

The Berar General Education Society's
SHRI R. L. T. COLLEGE OF SCIENCE, AKOLA
DEPARTMENT OF MATHEMATICS

E-Content

Class Code of Google Classroom

Sr. No.	Session	Class	Class Code
1	2019-20	B.Sc.-III (Mathematics)	dvsgx7d
		M.Sc.-I (Mathematics)	hkm4wl4
		M.Sc.-II (Mathematics)	zdw53z5
2	2020-21	B.Sc.-II (Mathematics)	K2767ud
		B.Sc.-III (Mathematics)	Udrb32w
		M.Sc.-I (Mathematics)	Z27qyli
		M.Sc.-II (Mathematics)	hkm4wl4
3	2021-22	B.Sc.-III (Mathematics)	lbruwfz
		M.Sc.-I (Mathematics)	btdojyd
		M.Sc.-II (Mathematics)	Z27qyli

Video Lectures for PG Classes by Dr. S. B. Tadam

Sr. No	Class	Name of Paper	Link of lecture	Topic
1	M.Sc. II S.III	Functional Analysis I	https://youtu.be/q5sz8m30mOo	Normed space and Banach space.
2	M.Sc. II S.III	Functional Analysis I	https://youtu.be/AJD6h7nNjOA	<ul style="list-style-type: none"> • Every Normed linear space is a metric space. • Norm is a continuous function.
3	M.Sc. II S.III	Functional analysis I	https://youtu.be/qqVjNTtNJoY	Euclidean space R^n is a Banach space.
4	M.Sc. II S.III	Functional analysis I	https://youtu.be/I-FIBF6LcTA	l^p -space is Banach space.
5	M.Sc. II S.III	Functional Analysis I	https://youtu.be/9LHStY1JWj8	Linear space l^∞ of bounded sequences is Banach space.
6	M.Sc. II S.III	Functional Analysis I	https://youtu.be/sz9MQdERdHY	Quotient space is a Normed Linear space.
7	M.Sc. II S.III	Functional analysis I	https://youtu.be/3kVHrhGr69s	Completeness in Quotient space.
8	M.Sc. II S.III	Functional Analysis I	https://youtu.be/bxvnxSog4xc	Equivalent Norms
9	M.Sc. II S.III	Functional Analysis I	https://youtu.be/gcX5yXym9Zk	Riesz's Lemma
10	M.Sc. II S.III	Functional analysis I	https://youtu.be/tB9fMCXAmhU	An important lemma in Normed Linear spaces
11	M.Sc. II S.III	Functional analysis I	https://youtu.be/D4hs_HWooQ0	Properties of finite dimensional normed linear spaces.
12	M.Sc. II S.III	Functional Analysis I	https://youtu.be/iBRzOSVZC0I	Theorem on Finite dimensional Normed space
13	M.Sc. II S.III	Functional Analysis I	https://youtu.be/Dml7kTMeoIU	Continuous Function and Compact Space
14	M.Sc. II S.III	Functional Analysis I	https://youtu.be/tFaPkFum-o8	Linear Operator
15	M.Sc. II S.III	Functional Analysis I	https://youtu.be/C44-Bh7FL0Q	Theorem on Range and Null Space of a Linear Operator
16	M.Sc. II S.III	Functional Analysis I	https://youtu.be/tIJGomqq1-A	Theorem on Inverse Operator
17	M.Sc. II S.III	Functional Analysis I	https://youtu.be/JNIrlv25yY	Bounded Linear Operators
18	M.Sc. II S.III	Functional Analysis I	https://youtu.be/WgtEdOP87AU	Theorems Bounded Linear Operators

19	M.Sc. II S.III	Functional Analysis I	https://youtu.be/HlpJxDojM6g	Canonical Mapping Part I
20	M.Sc. II S.III	Functional Analysis I	https://youtu.be/394-JoIvO_Q	Canonical Mapping Part II
21	M.Sc. II S.III	Functional Analysis I	https://youtu.be/ib9CO8bbJ9E	Linear Operators and Functional on finite dimensional spaces.
22	M.Sc. II S.III	Functional Analysis I	https://youtu.be/zuNzRkZMoll	Theorem on dimension of Algebraic dual space of finite dimensional vector space.
23	M.Sc. II S.III	Functional Analysis I	https://youtu.be/ZQkVYXSlrJ8	Algebraic Reflexivity
24	M.Sc. II S.III	Functional Analysis I	https://youtu.be/gbw1jZ83S14	Baire's Category Theorem (Complete Metric spaces)
25	M.Sc. II S.III	Functional Analysis I	https://youtu.be/PX7Ljq8IQ18	Uniform Boundedness Theorem
26	M.Sc. II S.III	Functional Analysis I	https://youtu.be/-3zGcA9Xy-8	Hahn Banach Theorem (Extension of Linear Functionals) Part I
27	M.Sc. II S.III	Functional Analysis I	https://youtu.be/ikRIvDQwTfo	Hahn Banach Theorem (Extension of Linear Functionals) Part II
28	M.Sc. II S.III	Functional Analysis I	https://youtu.be/0fTyN6JM1kc	Hahn Banach Theorem (Extension of Linear Functionals) Part III

Video Lectures for UG Classes by Dr. S .B. Tadam

Sr. No	Class	Name of Paper	Link of lecture	Topic
1	B.Sc .3S.5	Mathemati cal Analysis	https://drive.google.com/file/d/1W_iALOHBdfDRM5N0fSWQR0Hu_cvVfjs6/view?usp=sharing	Metric spaces
2	B.Sc .3S.5	Mathemati cal Analysis	https://drive.google.com/file/d/1XT5Ey-iSrtc3IJJxEFzj3qfCBWeh0mLi/view?usp=sharing	Examples of Metricspaces
3	B.Sc .3S.5	Mathemati cal Analysis	https://drive.google.com/file/d/1YRvzSX1Udk8R9gFSUA-NApjHGxW4Xsja/view?usp=sharing	Examples of Metiic spaces
4	B.Sc .3S.5	Mathematical Analysis	https://drive.google.com/file/d/1ZAd896jARsebKvPtnvznHBLA7qjky_DW/view?usp=sharing	Boundedmetiic spaces
5	B.Sc .3S.5	Mathematical Analysis	https://drive.google.com/file/d/1-nNAVZHvy9Wrx7WC5LdVuINw0js2CGr_/view?usp=sharing	Demoiġan's law
6	B.Sc .3S.5	Mathematical Analysis	https://drive.google.com/file/d/1_kAIkJOW-uwcIVOCgTXezS15Av6y8aXm/view?usp=sharing	Some important results
7	B.Sc .3S.5	Mathematical Analysis	https://drive.google.com/file/d/1aib9oMK1cLk3FVQl13nPj8kMEMNP7PuY/view?usp=sharimg	Theorems
8	B.Sc .3S.5	Mathematical Analysis	https://drive.google.com/file/d/11nNNIYWKP OS1ZT05ItiLvHPDIoyIOyIU FuU/view?usp=s haring	Examples on uppei and lower sums
9	B.Sc .3S.5	Mathematical Analysis	https://drive.google.com/file/d/11FwYm9I91N764RV9JXdOcACnxecGbo/view?usp=sharing	Theorems on Open sets
10	B.Sc .3S.5	Mathematical Analysis	https://drive.google.com/file/d/11f3xGsBQniciVNAJar79Vi1Dw0H7rtxW/view?usp=sharing	Theorems on Open sets
11	B.Sc .3S.5	Mathematical Analysis	https://drive.google.com/file/d/12PYjutueAcN O4RdW1Uu-yeKOGK1AwOYO/view?usp=sharing	Theorems on Open sets
12	B.Sc .3S.5	Mathematical Analysis	https://drive.google.com/file/d/13aMeJZ4stfG9HHE2L9TWTtBLDgsNkO-y/view?usp=sharing	Theorems on closed sets
13	B.Sc .3S.5	Mathemati cal Analysis	https://drive.google.com/file/d/14MPq_AcSeB7iR_gfmg2XmSNfK3oXyvds/view?usp=sharing	Subspaces
14	B.Sc .3S.5	Mathemati cal Analysis	https://drive.google.com/file/d/14gF9odvtvta5psoHiRJU5CI_Wx1iiGek/view?usp=sharing	Open spherieand Closed spherie
15	B.Sc .3S.5	Mathemati cal Analysis	https://drive.google.com/file/d/15RVUISqYyMjo4BF-XDctuZ1pGP0HEY1n/view?usp=sharing	Relation between Cauchy sequence and conveġent sequence

16	B.Sc.3 S.5	Mathematical Analysis	https://drive.google.com/file/d/16R5W8ksRG1tIg58R6p-PtDVo2bUhq0_u/view?usp=sharing	Refinement of a partition
17	B.Sc.3 S.5	Mathematical Analysis	https://drive.google.com/file/d/11nNNIYWKPO S1ZTO5ltiLvHPDIOylUFuU/view?usp=sharing	Examples of Upper and Lower sums
18	B.Sc.3 S.5	Mathematical Analysis	https://drive.google.com/file/d/148edGqltr2YjHkYn9esQVceqDAXMaEY2/view?usp=sharing	Fundamental Theorem of Calculus
19	B.Sc.3 S.5	Mathematical Analysis	https://drive.google.com/file/d/15C5fiGmSPSAN2jSupESvT26iSnGap9uQ/view?usp=sharing	Improper Integrals
20	B.Sc.3 S.5	Mathematical Analysis	https://drive.google.com/file/d/16cQ1KsuK4AdvZAti19cJVGQjy4ooexsv/view?usp=sharing	Quotient Test or Comparison Test 2
21	B.Sc.3 S.5	Mathematical Analysis	https://drive.google.com/file/d/16jxnQzft_OsREwJQsNzvgpVdhbk1QG8U/view?usp=sharing	Limit Tests
22	B.Sc.2 S.3	Advanced Calculus	https://drive.google.com/file/d/1YP16db-6fv0kV7YyWRBcXMkacQrCs9jN/view?usp=sharing	Some special sequences
23	B.Sc.2 S.3	Advanced Calculus	https://drive.google.com/file/d/16iSWmGdgGTXDotH9yqYObk7PCWhkkAcD/view?usp=sharing	Limit test of convergence of type A integrals
24	B.Sc.2 S.3	Advanced Calculus	https://drive.google.com/file/d/17mYkkdmZbUTqGfyqAR15tOjwO4OxTNg-/view?usp=sharing	Convergence test for Integral of Type B
25	B.Sc.2 S.3	Advanced Calculus	https://drive.google.com/file/d/1Ybu2rQ0vaZ3xzuVln_atfpf6n_9nindH/view?usp=sharing	Sum, Product and Quotient of a sequence
26	B.Sc.2 S.3	Advanced Calculus	https://drive.google.com/file/d/1Zlalmefvjc7hM8SMw26geo25hBM8TVEf/view?usp=sharing	Limit of a sequence
27	B.Sc.2 S.3	Advanced Calculus	https://drive.google.com/file/d/1ZdOnjP72-5UJA-t4TVmalWdOuy4FwUxm/view?usp=sharing	Uniqueness of limit of a sequence
28	B.Sc.2 S.3	Advanced Calculus	https://drive.google.com/file/d/1_sktkw5sAZqr3l057A8R0MzcPB1q_JW/view?usp=sharing	Corollaries on Positivity Theorem
29	B.Sc.2 S.3	Advanced Calculus	https://drive.google.com/file/d/1_uI6KMuvsLS4NU4ERhv99tT-pg8qCxyN/view?usp=sharing	Corollaries on Positivity Theorem

Name of the Teacher : Dr. S. L. Munde (Assistant Professor)
(M.Sc., M.Phil., Ph.D. in Mathematics)

E-Content

B.Sc.-III (Sem-V & Sem-VI) Video Lectures

Subject : Mathematics

Semester-V (Mathematics-X , Paper : Mathematical Methods)

UNIT-I : Legendre's Function

https://youtube.com/playlist?list=PLjvpTkU73kkT0rbCDg-8zf1KI9uYp_wuF

UNIT-II : Bessel Functions

<https://youtube.com/playlist?list=PLjvpTkU73kkQiQKEBL22MvDMI0iu283c6>

UNIT-III : Fourier Series

<https://youtube.com/playlist?list=PLjvpTkU73kkQqxCs93pt2d0Kp3R5r82QE>

UNIT-IV : Laplace Transforms

<https://youtube.com/playlist?list=PLjvpTkU73kkQZk0pc4Q7fw8bJCrn5OeUI>

UNIT-V : Fourier Transforms

https://youtube.com/playlist?list=PLjvpTkU73kkTwVBCpT7XZmi_riMjirST2

Semester-I (Paper-III : 103 Complex Analysis)

UNIT-I :

<https://youtube.com/playlist?list=PLjvpTkU73kkTI6WG0l4As8GhoWMPHXZDI>

UNIT-II :

<https://youtube.com/playlist?list=PLjvpTkU73kkRjTq-KBOhEfXKMf7sAzf4p>

UNIT-III :

https://youtube.com/playlist?list=PLjvpTkU73kkRA-lcSqWSjjCfvROb4_-xr

UNIT-IV :

<https://youtube.com/playlist?list=PLjvpTkU73kkRNN0zJ5BIF861EKUc1LX8V>

UNIT-V :

https://youtube.com/playlist?list=PLjvpTkU73kkSsZNxgCnbueghibj9G_Mbd

M.Sc.-II Mathematics (Sem-III & Sem-IV) Video Lectures

Semester-III (Paper-XIII : 303 Operations Research)

UNIT-I :

<https://youtube.com/playlist?list=PLjvpTkU73kkSQ-yiI5NVgfUV6zMITz94W>

UNIT-II :

<https://youtube.com/playlist?list=PLjvpTkU73kkStpcVEdsit2zCcPX-p5oHX>

UNIT-III :

<https://youtube.com/playlist?list=PLjvpTkU73kkSdKF-WMowAOVIT1BE 30rA>

UNIT-IV :

<https://youtube.com/playlist?list=PLjvpTkU73kkSVHn88urcs6Fgizd889vaS>

UNIT-V :

<https://youtube.com/playlist?list=PLjvpTkU73kkSdKF-WMowAOVIT1BE 30rA>

Semester-VI (Mathematics-XII , Paper : Graph Theory)

UNIT-I :

<https://classroom.google.com/c/MjQwMjIwODUxOTg2/p/MzY5NTA2MjUzNjIz/details>

<https://classroom.google.com/c/MjQwMjIwODUxOTg2/p/MzY5ODIxMTUxOTUz/details>

<https://classroom.google.com/c/MjQwMjIwODUxOTg2/p/MzY5ODIyNDMzNjE5/details>

<https://classroom.google.com/c/MjQwMjIwODUxOTg2/p/MzcyMDA5NjIzNDYz/details>

<https://classroom.google.com/c/MjQwMjIwODUxOTg2/p/MzcyMDA5NjIzNDg3/details>

<https://classroom.google.com/c/MjQwMjIwODUxOTg2/p/MzcyNjIyNzEyMTE3/details>

<https://classroom.google.com/c/MjQwMjIwODUxOTg2/p/MzcyNzk3MjA1NTYx/details>

<https://classroom.google.com/c/MjQwMjIwODUxOTg2/p/MzcyNzk3MjA1NTgx/details>

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<https://classroom.google.com/c/MjQwMjIwODUxOTg2/p/MzczNTc5MzA4Mzky/details>

UNIT-II :

<https://classroom.google.com/c/MjQwMjIwODUxOTg2/p/Mzc0MDA3ODY1OTUz/details>

<https://classroom.google.com/c/MjQwMjIwODUxOTg2/p/Mzc0MDA3ODY1OTYx/details>

<https://classroom.google.com/c/MjQwMjIwODUxOTg2/p/Mzc0MTUzMzMwMzUw/details>

<https://classroom.google.com/c/MjQwMjIwODUxOTg2/p/Mzc0MTUzMzMwMzU1/details>

<https://classroom.google.com/c/MjQwMjIwODUxOTg2/p/Mzc0MjMzNTA4MzIz/details>

<https://classroom.google.com/c/MjQwMjIwODUxOTg2/p/Mzc0MjMzNTA4MzMz/details>

<https://classroom.google.com/c/MjQwMjIwODUxOTg2/p/Mzc0MjMzNTA4MzMz/details>

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