



"Education for Knowledge, Science, and Culture"

- Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's

Vivekanand College, Kolhapur

(Empowered Autonomous)



DEPARTMENT OF MATHEMATICS

2024-2025

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Value Added course (Mathematics For Data Science)

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Vivekanand College, Kolhapur
(Empowered Autonomous)



DEPARTMENT OF MATHEMATICS

Date: 30/12/2024

Value Added Course (2024-25): Mathematics for Data Science

Notice

All the Second and Final year students of B.Sc./ B.C.A./B.C.S are informed that the Department of Mathematics has introduced value added course entitled "Mathematics for Data Science" for the academic year 2024-25. This is the foundation course of Data Science and is useful for students who want to pursue a career in Data Science. So interested students Contact to the department of mathematics before 04/01/2025.

Co-ordinator: Ms. A. D. Patil

Contact : 8999042550

(Prof. S. P. Thorat)
HEAD

DEPARTMENT OF MATHEMATICS
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)



(Prin. Dr. R.R. Kumbhar)
PRINCIPAL

VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)



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Vivekanand College, Kolhapur
(Empowered Autonomous)



DEPARTMENT OF MATHEMATICS

Date: 19/03/2025

Value Added Course 2024-25

Mathematics for Data Science

Notice

All the enrolled students of Value added course entitled "Mathematics for Data Science" for the academic year 2024-25 are hereby informed that the examination is scheduled on **Tuesday, 25/03/2025 at 12:00 PM to 01:00 PM in Room No. 515 in Engineering Building**. Fee for the examination is **Rs. 20**. You have to submit the fees on **Tuesday, 25/03/2025**.

Eligibility:

- 1) Students who have attended at least 40% (10 lectures) of total lectures are eligible for the examination.

Note:

- 1) Exam will be conducted through google forms.
- 2) There will be 25 MCQs each of marks 2.
- 3) Passing marks for the exam is 40% (20 Marks). After passing exam successfully you will get printed certificate.

Co-ordinator : Ms. A.D. Patil

Contact : 8999042550



(Prof. S. P. Thorat)
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VIVEKANAND COLLEGE, KOLHAPUR (EMPOWERED AUTONOMOUS)

DEPARTMENT OF MATHEMATICS

Value Added Course (2024-25)

Syllabus

Mathematics for Data Science

Course Outcomes: After studying this course Students will able to

CO1: Familiarize the basic concept of graph theory

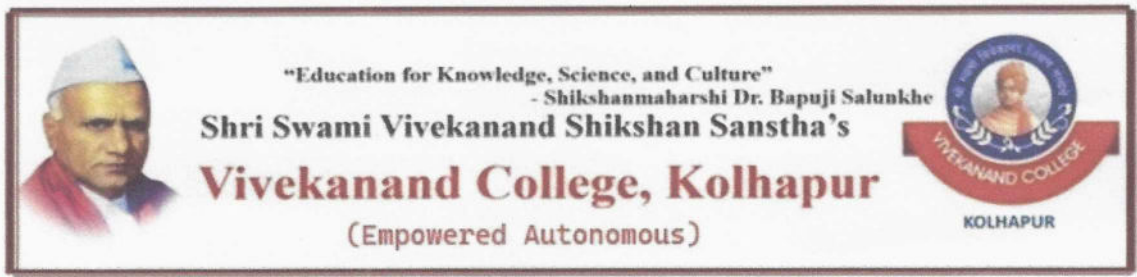
CO2: Learn conceptual variations while advancing from one variable to several variables in calculus.

CO3: Learn basic concepts of linear transformation, dimension theorem, matrix representation of a linear transformation, and the change of coordinate matrix

CO4: Built computational programme by using graph theory

Unit	Content:	Hours allotted
1.	Vector Spaces: 2.1 Introduction to vector spaces 2.2 Some properties of vector spaces 2.3 Linear dependence and Linear independence. 2.4 Basis and Dimension	07 SJK
2.	Linear transformation: 3.1 Linear transformation 3.2 Kernel and Images 3.3 The null space of a matrix 3.4 ordered bases and matrices	08
3.	Multivariable functions: 4.1 Partial derivatives 4.2 Limit 4.3 continuity 4.4 directional derivatives	08 V.B.P.
4.	Graph Theory: 5.1 Graphs 5.2 Types of Graphs 5.3 Degree of a vertex in an undirected graph 5.4 Indegrees and Outdegrees of a directed graph 5.5 Path and Cycle 5.6 Directed acyclic 5.7 Graph coloring	07 ADP





DEPARTMENT OF MATHEMATICS

Date: 30/12/2024

Value Added Course (2024-25) : Mathematics for Data Science

Timetable

Sr.	Date	Time	Name of the Teacher
1.	06/01/2025	9.30 A.M. to 11.30 A.M	Ms S. J. Koshti
2.	07/01/2025	9.30 A.M. to 11.30 A.M	Mr. S. P. Thorat
3.	08/01/2025	9.30 A.M. to 11.30 A.M	Ms. A. D. Patil
4.	13/01/2025	9.30 A.M. to 11.30 A.M	Ms S. J. Koshti
5.	14/01/2025	9.30 A.M. to 11.30 A.M	Mr. S. P. Thorat
6.	15/01/2025	9.30 A.M. to 11.30 A.M	Ms. A. D. Patil
7.	20/01/2025	9.30 A.M. to 11.30 A.M	Ms S. J. Koshti
8.	21/01/2025	9.30 A.M. to 11.30 A.M	Mr. S. P. Thorat
9.	22/01/2025	9.30 A.M. to 11.30 A.M	Ms. A. D. Patil
10.	27/01/2025	9.30 A.M. to 11.30 A.M	Ms S. J. Koshti
11.	28/01/2025	9.30 A.M. to 11.30 A.M	Mr. S. P. Thorat
12.	29/01/2025	9.30 A.M. to 11.30 A.M	Ms. A. D. Patil
13.	03/02/2025	9.30 A.M. to 11.30 A.M	Ms S. J. Koshti
14.	04/02/2025	9.30 A.M. to 11.30 A.M	Mr. S. P. Thorat
15.	05/02/2025	9.30 A.M. to 11.30 A.M	Ms. A. D. Patil

****Exam will be conducted on 18th February 2025***

S. P. Thorat
(Prof. S. P. Thorat)
HEAD
 DEPARTMENT OF MATHEMATICS
 VIVEKANAND COLLEGE, KOLHAPUR
 (EMPOWERED AUTONOMOUS)



R. R. Kumbhar
(Prin. Dr. R.R. Kumbhar)
PRINCIPAL
 VIVEKANAND COLLEGE, KOLHAPUR
 (EMPOWERED AUTONOMOUS)

* Mathematics for Data Science *

* 2024-25 *

Sr.No.	Name of the student	Class	Mob. No.
1	Mahammadkaif Sameer shaikh	B.C.S-II	8421879339
2.	Samruddhi S. Nalawade	B.CS II	8080302762
3.	Arpita S. Atigre	BCS III	8788893285
4	Sayali S. Asabe	BCA III	9699021465
5	shreya V. Patil	BCA-III	9371642965
6	Ayeshabi H. Gadwal	BCA-III	9604008150
7.	Mijaba N. Jamadar	BCA - III	8788117006 no wp
8.	Sayali S. Patil	BCA-III	8767773427
9	Saniya S. Chougule	BCA - III	9511811565
10.	Hansi M. Palkar	BCA - III	8275050675
11.	Sakshi P. Patil	BCA - III	8010746598
12	Ketan Mane	BCA-III	7517007046
13)	Aditya Pirui	BCA-III	8485814103
14)	Vighnesh Putil	BCA-III	8975727090
15)	Prunav Judha	BCA III	9370396496
16]	Pratik S. Jadhav	B.C.A.II	9322084905
17]	Sahil S. Jamadar	BCA II	8087731223
18]	shivraj K. Kalange	BCA II	9075544970
19)	Rajnandan Umesh Kale	BCA II	8446511816
20)	Tejas Hindurao Kamble	—	7219032689
21)	Vaidehi Gopal Ingawale	BCS II	8421682597
22]	Rutuja Dilip Chougale	BCS II	9850207134
23]	Krushna S. Pednekar	BCS II	9403328230
24]	Vedanti Ashok Niramalkar	BCS II	8805440095
24]	Harshada Ajit Satpute	BCS II	8010333758 no wp

25)	Dharmendra. N. Vaishnav	BCA-II - Ddiv	7878830843
26)	Harsh. S. Varma	BCA-II - Ddiv	8766848058
27)	yashaswini. T. Shetty	BCA-III Adiv	8431074365
28)	Smruti S. Bhore	BCA-III Adiv	7410140553
29)	Pratiksha P. Desai	BCA-III Adiv	8446012498
30	Somruddhi S. Dafale	BCA-III Adiv	8156279210
31	Prachi. S. Patil	BCA-III Adiv	9850667750
32	Abhijit P Khale	BCA- II Bdiv	9284923490
33	Dipak Kedarni Patil	BCA II Cdiv	8379037877 ^{no wp}
34	Sumit Sunil Kalebese	BCS II Adiv	9175604851
35	Madhura Santosh Nikam	BCS II Bdiv	7119023703
36	Amruta Digambar Desai	BCS II A div	7276249467
37	Saloni Bajirav Chougale	BCS II A div	9021543008
38	Omkar Nilesh Kolekar	B.CA II Bdiv	9637831205
39	Yash Raghunath Kamble	B.CA II Bdiv	9403054848
40	Abhishake Arjun Kachare	B.C-A II Bdiv	8805266385
41	Irfan Akbar Mulla	BCA-III	7499645880.
42	Shreyash Baban Patil	BCA-III	8975604977
43	Anjali Shetty	BCA-III	7028200416
44	Ankita S. Kadam	BCA- II	8237382845
45	Sakshi M. Jadhav	BCA- II	9096634983
46	Shrey P. Jadhav	BCA- II	8999974494
47	Rutuja G. Majgaonkar	BCA- II	9022570610
48	Diksha M. Kolekar	BCA- II	8485841935
49	Vishal V. Khandekar	BCA- III	8390456878
50	Shravan K Sonawale	BCA-III	9960554817
51	Sushant P Patil	BCA- III	9699194641
52	Sujal. S. Valake	BCA-III	7558541734

- 54) Sayali pundlik lohar Bsc III 7757093108.
- 55) Samrudhi Suryakant Mali BCA III 9511656110
- 56) Mdhuza Suresh powar BCA III 899036979
- 57) Sneha Namdev Jadhav BCA III 8263041997
- 58) Sujal Satish More BCA III 9322305205
- 59) Ainkita Anun Kotamire BCA-III 9150442121
- 60) Divyagana Sanjay Patkane BCA-III 9028222297



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 DEPARTMENT OF MATHEMATICS
 VIVEKANAND COLLEGE, KOLHAPUR
 (EMPOWERED AUTONOMOUS)

Vivekanand College (An Empowered Autonomous Institute), Kolhapur
Value added Course: 2024-2025
Mathematics For Data Science
Presenty

Sr. No	Name of Student	6/1/25	7/1/25	8/1/25	9/1/25	14/01/25	15/01/25	20/1/25
1	Mijaba Najir Jamadar	<u>Mijamadar</u>	<u>Mijamadar</u>	<u>Mijamadar</u>	<u>Mijamadar</u>	<u>Mijamadar</u>	<u>Mijamadar</u>	<u>Mijamadar</u>
2	Ayeshabi Mehmoed Gadwat	<u>Ayeshabi</u>	<u>Ayeshabi</u>	<u>Ayeshabi</u>	<u>Ayeshabi</u>	<u>Ayeshabi</u>	<u>Ayeshabi</u>	<u>Ayeshabi</u>
3	Shreya Vijay Patil	<u>SVPatil</u>	<u>SVPatil</u>	<u>SVPatil</u>	<u>SVPatil</u>	<u>SVPatil</u>	<u>SVPatil</u>	<u>SVPatil</u>
4	Aspita Sitaram Atigre	<u>Atigre</u>	<u>Atigre</u>	<u>Atigre</u>	<u>Atigre</u>	<u>Atigre</u>	<u>Atigre</u>	<u>Atigre</u>
5	Samruddhi Sardar Nalawade	<u>SNalawade</u>	<u>SNalawade</u>	<u>SNalawade</u>	<u>SNalawade</u>	<u>SNalawade</u>	<u>SNalawade</u>	<u>SNalawade</u>
6	Vedanti Ashok Nisarnalkar	<u>V.A.N</u>	<u>V.A.N</u>	<u>V.A.N</u>	<u>V.A.N</u>	<u>V.A.N</u>	<u>V.A.N</u>	<u>V.A.N</u>
7	Shivraj K. Kalange	<u>SKK</u>	<u>SKK</u>	<u>SKK</u>	<u>SKK</u>	<u>SKK</u>	<u>SKK</u>	<u>SKK</u>
8	Abhijit P. Khale	<u>PKhale</u>	<u>PKhale</u>	<u>PKhale</u>	<u>PKhale</u>	<u>PKhale</u>	<u>PKhale</u>	<u>PKhale</u>
9	Omkar .N. Kolekar	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>
10	Sahil .S. Jamadar	<u>SSJamadar</u>	<u>SSJamadar</u>	<u>SSJamadar</u>	<u>SSJamadar</u>	<u>SSJamadar</u>	<u>SSJamadar</u>	<u>SSJamadar</u>
11	Rutuja .G. Majgaonkar	<u>R.G.Majgaonkar</u>	<u>R.G.Majgaonkar</u>	<u>R.G.Majgaonkar</u>	<u>R.G.Majgaonkar</u>	<u>R.G.Majgaonkar</u>	<u>R.G.Majgaonkar</u>	<u>R.G.Majgaonkar</u>
12	Shreya P. Jadhav	<u>SPJadhav</u>	<u>SPJadhav</u>	<u>SPJadhav</u>	<u>SPJadhav</u>	<u>SPJadhav</u>	<u>SPJadhav</u>	<u>SPJadhav</u>
13	Diksha M. Kulkarni	<u>DMKulkarni</u>	<u>DMKulkarni</u>	<u>DMKulkarni</u>	<u>DMKulkarni</u>	<u>DMKulkarni</u>	<u>DMKulkarni</u>	<u>DMKulkarni</u>
14	Ankita S. Kadam	<u>AKadam</u>	<u>AKadam</u>	<u>AKadam</u>	<u>AKadam</u>	<u>AKadam</u>	<u>AKadam</u>	<u>AKadam</u>
15	Vaidehi G. Ingawale	<u>VIgawale</u>	<u>VIgawale</u>	<u>VIgawale</u>	<u>VIgawale</u>	<u>VIgawale</u>	<u>VIgawale</u>	<u>VIgawale</u>
16	Madhura S. Nikam	<u>MNikam</u>	<u>MNikam</u>	<u>MNikam</u>	<u>MNikam</u>	<u>MNikam</u>	<u>MNikam</u>	<u>MNikam</u>
17	Rutuja D. Chougale	<u>RDChougale</u>	<u>RDChougale</u>	<u>RDChougale</u>	<u>RDChougale</u>	<u>RDChougale</u>	<u>RDChougale</u>	<u>RDChougale</u>
18	Amruta D. Desai	<u>ADDesai</u>	<u>ADDesai</u>	<u>ADDesai</u>	<u>ADDesai</u>	<u>ADDesai</u>	<u>ADDesai</u>	<u>ADDesai</u>
19	Mahammadkaf Sameer Shaikh	<u>MSShaikh</u>	<u>MSShaikh</u>	<u>MSShaikh</u>	<u>MSShaikh</u>	<u>MSShaikh</u>	<u>MSShaikh</u>	<u>MSShaikh</u>
20	Kunal C. Patil	<u>KCPatil</u>	<u>KCPatil</u>	<u>KCPatil</u>	<u>KCPatil</u>	<u>KCPatil</u>	<u>KCPatil</u>	<u>KCPatil</u>
21	Tejas H. Kamble	<u>THKamble</u>	<u>THKamble</u>	<u>THKamble</u>	<u>THKamble</u>	<u>THKamble</u>	<u>THKamble</u>	<u>THKamble</u>
22	Yash R. Kamble	<u>YRKamble</u>	<u>YRKamble</u>	<u>YRKamble</u>	<u>YRKamble</u>	<u>YRKamble</u>	<u>YRKamble</u>	<u>YRKamble</u>
23	Rajnarayan Katre	<u>RKatre</u>	<u>RKatre</u>	<u>RKatre</u>	<u>RKatre</u>	<u>RKatre</u>	<u>RKatre</u>	<u>RKatre</u>
24	Ketan Mane	<u>KMane</u>	<u>KMane</u>	<u>KMane</u>	<u>KMane</u>	<u>KMane</u>	<u>KMane</u>	<u>KMane</u>
25	Pratik S. Jadhav	<u>PSJadhav</u>	<u>PSJadhav</u>	<u>PSJadhav</u>	<u>PSJadhav</u>	<u>PSJadhav</u>	<u>PSJadhav</u>	<u>PSJadhav</u>



Signature
HEAD
 DEPARTMENT OF MATHEMATICS
 VIVEKANAND COLLEGE, KOLHAPUR
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6/11/25 7/11/25 8/11/25 13/11/25 14/11/25 18/01/25 20/11/25

26	Keushnal Sanjay Pednekar		Boy	Boy				
27	Harshada Ajit Satpute		H.H.		Ab	A	A	A
28	Saniya Sanjay chougale		Chougale	Chougale	Ab	A	Chougale	Chougale
29	Sakshi Pandurang Patil		Patil	Patil	Ab	Fathy	Ab	Fathy
30	Sayali Sarjercio Patil		Patil	Patil	Ab	Satil	Faty	Faty
31	Mansi Madhukar Palkar		MMP		Ab		MMP	MMP
32	Sayali Suresh Asabe		Sayali	Sayali	X	Sayali	Sayali	Sayali
33	Anjali Karunakar Shetty		Shetty	Shetty	A	Shetty	A	Shetty
34	Yashaswini Tukaram Shetty		Shetty	Shetty	Shetty	Shetty	A	Shetty
35	Sumit Sunil Kalebere		Sumit	Sumit	Kalebere	Kalebere	Kalebere	Kalebere
36	Abhishek Anjun Kachare		Abhishek	A	A	A	A	A
37	Irfan Akbar Mulla		Irfan	Mulla	A	A	A	A
38	Vishal Vikas Khondkar		VK	A	A	A	X	A
39	Shreyash Baban Patil		Patil	A	A	A	A	A
40	Shravan Kailas Sonawale		Shravan	A	A	A	A	A
41	Vighnesh Vishwanath Patil		VRH	VRH	VRH	VRH	VRH	VRH
42	Pranav Sandip Jadhav		Pranav	Pranav	Pranav	Pranav	Pranav	Pranav
43	Pranav Nitin Barad		Pranav	Barad	A	A	A	A
44	Aditya Shriprakash Patil		Aditya	Aditya	A	A	Aditya	Aditya
45	Saloni Bajirav Chougale		Saloni	Chougale	Chougale	Chougale	Chougale	Chougale

46 Shrushti H. Mangaleker

47 Shivani B. Patil

48 Sakshi. M. Jadhav

49. Divyangana. S. Patkare

50. Samrudhi. S. Mali

51. Ankita. A. Kotamire

52. Sneha. N. Jadhav

53. Madhava. S. Powar

54. Prachi. S. Patil

55. Smruti. S. Bhore

56. Pratiksha. P. Desai

57. Sujal S. More

57
Sujal

57
Sujal

~~Madhava~~

D. S. Patkare

~~Samrudhi~~

~~Samrudhi~~

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Vivekanand College (An Empowered Autonomous Institute), Kolhapur

Value added Course: 2024-2025

Mathematics For Data Science

Presenty

Sr. No	Name of Student	20/11/25 21/11/25	22/01/25	27-1-25	28-1-25	29/1/25	31/2/25	12/2/25
1	Samruddhi Sardar Nalawade	Samruddhi	Samruddhi	A	A	A	A	A
2	Arpita Sitaram Atigre	Arpita	Arpita	A	Arpita	Arpita	A	A
3	Madhura Santosh Nikam	Madhura	Madhura	Madhura	Madhura	Madhura	Madhura	Madhura
4	Saloni Bajirav Chougale	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni	Saloni
5	Amruta Digambar Desai	Amruta	Amruta	A	A	A	A	A
6	Rutuja Dilip chougale	Rutuja	Rutuja	A	A	A	A	A
7	Vaidehi Gopal Ingawale	Vaidehi	A	A	A	A	A	A
8	Samruddhi Surykant Mali	Samruddhi	Samruddhi	Samruddhi	Samruddhi	Samruddhi	A	A
9	Sneha Namdev Jadhav	Sneha	Sneha	Sneha	Sneha	Sneha	A	A
10	Madhura Suresh power	Madhura	Madhura	Madhura	Madhura	Madhura	Madhura	Madhura
11	Sujal satish more	Sujal	A	A	A	A	A	A
12	Ankita Arun kothmire	Ankita	A	Ankita	A	A	A	A
13	Omkar Nilesh kalekar	Omkar	A	A	Omkar	Omkar	A	A
14	Tejas Hindurao Kamble	Tejas	Tejas	A	Tejas	Tejas	A	A
15	Sumit Sunil Kalebhe	Sumit	Sumit	Sumit	Sumit	Sumit	Sumit	A
16	Anjali. karunakar. shetty	Anjali	Anjali	Anjali	Anjali	Anjali	A	A
17	yashaswini Tukaram Shetty	Shetty	Shetty	Shetty	Shetty	Shetty	A	Shetty
18	Shreya Vijay Patil	SVPatil	SVPatil	SVPatil	SVPatil	SVPatil	A	SVPatil
19	Sayali Suresh Asabe	Sayali	Sayali	Sayali	Sayali	Sayali	A	Sayali
20	Ayeshabi Mehmood Gadwal	Ayeshabi	Ayeshabi	Ayeshabi	Ayeshabi	Ayeshabi	A	Ayeshabi
21	Atharv Digambar Hupare	Atharv	Atharv	A	A	A	A	A
22	Pratik Suresh Jadhav.	A	Pratik	Pratik	Pratik	Pratik	A	A
23	Shivraj K. Kalange	A	Shivraj	Shivraj	Shivraj	Shivraj	A	A
24	Abhijit P Khate	A	Abhijit	Abhijit	Abhijit	Abhijit	A	A
25	sahil .S. Jamadar	A	Sahil	Sahil	Sahil	Sahil	A	A

21/1/25 22/1/25 27-1-25 28/2/25 29/1/25 3/2/25

26	Rajinandan Umesh Kete	A	Rel	Rel	Rel	Rel	A	A
27	Mijaba. Najir. Tamadar	A	Pjamar	Pjamar	Pjamar	Pjamar	A	A
28	Mahammadkaif S. Shaikh	A	Shaikh	Shaikh	Shaikh	Shaikh	Shaikh	
29	Ankita Sagor Kadam	Adams	A	A	A	Adams	A	A
30	Shreya Pankash Jadhav	A	A	Shreya	A	Shreya	A	A
31	Sayali Sanjiv Rao Patil	A	A	Patil	Patil	Patil	A	A
32	Mahammad							
33	Madhura Suresh Potwar						Adams	
34								
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43								
44								
45								



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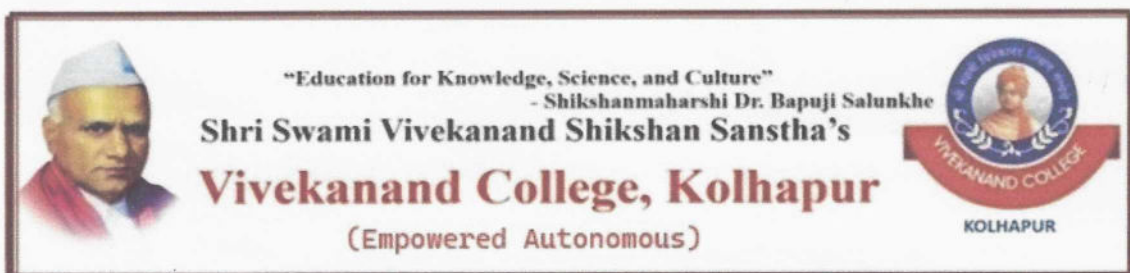
Faculty during Lecture



During exam conduction

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DEPARTMENT OF MATHEMATICS
VIVEKANAND COLLEGE, KOLHAPUR
(EMPOWERED AUTONOMOUS)



DEPARTMENT OF MATHEMATICS

2024-2025

Report: Value Added Course



1. Name of Department : Mathematics
2. Name of Organized Activity : Value Added Course
(Mathematics for Data Science)
3. Date/ Duration : 06/01/2025 – 25/03/2025.
6. Aims and Objectives : 1. To acquire basic knowledge in linear algebra, calculus relevant to data science.
2. To improve analytical thinking and problem solving skills for real- world data driven tasks.
7. No. of beneficiaries : Total = 60

Students	Male	24
	Female	36

6. Expenditure & funding agency: Nill.

7. Brief description: Mathematics department organised value added course (Mathematics for Data Science) was arranged during year 2024-2025 for students of Batchelor of Computer Application and Batchelor of Computer Science (Entire). Under this course 15 lectures were arranged on topics of Vector space, Linear Transformation, Multivariable Function, Graph Theory. Faculty of mathematics of Vivekanand college Kolhapur, conducted the lectures on each Monday, Tuesday, Wednesday during 06/01/2025 – 05/02/2025 at 09: 30 AM to 11: 30 AM. The course was delivered through interactive lectures, problem- solving session. Participants were assessed through test. The majority found the course highly beneficial and requested similar sessions in the future. Students from arts, commerce and science attended this course and thankful to organiser Ms. A. D. Patil (Assistant prof., Vivekanand College, Kolhapur (Empowered Autonomous). Exam was conducted on 25/03/2025 to which out of 60 students 34 students appeared and all passed the exam.

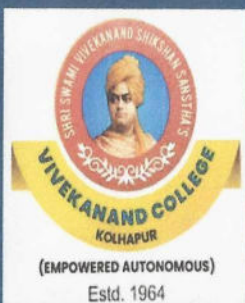
8. Outcomes : 1. Developed basic concepts of Mathematics.
2. Students equipped with mathematical tools essential for machine learning and data analysis.

9. Photos : Enclosed

10. Signatures of coordinator/ organizer: Ms. A. D. Patil.

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"Dissemination of Education for Knowledge, Science and Culture"

-Shikshanmaharshi Dr. Bapuji Salunkhe

Shri Swami Vivekanand Shikshan Sanstha's

VIVEKANAND COLLEGE, KOLHAPUR

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CERTIFICATE

"Mathematics for Data Science"

Organized by

Department Of Mathematics

This is to certify that, Mr./Ms. _____

_____ of Vivekanand College, Kolhapur (An Empowered Autonomous Institute) has successfully completed Value added course entitled "Mathematics for Data Science" held from January 2025 to February 2025 organized by Department of Mathematics, Vivekanand College, Kolhapur (An Empowered Autonomous Institute) in the academic year 2024-2025.

Ms. A. D. Patil

Co-convenor

Vivekanand College, Kolhapur
(An Empowered Autonomous Institute)

Mr. S. P. Thorat

Convenor

Head, Department of Mathematics,
Vivekanand College, Kolhapur
(An Empowered Autonomous Institute)

Dr. Shruti Joshi

IQAC co-ordinator

Vivekanand College, Kolhapur
(An Empowered Autonomous Institute)

Dr. R. R. Kumbhar

Principal

Vivekanand College, Kolhapur
(An Empowered Autonomous Institute)