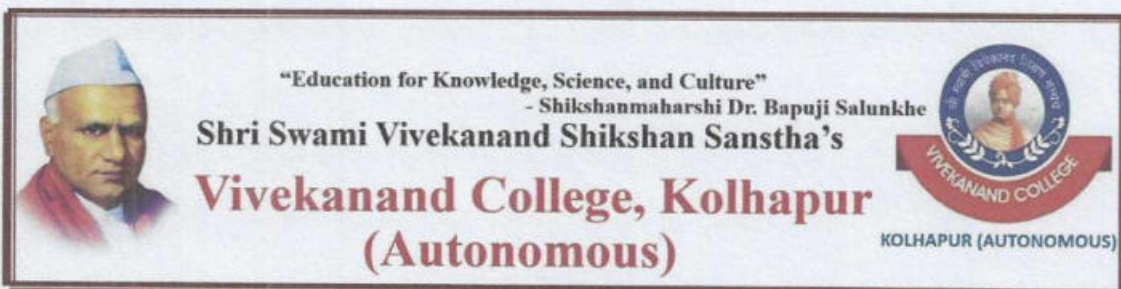


**Department of Mathematics**

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**CO-PO-PSO Attainment of B.Sc. III 2022-23**

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**Department of Mathematics**  
**B.Sc. I/II/III**  
**CO-PO-PSO Attainment verification 2022-23**

**CO attainment verification:**

Course Name	Course Code	CO Target	CO Attainment	Fully attained or not	Action taken
Calculus, Algebra and Geometry	DSC-1003A	3	1	Not attained	Need to focus overall
Multivariable Calculus and Ordinary Differential Equation	DSC-1003B	3	1.2	Not attained	Need to focus overall
Number Theory and Integral Calculus	DSC-1003C	3	2.6	Not attained	Need to focus on final exam
Discrete Mathematics and Integral Transform	DSC-1003D	3	1.6	Not attained	Need to focus overall
Real Analysis and Modern Algebra	DSC-1003E1	3	2	Not attained	Need to focus overall
Matrix Algebra and Numerical Methods I	DSC-1003E2	3	2	Not attained	Need to focus overall
Metric Spaces and Linear Algebra	DSC-1003F1	3	1.8	Not attained	Need to focus overall
Complex Analysis and Numerical Methods II	DSC-1003F2	3	2.8	Not attained	Need to focus on final exam



**PO verification:**

PO	Attainment	Level
PO1	1.875	Good
PO2	2.382	Very Good
PO3	1.817	Good
PO4	1.798	Good
PO5	2.436	Very Good

**PSO verification:**

PSO	Attainment	Level
PSO1	1.726	Good
PSO2	1.905	Good
PSO3	1.923	Good
PSO4	1.969	Good
PSO5	1.888	Good



*S.P. Thorat*  
**(S.P. THORAT)**  
**HEAD**  
DEPARTMENT OF MATHEMATICS  
VIVEKANAND COLLEGE, KOLHAPUR  
(AUTONOMOUS)

**Vivekanand College, Kolhapur (Autonomous)**  
**Department of Mathematics**  
**CO/PO/PSO attainment calculation**  
**B.Sc. I/II/III**  
**(Year 2022-2023)**

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**PO's:**

**PO1:** To acquire knowledge with facts.

**PO2:** To acquire the skills in handling scientific instruments.

**PO3:** To develop scientific outlook with respect to science subject.

**PO4:** To analyse the given scientific data critically and systematically.

**PO5:** To realize ethical moral and social values in personal and social life.

**PSO's:**

**PSO1:** Enabling students to develop a positive attitude towards mathematics as an interesting and valuable subject of study.

**PSO2:** Acquire good knowledge and understanding advanced areas of mathematics chosen by students from given course.

**PSO3:** Students should be able to recall basic facts about mathematics and train the students to extract information, formulate and solve problems in systematic and logical manner.

**PSO4:** Students will learn numerical aptitude applying both qualitative and quantitative knowledge for their further career

**PSO5:** Students learn how to apply mathematical concepts to practical and real-life problems.

### **Course I: Differential Calculus (DSC - 1003A)**

**CO1:** Understand higher order derivative and its application

**CO2:** Identify a asymptote of function and sketch the graph of the function

**CO3:** Understand the consequences of various mean value theorems on differentiable functions

**CO4:** Calculate the limit and examine the continuity of a function at a point

**CO5:** Employ theorem on properties of continuity in various examples

**CO6:** Understand the geometrical interpretation of mean value theorem

### **Course II: Differential Equations (DSC - 1003B)**

**CO1:** Learn various techniques of getting exact solutions of solvable first order differential equations and linear differential equations of higher order

**CO2:** Calculate P. I. and C.F. of different types of differential equations

**CO3:** Learn the technique of solving Clairauts equation

**CO4:** Solve homogeneous and non - homogeneous partial differential equation

**CO5:** Solve differential equation of degree more than one

**CO6:** Classify the partial differential equations

### **Course III: Differential and Integral Calculus (DSC - 1003C)**

**CO1:** Calculate the different problems by using Jacobian

**CO2:** Make use of concept of derivative to study different curves geometrically

**CO3:** Identify a asymptote of function and sketch the graph of the function

**CO4:** Make use of vector differentiation to study various physical phenomenon

**CO5:** Solve improper integral by using beta and gamma function.

**CO6:** Use double and triple integration to find the area, volume of the given region

CO7: Acquire the information about beta, gamma function

CO8: Find Fourier series expansion of the given functions.

**Course IV: Discrete Mathematics and Integral Transform (DSC - 1003D)**

CO1: aware with different mathematical structures.

CO2: Familiarize with basic concept of graph theory

CO3: Formulate Recurrence relations to solve problems involving an unknown sequence

CO4: Learn Boolean Algebra terms and apply to solve various circuit problem

CO5: familiar with different kinds of integral transformations.

CO6: make use of the transformations to solve differential equations.

CO7: Determine Fourier transform, relation between Laplace and Fourier transform

CO8: Explain the applications of special functions

**Course V: Real analysis and Modern Algebra (DSC -1003 E1)**

CO1: Understand The characteristics of set of real number.

CO2: Learn Sequence and series of real numbers and their properties.

CO3: Use the ratio, root, alternating series and limit comparison test for convergence and absolute convergence of infinite series of real numbers

CO4: Learn Riemann Integral and Improper Integral.

CO5: Understand an algebraic structures Group and ring.

CO6: Understand Properties and terminologies related to Group and Ring.

CO7: Apply fundamental theorem, Isomorphism theorems of groups to prove these theorems for Ring.

CO8: Recognize the mathematical objects that are group and classify them as abelian, cyclic and permutation group

**Course V: Matrix Algebra and Numerical Methods-I (DSC -1003 E2)**

**CO1:** Learn Terminologies related with matrices.

**CO2:** To solve system of homogeneous and non-homogeneous equations

**CO3:** Calculate eigen values and corresponding eigen vectors of square matrix

**CO4:** Calculate the translation, dilation, rotation of point, line and plane by using matrices

**CO5:** Use approximate numerical methods and determine the solutions to give non-linear equations

**CO6:** Use appropriate numerical methods and determine approximate solutions to systems of linear equations and ordinary differential equations.

**CO7:** Learn numerical methods to calculate eigen value

**CO8:** Learn numerical method to find solution of system of equations

**Course VI :Metric Spaces and Linear Algebra**

**(DSC-1003 F1)**

**CO1:** Learn Metric spaces and its different types.

**CO2:** Apply the notion of metric space to continuous functions on metric spaces

**CO3:** Demonstrate the properties of continuous function on metric space

**CO4:** Understand the basic concepts of connectedness, completeness and compactness of metric space

**CO5:** Understand the concept of Vector spaces and operators on them.

**CO6:** Learn properties of Inner product spaces

**CO7:** Learn basic concept of linear transformation, dimension theorem

**CO8:** Familiarize characteristic roots and characteristic vectors.

**Course V: Complex Analysis and Numerical Methods-II (DSC -1003F2)**

**CO1:** Familiarize with Basic concepts of functions of theory of functions of complex variable.

**CO2:** Learn Differentiation and Integration of complex valued functions

**CO3:** Apply Cauchy integral formula to calculate integrals

**CO4:** Represent functions as Taylor, power and Laurent series, classify singularities and poles, find residues and evaluate complex integrals using the residue theorem

**CO5:** Use appropriate numerical methods to evaluate the integration

**CO6:** Demonstrate the use of interpolation methods to find intermediate values in given graphical and/or tabulated data for unequally spaced data

**CO7:** Demonstrate the use of interpolation methods to find intermediate values in given graphical and/or tabulated data for equally spaced data

**CO8:** Learn to find the solutions of ordinary differential equations by Euler, Taylor and Runge Kutta Method.



## Articulation matrix for

### Course I:(DSC-1003A)

Outcomes	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
C01	2	0	2	0	0	2	2	2	1	1
C02	2	0	2	2	0	2	3	2	1	2
C03	2	0	1	2	0	1	1	2	1	1
C04	2	0	1	1	0	2	2	1	0	1
C05	2	0	1	1	0	2	2	2	1	1
C06	2	0	1	3	0	2	2	2	2	2
Average	2	0	1.3333	1.5	0	1.8333	2	1.8333	1	1.3333

### Course II:(DSC -1003B)

Outcomes	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
C01	2	0	2	0	0	2	2	2	1	1
C02	2	0	2	2	0	2	2	1	1	1
C03	2	0	1	2	0	1	2	1	0	2
C04	2	0	1	1	0	2	2	2	1	2
C05	2	0	1	1	0	2	2	2	1	2
C06	2	0	1	3	0	1	1	2	1	3
Average	2	0	1.3333	1.5	0	1.6667	1.8333	1.6667	0.8333	1.8333

### Course III: (DSC -1003C)

Outcomes	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
C01	2	0	2	2	0	3	3	2	3	1
C02	2	1	1	2	0	1	2	2	1	0
C03	2	0	0	1	0	0	0	2	2	0
C04	2	0	1	1	0	1	1	2	2	0
C05	2	0	1	0	0	2	2	1	1	0
C06	2	0	0	0	0	0	1	1	0	0
C07	2	0	1	0	0	2	2	2	0	0
C08	2	0	1	1	0	2	2	2	0	2
Average	2	0.125	0.875	0.875	0	1.375	1.625	1.75	1.125	0.375

**Course IV: (DSC -1003D)**

Outcomes	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
C01	2	0	1	1	0	3	2	2	1	0
C02	2	0	1	1	0	1	1	2	0	0
C03	2	0	1	2	0	2	2	2	0	0
C04	2	0	1	2	0	1	2	1	0	1
C05	2	0	1	0	0	2	2	2	0	1
C06	2	0	1	0	0	0	2	2	0	0
C07	2	0	2	0	0	1	2	2	0	0
C08	2	0	2	1	0	1	3	3	1	1
Average	2	0	1.25	0.875	0	1.375	2	2	0.25	0.375

**Course V: (DSC -1003E1)**

Outcomes	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
C01	2	0	1	1	0	0	2	3	1	1
C02	2	0	1	1	0	1	3	3	1	2
C03	2	0	1	1	0	0	3	2	0	1
C04	2	0	0	1	0	1	2	2	1	1
C05	2	0	1	1	0	1	2	2	0	3
C06	2	0	1	1	0	1	3	3	0	2
C07	2	0	1	1	0	0	2	2	1	1
C08	2	0	1	1	0	0	3	2	1	1
Average	2	0	0.875	1	0	0.5	2.5	2.375	0.625	1.5

**Course VI: (DSC -1003E2)**

Outcomes	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
C01	2	0	1	1	0	1	3	2	2	2
C02	2	0	1	1	0	1	2	3	1	2
C03	2	0	1	1	0	0	2	2	0	2
C04	2	1	1	1	0	1	2	3	2	2
C05	2	1	2	1	1	1	2	2	2	3
C06	2	1	2	1	0	1	2	3	2	2
C07	2	0	2	1	0	1	3	2	2	2
C08	2	1	1	1	0	1	3	2	1	2
Average	2	0.5	1.375	1	0.125	0.875	2.375	2.375	1.5	2.125

**Course VII: (DSC -1003F1)**

Outcomes	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
C01	2	0	1	0	0	1	2	3	0	1
C02	2	0	1	0	0	1	3	3	0	1
C03	2	0	1	0	0	1	2	3	0	1
C04	2	0	0	1	0	1	3	2	0	2
C05	2	0	1	1	0	1	2	2	0	1
C06	2	0	1	0	0	1	3	2	0	1
C07	2	0	1	1	0	1	2	3	0	1
C08	2	0	1	1	0	0	3	2	1	1
Average	2	0	0.875	0.5	0	0.875	2.5	2.5	0.125	1.125

**Course VIII: (DSC -1003F2)**

Outcomes	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5
C01	2	0	1	1	0	1	2	3	2	2
C02	2	0	1	1	0	1	3	3	1	2
C03	2	0	1	1	0	0	3	2	0	1
C04	2	1	1	1	0	1	2	3	2	2
C05	2	1	2	1	1	1	3	3	1	2
C06	2	0	2	1	0	1	3	3	2	2
C07	2	0	1	1	0	0	2	2	1	2
C08	2	1	2	1	1	1	3	3	2	3
Average	2	0.375	1.25	1	0.25	0.75	2.625	2.75	1.375	2

Year 2022-23

ROLL NO.	NAME	SEM I		SEM II		SEM III		SEM IV		SEM V				SEM VI			
		DSC - 1003A		DSC - 1003B		DSC - 1003C		DSC - 1003D		DSC-1003E1		DSC-1003E2		DSC-1003F1		DSC-1003F2	
		(CA)	(CIE)	(CA)	(CIE)	(CA)	(CIE)	(CA)	(CIE)	(CA)	(CIE)	(CA)	(CIE)	(CA)	(CIE)	(CA)	(CIE)
8313	Chavan Dhanshri Popat	80	20	60	14	80	19	79	20	57	19	78	20	78	20	77	20
8314	Chavan Shruti Raj	48	16	24	10	44	20	69	16	42	15	38	18	48	18	51	19
8315	Chigonde Aditya Ganpat	72	16	72	20	56	15	60	20	54	20	72	19	65	20	73	19
8316	Garad Dnyaneshwar Sunil	40	18	60	16	52	18	68	12	44	19	50	16	60	17	73	18
8317	Gutte shruti vijay	80	16	80	20	80	20	80	20	73	20	74	19	67	20	80	20
8318	Karape Rajkumar Baban	68	20	28	20	68	20	80	19	66	20	72	20	51	20	75	20
8319	Mali Samrudhi Suresh	32	16	28	10	32	19	34	9	32	15	31	15	18	15	31	15
8320	More Prajakta Prabhakar	40	14	24	10	48	20	78	20	70	20	77	19	74	20	75	20
8322	Panhalkar Varsha yashvant	64	20	44	20	44	20	79	20	65	20	58	19	51	19	66	18
8323	Patil Harshad Kiran	72	20	52	20	64	20	80	19	74	20	75	20	53	18	71	20
8324	Patil nikita ahok	32	8	40	20	68	20	80	20	57	18	57	18	55	19	75	19
8325	Patil Sakshi Pandurang	32	14	44	16	28	16	53	17	37	18	30	17	33	15	49	15
8326	Patil Sanjana Sanjay	52	18	56	16	40	18	73	20	60	17	59	16	65	19	72	20
8327	Patil Shivani Sidgonda	80	20	56	20	76	20	80	20	73	19	72	20	62	20	74	20
8328	Powar Kedar Krushnat	72	18	44	18	60	19	54	15	60	18	39	18	37	16	37	14
8329	Sokasane Sanika Nandkumar	36	20	68	18	44	19	72	17	74	20	76	20	65	20	77	20
8330	Suryavanshi Priyanka Govind	40	14	32	16	40	19	62	13	34	15	33	17	40	16	40	16
8331	Teli Vinayak Rajaram	80	14	76	20	80	20	78	20	70	20	75	19	69	20	79	20
8332	Thakare Vaishanvee Navanath	80	20	80	20	72	18	79	20	74	20	74	20	78	20	78	20
8333	Ubare Sanika Rajaram	52	20	40	20	56	19	77	20	53	18	66	20	41	20	62	18
8334	Vadar Sourabh Sanajay	56	16	28	18	32	20	77	16	65	16	55	19	41	20	59	18
8524	vetale Rohit Babu	28	10	50	18	36	20	50	15	28	15	43	15	37	15	41	16
8528	Khot Rutuja Krushmath	48	20	50	18	44	12	58	13	50	15	68	18	60	20	68	19

CA: External(Theory)

CIE: Internal

## FEEDBACK FORM QUESTIONS:

Q.1 How do you rate the syllabus of the courses that you have studied in relation to the capability expected out of the course?

Q.2. How do you rate the usefulness of the units in the syllabus relevant to the course?

Q.3. How do you rate the weightage of the credits to the courses

Q.4. How do you rate the offering of electives in terms of their quality to the specialization stream?

Q.5. How do you rate the electives offered in relation to technological advancements?

Q.6. Rate the size of the syllabus in terms of the load of the students.

Q.7. Rate the courses in terms of self-learning considering the design of the courses.

Q.8. How do you rate the evaluation scheme designed for each of the courses?

Q.9. How do you rate the objectives stated for each of the course?

Q.10. How do you rate the percentage of the courses having lab components?

B.Sc. Sem I (DSC-1003A)

Roll No.	Q.1	Q.2	Q.3	Q.4	Q.5	Q.6	Q.7	Q.8	Q.9	Q.10
8313	4	3	5	4	3	3	3	2	4	2
8314	1	1	1	1	1	1	1	1	1	1
8315	4	3	3	4	3	3	4	3	3	3
8316	5	4	4	5	5	5	4	5	5	5
8317	3	2	3	4	2	2	2	3	4	4
8318	4	5	4	3	4	3	3	5	4	3
8319	3	4	3	2	4	3	3	4	3	4
8320	3	3	3	2	3	3	3	3	3	3
8321	5	4	4	5	3	4	4	5	4	4
8322	3	2	4	4	3	4	2	3	2	3
8323	4	3	5	2	4	5	2	3	4	5
8324	2	4	2	3	4	3	4	4	3	3
8325	4	3	3	3	2	2	2	3	3	3
8326	5	4	3	5	4	2	4	1	3	5
8327	4	3	4	5	4	5	4	4	3	4
8328	2	3	4	5	4	5	3	4	5	2
8329	3	4	4	3	3	3	2	2	3	3
8330	4	5	5	5	5	3	4	4	4	3
8331	4	4	4	3	4	2	3	3	4	4
8332	3	3	3	3	3	2	3	3	2	2
8333	4	3	4	5	5	4	4	4	3	4
8334	3	3	3	3	3	4	3	4	3	3
8524	3	3	4	2	2	3	2	3	3	3
8525	5	5	5	5	5	5	5	5	4	5
8528	3	3	3	2	2	3	3	3	3	3

5: Excellent 4: very Good 3: Good 2: Average 1: Poor

B.Sc.I Sem II(DSC-1003B)

RcII No.	Q.1	Q.2	Q.3	Q.4	Q.5	Q.6	Q.7	Q.8	Q.9	Q.10
8313	4	3	4	4	3	2	3	5	3	3
8314	1	1	1	1	1	1	1	1	1	1
8315	3	3	4	4	5	3	4	4	4	4
8316	5	4	5	4	5	4	4	5	4	5
8317	3	2	3	3	4	2	2	3	3	3
8318	4	5	4	3	4	3	5	4	3	4
8319	3	4	3	3	4	3	4	3	3	3
8320	3	1	1	2	2	2	2	3	3	3
8321	5	4	4	4	5	4	5	5	3	4
8322	4	3	3	4	2	2	2	4	2	3
8323	5	4	3	5	4	5	4	4	5	4
8324	3	2	3	4	3	3	2	4	3	2
8325	3	4	5	5	4	4	4	4	4	3
8326	5	4	4	3	4	4	5	4	3	3
8327	4	4	4	3	4	4	4	4	4	4
8328	3	4	3	3	2	3	4	4	4	4
8329	3	3	2	4	3	4	2	3	2	2
8330	4	2	3	3	4	4	4	4	3	3
8331	4	4	4	4	4	4	5	4	4	3
8332	3	3	3	3	3	2	3	3	2	2
8333	5	4	4	5	4	3	4	4	4	4
8334	3	3	3	3	3	3	3	3	3	3
8524	3	3	5	5	5	5	5	5	5	3
8525	5	5	5	5	5	5	5	5	5	5
8528	3	3	3	2	2	3	3	3	3	3

5: Excellent 4: very Good 3: Good 2: Average 1: Poor

B.Sc.II Sem III(DSC-1003C)

RcII No.	Q.1	Q.2	Q.3	Q.4	Q.5	Q.6	Q.7	Q.8	Q.9	Q.10
8313	4	3	5	4	3	4	4	3	3	2
8314	1	1	1	1	1	1	1	1	1	1
8315	4	4	4	4	4	4	3	3	3	4
8316	5	4	5	5	4	4	5	5	5	5
8317	3	4	2	3	3	3	4	3	3	4
8318	3	4	5	4	3	4	3	5	4	3
8319	3	4	4	3	3	3	4	3	3	4
8320	3	2	3	3	3	3	3	3	3	3
8321	3	3	3	3	3	3	3	3	3	3
8322	5	4	5	4	3	5	4	4	3	4
8323	3	3	3	4	4	1	3	2	5	3
8324	5	4	3	3	1	5	5	4	3	4
8325	4	3	2	3	3	3	4	3	4	3
8326	2	3	3	3	3	3	3	3	3	4
8327	5	4	3	5	4	3	4	4	3	2
8328	2	3	2	2	1	4	2	3	2	4
8329	4	4	3	3	3	3	2	3	2	3
8330	3	3	2	3	2	2	3	3	2	2
8331	4	4	4	4	4	4	4	5	4	4
8332	3	3	3	2	3	3	2	3	3	2
8333	4	4	5	4	4	4	3	4	5	5
8334	3	3	3	3	3	3	3	3	3	3
8524	5	4	4	3	2	3	1	1	5	1
8525	5	5	5	5	5	5	5	5	4	5
8528	3	3	2	3	3	3	3	4	4	4

5: Excellent 4: very Good 3: Good 2: Average 1: Poor



B.Sc.II Sem IV(DSC-1003D)

Roll No.	Q.1	Q.2	Q.3	Q.4	Q.5	Q.6	Q.7	Q.8	Q.9	Q.10
8313	4	4	3	3	2	3	3	3	3	4
8314	1	1	1	1	1	1	1	1	1	1
8315	3	3	3	3	3	3	3	3	3	4
8316	5	4	5	5	4	5	5	5	5	5
8317	3	3	4	2	2	4	3	3	3	4
8318	5	4	4	3	3	4	3	5	3	5
8319	3	4	3	3	4	3	3	3	3	3
8320	3	2	2	3	3	3	3	3	3	3
8321	5	4	4	3	4	5	5	5	5	4
8322	4	2	3	4	2	2	4	3	2	3
8323	5	4	3	3	2	5	5	5	3	4
8324	3	2	3	3	3	2	3	3	3	2
8325	3	3	4	3	3	4	2	4	4	5
8326	5	4	3	4	4	3	3	3	2	2
8327	3	3	3	3	4	4	2	2	2	2
8328	2	3	3	3	4	4	4	3	3	4
8329	3	2	2	3	2	4	3	2	3	2
8330	5	5	3	3	3	4	3	3	4	5
8331	4	4	4	4	4	4	4	4	4	4
8332	3	3	3	3	3	3	3	3	3	2
8333	4	4	4	4	3	3	5	5	4	5
8334	3	3	3	3	3	4	3	4	3	3
8524	2	4	3	5	2	2	1	4	4	2
8525	5	5	5	4	5	5	5	5	5	5
8528	2	4	3	2	3	3	2	2	2	1

5: Excellent 4: very Good 3: Good 2: Average 1: Poor

B.Sc.III Sem V(DSC-1003E1)

Roll No.	Q.1	Q.2	Q.3	Q.4	Q.5	Q.6	Q.7	Q.8	Q.9	Q.10
8313	4	4	4	4	4	4	4	3	3	3
8314	1	1	1	1	1	1	1	1	1	1
8315	4	4	4	4	3	3	3	4	3	3
8316	4	5	4	5	5	5	4	5	5	5
8317	3	3	4	3	3	4	3	3	4	3
8318	3	3	4	4	4	4	4	5	4	3
8319	3	3	4	4	3	4	3	4	4	3
8320	3	3	3	3	3	3	3	3	4	4
8321	5	4	5	4	4	4	4	3	4	5
8322	5	4	4	4	5	4	3	4	4	5
8323	5	5	5	5	4	4	4	5	4	5
8324	3	3	4	3	3	3	3	4	4	3
8325	2	3	5	5	5	5	5	4	3	3
8326	5	3	5	4	5	5	4	4	3	5
8327	4	4	5	5	3	3	3	2	2	3
8328	1	2	2	2	2	2	3	4	2	4
8329	3	3	4	4	3	3	3	4	3	3
8330	4	4	4	3	3	4	4	4	3	3
8331	5	4	4	4	4	4	4	4	4	4
8332	3	3	3	3	2	3	3	3	3	2
8333	5	5	4	5	5	5	5	5	5	5
8334	2	2	2	2	2	2	2	2	2	2
8524	5	4	4	3	4	5	4	3	2	4
8525	3	3	5	5	5	5	5	4	4	4
8528	3	3	3	4	4	4	4	3	4	3

5: Excellent 4: very Good 3: Good 2: Average 1: Poor

B.Sc.III Sem V(DSC-1003E2)

Roll No.	Q.1	Q.2	Q.3	Q.4	Q.5	Q.6	Q.7	Q.8	Q.9	Q.10
8313	5	5	5	5	5	5	5	5	5	5
8314	4	3	3	3	3	5	4	3	3	3
8315	4	4	4	4	4	5	4	4	4	4
8316	3	3	3	3	3	5	3	3	3	3
8317	5	5	5	5	5	5	5	5	5	5
8318	4	4	4	4	4	5	4	4	4	4
8319	5	5	5	5	5	5	5	5	5	5
8320	3	3	3	3	3	5	3	3	3	3
8321	3	3	3	3	3	5	3	3	3	3
8322	5	5	5	5	5	5	5	5	5	5
8323	3	3	3	3	2	5	2	2	2	3
8324	3	3	4	3	3	4	4	4	3	4
8325	3	4	3	3	3	4	3	3	4	3
8326	5	5	5	5	5	5	5	5	5	5
8327	4	3	3	3	3	5	4	3	3	3
8328	4	4	4	4	4	5	4	4	4	4
8329	3	3	3	3	3	5	3	3	3	3
8330	5	5	5	5	5	5	5	5	5	5
8331	4	4	4	4	4	5	4	4	4	4
8332	5	5	5	5	5	5	5	5	5	5
8333	3	3	3	3	3	5	3	3	3	3
8334	3	3	3	3	3	5	3	3	3	3
8524	5	5	5	5	5	5	5	5	5	5
8525	3	3	3	3	2	5	2	2	2	3
8528	3	3	4	3	3	3	4	4	3	4

5: Excellent 4: very Good 3: Good 2: Average 1: Poor

B.Sc.III Sem VI(DSC-1003F1)

Roll No.	Q.1	Q.2	Q.3	Q.4	Q.5	Q.6	Q.7	Q.8	Q.9	Q.10
8313	3	4	3	3	3	4	4	4	2	4
8314	1	1	1	1	1	1	1	1	1	1
8315	4	4	3	4	3	4	4	3	4	4
8316	5	4	5	4	5	5	5	4	5	5
8317	3	3	4	4	4	3	3	3	3	3
8318	4	4	3	5	4	3	5	3	5	4
8319	3	4	2	3	4	3	3	3	4	3
8320	3	2	2	3	3	3	3	2	3	3
8321	5	4	4	5	5	4	4	3	5	4
8322	4	2	4	3	2	4	2	4	3	5
8323	5	4	3	3	5	4	2	4	5	4
8324	4	3	2	3	3	4	2	4	3	3
8325	1	2	2	3	4	3	3	2	2	4
8326	5	4	4	5	4	2	3	4	3	4
8327	2	2	3	3	3	3	3	3	3	3
8328	4	4	4	3	3	2	3	3	3	4
8329	3	3	4	3	2	3	2	3	3	2
8330	3	3	3	3	3	3	2	2	2	3
8331	4	5	4	4	4	4	3	3	3	4
8332	3	3	3	3	3	3	3	3	3	2
8333	4	4	4	3	3	3	4	5	4	5
8334	2	2	2	2	2	2	2	2	2	2
8524	4	3	4	4	4	4	4	4	2	2
8525	5	5	5	5	5	5	4	4	5	5
8528	5	1	3	4	5	2	4	3	5	2

5: Excellent 4: very Good 3: Good 2: Average 1: Poor

B.Sc.III Sem VI(DSC-1003F2)

Roll No.	Q.1	Q.2	Q.3	Q.4	Q.5	Q.6	Q.7	Q.8	Q.9	Q.10
8313	5	5	5	5	5	5	5	5	5	5
8314	4	3	3	3	3	5	3	3	3	3
8315	4	4	4	4	4	5	4	4	4	4
8316	3	3	3	3	3	5	3	3	3	3
8317	5	5	5	5	5	5	5	5	5	5
8318	5	5	5	5	5	5	5	5	5	5
8319	4	4	4	4	4	5	4	4	4	4
8320	5	5	5	5	5	5	5	5	5	5
8321	3	3	3	3	3	5	3	3	3	3
8322	3	4	3	3	3	5	3	3	3	4
8323	5	5	5	5	5	5	5	5	5	5
8324	3	3	4	2	3	5	4	3	2	3
8325	3	3	3	3	3	4	2	3	3	3
8326	5	5	5	5	5	5	5	5	5	5
8327	4	3	3	3	3	5	3	3	3	3
8328	4	4	4	4	4	5	4	4	4	4
8329	3	3	3	3	3	5	3	3	3	3
8330	5	5	5	5	5	5	5	5	5	5
8331	5	5	5	5	5	5	5	5	5	5
8332	4	4	4	4	4	5	4	4	4	4
8333	5	5	5	5	5	5	5	5	5	5
8334	3	3	3	3	3	5	3	3	3	3
8524	3	4	3	3	3	5	3	3	3	4
8525	5	5	5	5	5	5	5	5	5	5
8528	3	3	4	2	3	5	4	3	2	3

5: Excellent 4: very Good 3: Good 2: Average 1: Poor

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**STUDENTS FEEDBACK FORM**

Student Name: Dhanshri Popat Chavan

Roll No.: 8313

Subject Name: Complex analysis and numerical method -II

Sr. No.	Questions	Excellent	Very Good	Good	Average	Poor
1.	How do you rate the syllabus of the courses that you have studied in relation to the capability expected out of the course?	✓				
2.	How do you rate the usefulness of the units in the syllabus relevant to the course?	✓				
3.	How do you rate the weightage of the credits to the courses	✓				
4.	How do you rate the offering of electives in terms of their quality to the specialization stream?	✓				
5.	How do you rate the electives offered in relation to technological advancements?	✓				
6.	Rate the size of the syllabus in terms of the load of the students.	✓				
7.	Rate the courses in terms of self-learning considering the design of the courses.	✓				
8.	How do you rate the evaluation scheme designed for each of the courses?	✓				
9.	How do you rate the objectives stated for each of the course?	✓				
10.	How do you rate the percentage of the courses having lab components	✓				

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**STUDENTS FEEDBACK FORM**

Student Name: Dhanshri Popat Chavan

Roll No.: 8313

Subject Name: Metric Algebra and Numerical method-1

Sr. No.	Questions	Excellent	Very Good	Good	Average	Poor
1.	How do you rate the syllabus of the courses that you have studied in relation to the capability expected out of the course?	✓				
2.	How do you rate the usefulness of the units in the syllabus relevant to the course?	✓				
3.	How do you rate the weightage of the credits to the courses	✓				
4.	How do you rate the offering of electives in terms of their quality to the specialization stream?	✓				
5.	How do you rate the electives offered in relation to technological advancements?	✓				
6.	Rate the size of the syllabus in terms of the load of the students.	✓				
7.	Rate the courses in terms of self-learning considering the design of the courses.	✓				
8.	How do you rate the evaluation scheme designed for each of the courses?	✓				
9.	How do you rate the objectives stated for each of the course?	✓				
10.	How do you rate the percentage of the courses having lab components	✓				

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**STUDENTS FEEDBACK FORM**

Student Name: Dhanshri Popat chavan

Roll No.: 8313

Subject Name: Metric Space and linear Algebra

Sr. No.	Questions	Excellent	Very Good	Good	Average	Poor
1.	How do you rate the syllabus of the courses that you have studied in relation to the capability expected out of the course?			✓		
2.	How do you rate the usefulness of the units in the syllabus relevant to the course?		✓			
3.	How do you rate the weightage of the credits to the courses			✓		
4.	How do you rate the offering of electives in terms of their quality to the specialization stream?			✓		
5.	How do you rate the electives offered in relation to technological advancements?			✓		
6.	Rate the size of the syllabus in terms of the load of the students.		✓			
7.	Rate the courses in terms of self-learning considering the design of the courses.		✓			
8.	How do you rate the evaluation scheme designed for each of the courses?		✓			
9.	How do you rate the objectives stated for each of the course?				✓	
10.	How do you rate the percentage of the courses having lab components		✓			



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STUDENTS FEEDBACK FORM

Student Name: Dhanshri Popat Chavan

Roll No.: 8313

Subject Name: Real Analysis and modern algebra

Sr. No.	Questions	Excellent	Very Good	Good	Average	Poor
1.	How do you rate the syllabus of the courses that you have studied in relation to the capability expected out of the course?		✓			
2.	How do you rate the usefulness of the units in the syllabus relevant to the course?		✓			
3.	How do you rate the weightage of the credits to the courses		✓			
4.	How do you rate the offering of electives in terms of their quality to the specialization stream?		✓			
5.	How do you rate the electives offered in relation to technological advancements?		✓			
6.	Rate the size of the syllabus in terms of the load of the students.		✓			
7.	Rate the courses in terms of self-learning considering the design of the courses.		✓			
8.	How do you rate the evaluation scheme designed for each of the courses?			✓		
9.	How do you rate the objectives stated for each of the course?			✓		
10.	How do you rate the percentage of the courses having lab components			✓		

Vivekanand College, Kolhapur (Autonomous)  
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**STUDENTS FEEDBACK FORM**

Student Name: Dhanshri Popat chavan

Roll No.: 8313

Subject Name: Discrete mathematics and integral Transform

Sr. No.	Questions	Excellent	Very Good	Good	Average	Poor
1.	How do you rate the syllabus of the courses that you have studied in relation to the capability expected out of the course?		✓			
2.	How do you rate the usefulness of the units in the syllabus relevant to the course?		✓			
3.	How do you rate the weightage of the credits to the courses			✓		
4.	How do you rate the offering of electives in terms of their quality to the specialization stream?			✓		
5.	How do you rate the electives offered in relation to technological advancements?				✓	
6.	Rate the size of the syllabus in terms of the load of the students.			✓		
7.	Rate the courses in terms of self-learning considering the design of the courses.			✓		
8.	How do you rate the evaluation scheme designed for each of the courses?			✓		
9.	How do you rate the objectives stated for each of the course?			✓		
10.	How do you rate the percentage of the courses having lab components		✓			

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**STUDENTS FEEDBACK FORM**

Student Name: Dhanshri Popat Chavan

Roll No.: 8313

Subject Name: Differential and integral calculus

Sr. No.	Questions	Excellent	Very Good	Good	Average	Poor
1.	How do you rate the syllabus of the courses that you have studied in relation to the capability expected out of the course?		✓			
2.	How do you rate the usefulness of the units in the syllabus relevant to the course?			✓		
3.	How do you rate the weightage of the credits to the courses	✓				
4.	How do you rate the offering of electives in terms of their quality to the specialization stream?		✓			
5.	How do you rate the electives offered in relation to technological advancements?			✓		
6.	Rate the size of the syllabus in terms of the load of the students.		✓			
7.	Rate the courses in terms of self-learning considering the design of the courses.		✓			
8.	How do you rate the evaluation scheme designed for each of the courses?			✓		
9.	How do you rate the objectives stated for each of the course?			✓		
10.	How do you rate the percentage of the courses having lab components				✓	

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**STUDENTS FEEDBACK FORM**

Student Name: Dhanshri Popat Chavan  
 Roll No.: 8313  
 Subject Name: Differential equations

Sr. No.	Questions	Excellent	Very Good	Good	Average	Poor
1.	How do you rate the syllabus of the courses that you have studied in relation to the capability expected out of the course?		✓			
2.	How do you rate the usefulness of the units in the syllabus relevant to the course?			✓		
3.	How do you rate the weightage of the credits to the courses		✓			
4.	How do you rate the offering of electives in terms of their quality to the specialization stream?		✓			
5.	How do you rate the electives offered in relation to technological advancements?			✓		
6.	Rate the size of the syllabus in terms of the load of the students.				✓	
7.	Rate the courses in terms of self-learning considering the design of the courses.			✓		
8.	How do you rate the evaluation scheme designed for each of the courses?	✓				
9.	How do you rate the objectives stated for each of the course?			✓		
10.	How do you rate the percentage of the courses having lab components			✓		

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**STUDENTS FEEDBACK FORM**

Student Name: Chavan Dhanshri Popat  
 Roll No.: 8313  
 Subject Name: Differential calculus

Sr. No.	Questions	Excellent	Very Good	Good	Average	Poor
1.	How do you rate the syllabus of the courses that you have studied in relation to the capability expected out of the course?		✓			
2.	How do you rate the usefulness of the units in the syllabus relevant to the course?			✓		
3.	How do you rate the weightage of the credits to the courses	✓				
4.	How do you rate the offering of electives in terms of their quality to the specialization stream?		✓			
5.	How do you rate the electives offered in relation to technological advancements?			✓		
6.	Rate the size of the syllabus in terms of the load of the students.			✓		
7.	Rate the courses in terms of self-learning considering the design of the courses.			✓		
8.	How do you rate the evaluation scheme designed for each of the courses?				✓	
9.	How do you rate the objectives stated for each of the course?		✓			
10.	How do you rate the percentage of the courses having lab components				✓	

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**STUDENTS FEEDBACK FORM**

Student Name: Patil Harshad Kiran

Roll No.: 8323.

Subject Name: Differential Calculus.

Sr. No.	Questions	Excellent	Very Good	Good	Average	Poor
1.	How do you rate the syllabus of the courses that you have studied in relation to the capability expected out of the course?		✓			
2.	How do you rate the usefulness of the units in the syllabus relevant to the course?			✓		
3.	How do you rate the weightage of the credits to the courses	✓				
4.	How do you rate the offering of electives in terms of their quality to the specialization stream?				✓	
5.	How do you rate the electives offered in relation to technological advancements?		✓			
6.	Rate the size of the syllabus in terms of the load of the students.	✓				
7.	Rate the courses in terms of self-learning considering the design of the courses.				✓	
8.	How do you rate the evaluation scheme designed for each of the courses?			✓		
9.	How do you rate the objectives stated for each of the course?		✓			
10.	How do you rate the percentage of the courses having lab components	✓				

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**STUDENTS FEEDBACK FORM**

Student Name: Harshad Kiran Patil

Roll No.: 8323

Subject Name: Differential Equations.

Sr. No.	Questions	Excellent	Very Good	Good	Average	Poor
1.	How do you rate the syllabus of the courses that you have studied in relation to the capability expected out of the course?	✓				
2.	How do you rate the usefulness of the units in the syllabus relevant to the course?		✓			
3.	How do you rate the weightage of the credits to the courses			✓		
4.	How do you rate the offering of electives in terms of their quality to the specialization stream?	✓				
5.	How do you rate the electives offered in relation to technological advancements?		✓			
6.	Rate the size of the syllabus in terms of the load of the students.	✓				
7.	Rate the courses in terms of self-learning considering the design of the courses.		✓			
8.	How do you rate the evaluation scheme designed for each of the courses?		✓			
9.	How do you rate the objectives stated for each of the course?	✓				
10.	How do you rate the percentage of the courses having lab components		✓			

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**STUDENTS FEEDBACK FORM**

Student Name: *Harshad Kiran Patil*

Roll No.: *8323*

Subject Name: *Differential and Integral Calculus.*

Sr. No.	Questions	Excellent	Very Good	Good	Average	Poor
1.	How do you rate the syllabus of the courses that you have studied in relation to the capability expected out of the course?			✓		
2.	How do you rate the usefulness of the units in the syllabus relevant to the course?			✓		
3.	How do you rate the weightage of the credits to the courses			✓		
4.	How do you rate the offering of electives in terms of their quality to the specialization stream?		✓			
5.	How do you rate the electives offered in relation to technological advancements?		✓			
6.	Rate the size of the syllabus in terms of the load of the students.					✓
7.	Rate the courses in terms of self-learning considering the design of the courses.			✓		
8.	How do you rate the evaluation scheme designed for each of the courses?				✓	
9.	How do you rate the objectives stated for each of the course?	✓				
10.	How do you rate the percentage of the courses having lab components			✓		



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**STUDENTS FEEDBACK FORM**

Student Name: Harshad Kiran Patil

Roll No.: 8323

Subject Name: Discrete Mathematics and Integral Transform

Sr. No.	Questions	Excellent	Very Good	Good	Average	Poor
1.	How do you rate the syllabus of the courses that you have studied in relation to the capability expected out of the course?	✓				
2.	How do you rate the usefulness of the units in the syllabus relevant to the course?		✓			
3.	How do you rate the weightage of the credits to the courses			✓		
4.	How do you rate the offering of electives in terms of their quality to the specialization stream?			✓		
5.	How do you rate the electives offered in relation to technological advancements?				✓	
6.	Rate the size of the syllabus in terms of the load of the students.	✓				
7.	Rate the courses in terms of self-learning considering the design of the courses.	✓				
8.	How do you rate the evaluation scheme designed for each of the courses?	✓				
9.	How do you rate the objectives stated for each of the course?			✓		
10.	How do you rate the percentage of the courses having lab components		✓			

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**STUDENTS FEEDBACK FORM**

Student Name: Harshad Kiran Patil

Roll No.: 8323

Subject Name: Real Analysis and modern Algebra.

Sr. No.	Questions	Excellent	Very Good	Good	Average	Poor
1.	How do you rate the syllabus of the courses that you have studied in relation to the capability expected out of the course?	✓				
2.	How do you rate the usefulness of the units in the syllabus relevant to the course?	✓				
3.	How do you rate the weightage of the credits to the courses	✓				
4.	How do you rate the offering of electives in terms of their quality to the specialization stream?	✓				
5.	How do you rate the electives offered in relation to technological advancements?		✓			
6.	Rate the size of the syllabus in terms of the load of the students.		✓			
7.	Rate the courses in terms of self-learning considering the design of the courses.		✓			
8.	How do you rate the evaluation scheme designed for each of the courses?	✓				
9.	How do you rate the objectives stated for each of the course?		✓			
10.	How do you rate the percentage of the courses having lab components	✓				

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**STUDENTS FEEDBACK FORM**

Student Name: Harshad Kiran Patil

Roll No.: 8323.

Subject Name: Matrix Algebra and Numerical Methods-1.

Sr. No.	Questions	Excellent	Very Good	Good	Average	Poor
1.	How do you rate the syllabus of the courses that you have studied in relation to the capability expected out of the course?			✓		
2.	How do you rate the usefulness of the units in the syllabus relevant to the course?			✓		
3.	How do you rate the weightage of the credits to the courses			✓		
4.	How do you rate the offering of electives in terms of their quality to the specialization stream?			✓		
5.	How do you rate the electives offered in relation to technological advancements?				✓	
6.	Rate the size of the syllabus in terms of the load of the students.	✓				
7.	Rate the courses in terms of self-learning considering the design of the courses.				✓	
8.	How do you rate the evaluation scheme designed for each of the courses?				✓	
9.	How do you rate the objectives stated for each of the course?				✓	
10.	How do you rate the percentage of the courses having lab components			✓		

Vivekanand College, Kolhapur (Autonomous)

Department of Mathematics

B.Sc. I/II/III

(Year 2022-2023)

STUDENTS FEEDBACK FORM

Student Name: Harshad Kiran Patil

Roll No.: 8323

Subject Name: Metric space and Linear Algebra.

Sr. No.	Questions	Excellent	Very Good	Good	Average	Poor
1.	How do you rate the syllabus of the courses that you have studied in relation to the capability expected out of the course?	✓				
2.	How do you rate the usefulness of the units in the syllabus relevant to the course?		✓			
3.	How do you rate the weightage of the credits to the courses			✓		
4.	How do you rate the offering of electives in terms of their quality to the specialization stream?			✓		
5.	How do you rate the electives offered in relation to technological advancements?	✓				
6.	Rate the size of the syllabus in terms of the load of the students.		✓			
7.	Rate the courses in terms of self-learning considering the design of the courses.				✓	
8.	How do you rate the evaluation scheme designed for each of the courses?		✓			
9.	How do you rate the objectives stated for each of the course?	✓				
10.	How do you rate the percentage of the courses having lab components		✓			

Vivekanand College, Kolhapur (Autonomous)  
Department of Mathematics  
B.Sc. I/II/III  
(Year 2022-2023)

**STUDENTS FEEDBACK FORM**

Student Name: Harshad Kiran Patil

Roll No.: 8323

Subject Name: complex analysis and Numerical method-II

Sr. No.	Questions	Excellent	Very Good	Good	Average	Poor
1.	How do you rate the syllabus of the courses that you have studied in relation to the capability expected out of the course?	✓				
2.	How do you rate the usefulness of the units in the syllabus relevant to the course?	✓				
3.	How do you rate the weightage of the credits to the courses	✓				
4.	How do you rate the offering of electives in terms of their quality to the specialization stream?	✓				
5.	How do you rate the electives offered in relation to technological advancements?	✓				
6.	Rate the size of the syllabus in terms of the load of the students.	✓				
7.	Rate the courses in terms of self-learning considering the design of the courses.	✓				
8.	How do you rate the evaluation scheme designed for each of the courses?	✓				
9.	How do you rate the objectives stated for each of the course?	✓				
10.	How do you rate the percentage of the courses having lab components	✓				