

Value Added Course 2023-24



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

Department of Mathematics

Value Added Course 2023-24

Magic in Maths

COMMITTEE

Sr. No	Name of Faculty	Designation
1.	Smt. Jirage P.D.	Chairman
2.	Miss. Suryawanshi R.V.	Member
2.	Dr. Patil N.S.	Member
3.	Miss. Sovdande T.S	Member

Agenda:

1. To Arrange Value Added Course entitles Magic in Maths.
2. To start skill courses in mathematics for getting job opportunities.

Jirage

Head,
Department of Mathematics
Dr. Patangrao Kadam Mahavidyalaya,
Ramanandnagar, (Burli).

Pet

Principal,
Dr. Patangrao Kadam Mahavidyalaya,
Ramanandnagar (Burli)
Tal. Palus, Dist. Sangli.

Rayat Shikshan Sanstha's

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)

Department of Mathematics

Course- Magic in Maths 2023-24

Syllabus

Unit-I Derivative and Continuity

10 Lectures

- ❖ 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- $\frac{0}{0}$, $0 \cdot \infty$, $\frac{\infty}{\infty}$

Unit-II Differential Equation

10 Lectures

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

Unit-III Integration

10 Lectures

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

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Department of Mathematics
Course- Magic in Maths
2023-24

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.

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Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)
Department of Mathematics
Course- Magic in Maths 2023-24
Time-Table

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

#Note- MIM=Magic in Math's

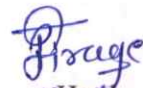

Head,
Department of Mathematics
Dr. Patangrao Kadam Mahavidyalaya
Ramanandnagar, (Burli).

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Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)
Department of Mathematics
Value added Course 2023-24
Magic in maths

Time table

Date	Name of Faculty	Time	Theory/Practical
03/10/2023	Prof. Suryawanshi R. V	10.00 to 11.00	Theory
04/10/2023	Prof. Suryawanshi R. V	10.00 to 11.00	Theory
05/10/2023	Prof. Suryawanshi R. V	10.00 to 11.00	Theory
06/10/2023	Prof. Suryawanshi R. V	10.00 to 11.00	Theory
07/10/2023	Prof. Suryawanshi R. V	10.00 to 11.00	Theory
09/10/2023	Prof. Suryawanshi R. V	10.00 to 11.00	Theory
10/10/2023	Prof. Suryawanshi R. V	10.00 to 11.00	Theory
11/10/2023	Prof. Suryawanshi R. V	10.00 to 11.00	Theory
12/10/2023	Prof. Suryawanshi R. V	10.00 to 11.00	Theory
13/10/2023	Prof. Suryawanshi R. V	10.00 to 11.00	Theory
14/10/2023	Prof. Suryawanshi R. V	10.00 to 11.00	Theory
16/10/2023	Prof. Suryawanshi R. V	10.00 to 11.00	Theory
17/10/2023	Prof. Suryawanshi R. V	10.00 to 11.00	Theory
18/10/2023	Prof. Suryawanshi R. V	10.00 to 11.00	Theory
19/10/2023	Prof. Suryawanshi R. V	10.00 to 11.00	Theory
20/10/2023	Prof. Suryawanshi R. V	10.00 to 11.00	Theory
21/10/2023	Prof. Suryawanshi R. V	10.00 to 11.00	Theory
23/10/2023	Prof. Suryawanshi R. V	10.00 to 11.00	Theory
25/10/2023	Prof. Suryawanshi R. V	10.00 to 11.00	Theory
26/10/2023	Prof. Suryawanshi R. V	10.00 to 11.00	Theory
27/10/2023	Prof. Suryawanshi R. V	10.00 to 11.00	Theory
28/10/2023	Prof. Suryawanshi R. V	10.00 to 11.00	Theory
30/10/2023	Prof. Suryawanshi R. V	10.00 to 11.00	Theory
31/10/2023	Prof. Suryawanshi R. V	10.00 to 11.00	Theory
01/11/2023	Prof. Suryawanshi R. V	10.00 to 11.00	Theory
02/11/2023	Prof. Suryawanshi R. V	10.00 to 11.00	Theory
03/11/2023	Prof. Suryawanshi R. V	10.00 to 11.00	Theory
04/11/2023	Prof. Suryawanshi R. V	10.00 to 11.00	Theory
06/11/2023	Prof. Suryawanshi R. V	10.00 to 11.00	Theory


Prof. Suryawanshi R. V
(Coordinator)


Head,
Department of Mathematics
Dr. Patangrao Kadam Mahavidyalaya
Ramanandnagar, (Burli).

Attendance Sheet

			Month-																														
Sr. No	Roll No.	Name of the Student																															
1	1593	Jadhav Nilesh Shankar	nilesh 3/10/23	nilesh 4/10/23	nilesh 5/10/23	nilesh 6/10/23	Ab 7/10/23	nilesh 9/10/23	nilesh 10/10/23	nilesh 11/10/23	nilesh 12/10/23	nilesh 13/10/23	nilesh 14/10/23	nilesh 16/10/23	Ab 17/10/23	nilesh 18/10/23	nilesh 19/10/23	nilesh 20/10/23	nilesh 21/10/23	nilesh 23/10/23	nilesh 24/10/23	nilesh 26/10/23	nilesh 27/10/23	nilesh 28/10/23	nilesh 30/10/23	Ab 31/10/23	nilesh 1/11/23	nilesh 2/11/23	nilesh 3/11/23	nilesh 4/11/23	nilesh 5/11/23	nilesh 6/11/23	
2	1594	Jadhav Prathamesh Prakash	Prakash	Prakash	Prakash	Prakash	Prakash	Prakash	Prakash	Prakash	Prakash	Prakash	Prakash	Ab	Prakash	Prakash	Prakash	Prakash	Prakash	Prakash	Prakash	Prakash	Prakash	Prakash	Ab	Prakash	Prakash	Prakash	Prakash	Prakash	Prakash		
3	1595	Jadhav Shraddha Shahaji	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	AB	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Ab	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Ab	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha	Shraddha		
4	1596	Jagdale Umesh Shivaji	Umesh	Umesh	Umesh	Umesh	AB	Umesh	Umesh	Umesh	Umesh	Umesh	Umesh	Ab	Umesh	Umesh	Umesh	Umesh	Umesh	Umesh	Umesh	Umesh	Umesh	Umesh	Ab	Umesh	Umesh	Umesh	Umesh	Umesh	Umesh		
5	1597	Jangam Prajakta Mohan	Prajakta	Prajakta	Prajakta	Prajakta	AB	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	AB	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	AB	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta	Prajakta		
6	1598	Kashid Saurabh Vishnu	K.S.V.	K.S.V.	K.S.V.	K.S.V.	AB	K.S.V.	K.S.V.	K.S.V.	K.S.V.	K.S.V.	K.S.V.	AB	K.S.V.	K.S.V.	K.S.V.	K.S.V.	K.S.V.	K.S.V.	K.S.V.	K.S.V.	K.S.V.	K.S.V.	AB	K.S.V.	K.S.V.	K.S.V.	K.S.V.	K.S.V.	K.S.V.		
7	1599	Kumbhar Prathmesh Santosh	Psk	Psk	Psk	Psk	Psk	Psk	Psk	Psk	Psk	Psk	Psk	Psk	Psk	Psk	Psk	Psk	Psk	Psk	Psk	Psk	Psk	Psk	Psk	Psk	Psk	Psk	Psk	Psk	Psk		
8	1600	Kumbhar Rutik Shridhar	Psk	Psk	Psk	Ab	Psk	Psk	Psk	Psk	Psk	Psk	Psk	Ab	Psk	Psk	Psk	Psk	Psk	Psk	Psk	Psk	Psk	Psk	Ab	Psk	Psk	Psk	Psk	Psk	Psk		
9	1601	Mahind Pranav Ramchandra	Pramanish	Pramanish	Pramanish	Pramanish	Ab	Pramanish	Pramanish	Pramanish	Pramanish	Pramanish	Pramanish	Ab	Pramanish	Pramanish	Pramanish	Pramanish	Pramanish	Pramanish	Pramanish	Pramanish	Pramanish	Pramanish	Ab	Pramanish	Pramanish	Pramanish	Pramanish	Pramanish	Pramanish		
10	1602	Mane Prathmesh Rajaram	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh	Prathmesh		
11	1603	Mane Tejasvini Rajaram	Tejasvini	Tejasvini	Tejasvini	Tejasvini	Tejasvini	Tejasvini	Tejasvini	Tejasvini	Tejasvini	Tejasvini	Tejasvini	Tejasvini	Tejasvini	Tejasvini	Tejasvini	Tejasvini	Tejasvini	Tejasvini	Tejasvini	Tejasvini	Tejasvini	Tejasvini	Tejasvini	Tejasvini	Tejasvini	Tejasvini	Tejasvini	Tejasvini	Tejasvini		
12	1604	Mhalkar Vishal Vikas	Vishal	Vishal	Vishal	Vishal	Vishal	Vishal	Vishal	Vishal	Vishal	Vishal	Vishal	Vishal	Vishal	Vishal	Vishal	Vishal	Vishal	Vishal	Vishal	Vishal	Vishal	Vishal	Vishal	Vishal	Vishal	Vishal	Vishal	Vishal	Vishal		
13	1605	Nadaf Mukhtar Suraj																															

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Department of Mathematics
Value Added Course 2023-24
Magic in maths

Proceeding of Meeting

Departmental meeting was held on 25/09/2023 at 3.00 p.m. under the guidance of head of department, all faculty members were present, main agenda of meeting was to discuss about introduced Value Added Course in department for the students of B.Sc. I

Department has decided that 30 days Value Added Course entitled Magic in Maths will be started from 01/10/2023 to 31/10/2023. The governing of course committee is formed, this department committee will be run, govern and supervise the course. Besides this syllabus of course is finalized, work distribution also done as well as time table of course is constructed. Prof. Suryawanshi R.V. expressed vote of thanks and meeting is over.

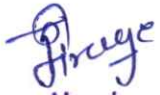

Head,
Department of Mathematics
Dr. Patangrao Kadam Mahavidyalaya
Ramanandnagar, (Burli).

1. Prof. R.V.Suryawanshi

Rayat Shikshan Sanstha's
Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)
Department of Mathematics
Value Added Course 2023-24
Magic in Maths
Notice

Date: 06/11/2023

All the students of B.Sc.-I are hereby informed that the examination of value added course- " Magic in Maths" will be held on 11/11/2023, Saturday at 10.00 a.m. to 11.00 a.m. All the students are requested to present for the exam. Attendance is mandatory.


Head,
Department of Mathematics
Dr. Patangrao Kadam Mahavidyalaya,
Ramanandnagar, (Burli).


Principal,
Dr. Patangrao Kadam Mahavidyalaya,
Ramanandnagar (Burli)
Tal. Palus, Dist. Sangli.

Rayat Shikshan Sanstha's
Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)
Department of Mathematics
Course- Magic in Maths 2023-24
List of the Students

Sr.No	Roll.No	Name of the Students
1	1593	Jadhav Nilesch Shankar
2	1594	Jadhav Prathamesh Prakash
3	1595	Jadhav Shraddha Shahaji
4	1596	Jagdale Umesh Shivaji
5	1597	Jangam Prajakta Mohan
6	1598	Kashid Saurabh Vishnu
7	1599	Kumbhar Prathmesh Santosh
8	1600	Kumbhar Rutik Shridhar
9	1601	Mahind Pranav Ramchandra
10	1602	Mane Prathmesh Rajaram
11	1603	Mane Tejasvini Rajaram
12	1604	Mhalkar Vishal Vikas
13	1605	Nadaf Mukhtar Suraj
14	1606	Nikam Sanket Sandip
15	1607	Patil Dhvni Dilip
16	1608	Patil Duragesh Ramesh
17	1609	Patil Omkar Raghunath
18	1610	Patil Pramod Sanjay
19	1611	Patil Raturaj Vasantao
20	1612	Patil Suyash Pandurang
21	1613	Pawar Nikhil Mohan
22	1614	Pawar Vaishnavi Sambhaji
23	1615	Sartape Premkumar Ganesh
24	1616	Shikhare Tushar Sudhakar
25	1617	Shinde Harshal Anaso
26	1618	Tonpe Siya Sunil
27	1619	Veer Sandesh Nathuram


Head,
Department of Mathematics,
Dr. Patangrao Kadam Mahavidyalaya,
Ramanandnagar, (Burli).

Rayat Shikshan Sanstha's
Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)
Department of Mathematics
Value Added Course: Magic in Maths 2023-24
B.Sc.-I: Examination
Question Paper

Day and Date: Saturday, 11/11/2023
Name of the Student:

Marks: 50
Roll No.-

Que1. Solve the following questions.

10 Marks

- i) If $y = \tan x + \sec x$, then show that $d^2y / dx^2 = \cos x / (1 - \sin x)^2$
- ii) Determine the derivative of the function given by $f(x) = \sin(x^2)$.

Que.2 Solve the following questions.

10 Marks

- i) Prove that every polynomial function is continuous.
- ii) Discuss the continuity of the sine function and the cosine function.

Que.3 Solve the following questions.

10 Marks

- i) Find the solution for the differential equation $x \left(\frac{dy}{dx} \right) + 2y = x^2$, where $x \neq 0$.
- ii) Solve $\frac{dy}{dx} + x^5y = x^5y^7$

Que.4 Evaluate the following integrals.

10 Marks

- i) Solve :

$$\int \frac{\sqrt{\tan x}}{\sin x \cos x} dx.$$

- ii)

$$\text{Evaluate } \sin^3 x \cos^5 x.$$

Que.5 Evaluate the following.

10 Marks

- i)

$$\text{Evaluate } \int_0^{\frac{1}{2}} \frac{x \sin^{-1} x}{\sqrt{1-x^2}} dx$$

- ii)

$$\text{Evaluate } \int_2^3 \frac{dx}{(x+1)\sqrt{x^2-1}}$$

Rayat Shikshan Sanstha's
Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)
Department of Mathematics
Value Added Course: Magic in Maths 2023-24
Examination
B.Sc.-I

Attendance Sheet

Date: 11/11/2023

Time: 1 hour

Marks: 50

Roll No.	Name of the Students	Signature
1593	Jadhav Nilesh Shankar	<i>nilesh</i>
1594	Jadhav Prathamesh Prakash	<i>Prathav</i>
1595	Jadhav Shraddha Shahaji	<i>shradha</i>
1596	Jagdale Umesh Shivaji	<i>umesh</i>
1597	Jangam Prajakta Mohan	<i>Prajakta</i>
1598	Kashid Saurabh Vishnu	<i>K.S.V</i>
1599	Kumbhar Prathmesh Santosh	<i>PK</i>
1600	Kumbhar Rutik Shridhar	<i>Rutik</i>
1601	Mahind Pranav Ramchandra	<i>PRamchandra</i>
1602	Mane Prathmesh Rajaram	<i>Prathmesh</i>
1603	Mane Tejasvini Rajaram	<i>Tejasvini</i>
1604	Mhalkar Vishal Vikas	<i>Vishal</i>
1605	Nadaf Mukhtar Suraj	<i>Mukhtar</i>
1606	Nikam Sanket Sandip	<i>Sanket</i>
1607	Patil Dhvni Dilip	<i>Dhvni</i>
1608	Patil Duragesh Ramesh	<i>Duragesh</i>
1609	Patil Omkar Raghunath	<i>Omkar</i>
1610	Patil Pramod Sanjay	<i>Pramod</i>
1611	Patil Ruturaj Vasantrao	<i>Ruturaj</i>
1612	Patil Suyash Pandurang	<i>Suyash</i>
1613	Pawar Nikhil Mohan	<i>Nikhil</i>
1614	Pawar Vaishnavi Sambhaji	<i>Vaishnavi</i>
1615	Sartape Premkumar Ganesh	<i>Premkumar</i>
1616	Shikhare Tushar Sudhakar	<i>Tushar</i>
1617	Shinde Harshal Anaso	<i>Harshal</i>
1618	Tonpe Siya Sunil	<i>Siya</i>
1619	Veer Sandesh Nathuram	<i>Sandesh</i>

Rayat Shikshan Sanstha's
Dr.Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)
Department of Mathematics
Value Added Course-2023-24
Examination-B.Sc.-I

Day and Date: Saturday, 11/11/2023

Marks: 50

Time: 10.00 a.m. to 11.00 a.m.

Instructions: 1) All questions are compulsory.

2) Figures to the right indicate full marks.

Que.1 Select the correct alternatives from each of the following.

10 Marks

- 1) What is the value of $\frac{d}{dx}(e^x \tan x)$ at $x = 0$.
a) 0 b) 1 c) -1 d) 2
- 2) If $\sqrt{x} + \sqrt{y} = a$, then $\frac{dy}{dx}$ is -----
a) $-\frac{\sqrt{x}}{\sqrt{y}}$ b) $-\frac{1}{2} \frac{\sqrt{y}}{\sqrt{x}}$ c) $-\frac{\sqrt{y}}{\sqrt{x}}$ d) none of these
- 3) $\lim_{x \rightarrow 0} \frac{\sin x}{\tan x} =$ -----
a) 0 b) 1 c) ∞ d) 2
- 4) $\lim_{n \rightarrow \infty} (1 + \frac{1}{n})^n =$ -----
a) e b) e^{-1} c) 0 d) ∞
- 5) If a function f is continuous at a point $x = a$ then ----
a) $\lim_{x \rightarrow a} f(x) = f(a)$ b) $\lim_{x \rightarrow a} f(x) \neq f(a)$
b) $\lim_{x \rightarrow a} f(x) > f(a)$ d) None of these
- 6) The function $f(x) = \frac{4-x^2}{4x-x^3}$ is -----
a) Discontinuous at only one point at $x = 0$.
b) Discontinuous at exactly two points
c) Discontinuous at exactly three points
d) None of these
- 7) The necessary and sufficient condition for $Mdx + Ndy = 0$ to be exact is -----
a) $\frac{\partial M}{\partial x} = \frac{\partial N}{\partial y}$ b) $\frac{\partial^2 M}{\partial x^2} + \frac{\partial^2 N}{\partial y^2}$
c) $\frac{\partial M}{\partial y} = \frac{\partial N}{\partial x}$ d) $\frac{\partial^2 M}{\partial x \partial y}$
- 8) The equation $(2x + 3y + 1)dx + (3x + 2y + 1)dy = 0$ is ----- differential equation.
a) Non-homogeneous b) Homogeneous
c) Linear d) Exact

9) The value of $\int e^x(\sin x - \cos x)dx = - - -$

- a) $-e^x \cos x + c$
- b) $e^x \sin x + c$
- c) $e^x \sec x + c$
- d) None of these

10) The value of $\int \sin^{-1} x dx$ is -----

- a) $x \cos^{-1} x + \sqrt{1 - x^2} + c$
- b) $x \sin^{-1} x - \sqrt{1 - x^2} + c$
- c) $x \cos^{-1} x - \sqrt{1 - x^2} + c$
- d) $x \sin^{-1} x + \sqrt{1 - x^2} + c$

Que.2 Attempt any two of the following.

20 Marks

- 1) State and prove necessary and sufficient condition for the differential equation to be exact.
- 2) State and prove Integration by parts rule.
- 3) State and prove chain rule of derivative.

Que.3 Attempt any four of the following.

20 Marks

- 1) Solve $y(1 + xy)dx + x(1 - xy)dy = 0$.
- 2) Solve $(1 + x^2) \frac{dy}{dx} + y = e^{\tan^{-1} x}$.
- 3) If $y = x \sin x$, find $\frac{dy}{dx}$.
- 4) If $y = (1 + x^2) \cdot \tan^{-1} x$, find $\frac{dy}{dx}$.
- 5) Find the limit $\lim_{x \rightarrow 5} \frac{x-5}{x^2-25}$.
- 6) Find the integration $\int e^x \sin x$.

Rayat Shikshan Sanstha's
Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)
Department of Mathematics
Value Added Course: Magic in Maths 2023-24
B.Sc.-I: Examination
Marksheet

Day and Date: Saturday, 11/11/2023

Marks: 50

Roll No.	Name of the Students	Signature
1593	Jadhav Nilesh Shankar	45
1594	Jadhav Prathamesh Prakash	48
1595	Jadhav Shraddha Shahaji	40
1596	Jagdale Umesh Shivaji	Ab
1597	Jangam Prajakta Mohan	48
1598	Kashid Saurabh Vishnu	47
1599	Kumbhar Prathmesh Santosh	46
1600	Kumbhar Rutik Shridhar	36
1601	Mahind Pranav Ramchandra	35
1602	Mane Prathmesh Rajaram	48
1603	Mane Tejasvini Rajaram	46
1604	Mhalkar Vishal Vikas	42
1605	Nadaf Mukhtar Suraj	Ab
1606	Nikam Sanket Sandip	40
1607	Patil Dhvni Dilip	Ab
1608	Patil Duragesh Ramesh	36
1609	Patil Omkar Raghunath	40
1610	Patil Pramod Sanjay	42
1611	Patil Ruturaj-Vasantrao	44
1612	Patil Suyash Pandurang	46
1613	Pawar Nikhil Mohan	30
1614	Pawar Vaishnavi Sambhaji	32
1615	Sartape Premkumar Ganesh	36
1616	Shikhare Tushar Sudhakar	30
1617	Shinde Harshal Anaso	35
1618	Tonpe Siya Sunil	48
1619	Veer Sandesh Nathuram	Ab

Total No. of students	27
Present	23
Absent	04
Pass	23
Fail	04
Percentage	100%


 Head,
 Department of Mathematics
 Dr. Patangrao Kadam Mahavidyalaya
 Ramanandnagar, (Burli).

Rayat Shikshan Sanstha's
Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)
Department of Mathematics
Course- Magic in Maths 2023-24
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 01 October 2023 to 31 October 2023. Daily 1 lecture has allotted for this course. 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
Dr. Patangrao Kadam Mahavidyalaya
Ramanandnagar, (Burli).

Principal,
Dr. Patangrao Kadam Mahavidyalaya,
Ramanandnagar (Burli)
Tal. Palus, Dist. Sangli.

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

Department of Mathematics

Value Added Course 2023-24

Magic in Maths

Syllabus Distribution

Sr. No	Name of Faculty	Unit
1.	Miss. Suryawanshi R.V.	Unit 1
2.	Miss. Suryawanshi R.V.	Unit 2
3.	Miss. Suryawanshi R.V.	Unit 3

Head,
Department of Mathematics
Dr. Patangrao Kadam Mahavidyalaya
Ramanandnagar, (Burli),

Rayat Shikshan Sanstha's
Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)
Department of Mathematics
Value Added Course 2023-24

Course Name: Magic in Maths.

Date:

Name of the student:

Roll No:

FEEDBACK FORM

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

1		2		3		4		5	
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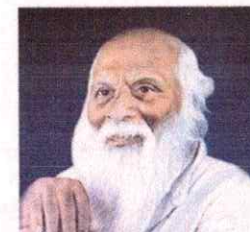
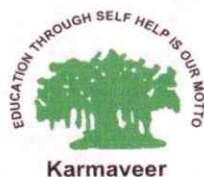
- 2. Which topics or aspects of the course did you find most interesting or useful?**

- 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



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

VALUE ADDED COURSE 2023-24

Value Added Course- Magic in Math's

C E R T I F I C A T E

This is to certify that Mr./Miss./Mrs. of Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli) Participated value added course entitled "Magic in Math's" organized by Department of Mathematics, Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli) for the year 2023-24.

Head,
Department of Mathematics

Principal,
Dr. Patangrao Kadam Mahavidyalaya,
Ramanandnagar(Burli)