

Sem. I

Subject – Basic Mathematics (Code DMA 1102)

Total Lectures 7 (Theory 4 + Tutorial 3)

Syllabus

Unit I – Logarithm, Partial Fractions, Complex Numbers

Unit II – Determinant , Matrices

Unit III – Trigonometry

Unit V – Mensuration, Statistics

Unit IV – Straight Line

Unit VI – Numerical Methods

Learning Resources :

I) Mathematics Educational Channel on You Tube

Instructions for students regarding channel

- 1) Type the name “Dr.R.K.Jadhav” in You Tube search box and enter. You will see Mathematics Educational Channel.
- 2) Subscribe this channel and click on bell icon for the notification of upcoming videos.
- 3) Go to playlist and click. There are two subjects. Basic Mathematics is for Sem. I and Applied Mathematics is for Sem. II.
- 4) There are videos of 10-12 minutes on every topic. Students are informed to watch all videos to build your confidence and progress in your result.

II) Apps

Following apps are available free on the website.

Sr.No.	Mobile Apps	Developer	Website
1	MathsRK2	Dr.R.K.Jadhav	www.amazon.com
2	MathRK 3-4	Dr.R.K.Jadhav	www.amazon.com
3	Applied Mathematics	Dr.R.K.Jadhav	www.amazon.com

Procedure to download apps:

- 1) First create your account on the website www.amazon.com
- 2) Type the name of app MathsRK2, MathRK 3-4 and Applied Mathematics in the search box and enter.
- 3) Then you see the app icon and click on Get and download.
- 4) After downloading, click on install.

Note : Amazon App and PDF reader are requirement for this app. Students are also inform to download these two apps.

III) Website

Sr.No.	Website	Developer
1	www.mathsrk.weebly.com	Dr.R.K.Jadhav

Important Note: All students are informed to download learning notes, question-papers and other related material from the website.

Procedure to download learning notes:

- 1) Open the above website.
- 2) Go to More menu and click.
- 3) Click on Basic Mathematics.
- 4) Then download all notes.

Important features of Apps and Website:

- 2000 important formulae from Std, VII up to Ph,D, level
- Theory, solved and practice examples of Basic Mathematics and Applied Mathematics
- Previous question-papers of IoPE and BTE
- Question bank for study
- Beneficial for all students and teachers of Science and Technology

IV) Text Books

- 1) A Textbook of Engineering Mathematics - Prof. G.V. Kumbhojkar , Phadake Prakashan, Kolhapur
- 2) Mathematics for Polytechnic, Pune - Prof.S.P.Deshpande, Vidyarthee Gruha Prakashan, Pune
- 3) Basic Mathematics - Prof.B.M.Patel, Nirali Prakashan, Mumbai

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Examination System

Mid Semester Examination - Marks 30

End Semester Examination - Marks 70

Note - Test examination answer-books will be shown in class-room teaching session.

Semester examination answer-books will be shown as per the notice display on the notice board.

Instructions to students

- 1) Students should maintain discipline in teaching-learning process.
- 2) Attendance is compulsory.
- 3) Solving tutorial and submission of tutorial notebook is compulsory.
Otherwise you are in the defaulter list and not permitted to appear for examination.
Their result will not be declared.