMIT CONTINUITY DIFFERENTIABILITY IN COMPLEX ANALYSIS	https://youtu.be/0RkcZoCaF5Q
29.			ANALYTIC FUNCTION	https://youtu.be/t9xW7UaZwZ0
30.			CAUCHY RIEMANN EQUATIONS	https://youtu.be/CCMnwZHcW6w
31.			HARMONIC FUNCTION	https://youtu.be/sImWE24mgRc
32.			CONSTRUCTION OF AN ANALYTIC FUNCTION	https://youtu.be/ABNW9FcZ5zQ
33.		UNIT – 2	COMPLEX INTEGRATION	https://youtu.be/ywQVarOaA60
34.			COMPLEX LINE INTEGRAL	https://youtu.be/s2wPry0_Hfs
35.			CAUCHY INTEGRAL THEOREM	https://youtu.be/fSoQxuVdKIs
36.			FUNDAMENTAL THEOREM OF INTEGRAL CALCULUS FOR COMPLEX FUNCTION	https://youtu.be/AqE_jF0W6A4

37.			CAUCHY INTEGRAL FORMULA	https://youtu.be/b0XIq94SyRQ
38.			ANALYTICITY OF DERIVATIVE OF AN ANALYTIC FUNCTION	https://youtu.be/C-yuTzjmqrq
39.		UNIT – 3	TAYLOR THEOREM	https://youtu.be/5iudcV9wagc
40.			LAURENT THEOREM	https://youtu.be/gUmIrJRXDSs
41.			MAXIMUM MODULUS THEOREM	https://youtu.be/4FfMwLJHzF4
42.			POWER SERIES CIRCLE AND RADIUS OF CONVERGENCE	https://youtu.be/7WEbZwh_JWA
43.			ANALYTICITY OF THE SUM OF FUNCTION OF A POWER SERIES	https://youtu.be/P6c-8sFkxws
44.		UNIT – 4	SINGULARITIES OF AN ANALYTIC FUNCTION	https://youtu.be/qlBQ4OkA29w
45.			MEROMORPHIC AND ENTIRE FUNCTION	https://youtu.be/UKJ8UyKwEz4
46.			RIEMANN THEOREM RESIDUE AT A SINGULAR POINT	https://youtu.be/bS35z0cLjtw
47.			RESIDUE AT A SINGULAR POINT	https://youtu.be/C2OfwVd_WEY
48.			CAUCHY RESIDUE THEOREM	https://youtu.be/4yC4IXcMKJg
49.			ARGUMENT PRINCIPAL	https://youtu.be/qDTZCm9h0vg

50.		UNIT – 5	CONFORMAL MAPPING	https://youtu.be/XvLnHIPsWqY
51.			BILINEAR TRANSFORMATION	https://youtu.be/xgnQTqMc6A4
52.			ELEMENTARY MAPPING -1	https://youtu.be/XvLnHIPsWqY
53.			ELEMENTARY MAPPING -2	https://youtu.be/ZvjKI4X50Oo
54.			ELEMENTARY MAPPING -3	https://youtu.be/ks0clz_OXBU
55.			ELEMENTARY MAPPING -4	https://youtu.be/CAVImDGWE8o
56.	PAPER – 3	UNIT – 1	VELOCITY AND ACCELERATION PART - 1	https://youtu.be/nX5gwEhzc9A
57.			VELOCITY AND ACCELERATION PART - 2	https://youtu.be/D_ExdL2f1Bk
58.			VELOCITY AND ACCELERATION PART - 3	https://youtu.be/tZ27bpbtrtw
59.			VELOCITY AND ACCELERATION PART - 4	https://youtu.be/ELtSAalX6Wo
60.			RADIAL AND TRANSVERSE VELOCITY	https://youtu.be/LkI09T0-5RA
61.			RADIAL AND TRANSVERSE ACCELERATION PART - 1	https://youtu.be/bJ_iBf3-FwA

62.			RADIAL AND TRANSVERSE ACCELERATION PART - 2	https://youtu.be/BGyA-6BYIQ
63.			RADIAL AND TRANSVERSE ACCELERATION PART - 3	https://youtu.be/4kdm0cWrjcU
64.			RADIAL AND TRANSVERSE ACCELERATION PART - 4	https://youtu.be/h3zeP5VXEGU
65.			RADIAL AND TRANSVERSE ACCELERATION PART - 5	https://youtu.be/RZMmvAS1yu8
66.			RADIAL AND TRANSVERSE ACCELERATION PART - 6	https://youtu.be/uTbgqJoZTq4
67.			NORMAL AND TANGANCIAL VELOCITY AND ACCELERATION	https://youtu.be/LghyELndj6E
68.			TANGANCIAL AND NORMAL ACCELERATION PART - 1	https://youtu.be/1ytAa3r0_YU
69.			TANGANCIAL AND NORMAL ACCELERATION PART - 2	https://youtu.be/0x1tnKavaUc
70.			TANGANCIAL AND NORMAL ACCELERATION PART - 3	https://youtu.be/8pzl2Evj3cA
71.		UNIT – 2	RECTILINEAR MOTION IN RESISTING MEDIUM PART - 1	https://youtu.be/iv7s59HMKU8

72.			RECTILINEAR MOTION IN RESISTING MEDIUM PART -2	https://youtu.be/89jQbv_Vt4I
73.			RECTILINEAR MOTION IN RESISTING MEDIUM PART -3	https://youtu.be/eU9Tu5WOI5Y
74.			RECTILINEAR MOTION IN RESISTING MEDIUM PART -4	https://youtu.be/QgDMGKET4Ow
75.			RECTILINEAR MOTION IN RESISTING MEDIUM PART -5	https://youtu.be/DKDGyYSwyGE
76.			RECTILINEAR MOTION IN RESISTING MEDIUM PART -6	https://youtu.be/Aps8Ju9FEa4
77.			RECTILINEAR MOTION IN RESISTING MEDIUM PART -7	https://youtu.be/YC5E2CvuKjU
78.			RECTILINEAR MOTION IN RESISTING MEDIUM PART -8	https://youtu.be/c4udoCVzB1E
79.			RECTILINEAR MOTION IN RESISTING MEDIUM PART -9	https://youtu.be/6qWzx2G5AYU
80.		UNIT – 3	MOMENTS OF INERTIA AND PRODUCT OF INERTIA PART – 1	https://youtu.be/m54NvIIBM0s
81.			MOMENTS OF INERTIA AND PRODUCT OF INERTIA PART - 2	https://youtu.be/yTety-naLpo
82.			MOMENTS OF INERTIA AND PRODUCT OF INERTIA PART – 3	https://youtu.be/SxCtq1Qv8FI
83.			MOMENTS OF INERTIA AND PRODUCT OF INERTIA PART -4	https://youtu.be/bYvF1z9RKM0

84.			MOMENTS OF INERTIA AND PRODUCT OF INERTIA PART -5	https://youtu.be/uqnex7kTzkE
85.			MOMENTS OF INERTIA AND PRODUCT OF INERTIA PART -6	https://youtu.be/gEgujIeihCU
86.		UNIT – 4	EQUILIBRIUM OF COPLANAR	https://youtu.be/L3-VXnvBx1o
87.			MOMENT OF INERTIA – 1	https://youtu.be/RIJG7rqALoA
88.			MOMENT OF INERTIA –2	https://youtu.be/83bDZI6pUDU
89.			MOMENT OF INERTIA –3	https://youtu.be/FW5EcKtU2t8
90.			FRICITION	https://youtu.be/eqSU8Cy6-Vs
91.		UNIT – 5	VIRTUAL WORK – 1	https://youtu.be/UpW-z0sUeGk
92.			VIRTUAL WORK – 2	https://youtu.be/7930GYc89bo
93.			VIRTUAL WORK – 3	https://youtu.be/t_sA6mbZ7ZI
94.			VIRTUAL WORK – 4	https://youtu.be/9mbSs7obcyo
95.			CANTENARY – 1	https://youtu.be/0GM1Tr7D3fQ
96.			CANTENARY – 2	https://youtu.be/my9CpwKhIMI

**RK VIGYAN PG COLLEGE KALWAR,
JAIPUR, RAJ.**

B.Sc. III Year ZOOLOGY

S.N.	Paper & Name	Unit	TOPIC	Video Link
1.	PAPER – 1 Structure and functions of chordate	Section – A	Herdmania	https://youtu.be/ujLknPNXMHA?feature=shared
2.			Branchiostoma	https://youtu.be/o-Lrprnjtdk?feature=shared
3.			Ascidian tadpole larva and it's metamorphosis	https://youtu.be/SIVpSvVkzG0?feature=shared
4.			Affinities of hemichordate	https://youtu.be/7xY3ojiM6VI?feature=shared
5.			Affinities of urochordata	https://youtu.be/Iyw8nUp453M?feature=shared
6.			Cephlochordata	https://youtu.be/D_r6p55Kb2Q?feature=shared
7.			Petromyzon	https://youtu.be/H2PozRAhG4Y?feature=shared
8.			Ammocoete larva	https://youtu.be/5DniiLd2KI?feature=shared
9.		Section – B	Labeo	https://youtu.be/6-yk9-UgiSM?feature=shared
10.			Frog	https://www.youtube.com/live/jHSmfnTJf6M?feature=shared

11.			Varanus	https://youtu.be/IQJXYBTTB8c?feature=shared
12.			Respiratory system in pigeon	https://youtu.be/QqCSzY3nwPs?feature=shared
13.			Pigeon morphology	https://youtu.be/fd8ipX13vH8?feature=shared
14.		Section – C	Scales and fin in fishes	https://youtu.be/-OCgnuuO8XE?feature=shared
15.			Parental care in fishes	https://youtu.be/cgV7Vw5i8Ok?feature=shared
16.			Migration in fishes	https://youtu.be/dAmmanMhgE4?feature=shared
17.			Parental care in amphibian	https://youtu.be/8E6j8OeGiXk?feature=shared
18.			Poisonous and non-poisonous snakes	https://youtu.be/vt18_75CCuo?feature=shared
19.			Flight adaptation	https://youtu.be/cNrosU6UNDg?feature=shared
20.			Adaptive radiation in mammals	https://youtu.be/uA2WbRhnGVI?feature=shared
21.			Dentition in mammals	https://youtu.be/-OF2_E-aPas?feature=shared
22.	Paper – 2 Ecology, Environment Biology And Evolution	Section – A	Ecology	https://youtu.be/XZ_2-UWgca8?feature=shared
23.			Concept of limiting factor	https://youtu.be/1x1fn8AIy-c?feature=shared

24.			Ecosystem	https://youtu.be/4a0PP61QaFw?feature=shared
25.			Biotic and abiotic factor	https://youtu.be/mLnwAhj6CX4?feature=shared
26.			Ecosystem. Production, consumption and decomposition	https://www.youtube.com/live/h27EWvpwRI4?feature=shared
27.			Food chain	https://youtu.be/GD8H72KnGmY?feature=shared
28.			Food web	https://youtu.be/4ADz-ROgKG4?feature=shared
29.			Ecological pyramids	https://youtu.be/jgSoRqn6OFU?feature=shared
30.			Oxygen cycles	https://youtu.be/7Yk0dq_wA-A?feature=shared
31.			Carbon cycles	https://youtu.be/te0S6xfWyaE?feature=shared
32.			Water cycles	https://youtu.be/j8uFUHZiL4Q?feature=shared
33.			Nitrogen cycles	https://youtu.be/J3E-AAAt6kdw?feature=shared
34.			Phosphorus cycles	https://youtu.be/aBfk4O7mNoc?feature=shared
35.			Ecosystem productivity	https://youtu.be/JT1_rAoeSBM?feature=shared
36.			Ecotone	https://youtu.be/vB_vZkR9LV0?feature=shared

37.			Edge effects	https://youtu.be/D85GauJUKh0?feature=shared
38.			Niche	https://youtu.be/llr1uh-TXgQ?feature=shared
39.			Population ecology	https://youtu.be/So-a0lbJN8g?feature=shared
40.			Population ecology natality	https://youtu.be/Arb92aBys3c?feature=shared
41.			Population characteristics, mortality	https://youtu.be/Yl4TkregxnA?feature=shared
42.			Biotic potential	https://youtu.be/agvEdVbL46U?feature=shared
43.			Community ecology	https://youtu.be/lJor2ThMuiE?feature=shared
44.			Ecological succession	https://youtu.be/msSCUgz9l0E?feature=shared
45.			Succession type	https://youtu.be/50W3uEl82JU?feature=shared
46.			Freshwater ecosystem	https://youtu.be/knn11pUners?feature=shared
47.			Types of ecosystem	https://youtu.be/TKMUQN1FCYo?feature=shared
48.		Section – B	Entertainment and it's concept	https://www.youtube.com/live/DfID3uFVAOY?feature=shared
49.			Atmosphere	https://youtu.be/3I7nK3M_InM?feature=shared

50.			Natural resources	https://youtu.be/Tqidzgh0DGw?feature=shared
51.			Environmental pollution	https://youtu.be/e-5uCE3547A?feature=shared
52.			Types of pollution	https://youtu.be/1sFoBJjReeQ?feature=shared
53.			Green house effect	https://youtu.be/FC3BAR9o3Nw?feature=shared
54.			Ozone layer depletion	https://youtu.be/G1Hjy3JuJdA?feature=shared
55.			El nino and la nino	https://youtu.be/soH7Yc5eQpI?feature=shared
56.			Bioaccumulation and biomganification	https://youtu.be/aleYHEzyZNg?feature=shared
57.			Biodegradation of pollutants	https://youtu.be/o5LgB-1E2w?feature=shared
58.			Urbanization	https://youtu.be/HdJ5wOshdR0?feature=shared
59.			Wildlife conservation	https://youtu.be/TyN0-4E4dMY?feature=shared
60.			Wildlife conservation in rajasthan	https://youtu.be/-CoquDl1QHE?feature=shared
61.			Wildlife management efforts by Government	https://youtu.be/N7hcO7HZdAQ?feature=shared
62.		Section – C	Difference between Darwinism and non Darwinism	https://youtu.be/pA5qkhn9cyk?feature=shared

63.			Natural selection	https://youtu.be/dBIVoxZEGn8?feature=shared
64.			Variation	https://youtu.be/Zn2A7aH88tA?feature=shared
65.			Mutation	https://youtu.be/pkkIJ_HcnXw?feature=shared
66.			Species concept	https://youtu.be/5XWajgp6-u0?feature=shared
67.			Speciation	https://youtu.be/AByA9RhQko4?feature=shared
68.			Adaptation,desert,deep sea	https://youtu.be/w2PIy0oQjhA?feature=shared
69.			Mimicry	https://youtu.be/-NieTuFpEi4?feature=shared
70.			Genetic drift	https://youtu.be/Wmp1bbRUTL4?feature=shared
71.			Hardy Weinberg law	https://www.youtube.com/live/egaKMW127gE?feature=shared
72.			Evolution man	https://youtu.be/BkJHbsclkFk?feature=shared
73.			Plate tectonic	https://youtu.be/dQu3-jhyhQk?feature=shared
74.	PAPER – 3 Applide Zoology, Ethnology And Biostatistics	Section – A	Vermiculture	https://youtu.be/Eidx0Ukvuo?feature=shared

75.			Sericulture	https://youtu.be/G3V6U2YyoUs?feature=shared
76.			Lac culture	https://youtu.be/X18qdz1Yckg?feature=shared
77.			Apiculture	https://youtu.be/XD3pfzIaMGw?feature=shared
78.			Prawn culture	https://youtu.be/DkeVhdG3HNY?feature=shared
79.			Poultry keeping	https://youtu.be/ZZpqi2Sror0?feature=shared
80.			Economic importance	https://youtu.be/etk4m8C5e5A?feature=shared
81.			Coral and coral reefs	https://youtu.be/dGiNri_sB28?feature=shared
82.			Importance of helminthes	https://youtu.be/IKmtRRW5dkY?feature=shared
83.		Section – B	Concept of ethology	https://youtu.be/266kZgeZJ8E?feature=shared
84.			FAP	https://youtu.be/5gFNBacikJo?feature=shared
85.			Sign stimulus	https://youtu.be/KFp0_6qAU80?feature=shared
86.			IRM	https://youtu.be/C3Ni32jRUIU?feature=shared
87.			ASE	https://youtu.be/ue0tKP98PPU?feature=shared

88.			Motivation	https://youtu.be/TJW09J1mjZI?feature=shared
89.			Learning	https://youtu.be/tSK0zKxmjoM?feature=shared
90.			Pheromones	https://youtu.be/8i52KblW-mk?feature=shared
91.			Social organization of honey bee	https://youtu.be/X4QAcFQHa0w?feature=shared
92.			Biological clock	https://youtu.be/Esj772J5xCw?feature=shared
93.		Section – C	Introduction of biostatistics	https://youtu.be/jsCmFr-ochc?feature=shared
94.			Scope of biostatistics	https://youtu.be/qkcjNyKiyxE?feature=shared
95.			Application of biostatistics	https://youtu.be/c9vufh6CVKI?feature=shared
96.			Frequency distribution	https://youtu.be/wdzt4iuycHI?feature=shared
97.			Mean	https://youtu.be/tyub-Lse99E?feature=shared
98.			Mean individual series	https://youtu.be/Cz3DaLm9rCQ?feature=shared
99.			Mean discrete series	https://youtu.be/D7bShCMYGOE?feature=shared
100.			Mode	https://youtu.be/G57xwmD33mA?feature=shared

101.			Statistics median	https://youtu.be/jMLj_re9Ohc?feature=shared
102.			Statistics median discrete series	https://youtu.be/CNawR6X3yp4?feature=shared
103.			Standard deviation	https://youtu.be/400yIZA4dTA?feature=shared
104.			Standard error	https://youtu.be/_hVDVe3gOTw?feature=shared

**RK VIGYAN PG COLLEGE KALWAR,
JAIPUR, RAJ.**

B.Sc. III Year BOTANY

S.N.	Paper & Name	Unit	TOPIC	Video Link
1.	PAPER – 1 PLANT MORPHOLOGY AND ANATOMY	UNIT – 1	Basic body plan of flowering plants	https://youtu.be/tTbnDNXGWg4?si=KFLLDfFis9qSBw4n
2.			Modular types of growth	https://youtu.be/aB04MAaX0gY?si=m4e4cZ4kLVUBV1Fk
3.			Annual biennials perennials plants	https://youtu.be/Y2ZCq864aLk?si=Z-7s11UkXKzI0jVe
4.			Branching patterns	https://youtu.be/BolCNDWrkaA?si=ATRBB5uqdNtsxnE
5.			Canopy architecture	https://youtu.be/22mDTF6YGTI?si=Uy4XYcLWGMu5nJxk
6.			Tissue	https://youtu.be/9dRsP6uZbnk?si=XvjqUeVbcJ8zZPG-
7.		UNIT – 2	Sap wood vs heart wood	https://youtu.be/Dyg-45u0lyc?si=SJSjU4Ic3ybL6fob
8.			Cork cambium	https://youtu.be/_zx8ZrcHBNY?si=qQy1Vy80EOsCHMjQ
9.			Anomalous secondary growth in stem	https://youtu.be/kBdNbm5n0u8?si=DwLkrmJQoKURfyw3
10.			Shoot apical meristem	https://youtu.be/Z6GzQ2zN6Tk?si=mzQb3SvNZ8UXb-0E
11.			Vascularisation of primary shoot in monocotyledons and dicotyledons	https://youtu.be/zUbI10k_fl8?si=4KzpvSXA tw25PzO2

12.			Periderm	https://youtu.be/ZNRicMNtBJU?si=O4Vu23RESg6PfoGU
13.			Anomalous secondary growth in stem boerhaavia	https://youtu.be/VXeAem0Xt9E?si=Aa3ErhTu4jSP7tdN
14.			Salvadora	https://youtu.be/cz_5CGD_EHY?si=QFaMCMLTetsln275
15.		UNIT – 3	Root system	https://youtu.be/LyRxGfhB3Q8?si=bZLqyPwDN3gFXRmt
16.			Root apical meristem	https://youtu.be/4IOcCdgr5SI?si=UqkaMmALUqHvA7Rt
17.			Types of root	https://youtu.be/xp_gUJBEV_I?si=7Tt-M3VU3z3klHwB
18.			Differentiation of tissues in roots	https://youtu.be/LyRxGfhB3Q8?si=L97awS_cfLz408gI
19.			Structural modification of roots (storage)	https://youtu.be/PTrEoo_dmpg?si=sPeL-EKdDd-c6jUK
20.			Structural modification of roots(reproduction)	https://youtu.be/tzzqjSmQTpQ?si=-NZLUIDsh8oig-uu
21.			Root microbe interaction	https://youtu.be/b5P_-tacaLM?si=k45FA7hTGk0l27bm
22.			Stomata structure and function	https://youtu.be/i3SvMdZ4E6w?si=m76NaV8MGHsA2Nwo
23.			Phyllotaxy	https://youtu.be/BmULQtLqYGk?si=SaRyz7Go5GQVcAqq
24.			Sensescence and abscission	https://youtu.be/73q8U1RCzh0?si=FUL1LL_pYFzizLC

25.			Leaf trace and leaf gap	https://youtu.be/f_Tmkdx4bTs?si=VzhENu74sP2CM-pD
26.		UNIT – 4	Transpiration	https://youtu.be/3yrIQhN1IRO?si=n1nb8uagrMrhwDC9
27.			Monocot seed	https://youtu.be/oZw0RroFOow?si=izJCHmTjuCyb5F4X
28.			Seed suspended animation	https://youtu.be/wn70_kBkOu4?si=8AzozCDCrPzZoJAB
29.			Natural vegetative propagation	https://youtu.be/QjSdAPupKxw?si=qgVgSWK-jEFKYVWy
30.			Artificial vegetative propagation	https://youtu.be/b58RyVMdJQE?si=CWEVYokYtVEpwC7p
31.			Dicot seed	https://youtu.be/W2f2zNnx3MQ?si=0lwa-Kf5mmi5VXSy
32.			Seed dormancy	https://youtu.be/F5d63qorLk4?si=zE74gsSmDt-vetIQ
33.	PAPER – 2	UNIT – 1	Ecology adaptation (hydrophytes and xerophytes)	https://youtu.be/jFF4nJyIhzo?si=Y879vsKDOFZDB--H
34.			Atmosphere (troposphere)	https://youtu.be/3I7nK3M_InM?si=025R3BL5ud2Xutz0
35.			Atmosphere (mesosphere)	https://youtu.be/UwLXrbthuKU?si=2O_Pupo-PSbUMUD8
36.			Atmosphere (thermosphere stratosphere)	https://youtu.be/P0N3iel7XbU?si=jZ8h3y2dEn9w9PIV
37.			Light global radiation	https://youtu.be/5zulVMpL7y0?si=XiDSuqkf4JqgQrlC

38.			Photosynthetically active radiation	https://youtu.be/aEFov6ancFg?si=MNo9JT-LZFWYIGfT
39.			Zonation in Water body	https://youtu.be/eaL1mvWw8qc?si=6brdvGgdrB1NByA4
40.			Photoperiodism	https://youtu.be/VN27hF2mqoI?si=9cT-Zk4flpRiC79z
41.			Heliophytes and sciophytes	https://youtu.be/zTu_rikj570?si=yaWRap5q27-XCIDV
42.			Soil profile	https://youtu.be/J47JIIUm6Fg?si=KfDTHbDGnbOo7FRb
43.			Soil type	https://www.youtube.com/live/q7WZ1oHFXm8?si=vP4p5whvk4vE9bvQ
44.			Soil nutrients	https://youtu.be/7faOmuU71M0?si=1Ttw2wPdhBqiS-mc
45.			Weathering and maturation	https://youtu.be/saszKrqFOkE?si=1vPCuETdYSAG1bfH
46.			Environmental protection act	https://youtu.be/6-Bc-ehMnw8?si=BjsK08-GEU1SPi8D
47.			Mulualism	https://youtu.be/b8U8d8bK8Y8?si=X0BFld4bPeFypcU1
48.			Predation	https://youtu.be/Z_mWCtilsjY?si=WqnOP1f718yUZfvJ
49.			Parasitism	https://youtu.be/P1zhJVqyaOA?si=vn_ZnI305p-Or-js
50.			Competition	https://youtu.be/YsbV8FrkfxE?si=H1lgI9o0BEOZA4dh

51.			Soil water	https://youtu.be/VPAAAsNDltR0?si=GpISZo2aU64HNx-3
52.		UNIT – 2	Community	https://youtu.be/IJor2ThMuiE?si=00pQE6PUq358MMFK
53.			Abiotic and biotic components	https://youtu.be/mLnwAhj6CX4?si=rofCfZnoUSg8txaA
54.			Energy flow Model	https://youtu.be/DHsEQkZjbfU?si=VBe6ng3cAnLbieZ
55.			Food chain	https://youtu.be/IilzoBhSE3A?si=fX52MYBVG3nHwked
56.			Food web	https://youtu.be/zJXAf5bCFgw?si=Yg-gj5ZvGg3qHZs5
57.			Carbon cycle	https://youtu.be/te0S6xfWyaE?si=O3bZn5SORUw2rQRN
58.			Phosphorus cycle	https://youtu.be/aBfk4O7mNoc?si=6TobrTt_zwytFobX
59.			Ecological pyramids	https://youtu.be/jgSoRqn6OFU?si=oDI5RGXynCqqA41u
60.			Endangered plants of rajasthan	https://youtu.be/dznDtdr87dg?si=lm_YOpTeGbVnlCHk
61.			Vegetation type of rajasthan	https://youtu.be/nMhV_NOHQjY?si=OtrBNTlySiTDAfqv
62.			Ecological succession	https://youtu.be/UeqXmrIM2MI?si=m3kyqiKlfAB0c618
63.			Xerosere succession	https://youtu.be/qcBoG6FhlC4?si=sbTDxy2U3muy_AXu

64.			Hydrosere succession	https://youtube.com/watch?v=WfcKybNySkA&feature=shared
65.		UNIT – 3	Wheat	https://youtu.be/eFeewMBgpbw?si=nGqtDIH_tPTLd9Nh
66.			Rice	https://youtu.be/add4ELtrD9c?si=LQjg8_s33r_hHuhB
67.			Maize	https://youtu.be/j3Q9JMK-Py8?si=TAR7mkLRmzwiSVcG
68.			Sugarcane	https://youtu.be/rvI5UrA6ZTs?si=F1k_BnRHirt9EFI7-
69.			Potato	https://youtu.be/YsVaxs7dzPg?si=F0BhyLiX0EwjE5L
70.			Onion	https://youtu.be/g-sTYIIAXOQ?si=wa-fr_y_ncQJ6DEu
71.			Garlic	https://youtu.be/xwrWwC4RaS0?si=rwPyviB7meuR7spz
72.			Tomato	https://youtu.be/1XUsw7sh7ZM?si=CIYCrIMx-eShtgMn
73.			Lady finger	https://youtu.be/dT1Uiz_RjEw?si=ZvbaInJBtqCwaKkr
74.			Radish	https://www.youtube.com/live/WmFol3vat_c?si=yozQ3zTU0QWbegHY
75.			Cauliflower	https://youtu.be/LWBVM4e2IYc?si=2Nbo94ZFY454JfNH
76.			Spinach	https://youtu.be/wcZe1OgdGI?si=-XCKG1MVOsXsOHB2

77.			Cucumber	https://youtu.be/GgzxyBebQwA?si=S HimTsR63UBiK1zu
78.			Apple	https://youtu.be/hF1gofuwAO4?si=za 4t2OutaIgQNPqY
79.			Bnana	https://youtu.be/pcn0LWVtLrA?si=jQ T2J-YMFHIbtKF0
80.			Mango	https://youtu.be/A1lkepf8WcA?si=KN xhIBB_X6rZaqTe
81.			Watermelon	https://youtu.be/q- JATWnjHns?si=cszYC1XpKRBUIx-7
82.			Jujube	https://youtu.be/6WUUI1CNHU?si= ZtK0PhRyfTzr0CjS
83.			Economic botany fruits	https://youtu.be/SLDFxQBG- kU?si=2psxeHoWez8MZRh8
84.			Mustard	https://youtu.be/e6XajNdZuq0?si=vtE QATSQFQyrY8Qt
85.			Groundnut	https://youtu.be/VVvjGV_8DMQ?si=i OqjjzLBJMIbtZ1N
86.			Coconut economic botany	https://youtu.be/pOaZsvCCZ_I?si=2m 8jMj9gyg8PmL2c
87.		UNIT - 4	Tea	https://youtu.be/aHqZEFienn0?si=nni- zC5PT_LnnaZW
88.			Coffee	https://youtu.be/03tHsmRqM_o?si=rR Etgjac-eD-riBj
89.			Senna	https://youtu.be/3DFcPuNLg_c?si=e9 HxsIkqDtcVP8F8

90.			Isabgol	https://youtu.be/ln2uoJOaQFw?si=0s-8LCegIzktfJ
91.			Safed musli	https://youtu.be/OnfDnfghqUg?si=sqUFC2V-VOarNn_M
92.			Jute	https://youtu.be/3bEXrTQc7-Q?si=YgnPYPOHHmtZrvYT
93.			Fiber/ Cotton	https://youtu.be/RK8LpmhDxis?si=q6dbYEmjlWAbvhyD
94.			Timber plant	https://youtu.be/ZS1oPoH145U?si=pKXjK3awSreY5P_o
95.			Rubber plant	https://youtu.be/io9w2VwH3Ao?si=te-gkSchfQiRJf7m
96.			Coriander	https://youtu.be/UnIC1oPbXv4?si=3zzyWLxU9QUZ9IL9
97.			Cumin	https://youtu.be/7DEjusqUUWk?si=89AA-pi078ZeCNXM
98.	PAPER – 3	UNIT -1	Basic components of taxonomy	https://youtu.be/PBAsITHeDdI?si=n73Nd9eWUKH3103M
99.			Botanical nomenclature	https://youtu.be/ds8MWN-DoFc?si=C_uwVzwPLBjb6ITy
100.			International code of botanical nomenclature	https://youtu.be/gMhyMuwXQ-c?si=53bbvfWP206sLbMF
101.			Taxonomic literature	https://youtu.be/XRox_UT3fm4?si=ILmm--qYCU3y_LAM
102.			Bentham &hooker and classification	https://youtu.be/3IH6jMTqMsU?si=nk6E-WRKIw9SpmdC

103.			Engler &prantl classification	https://youtu.be/PKCpSaa-W6k?si=hWsCmO7mZqvGJ7ra
104.			Ranunculaceae family	https://youtu.be/MO2swsRotpg?si=4xZsiNMYBS1oCrXL
105.			Brassicaceae family	https://youtu.be/LPKPgudngUo?si=YGZ0gaaKaUpDQIji
106.			Malvaceae family	https://youtu.be/3wxI38mOAjo?si=whETLTh25cfwVM3n
107.			Fabaceae family	https://youtu.be/AzjNhLMJm8g?si=P9x3N7NqzDH3Fxr
108.			Caryophyllaceae family	https://youtu.be/1abegy1RWUo?si=bEpm-Wg5EgKN-zDA
109.			Apiaceae family	https://youtu.be/gpgSLcIliGs?si=v4I9ifZvVMDeRBV8
110.		UNIT – 2	Rubiaceae family	https://youtu.be/gxG3HnXRAhA?si=Ed9E2PaEX3AWYwIw
111.			Asteraceae	https://youtu.be/v2ESxZ2RzcU?si=jlX5ThxG6UnmfqHA
112.			Apocynaceae family	https://youtu.be/Q6RPGg6TDaQ?si=fzLsj49CVWNkXBxT
113.			Asclepiadaceae family	https://youtu.be/k3oqsVp-ny8?si=AC6LLDgIwswm3NgR
114.			Solanaceae family	https://youtu.be/ChUQeNlm9Lg?si=U4ziOAn5TOtLuqtM
115.			Lillaceae family	https://youtu.be/dZBsQ0YSW4I?si=rBZtA_mELGKCT4kq

116.			Acanthaceae family	https://youtu.be/3zS8upbNLxs?si=lmAFCpOPuDK8xQy0
117.			Euphorbiaceae family	https://youtu.be/jf-jiDYTFU4?si=NQszw1N_G0cXv6u7
118.			Poaceae	https://youtu.be/1HVYe8QtIJA?si=dO0W_aLYIevQ8zPI
119.		UNIT – 3	Tapetum type and function	https://youtu.be/g9VNTdpH0ww?si=Ah1h-8YfnnDKIANC
120.			Structure of anther	https://youtu.be/iLuzFC878o0?si=6m3HfFGDiIw6Cv_Y
121.			Microsporogenesis	https://youtu.be/cF8Vm6-nefM?si=uedkB7YVBCM6pPJJ
122.			Development of male gametophyte	https://youtu.be/XJ8Rc0qpl6Y?si=c4zmCWGjCnCqTf6I
123.			Structure of pollen grains	https://youtu.be/sIVGRiUThsk?si=HreZ-txrgMQEqe7k
124.			Types of ovules	https://youtu.be/YcoNoGBDAEk?si=KqdFUKuEp5tISaWE
125.			Megasporogenesis	https://youtu.be/ZV8E-8rTwkA?si=nMjgSc1Xjmhb970y
126.			Development of female gametophyte	https://youtu.be/FgLiRRn8IL0?si=fyxGFZyE_P6cDjb1
127.			Pollination	https://youtu.be/ZB49tRDCIy8?si=yIX3EmFWgJtmknJ
128.			Pollination types	https://youtu.be/nHYRo97jwpo?si=tRDGaG__Wc9qeLeV

129.			Fertilization	https://youtu.be/RNqFcRBKnTw?si=1CkdF5U548hyDhjb
130.			Double fertilization	https://youtu.be/ImStcYhjINA?si=Vu5mehZRcRLJrZ4T
131.		UNIT – 4	Development of dicot and monocot embryo	https://youtu.be/ALD0LSitQdE?si=xa4FTnkkQN0LL6PZ
132.			Endosperm and endosperm type	https://youtu.be/sn7DxVjWpFw?si=imnOx-Snvqer_76v
133.			Polyembryony	https://youtu.be/cS5n7W1U2qA?si=yThlU22xkv9O20Uz
134.			Parthenocarpy	https://youtu.be/xmr7HYsI1cw?si=KAHtrt309qxFhVoJ
135.			Apomixis	https://youtu.be/BgP9MqNVtcA?si=j_g2VCZMIsoV0xpE
136.			Adventive embryony	https://youtu.be/uPoIYnmE-zw?si=Frd_r6R3a5ZTK_9u

**RK VIGYAN PG COLLEGE KALWAR,
JAIPUR, RAJ.**

B.A./B.Sc. III Year GEOGRAPHY

S.N.	Paper & Name	Unit	TOPIC	Video Link
1.	PAPER – 1 विश्व का प्रादेशिक भूगोल	Section – A	यूरोप के भौतिक प्रदेश/ विभाग	https://youtu.be/nd4MndqA2tQ
2.			एशिया का भू- आकृतिक प्रदेश / एशिया का भूगोल/ एशिया का उच्चावचन	https://youtu.be/IBZKnHwYM_I
3.			एशिया का अपवाह तंत्र	https://youtu.be/ric5QPsxNTY
4.			एशिया के जलवायु प्रदेश (एशिया का भूगोल)	https://youtu.be/wpw_NIyBw9Q
5.			यूरोप की जलवायु	https://youtu.be/E3VGIpLDscY
6.			एशिया की प्राकृतिक वनस्पति (एशिया का भूगोल)	https://youtu.be/i4x70SJyWIg
7.			एशिया में पेट्रोलियम	https://youtu.be/qoB4YDaE1Mo
8.			ब्रिटिश द्वीप समूह	https://youtu.be/rQN44Mm6LD0
9.			यूरोप के कृषि प्रदेश	https://youtu.be/fu-dBvgwfEA
10.			दक्षिण-पूर्व एशिया	https://youtu.be/HCKjVKAdakI

11.			फ्रांस के ओधोगिक प्रदेश	https://youtu.be/IPQbcNNCN6s
12.		Section – B	ब्राजील के भौतिक स्वरुप	https://youtu.be/w8sLwb7TYmA
13.			दक्षिण अमेरिका की जलवायु	https://youtu.be/XAHNirfEIRA
14.			दक्षिण अमेरिका महाद्वीप	https://youtu.be/4_5qtShZ6FM
15.			उतरी अमेरिका महाद्वीप	https://youtu.be/75R740ru0hI
16.			उतरी अमेरिका महाद्वीप की जलवायु	https://youtu.be/jymrJbfXQbg
17.			दक्षिण अमेरिका महाद्वीप की प्राकृतिक वनस्पति	https://youtu.be/1J2vtKVfRE
18.			दक्षिण अमेरिका अपवाह तंत्र	https://youtu.be/o2810J-v2vE
19.		Section – C	आस्ट्रेलिया के जलवायु प्रदेश	https://youtu.be/wYM5P6NIXN8
20.			आस्ट्रेलिया महाद्वीप का अध्ययन (संरचना और उच्चावच)	https://youtu.be/DmFHgkKeAsQ
21.			न्यूजीलैंड के भौतिक विभाग	https://youtu.be/Dbav131mDdk
22.			आस्ट्रेलिया महाद्वीप की वनस्पति	https://youtu.be/chCHrqrGVKw

23.	PAPER-2 भारत का भूगोल	Section – A	भारत के भौतिक प्रदेश	https://youtu.be/Ng1EBx5PFfE
24.			भारत की प्राकृतिक वनस्पति	https://youtu.be/MzwOdqMDHDw
25.			भारत का अपवाह तंत्र	https://youtu.be/xukALFLUW1A
26.			भारत की बहूउद्देश्य परियोजना / सिंचाई परियोजना	https://youtu.be/ptPGaYFrEWM
27.			भारत में कोयला संसाधन	https://youtu.be/ci5JrdoCdEo
28.			राष्ट्रीय खनिज निति	https://youtu.be/7aRUZy2o4HQ
29.		Section – B	भारत मे कृषि गेहूँ उत्पादन, वितरण, भौगोलिक दशाएं	https://youtu.be/vO_fXsXXEyU
30.			भारत के कृषि प्रदेश	https://youtu.be/Bf3i5MUkfGs
31.			भारत में सूती कपड़ा उद्योग	https://youtu.be/X17WQCes7jw
32.			उद्योगो के स्थानीयकरण को प्रभावित करने वाले कारक	https://youtu.be/Z9utejF7CiI
33.			जनसंख्या वितरण जनसंख्या वितरण को प्रभावित करने वाले कारक	https://youtu.be/w-bEzyCKIJQ
34.		Section – C	जल प्रदुषण अर्थ, कारण , नियंत्रण	https://youtu.be/Q4HyhQNILVM

35.			नारी सशक्तिकरण	https://youtu.be/zFCPlxnAnhk
36.			भारत का विदेशी व्यापार	https://youtu.be/UOXZcDrYEIs
37.			भारत में बहुस्तरीय नियोजन	https://youtu.be/c4Ihpz3JFI0
38.			नदी जोड़ो परियोजना	https://youtu.be/4n3DgHoXVjo
39.			शेत्रिय असंतुलन	https://youtu.be/_D-o0i0XQIE