

Dayanand Science College, Latur

E-Content (Video Links)

Mathematics

Class: B. Sc. II Year (Sem-IV)

Sub: Mathematics

Name of Paper: Real Analysis-II

Paper No: IX (MT209)

SRTMUN, SPPU, MU, KUD, AMU, RTMNU, BAMU, NMU, SGBAU etc. Universities
Curriculum

Links of Quality Video Lectures for UG, PG: Dr. Sidheshwar Bellale

Director, Mathematics Research Centre, Dayanand Science College, Latur

Sr. No.	Name of Units / Articles	Video Lecture Link
	Unit-I, II, III, IV	https://youtube.com/playlist?list=PL7TANb4Sj71re45RU06ePGrF6rdRhqbN
I	Unit-I	
1	Syllabus and Pattern	https://youtu.be/axIPazoS3dY
2	Riemann Integral	https://youtu.be/-VWd3_9ZsqU
3	Darboux's Condition of Integrability	https://youtu.be/Y1uYPlaK4ic
4	Examples Darboux's theorem	https://youtu.be/FySb8reAiwc
5		
6	Examples Riemann Integral	https://youtu.be/HxZVznt7eGQ
7	Integral of Sum and Difference	https://youtu.be/AJAZ-XTCy5s
8	Integral of Product and Quotient	https://youtu.be/nmoQ2j-RHSM
9	Riemann Sum	https://youtu.be/QZaJL-nMehU
	Unit-II	
10	The integral as a limit of sums	https://youtu.be/PtN_Molb-GQ
11	Some applications	https://youtu.be/mHf5k7yq4EA
12	Some Integrable functions	https://youtu.be/LfJTurjQvyg
13	Some Integrable functions	https://youtu.be/XwY5-xiIHNg
14	Integration and Differentiation	https://youtu.be/J2539N7tFB8
15	Fundamental Theorem of Calculus	https://youtu.be/bZFDKL8SsuE
16	Mean value theorems of integral calculus.	https://youtu.be/mTmTF1-x4zs
	Unit-III	
17	Improper Integrals of Finite Range	https://youtu.be/06VT4085MaY
18	Integral of Unbounded Functions	https://youtu.be/SoLtEesaaKI
19	Examples on Improper Integral	https://youtu.be/a7yQy5lUF50
20	Examples on Improper Integral	https://youtu.be/CpPppuXKNd8
21	Convergence of Improper	https://youtu.be/cPsq0EBnEHA
22	Comparison tests for convergence of integral	https://youtu.be/0I1_XkvUGj0
23	Comparison tests II	https://youtu.be/AC7UfEum828
24	Useful Comparison Test	https://youtu.be/5mc7BoqJffE
25	General test for Convergence	https://youtu.be/m9_Cpy5w0WA
	Unit-IV	
26	Range of integral is infinite	https://youtu.be/gJDiBr_G7oM
27	Convergence Tests	https://youtu.be/Cc81KzOtEw4

28	Convergence Tests II	https://youtu.be/DXyj9NYi9Ss
29	Useful Integral	https://youtu.be/wInCa8NhTiM
30	Useful Integral	https://youtu.be/7SqBwgjxCqE
31	Examples on Useful Integral	https://youtu.be/2UzmbBk4Njg
32	General Test for Convergence	https://youtu.be/auwVg61g9mE
33	Absolute Convergence	https://youtu.be/n_DuRIovXGw
34	Integrand as Product of Functions	https://youtu.be/z_AatKf7J9c
35	Abel's Test for Convergence	https://youtu.be/xHMMrSE-dRk
36	Dirichlet's Test for convergence	https://youtu.be/443W2E8MyzE
	Completed	
	For perfection in Mathematics: Basics	
1	Sets , Relations and Functions	https://www.youtube.com/playlist?list=P_L7TANb4Sj71pLT9rJJN1XlDpqv9Lythw2
2	Basics for Real Analysis	https://www.youtube.com/playlist?list=P_L7TANb4Sj71okEsD3aX8ABnhxX5XfwXcU
3	Sequences and Series	https://www.youtube.com/playlist?list=P_LzatFovyqhwqWOFegSefz7xOuRomL7De
4	For All Lectures Visit	https://www.youtube.com/channel/UC25Hwz1jT_gwAJU4YEiO6Rg
6	LIVE LECTURES 10:00am-11am (Mon to Friday)	https://www.youtube.com/channel/UC25Hwz1jT_gwAJU4YEiO6Rg/live
	For Updates and Quality Video Links Register/ Visit	https://www.youtube.com/channel/UC25Hwz1jT_gwAJU4YEiO6Rg