

Shri Shivaji Education Society's Board for Higher Education Vidyanagar Karad.





YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD

DEPARTMENT OF MATHEMATICS

SHORT TERM COURSE

Magic in Maths (CCF-22)

2023-24

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Total Students:20 Class: B.Sc II Duration: 03 Months

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YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD Department of Mathematics

Notice

Date: 09/11/2023

All the Students of the B. Sc. II are hereby informed that the Department of Mathematics is going to run a Value Added course entitled as "Magic in Maths" Interested Candidates enrol their names to Ms. Gavade. D.B(Course Co-ordinator) on or before 30th November 2023.

Department of Mathematics
Yashwantrao Chavan College of Scient

* Karad

YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD Department of Mathematics

Short Term Course

"Magic in Maths"

Year 2023-24

Name of the Enrolled Students

Roll No.	Name of Student
1001	Bagwan Ubed Mubin
1002	Bandekar Sanika Suresh
1003	Bansode Siddharth Suresh
1004	Barge SahilShivaji
1005	Borage AjitDattatray
1006	DeshmukhRiyaTukaram
1007	DoiphodeVinay Ashok
1008	Gaikwad Sahil Sunil
1009	Gavade Sanskruti Ananda
1010	Gharge Sangram Gharge
1011	Godse Chaitali Anil
1012	Jadhav Shivam Subhash
1065	DeshmukhSanjana
1066	ShewaleRushikeshManik
1067	VakatePriyankaBaban
1068	Waghamare Prathamesh Ramesh
1082	Jadhav NareshArun
1083	Mujawar Aman Sayyad
1084	Mulla Areen Badshah
1085	Patil Prathmesh Sandip



YASHWANTRAO CHAVAV COLLEGE OF SCIENCE, KARAD

Department of Mathematics

Value Added Course in

"Magic in Maths"

Year 2023-24

Theory Time Table

Dec. 2023 to Jan. 2024

Lect. Time	Friday	Saturday
9.40 - 10.30	DBG	GSB

HEAD

Department of Mathematics

Chayga College of Scie

Karad

MATHEMATICS OF Karad *

Shri Shivaji Education Society Yashwantrao Chavan College Of Science, Karad

Department of Mathematics

Course- Magic in Maths 2022-23

External Theory-B.Sc.-II

Day and Date: Wednesday, 01/03/2023

Time: 09.30 a.m. to 11.00 a.m.

Marks: 50

Instructions: 1) All questions are compulsory.

- 2) Figures to the right indicate full marks.
- 3) Each question carry two marks.
- 1. The necessary and sufficient condition for Mdx + Ndy = 0 to be exact is...

$$A) \ \frac{\partial M}{\partial x} = \frac{\partial N}{\partial y}$$

A)
$$\frac{\partial M}{\partial x} = \frac{\partial N}{\partial y}$$
 B) $\frac{\partial M}{\partial y} = \frac{\partial N}{\partial x}$ C) $\frac{\partial^2 M}{\partial x \partial y}$ D) $\frac{\partial^2 M}{\partial x^2} = \frac{\partial^2 N}{\partial y^2}$

2. The solution of the differential equation $\frac{ydx-xdy}{y^2} = 0$ A) $\frac{y}{x} = c$ B) $\frac{x+y}{y} = c$ C) $\frac{x}{y} = c$ D) x+y=c

A)
$$\frac{y}{x} = c$$

B)
$$\frac{x+y}{y} = 0$$

C)
$$\frac{x}{y} = a$$

$$D) x + y = c$$

3. The integrating factor of the linear differential equation $\frac{dy}{dx}$ + py = Q A) $e^{\int Pdy}$ B) $e^{\int Pdx}$ C) $e^{\int Qdx}$ D) $e^{-\int Pdx}$

A)
$$e^{\int Pdy}$$

B)
$$e^{\int Pdx}$$

C)
$$e^{\int Q dx}$$

D)
$$e^{-\int Pdx}$$

4. If $\frac{\left(\frac{\partial M}{\partial y} - \frac{\partial N}{\partial x}\right)}{N}$ is a function of x, say f(x) then is an integrating factor

A)
$$e^{\int f(y)dy}$$
 B) $e^{\int f(x)dx}$ C) e^x D) e^y

B)
$$e^{\int f(x)dx}$$

$$e^x$$

$$5.\frac{1}{D-a}X = \dots$$

A)
$$e^{ax} \int Xe^{-ax} dx$$

A)
$$e^{ax} \int X e^{-ax} dx$$
 B) $e^{-ax} \int X e^{ax} dx$

C)
$$e^{ax} \int X dx$$

D)
$$e^{-ax} \int X^2 dx$$

- 6. The equation (2x + 3y + 1)dx + (3x + 2y + 1)dy = 0 isdifferential equation.
- A) Non-homogeneous B) Homogeneous C) Linear D) Exact

7.
$$\frac{1}{D^2+9}\sin(2x) = \dots$$

A)
$$\frac{\sin{(2x)}}{13}$$

B)
$$\frac{\sin(2x)}{5}$$

A)
$$\frac{\sin(2x)}{13}$$
 B) $\frac{\sin(2x)}{5}$ C) $\frac{\sin(2x)}{7}$ D) $\frac{\sin(2x)}{13}$

D)
$$\frac{\sin{(2x)}}{11}$$

8. The solution of the differential equation p = log (px - y) is.....



- A) $y = cx + e^c$ B) $y = cx e^c$ C) $x = cy + e^c$ D) $x = cy e^c$
- 9. The solution of the differential equation $(y-px) \cdot (p-1) = p$ is...
- A) $y = px + \frac{p}{p+1}$ B) $y = cx + \frac{c}{c+1}$ C) $y = cx + \frac{p}{p+1}$ D) $y = px \frac{c}{c+1}$
- 10. The differential equation $y = 2px + F(p^2x)$ can be reduced to Clairauts's from by standard substitution
- A) $x = u^2 \& y = v$ B) $x = u^3 \& y = v^2$ C) $x = u^3 \& y = e^v$ D) $x = e^u \& y = v$
- 11. If $y = px + e^p$ then its solution is....
- A) $y = cx + e^p$ B) $y = cx + e^c$ C) $y = cx + p^c$ D) $y = cx + c^e$
- 12. The solution of p(p-1)=0
- A) (y c)(y + x + c) = 0
- B) (y c)(y + x c) = 0
- C) (y-c)(y-x-c)=0
- D) (y + c)(x + c) = 0
- 13. The solution of $p^2 3p 10 = 0$ is.....
- A) (y + 2x c)(y + 5x c) = 0
- B) (y + 2x c)(5y + x + c) = 0
- C) (y-2x-c)(y+5x-c)=0
- D) (y + 2x c) (y 5x c) = 0
- 14. The degree of the differential equation $\left(\frac{d^3y}{dx^3}\right)^2 + \frac{d^2y}{dx^2} + \frac{dy}{dx} + 5y =$ 0 is ...
- A) 3
- B) 2
- C) 5
- D) 1
- 15. By substituting $x = e^z$, a homogeneous linear differential equation is Reduced to
- A) second order differential equation
- B) linear differential equation with constant coefficients
- C) exact differential equation
- D)total differential equation
- 16. The solution of the differential equation $x^2 \frac{d^2 y}{dx^2} 4x \frac{dy}{dx} + 6y = 0$ is ... A) $y = c_1 x^{-2} + c_2 x^3$ B) $y = c_1 x^2 + c_2 x^3$ C) $y = c_1 x^2 + c_2 x^{-3}$ D) $y = c_1 x^{-2} + c_2 x^{-3}$

A)
$$y = c_1 x^{-2} + c_2 x^3$$

- 17. The substitution required to transform homogeneous linear differential equation into a linear differential equation with constant coefficients is....

A)
$$Z = e^{-x}$$

B)
$$Z = e^x$$

C)
$$x = e^{z}$$

C)
$$x = e^z$$
 D) $x = e^{-z}$

A) e^{2x}

B) 18

C) 1

D) -1

19. By suitable substitution the differential equation $(3x + 2)^2 \frac{d^2y}{dx^2} - 6(3x + 5) \frac{dy}{dx} + 27y = 0$ can be reduced to thehomogeneous form....

A) $v^2 \frac{d^2 y}{dv^2} + 6v \frac{dy}{dx} - 27y = 0$ B) $v^2 \frac{d^2 y}{dv^2} - 6v \frac{dy}{dx} + 27y = 0$

C) $v^2 \frac{d^2 y}{dy^2} + 2v \frac{dy}{dx} - 3y = 0$ D) $\frac{d^2 y}{dy^2} - 2 \frac{dy}{dx} + 3y = 0$

20. The complete solution of the differential equation $(D^2 - 4D + 4)y = 0$ is..... A) $y = (c_1 + c_2x)e^{2x}$ B) $y = c_1e^{2x} + c_2e^{-2x}$

C) $y = c_1 \cos(2x) + c_2 \sin(2x)$

D) y = None of these

21. The solution of the differential equation $x^2 \frac{d^2y}{dx^2} - 2x \frac{dy}{dx} + 2y = \frac{1}{x}$ is obtained by changing independent variable x to z by the substitution... A) $z = e^x$ B) $x = e^z$ C) $z = e^{-x}$ D) $x = \log z$

22.....is the homogeneous linear differential equation.

A) $x^2 \frac{d^3 y}{dx^3} + 6x \frac{d^2 y}{dx^2} + 8 \frac{dy}{dx} - \frac{8}{x^2} y = 1$ B) $x^1 \frac{d^3 y}{dx^3} + 6 \frac{d^2 y}{dx^2} + \frac{8}{x} \frac{dy}{dx} - \frac{8}{x^2} y = 1$

C) $x^3 \frac{d^3y}{dx^3} + 6x^2 \frac{d^2y}{dx^2} + 8 \frac{dy}{dx} - \frac{8}{x^2}y = 1$ D) $x^1 \frac{d^3y}{dx^3} - x^2 \frac{d^2y}{dx^2} + \frac{8}{x} \frac{dy}{dx} = x$

-plution of the differential c 23. Solution of the homogeneous differential equatio $x^2 \frac{d^2y}{dx^2} - x \frac{dy}{dx} - 3y = 0$ is y = 0

A) $c_1 x^3 + \frac{c_2}{x}$ B) $c_1 x^3 + c_2 x$ C) $c_1 e^{3x} + c_2 e^{-x}$ D) $c_1 e^{-3x} + c_2 x^3$

24. when we put $z = \log x$ in a homogeneous linear differential equation, The value of $x^2 \frac{d^2y}{dx^2}$

A) $z^2 \frac{d^2y}{dz^2}$ B) $z^2 \frac{d^2y}{dz^2} - z \frac{dy}{dz}$ C) $\frac{d^2y}{dz^2} - \frac{dy}{dz}$ D) $\frac{d^2y}{dz^2} + \frac{dy}{dz}$

25. The general solution of the differential equation $(y - px)^{\frac{1}{3}} = p$ is...

- low x in a feet meneous l

2 d3 2 dy 2 dy day 2 d

A) $y = cx + c^3$ B) $y = cx - c^3$ C) y = cx + c D) $y = cx + c^2$

Shri Shivaji Education Society Yashwantrao Chavan College Of Science, Karad Department of Mathematics

Course- Magic in Maths 2022-23 Internal Theory-B.Sc.-II

Day and Date: Wednesday, 09/01/2023 Time: 09.30 a.m. to 11.00 a.m.	Marks: 50
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.	50 Marks
1) Geometrically the Roll's Theorem means that the tangent at point xe	c to the curve $y = F(X)$ is
A)perpendicular to x-axis B) Parallel to x-axis C)intersecting to x-axis D) perpendicular to y-axis	
2) The infinite series $X - \frac{x^3}{3!} + \frac{x^5}{5!} \frac{x^7}{7!}$	
A)cox x B) $\sin x$ C) e^x I	α^{x}
3)Rolle's Theorem is not applicable to $F(X) = x^2$ in $[0,2]$ because A)F(x) is not continuous in $[0,2]$ B) F(X) is not differentiable in $[0,2]$ C) F(O) \neq F(2) D) F(O) = F(2)	
4)IF F (X) = e^x x \in [0,1] then the value of c of L.M.V.T is	
A) e-1 B) $\frac{1}{e-1}$ C)e(e-1) D) log (e-1)	
-nxiv (13) perper (13)	
5) $\lim_{x\to 1} \frac{\sin \pi x}{x-1}$ A)1 B)-1 C) π D) $-\pi$	
6)Evaluate $\lim_{x\to \frac{\pi}{2}} ((\cos x)^{\cos x} \dots$	
A)1 (B) -1 (C) π (D) $-\pi$	
7) The geometrical meaning of L.M.V.T is that the tangent at c∈ (a, b) A) perpendicular to chord AB B) Parallel to chord AB C) intersecting to chord AB D) not related to chord AB	MATHEMATICS S

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A)
$$F(c) = \frac{F(b) - F(a)}{b - a}$$

B) $F'(c) = \frac{F(b) - F(a)}{b - a}$
C) $F'(c) = \frac{F(a) - F(b)}{a - b}$
D) $F'(c) = \frac{F(a) - F(b)}{b - a}$

B) F'(c) =
$$\frac{F(b)-F(a)}{b-a}$$

C)F'(c) =
$$\frac{F(a)-F(b)}{a-b}$$

D) F'(c) =
$$\frac{F(a) - F(b)}{b - a}$$

9) If the function F(x) & g(x) are i)continuos in [a, b] ii) differentiable in (a, b) &iii) $g'(x) \neq 0$ for any $x \in (a, b)$ such that

A)
$$\frac{f'^{(C)}}{g'(C)} = \frac{F(b) - F(a)}{g(b) - g(a)}$$

C) $\frac{g'(x)}{f'(x)} = \frac{g(b) - g(a)}{f(b) - f(a)}$

B)
$$\frac{f(x)}{g(x)} = \frac{F(b) - F(a)}{g(b) - g(a)}$$

C)
$$\frac{g'(x)}{f'(x)} = \frac{g(b) - g(a)}{f(b) - f(a)}$$

B)
$$\frac{f(x)}{g(x)} = \frac{F(b) - F(a)}{g(b) - g(a)}$$

D)) $\frac{g(x)}{f(x)} = \frac{g(b) - g(a)}{f(b) - f(a)}$

10) Which of the following is a mean value theorem

- A) Leibnitz Theorem
- B) Euler's Theorem
- C) Taylor's Theorem
- D) Rolle's Theorem

11)
$$\lim_{x\to 0} \frac{\log \tan x}{\log \sin x} = \dots$$
A)1 B) $\frac{1}{2}$ C)2

B)
$$\frac{1}{2}$$

D)
$$\frac{\pi}{2}$$

12) $\lim_{x\to 0} x \cdot \log x = \dots$ A)1 B) 0 C) -1

C)
$$\frac{\pi}{2}$$

D)
$$\frac{3\pi}{2}$$

 $14) \lim_{x \to 0} \left[\frac{\tan x}{x} \right]^{1/x^2}$

A)
$$e^{\frac{1}{3}}$$

B)
$$e^{\frac{1}{2}}$$
 C) e^{3}

$$D)e^2$$

16)
$$1+x+x^2+x^3+...$$

$$A)\frac{1}{1-x} \qquad B) \frac{1}{x+1}$$

B)
$$\frac{}{x+1}$$

C)
$$\frac{1}{x-1}$$
 D) e^x

17) Rolle's theorem is not applicable to the function F(x) = IxI is [-2,2] since

- A) f(X) is not continuous at x=-2
- B) F(x) is not continuous at x=2



- C) F(X) is not continuous at x=0
- D) F(X) is not differentiable at x=0
- 18) If a function f satisfies the condition of L.M.V.T for the interval [a,b] and if f'(c) =0 for all $c\epsilon(a,b)$ then the function f is
- A) constant function
- B) Increasing function
- C) decreasing Function
- D) homogeneous
- 19) Right hand limit of $\lim_{x\to 0} \frac{e^{\frac{1}{x}}}{e^{\frac{1}{x+1}}}$ is
- A)0
- B) 1
- C) ∞
- 20) left hand limit of $\lim_{x\to 0} \frac{1}{x}$
- A) ∞
- B) -∞ C) 1 D) none
- 21) $\lim_{x\to 0} \frac{\cos x \cos a}{x-a}$
- A) $-\sin a$
- B)sin a
- C)cos a
- D)sin a cos a
- 22) The infinite series $1 \frac{x^2}{2!} + \frac{x^4}{4!} \frac{x^6}{6!} \dots$
- A) $\cos x$
- B) $\sin x$ C) $-\sin x$
- 23) The infinite series $x \frac{x^2}{2!} + \frac{x^3}{3!} \frac{x^4}{4!}$
- A) log(1+x)
- B)log (1-X) C)logx
- $D)e^{x}$

- $24)\lim_{x\to\frac{\pi}{4}}\frac{\sin x \cos x}{x-\frac{\pi}{4}}...$
- A) $\sqrt{2}$ B) -) $\sqrt{2}$ C) $\frac{\pi}{4}$ D) $-\frac{\pi}{4}$
- $25)\lim_{x\to 0}\frac{\log 10 + \log(x+0.1)}{x}...$

- A)10 B) $\frac{1}{10}$ C)1 D) $\frac{1}{100}$



Yashwantrao Chavan College of Science

Yashwantrao Chavan College of Science, Karad Department of Mathematics

Short term Course - Magic in Maths(2023-24)

Mark list

Roll. No.	Name of Student	Mid-course exam (Out of 50)	Final Exam (Out of 50)	Total (Out of 100)
1001	Bagwan Ubed Mubin	45	48	93
1002	Bandekar Sanika Suresh	36	42	78
1003	Bansode Siddharth Suresh	42	42	84
1004	Barge Sahil Shivaji	44	42	86
1005	Borage AjitDattatray	48	48	96
1006	Deshmukh RiyaTukaram	42	41	83
1007	DoiphodeVinay Ashok	43	46	89
1008	Gaikwad Sahil Sunil	41	42	83
1009	Gavade Sanskruti Ananda	42	44	86
1010	GhargeSangramGharge	46	45	91
1011	Godse Chaitali Anil	45	47	92
1012	Jadhav Shivam Subhash	49	42	91
1065	Deshmukh Sanjana	44	46	90
1066	Shewale Rushikesh Manik	42	41	83
1067	Vakate Priyanka Baban	36	40	76
1068	Waghamare Prathamesh Ramesh	46	42	88
1082	JadhavNareshArun	38	29	67
1083	Mujawar Aman Sayyad	39	28	67
1084	Mulla Areen Badshah	45	46	91
1085	Patil Prathmesh Sandip	41	40	81

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Karad

Yashwantrao Chavan College of Science, Karad

Department of Mathematics

Short term Course - Magic in Maths(2023-24)

CO & PO attainment

Average Attainment	Target Attainment level	Remark
3	Level 5	Target achieved

Course code	Course Title	% of students above 60 % of Final exam marks	Level of attainment Final exam	80% of attainment Level in Final exam (I)	% of students above 80 % of mid-course exam marks	Level of attainment	20% of attainment Level in mid-course exam (II)	Attainment of course(I+II)	
Short term	Magic in Maths	93.00	3	2.4	80.00	2	0.4	2.8	

By usi	By using below attainment levels 1,2,3 for the Percent of students in B							
	For internal exam							
Level 1	Less than 60% of students scoring more than average marks							
Level 2	60% - 80% of students scoring more than average marks							
Level 3	more than equal to 80% of students scoring more than average marks							



Programme outcome level	Target Attainment
Level 1	0.5-1.0
Level 2	1.0-1.5
Level 3	1.5-2.0
Level 4	2.0-2.5
Level 5	2.5-3.0

YASHWANTRAO CHAVAV COLLEGE OF SCIENCE, KARAD **Department of Mathematics**

Certificate Course "Vedic Mathematics" Year 2023-24 Theory Time Table

Dec. 2023 to Feb.2024

Lect. Time	Wednesday	Thursday
0 - 10.30	GSB	
10-10.50	GSB	DBG

HEAD

Department of Mathematics

Yashwantrao Chavan College of Science

Karad

Yashwantrao Chavan College of Science

YA WANTRAO CHAVAV COLLEGE OF SCIENCE, RAD

Department of Mathematics

Short Term Course - "Magic in Maths"

Year 2023-24

Roll.				Attenda	ince Dec-2023	3					
No.	Name of Student	1/12/23	2/12/2	8 112/2	9/12/23	15/12/2	161 12/21	22/12/23	23/12/23	Jai who	30/12/2
1001		Magwa		as Megwas	mang ways	1 1146	UMBagura		UMBagwa.	Meaglos	
1002	Bandekar Sanika Suresh	Source	Saulyc			Sauke	Saute	Soult			Longit
1003	Bansode Siddharth Suresh	885	385	880		881	SUST	624.4 N	Sailes Sailes	Ser.	S81
1004	Barge Sahil Shivaji	Parge.	Barge		Barg	COOL	Jarg	884		- CE	
1005	Borage Ajit Dattatray	prompe	Marty	Posovoje	Benefe	Mencile	Bearde	Barge	poborage	Weade	Barge
1006	Deshmukh Riya Tukaram	REDEALED	RIDESUCH	R.T. Destach	R.T. Desluch	R.T. Daywith	U	- 0	2	, 0	DoBorest
1007	Doiphode Vinay Ashok	C.A.V	V.A.D		A TABLES CE)	V.A.D	Tambo Daniel V	R.T. Desceth	RIDESCH	R.T. Destach	RA-Desch
1008	Gaikwad Sahil Sunil	0	Chairwal	0	Pairco		V.A.D	V.A.D	V.A.D	V,A.D	V.A.D
1009	Gavade Sanskruti Ananda			5-A-Garat		CIA Good	BRY Kood	Eterikcoed	Frukcood	(Carriery)	Escikus !
1010	Gharge Sangram Gharge	5-5. Colonge			5 H daved		S. A. Caval		5. A Garade		
1011	Godse Chaitali Anil			C.A. Godse	0001.	5.5 Chaye			s. s Chane	5. S.Char	s s Chave
1012	Jadhav Shivam Subhash				0 1			(.A. Godre	0	C.A.Godse	(AsGodse
1065	Deshmukh Sanjana 9561852033	50hkh	Seshakh	- AN	(Julian	Dalaha		Deyhar	Doughous	Stadley	Ballon
1066	Shewale Rushikesh Manik	Pie	AAS.	Dorum	_	Somkh	Seshila	-	Deshulk	Feshruth	50 bukh
1067	Vakate Priyanka Baban	But	Page 1	1	0 1	(R)	(Bigg	Enk_	Ob (Rie	Re
1068	Waghamare Prathamesh Ramesh		_	Dunka	dans	Suate	Suns	-	Janes	Soute	vous
1082	Jadhav Naresh Arun	9.12aghanur		P. Maghamare			- 1	Waghamary).	Wag hamare	1. Waghamma	Haghamar
1083	Mujawar Aman Sayyad	Multip	Stuky	of stenus	Brully	Muley	_	मिन कार्य	अप्राप्त	_ (Blylad
1084	Mulla Areen Badshah		A ECON	LVI.	18001		Me,	Ms.	M.	MS.	nu.
1085	Patil Prathmesh Sandip			0 1	Leen.	avan	Leen.		Lecev. 7	peen.	recen
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YASAWANTRAO CHAVAV COLLEGE OF SCIENCE, RAD

Department of Mathematics

Short Term Course - "Magic in Maths"

Year 2023-24

Attendance Jan-2024

				Attenda	ince Jan-2024						
Roll. No.	Name of Student	sting	6/1129	6/1729	12/1/2	912/1129	13/1/29	19/1124	20/1/29	2711/2	27/1/2
1001	Bagwan Ubed Mubin	MBaguas	- UMBagwan			megum		MBaguan			
1002	Bandekar Sanika Suresh	Soul-	Soult	Soule	Saulka	South	laire	Saiko		Saulk	Lacolto
1003	Bansode Siddharth Suresh	881	385	884	BU	588	SEL	80	881	80 ×	88
1004	Barge Sahil Shivaji	Barge	Barry	Barge	Busge	Barge	Jange	Barge	kary	Rate	Farey
1005	Borage Ajit Dattatray	7	porces.	prorage	provage	Appeneure	ADBOSCUL.	poBorage	pornaje	1	Agrany
1006	Deshmukh Riya Tukaram	Riveruch	RIT peaces	R.T. Deslotch	R.T. Deselch	Ritheslykh	RIDESBURG	RT Desletch	R.T. Desler	R.T. Deslines	
1007	Doiphode Vinay Ashok		V.A.D	V.A.D	V.A.D	V.A.D	V.A.D	V.A.D	V.A.D	V.A.D	V. A.D
1008	Gaikwad Sahil Sunil	Faikwel 1	Penkicail	Paircoal	Ani kwel	Carrand	Caixan	Chriscol	FRIKIZE	-	0
1009	Gavade Sanskruti Ananda	5. A. Gavab				S.A.Gavad	No. of the last of				
1010	Gharge Sangram Gharge	5.5 Chaye	S. S. Cohanne			≤. s. chaye	1				
1011	Godse Chaitali Anil			C.A. Godse	C-A-Godse			c.A.Godse			515 Charge
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1085	Patil Prathmesh Sandip	BHI	BLIL	- 6	RAID	100	RAIL	Betia	6 H	RHI.	BAI
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Yashwantrae Chavan College of Science Karad

YAAWANTRAO CHAVAV COLLEGE OF SCIENCE, ARAD

Department of Mathematics

Short Term Course - "Magic in Maths"

Year 2023-24

Attendance Feb-2024

				Attendan	ice Feb-2024						
Roll.	Name of Student	2/2/24	2/2/29	372/24	3/2/25	10/2/29	10/2/24	[6/2/24	, , - 1	23/2/24	24/2/2
No. 1001	Bagwan Ubed Mubin	umagwan	Horgian		CMB gwz	_	UNBOUN	_	Umbagun	Um Bagus	LmBagh
1002	Bandekar Sanika Suresh	Soule	enika	Socilia	Saile	lauke	faire	Sauira	Sair	Saule	Sair
	- The best of the second of th		2001	85	85	88	88C	85	885	88	883
1003	Bansode Siddharth Suresh	892	80					farge		Range	Busy
1004	Barge Sahil Shivaji	Baroge	Barge	Barge	Barge	parge	Bargl		Doborate	7	posorage
1005	Borage Ajit Dattatray	Checute)	16 Beautife	ABorage	Brong		Duscon	U		9 0	0
1006	Deshmukh Riya Tukaram	RT. pestuch	RIDesideh	Rapestelch	P.P.Desluch	RT. Dealle					V. P.O
1007	Doiphode Vinay Ashok	V.A.D	V.A.D	V.A.D	_	-	N.A.D	N.A.D	V.A.D		
1008	Gaikwad Sahil Sunil	General	Geixand	Eseixued	Colored	Grikcond		Baikcood			Escikcoc
1009	Gavade Sanskruti Ananda	Table 10 Colors	S. A. Gava	SAGava	SA-Gavad	5 A-Gavad	STA-Gravac	S.A. Gavet	S.A. Gara	o Si A. Gava	S.A.Gova
1010	Gharge Sangram Gharge			cs.s.chara	ssuhang	s.saharoc	Sischan	5 schange	55. Chaye	5. Scharg	sistable
1011	Godse Chaitali Anil	C.A. Godse	C.A. Godse	C.A. Godse			0 0 1	CA-Godse	(A Godse	(A Godse	CA Gods
1012	Jadhav Shivam Subhash	Derly	(a) 11	0 11	_	Dadhay	Dadhar	Dades	Bachen	Stud Lon	
1065	Deshmukh Sanjana 9561852033.	Sestale	1 - 1 1 1			_	Seshkh	Seshit	5eshe		_
1066	Shewale Rushikesh Manik	Pass	_	Ru	Re	PL	-	R.s.	Re,	R	Pro
1067	Vakate Priyanka Baban	Sale	Such	01	_	Seek	Sels	Such	Subs	-	Auto
1068	Waghamare Prathamesh Ramesh			2 P. Haghama	-	P. Was herma	14 -	P. Hayham	a Pldastaran	Phaghamar	Piblagham
1082	Jadhav Naresh Arun	Parina		Anulya	Mulu		_	PAULU	Mulle	dayun	(a) durin
1083	Mujawar Aman Sayyad	Mee	S S S IN	Ma	M	M		Ms.	MA	Ma.	m
		ABROW	Legar.		a Alexan		Legen	· Ascor	ARGON.	Lecen -	Leeen
1084	Mulla Areen Badshah	1	A	1/50	- DA 13	-	~ '	RAI	901	BH	BHI)
1085	Patil Prathmesh Sandip	(BAH)	SCH	1/2/	CHEMATICS)	BAL	(1871)	THE STATE OF THE S	V) T	1	Per

YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD Department of Mathematics

Short Term Course "Magic in Maths"
Year 2023-24

Internal & External Theory

Exam Attendance

Roll No.	Name of Student	Internal Signature	External Signature
1001	Bagwan Ubed Mubin	umBagwan	UmBagwan
1002	Bandekar Sanika Suresh	Sant q =	years.
1003	Bansode Siddharth Suresh	AN .	881
1004	Barge SahilShivaji	Barge	Barge
1005	Borage AjitDattatray	Apporage	Apparage.
1006	DeshmukhRiyaTukaram	A.T. Otsh murch	R.T. Desh mu
1007	DoiphodeVinay Ashok	V-A-D	V.A.D
1008	Gaikwad Sahil Sunil	Bailead	Waited
1009	Gavade Sanskruti Ananda	S.A. Gavade	5. A. Gavade
1010	Gharge Sangram Gharge	55 Change	5.5. Charge.
1011	Godse Chaitali Anil	C. A. Godse	6. A. Goodse
1012	Jadhav Shivam Subhash	Quell ess	a.ll
1065	DeshmukhSanjana	Seshikh	Sesmuth
1066	ShewaleRushikeshManik	Ru.	Ru
1067	VakatePriyankaBaban	A	1
1068	Waghamare Prathamesh Ramesh	P. Waghamare	P. Waghama
1082	Jadhav NareshArun	PHIELEI	R.
1083	Mujawar Aman Sayyad	Meigh	Manuel.
1084	Mulla Areen Badshah	ABBEN.	Aecen.
1085	Patil Prathmesh Sandip	@pdi [Bati 1



YASHWANTRAO CHAVAN COLLEGE OF SCIENCE, KARAD Department of Mathematics

Short Term Course "Magic in Maths"
Year 2023-24

Certificate Distribution

Roll No.	Name of Student	Signature
1001	Bagwan Ubed Mubin	manywan
1002	Bandekar Sanika Suresh	san kg
1003	Bansode Siddharth Suresh	W
1004	Barge SahilShivaji	Barge
1005	Borage AjitDattatray	Apporages
1006	DeshmukhRiyaTukaram	R. T. Deshmukh
1007	DoiphodeVinay Ashok	V.A.D
1008	Gaikwad Sahil Sunil	(Spirus)
1009	Gavade Sanskruti Ananda	S.A. Gavade
1010	Gharge Sangram Gharge	S.S. Charge.
1011	Godse Chaitali Anil	CA. Godse
1012	Jadhav Shivam Subhash	Radhana
1065	DeshmukhSanjana	Sesmuch
1066	ShewaleRushikeshManik	Ru
1067	VakatePriyankaBaban	Tarks.
1068	Waghamare Prathamesh Ramesh	P. Waghamare
1082	Jadhav NareshArun	अधाय थे.
1083	Mujawar Aman Sayyad	Alex
1084	Mulla Areen Badshah	Asem.
1085	Patil Prathmesh Sandip	(Dodi)



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Chavan Colle



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Short Term Course Certificate of Completion

This is to certify that Mr./Miss. Jadhav Na	resh Ann
of Class B.SCII has Completed Short Te	
Magic in Maths	conducted by the department of
Mathematics during the academic year 2023	- 20 24
	2

Course Co-ordnator

Head of the Department

IQAC Co-ordinator

Principal

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Short Term Course Cottlicate of Completion

This is to certify that Mr	Miss. Shewale Rush	hikesh Manik
of Class B.SCI	has Completed Short Term	1 Course (3 Months) in
Maric in Mat	ns	conducted by the department of
Mathemati's du	ring the academic year 20 23 - 2	20 24
		9
Oblande.	Sime	LOAD Co-ordinator Principal
Course Co-ordnator	Head of the Department	

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Short Term Course Conflecte of Completion

This is to certify that Mr.	Miss. Gavade Sansk	nuti Ananda	
of Class 8.5 II	has Completed Short Term	Course (3 Months) in	
Magic in Mathe		conducted by	y the departm <mark>ent of</mark>
Mathematics du	ring the academic year 2023 - 20	024	2 🔿
Course Co-ordnator	Head of the Department	1QAC Co-ordinator	Principal

Course Co-ordnator

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Principal

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Short Term Course Certificate of Completion

This is to certify the	at Mr./Miss. Des	hmukh Riya	Tukaram	
of Class B.Sc II	has Comp	leted Short Term Co	ourse (3 Months) in	
- Magic in	Maths		conducted by	the department of
Mathematics	during the acaden	nic year 20 23 -202	4	
			8	9/1
made.	Ayn	nd	2 mul	ahmil

IQAC Co-ordinator

Head of the Department

II Be one with the downtrodden and the underprivileged II

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Short Term Course Conficate of Completion

This is to certify that Mr.	Miss. Bansode Eid	dharth Suresh	
of Class Bisc II	has Completed Short Terr	m Course (3 Months) in	
Magic in Math	<u> </u>	conducted by	the departm <mark>ent of</mark>
	ing the academic year 2023 -	20 24	
Course Co-ordnator	Head of the Department	Troum	amul

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This is to certify that Mr.	/Miss. Bandekar Sa	nika Suresh	
of Class B.S.C.II	has Completed Short Term	1 Course (3 Months) in	
Magic in Maths		conducted by	y the department of
Mathematics du	ring the academic year 2023 - 2	2024	A 04
Course Co-ordnator	Head of the Department	IQAC Co-ordinator	Principal

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Estd.:

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Short Term Course Cottificate of Completion

This is to certify that Mr. of Class B.Sc I	Mss. Bagwan Ubo	n Course (3 Months) in	
Magic in Mat	ring the academic year 2023 -		the department of
Course Co-ordnator	Head of the Department	IQAC Co-ordinator	Rrincipal

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Short Term Course Cottlette of Completion

This is to certify that Mr.	Miss. Vatate Pni	yanka Baban	
of Class B.SCIF	has Completed Short Ter	rm Course (3 Months) in _	
Magic in Maths		conducte	d by the department of
0 .	ring the academic year 2023 .	- 2024	
Course Co-ordnator	Head of the Department	toAC Co-ordinator	Rripcipal

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Short Term Course Certificate of Completion

This is to certify that Mr./Miss. Godse chaitali Anil	
of Class B.Sc II has Completed Short Term Course (3	Months) in
Magic in Maths	conducted by the department of
Mathematics during the academic year 2023-2024	

Course Co-ordnator

Head of the Department

IQAC Co-ordinator

Principal

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Short Term Course Certificate of Completion

This is to certify that Mr./Miss. Gaikwad Sahil Bunil	
of Class B.sc II has Completed Short Term Course (3 Mon	
Magic in Maths	conducted by the department of
Mathematics during the academic year 2020 - 20 23	
	901

Co-ordinator