

Rayat Shikshan Sanstha's
Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department of Mathematics

Course- Magic in Math's 2020-21

List of the Students

Roll.No	Name of the Students
1556	Chavan Gayatri Dadaso
1592	Chavan Rohan Sambhaji
1593	Chougule Supriya Suresh
1594	Dhokale Jayesh Hanmant
1595	Gaste Vinay Shankar
1596	Jadhav Digambar Vilas
1597	Lad Vishwajeet Vijay
1598	Lokhande Tushar Nagesh
1599	Mohite Pankaj Mahadev
1600	Mohite Sahil Anil
1601	Mohite Sharad Shivaji
1602	Mulik Akash Vishwas
1603	Nalawade Omkar Bharat
1604	Patil Pratik Dhondiram
1605	Patil Rutuja Ananda
1606	Pawar Kajal Vijay
1607	Pawar Ketan Sandip
1608	Pawar Priti Manik
1609	Phatak Ashutosh Bhimrao
1610	Salunkhe Rahul Lalaso
1611	Shinde Unmesh Ramdas
1612	Vibhute Omkar Balasaheb

Pradip
Head,

Department of Mathematics

Rayat Shikshan Sanstha's

Dr.Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department of Mathematics

Value added Course 2020-21

Magic in maths

TIME TABLE

Sr.No.	Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	10.00 to 11.00 a.m.	MIM	MIM	MIM	MIM	MIM	MIM

#Note MIM= Magic in Math's

Prage

Head,

Department of Mathematics

Rayat Shikshan Sanstha's

Dr.Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)



Department of Mathematics

Value added Course 2020-21

Magic in maths

Teacher Attendance

Date	Name of Faculty	Theory/Practical	Signature
15/02/2021	Prof. Shinde A.R.	Theory	Shinde
16/02/2021	Prof. Shinde A.R.	Theory	Shinde
17/02/2021	Prof. Shinde A.R.	Theory	Shinde
18/02/2021	Prof. Shinde A.R.	Theory	Shinde
20/02/2021	Prof. Shinde A.R.	Theory	Shinde
22/02/2021	Prof. Shinde A.R.	Theory	Shinde
23/02/2021	Prof. Shinde A.R.	Theory	Shinde
24/02/2021	Prof. Shinde A.R.	Theory	Shinde
25/02/2021	Prof. Shinde A.R.	Theory	Shinde
26/02/2021	Prof. Shinde A.R.	Theory	Shinde
27/02/2021	Prof. Shinde A.R.	Theory	Shinde
01/03/2021	Prof. Shinde A.R.	Theory	Shinde
02/03/2021	Prof. Shinde A.R.	Theory	Shinde
03/03/2021	Prof. Shinde A.R.	Theory	Shinde
04/03/2021	Prof. Shinde A.R.	Theory	Shinde
05/03/2021	Prof. Shinde A.R.	Theory	Shinde
06/03/2021	Prof. Shinde A.R.	Theory	Shinde
15/03/2021	Prof. Shinde A.R.	Theory	Shinde
16/03/2021	Prof. Shinde A.R.	Theory	Shinde
17/03/2021	Prof. Shinde A.R.	Theory	Shinde
18/03/2021	Prof. Shinde A.R.	Theory	Shinde
19/03/2021	Prof. Shinde A.R.	Theory	Shinde
20/03/2021	Prof. Shinde A.R.	Theory	Shinde
22/03/2021	Prof. Shinde A.R.	Theory	Shinde
23/03/2021	Prof. Shinde A.R.	Theory	Shinde
24/03/2021	Prof. Shinde A.R.	Theory	Shinde
25/03/2021	Prof. Shinde A.R.	Theory	Shinde
26/03/2021	Prof. Shinde A.R.	Theory	Shinde

27/03/2021	Prof. Shinde A.R.	Theory	
30/03/2021	Prof. Shinde A.R.	Theory	


Head,

Department of Mathematics

Rayat Shikshan Sanstha's
Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department of Mathematics

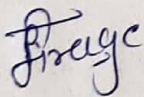
Value added Course 2020-21

Magic in Math's

Notice

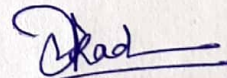
Date- 24/03/2021

All the students of B.Sc.-I hereby informed that the examination of value added course-**Magic in Math's** will be held on 27/03/2021, Saturday at 10.00 to 11.00 am. However, everyone should be present for the exam.



Head,

Department of Mathematics



Principal,

Dr. Patangrao Kadam Mahavidyalaya,

Ramanandnagar (Burli)

Rayat ShikshanSanstha's
Dr.Patangrao KadamMahavidyalaya, Ramanandnagar (Burli)

Department of Mathematics

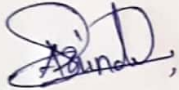
Value added Course 2020-21

Magic in maths

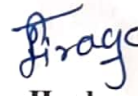
Time table

Date	Name of Faculty	Time	Theory/Practical
15/02/2021	Prof. Shinde A.R.	10.00 to 11.00	Theory
16/02/2021	Prof. Shinde A.R.	10.00 to 11.00	Theory
17/02/2021	Prof. Shinde A.R.	10.00 to 11.00	Theory
18/02/2021	Prof. Shinde A.R.	10.00 to 11.00	Theory
20/02/2021	Prof. Shinde A.R.	10.00 to 11.00	Theory
22/02/2021	Prof. Shinde A.R.	10.00 to 11.00	Theory
23/02/2021	Prof. Shinde A.R.	10.00 to 11.00	Theory
24/02/2021	Prof. Shinde A.R.	10.00 to 11.00	Theory
25/02/2021	Prof. Shinde A.R.	10.00 to 11.00	Theory
26/02/2021	Prof. Shinde A.R.	10.00 to 11.00	Theory
27/02/2021	Prof. Shinde A.R.	10.00 to 11.00	Theory
01/03/2021	Prof. Shinde A.R.	10.00 to 11.00	Theory
02/03/2021	Prof. Shinde A.R.	10.00 to 11.00	Theory
03/03/2021	Prof. Shinde A.R.	10.00 to 11.00	Theory
04/03/2021	Prof. Shinde A.R.	10.00 to 11.00	Theory
05/03/2021	Prof. Shinde A.R.	10.00 to 11.00	Theory
06/03/2021	Prof. Shinde A.R.	10.00 to 11.00	Theory
15/03/2021	Prof. Shinde A.R.	10.00 to 11.00	Theory
16/03/2021	Prof. Shinde A.R.	10.00 to 11.00	Theory
17/03/2021	Prof. Shinde A.R.	10.00 to 11.00	Theory
18/03/2021	Prof. Shinde A.R.	10.00 to 11.00	Theory
19/03/2021	Prof. Shinde A.R.	10.00 to 11.00	Theory
20/03/2021	Prof. Shinde A.R.	10.00 to 11.00	Theory
22/03/2021	Prof. Shinde A.R.	10.00 to 11.00	Theory
23/03/2021	Prof. Shinde A.R.	10.00 to 11.00	Theory
24/03/2021	Prof. Shinde A.R.	10.00 to 11.00	Theory
25/03/2021	Prof. Shinde A.R.	10.00 to 11.00	Theory
26/03/2021	Prof. Shinde A.R.	10.00 to 11.00	Theory

27/03/2021	Prof. Shinde A.R.	10.00 to 11.00	Theory
30/03/2021	Prof. Shinde A.R.	10.00 to 11.00	Theory



Prof. Shinde A.R.
(Coordinator)



Head,
Department of Mathematics

Rayat Shikshan Sanstha's

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department of Mathematics

Course- Magic in Math's 2020-21

Syllabus

Unit-I Derivative and Continuity

- ❖ Introduction
- ❖ Left hand derivative, Right hand derivative, limit, left hand limit, right hand limit.
- ❖ Chain Rule and Division Rule.
- ❖ Definition of Continuity (continuous function).
- ❖ Examples.
- ❖ L'Hospital's Rule.
- ❖ Indeterminate forms- $\frac{0}{0}$, $0 * 0$, $\frac{\infty}{\infty}$

Unit-II Differential Equation

- ❖ Introduction
- ❖ Definition of differential equation and examples.
- ❖ Linear differential equation.
- ❖ Solution of linear equation and examples.
- ❖ Bernoulli's equation and examples.

Unit-III Integration

- ❖ Introduction
- ❖ Definite and Indefinite integral
- ❖ Properties of integration
- ❖ Integration of trigonometric function
- ❖ Integration By parts Rule (LIATE rule)
- ❖ Examples

Rayat Shikshan Sanstha's

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department of Mathematics

Course- Magic in Math's

2020-21

Programme Outcomes

After completion of this programme students will be able to:

- ❖ **PO-1:** Calculate left hand derivative, right hand derivative, left hand limit, right hand limit.
- ❖ **PO-2:** Explain Chain Rule, Division Rule, L'Hospital's Rule and Indeterminate forms- $\frac{0}{0}$, $0 * 0$, $\frac{\infty}{\infty}$
- ❖ **PO-3:** Evaluate limits using Indeterminate forms- $\frac{0}{0}$, $0 * 0$, $\frac{\infty}{\infty}$.
- ❖ **PO-4:** Examine continuity of various functions.
- ❖ **PO-5:** Solve differential equation by choosing proper method.
- ❖ **PO-6:** Tell definitions of definite and indefinite integration.
- ❖ **PO-7:** Illustrate properties of integration.
- ❖ **PO-8:** Evaluate integration of Trigonometric functions.
- ❖ **PO-9:** Use Integration by parts rule to find integration of multiplication of two functions.

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department of Mathematics 2020-21.

Attendance Sheet

B.Sc.I **Month- March**

Sr.No	Name of the Student	15/12	16/12	17/12	18/12	19/12	20/12	21/12	22/12	23/12	24/12	25/12	26/12	27/12	11/3/21	12/3/21	13/3/21	14/3/21	15/3/21	16/3/21	17/3/21	18/3/21	19/3/21	20/3/21	21/3/21	22/3/21	23/3/21	24/3/21	25/3/21	26/3/21	27/3/21	28/3/21				
1	Chavan Gayatri Dadaso	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
2	Chavan Rohan Sambhaji	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
3	Chougule Supriya Suresh	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
4	Dhokale Jayesh Hanmant	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
5	Gaste Vinay Shankar	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P		
6	Jadhav Digambar Vilas	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
7	Lad Vishwajeet Vijay	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
8	Lokhande Tushar Nagesh	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
9	Mohite Pankaj Mahadev	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
10	Mohite Sahil Anil	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P

Rayat Shikshan Sanstha's

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department of Mathematics

Value added Course 2020-21

B.Sc.-I Examination

Magic in math's

Day and Date: Saturday, 27/03/2021

Total Marks: 20

Name of student:

Roll No:

Que) Solve the any FIVE questions?

1. Evaluate the integral $\int x \tan^{-1} x dx$
2. Solve $(1 - x^2) \frac{dy}{dx} + xy = xy^2$
3. Solve $\frac{dy}{dx} = \sqrt{\frac{1-y^2}{1-x^2}}$. Also find the particular solution if $x = 0$ when $y = 1$
4. Define
 1. Limit of a function
 2. Continuous function [Continuity]
5. Evaluate $\lim_{x \rightarrow 0} \frac{x e^x - \log(1+x)}{x^2}$
6. Evaluate $\lim_{x \rightarrow 0} \frac{\log \tan x}{\log \sin x}$

Rayat Shikshan Sanstha's
Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department of Mathematics

Value Added Course: Magic in Math's

Attendance Sheet

B.Sc.-I (Exam)

Date: 27/03/2021

Time: 1 hour

Marks: 20

Roll No.	Name of the Students	Signature
1592	Chavan Rohan Sambhaji	Rohan
1593	Chougule Supriya Suresh	Supriya
1594	Dhokale Jayesh Hanmant	Jayesh
1595	Gaste Vinay Shankar	Shankar
1596	Jadhav Digambar Vilas	Digambar
1597	Lad Vishwajeet Vijay	Vijay
1598	Lokhande Tushar Nagesh	Tushar
1599	Mohite Pankaj Mahadev	Pankaj
1600	Mohite Sahil Anil	S. A. Mohite
1601	Mohite Sharad Shivaji	Sharad
1602	Mulik Akash Vishwas	Akash
1603	Nalawade Omkar Bharat	Nalawade O.B
1604	Patil Pratik Dhondiram	Pratik
1605	Patil Rutuja Ananda	Patil RA
1606	Pawar Kajal Vijay	K.V. Pawar
1607	Pawar Ketan Sandip	Ketan
1608	Pawar Priti Manik	Priti
1609	Phatak Ashutosh Bhimrao	Ashutosh
1610	Salunkhe Rahul Lalaso	Rahul
1611	Shinde Unmesh Ramdas	Shinde
1612	Vibhute Omkar Balasaheb	
1556	Chavan Gayatri Dadaso	Gayatri

Rayat Shikshan Sanstha's
Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department of Mathematics

Value added Course 2020-21

B.Sc.-I Examination Marksheet

Magic in math's

Day and Date: Saturday, 27/03/2021

Total Marks: 20

Sr.No.	Roll No.	Name of the student	Marks
1	1592	Chavan Rohan Sambhaji	12
2	1593	Chougule Supriya Suresh	16
3	1594	Dhokale Jayesh Hanmant	10
4	1595	Gaste Vinay Shankar	16
5	1596	Jadhav Digambar Vilas	12
6	1597	Lad Vishwajeet Vijay	12
7	1598	Lokhande Tushar Nagesh	14
8	1599	Mohite Pankaj Mahadev	12
9	1600	Mohite Sahil Anil	10
10	1601	Mohite Sharad Shivaji	10
11	1602	Mulik Akash Vishwas	16
12	1603	Nalawade Omkar Bharat	12
13	1604	Patil Pratik Dhondiram	12
14	1605	Patil Rutuja Ananda	20
15	1606	Pawar Kajal Vijay	20
16	1607	Pawar Ketan Sandip	16
17	1608	Pawar Priti Manik	16
18	1609	Phatak Ashutosh Bhimrao	10
19	1610	Salunkhe Rahul Lalaso	12
20	1611	Shinde Unmesh Ramdas	12
21	1612	Vibhute Omkar Balasaheb	10
22	1556	Chavan Gayatri Dadaso	20

A.R. Shinde

Shinde
Head,

Department of Mathematics

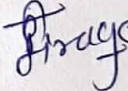
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Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department of Mathematics

Course- Magic in Math's 2020-21
Annual Report

The department of mathematics conduct a value added course, Magic in Math's for the B.Sc.-I students. In this academic year 22 students are enrolled for this course.

This course has been started from 15 Feb 2021 to 10 March 2021. After the completion of course students familiar with basic concepts of mathematics such as finding derivatives, integrations, limit and continuity of a function, differential equation etc.


Head,

Department of Mathematics

Rayat ShikshanSanstha's
Dr.Patangrao kadam Mahavidyalaya, Ramanandnagar (Burli)
Department of Mathematics
Value added Course 2020-21

Course Name: Magic in maths.

Date:

Name of student:

Roll No:

FEEDBACK FORM

1. What is your overall assessment of the course?(1=insufficient-5=excellent)

1 2 3 4 5

2. Which topics or aspects of the course did you find most interesting or useful?

3. Knowledge and information gained from participation at this course?

Met your Expectations.

Yes

No.

Same how

Will be useful/Applicable in my work.

Definitely

Mostly

Somehow

Not at all

4. Comments and Suggestions

Signature

"Education through Self-help is our motto"-Karmveer

Rayat Shikshan Sanstha's

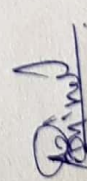
Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burl)

Tal: Palus, Dist: Sangli, Pin: 416308

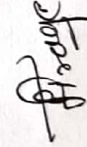
Value Added Course- Magic in Math's

CERTIFICATE

This is to certify that Shri. /Smt. of Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burl) Participated One Month's value added course entitled " **Magic in Math's**" organized by Department of Mathematics, Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burl) From 15/02/2021 to 10/03/2021.


Miss Shinde A.R.

Co-ordinate


Head,

Department of Mathematics

Principal,

Dr. Patangrao Kadam Mahavidyalaya,

Ramanandnagar (Burl)