

## Academic Year 2021-22

### Sem. I

### Subject – Basic Mathematics (Code DMA 1101)

Total Lectures 7 ( Theory 4 + Tutorial 3)

Mid Semester Exam. – Marks 30

End Semester Examination – Marks 70

### Syllabus

Unit I – Logarithm, Partial Fractions, Complex Numbers

Unit II – Determinant , Matrices

Unit III – Trigonometry

Unit IV – Straight Line

Unit V – Mensuration, Statistics

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 117 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	<a href="http://www.amazon.com">www.amazon.com</a>
2	MathRK 3-4	Dr.R.K.Jadhav	<a href="http://www.amazon.com">www.amazon.com</a>
3	Applied Mathematics	Dr.R.K.Jadhav	<a href="http://www.amazon.com">www.amazon.com</a>

### Procedure to download apps:

- 1) First create your account on the website [www.amazon.com](http://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	<a href="http://www.mathsrk.weebly.com">www.mathsrk.weebly.com</a>	Dr.R.K.Jadhav

#### 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

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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.