

Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

STATEMENT OF SYLLABUS COVERED

Year: 2024- 2025

Name of the Teacher: Mr. S. P. Thorat

Term: Ist

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
M.Sc.-I	Research	I) Mathematical	All	None	
Sem-I	Methodology	Writing			
		II) Writing a Paper			
		III) Publishing a Paper			
		IV) Quality Indices of Research Publication			
B.Sc.I	Calculus	I) Differentiation	All	None	
(Sem-I)					
B.Sc.II	Integral	I) Beta & Gamma Functions.	All	None	
(Major)	Calculus				
(Sem III)		III) Multiple Integral			
B.Sc.II	Calculus of	I) Gamma & Beta Functions			
(Minor)	integrable				
(Sem III)	functions	III) Multiple integral			

S. P. Thorat
(Mr. S. P. Thorat)
Name and Sign of Teacher



S. P. Thorat
(Prof. S. P. Thorat)
HEAD
DEPARTMENT OF MATHEMATICS
VIVEKANAND COLLEGE, KOLHAPUR
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STATEMENT OF SYLLABUS COVERED

Year: 2024- 2025

Name of the Teacher: Mr. G. B. Kolhe

Term: Ist

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
B.Sc. I sem-I	Basic Algebra	Algebra of complex numbers.	All	None	—
B.Sc. II sem-III Major	Integral Calculus	Unit-II:- Differentiation under Integral sign and error function Unit-IV:- Fourier series	All	None	—
B.Sc. II sem-III Major	DSC - Mathematics Lab-3	1] Examples of Jacobian 2] Functions 3] Lagrange's Method of Undetermined Multipliers. 4] Gradient, Divergence, curl	All	None	—
B.Sc. III Sem-V	Modern Algebra	Unit-I:- Groups Unit-II:- Normal Subgroups Homomorphism Unit-III:- Rings Unit IV:- Homomorphism in Rings	All	None	—

G. B. Kolhe

Name and Sign of Teacher
(Mr. Gaurav B. Kolhe)



hsharat

(Prof. S. P. Thorat)

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STATEMENT OF SYLLABUS COVERED

Year: 2024- 2025

Name of the Teacher: Mr. Gaurav B. kulhe

Term: 1st

Department: Mathematics

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G. B. Kolhapur

Name and Sign of Teacher

(Mr. Gaurav B. Kolhe)



hshwcat

(Prof. S. P. Thorat)

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STATEMENT OF SYLLABUS COVERED

Year: 2024- 2025

Name of the Teacher: Ms. Prajyot P. Kulkarni

Term: 1st

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
B.Sc I sem I	Basic Algebra	Unit II : Matrices	All	None	-
B.Sc I sem I	DSC - Mathematics Lab- I	De-Moivre Theorem Matrices System of linear Equations Differentiation	All	None	
B.Sc II [Major] sem III	Multivariable Calculus	Unit I : Jacobians	All	None	
		Unit II : Applications of Partial Differentiation	All	None	
B.Sc II [Minor] sem III	Calculus of Multiple Variables	Unit I : Jacobians	All	None	
		Unit II : Applications of Partial Differentiation	All	None	

Prajyot

Name and Sign of Teacher

Ms. Prajyot P. Kulkarni



S.P. Thorat

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Year: 2024- 2025

Name of the Teacher: Ms. P. P. Kulkarni

Term: Ist

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
B.Sc III	Real	Unit I:			
	Analysis	Sequence of real	All	None	
Sem V		numbers			
		Unit II:			
		Series of real number	All	None	
		Unit III:			
		Riemann Integral	All	None	
		Unit IV:			
		Improper Integral	All	None	
M.Sc	Functional	Unit I : Normed linear			
II	Analysis	spaces			
Sem III		Unit II : Second	All	None	
		conjugate space			
		Unit III : Hilbert space			
		Unit IV : Self adjoint			
		operator			

P. P. Kulkarni
Name and Sign of Teacher
Ms. P. P. Kulkarni



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STATEMENT OF SYLLABUS COVERED

Year: 2024- 2025

Name of the Teacher: Varsha Babruvahan Patil, Term: 1st

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
B.Sc. I	O.E. I	i) Set Theory	All	None	-
Sem I	Foundation of Mathematics	ii) Equivalence class, Relations			
		iii) Line theory & Geometry			
		iv) Absolute Value			
B.Sc. III	Core Course Practical	i) Introduction to L.P.P.	All	None	-
Sem- I	Mathematics (C.C.P.M.S.)	ii) Introduction to L.P.P. & Transportation & Assignment I			
		iii) Transportation & Assignment II			
		iv) Transportation & Assignment III			
B.Sc. II	Numerical	Unit I: Numerical Interpolation (for unequal interval)	All	None	-
Sem V	Method.	Unit II: Numerical Interpolation (for equal interval)			
		Unit III: Numerical Differentiation & Integration			
		Unit IV: Solution of first order Ordinary Differential Equations			

Varsha B. Patil

Name and Sign of Teacher

(Varsha. B. Patil)



S. P. Thorat

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Year: 2024- 2025

Name of the Teacher: Ms. A.M. Sathe.

Term: Ist

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
B.com.I (sem-I)	Business Mathematics-I (DECO2MATII)	Unit I - set Theory. Unit II - Introduction of A.P. & G.P. Unit III - Matrix Unit IV - Linear Programming Problem.	All	None	
B.Sc.II (Major) (sem-III)	Multivariable Calculus	Unit III - Vector Differential Calculus Unit IV - Vector Integral Calculus.	All	None	
B.Sc.II (Minor) (sem III)	Calculus of Multiple Variables	Unit III - Vector Differential Calculus. Unit IV - Vector Integral calculus.	All	None	
B.Sc.II (sem III)	MIN-Mathem-atics Lab 3	Gradient, Divergence, Curl	All	None	

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Term: 1st

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
B.Sc.III (sem-IV)	Core course Practical In Mathematics (CCPM-IV)	I) Numerical Interpolation (For equal interval) i) Newton's forward interpolation ii) Newton's Backward interpolation II) Numerical Interpolation (For unequal interval) i) Lagrange's interpolation ii) Newton's divided difference interpolation	All	None	
M.Sc.I (sem I)	Ordinary Differential Equations	I) second order Homogeneous Equation II) The non-homogeneous equation of n^{th} order III) The Legendre equation IV) The Bessel equation	All	None	


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Year: 2024- 2025

Name of the Teacher: Ms. S. J. Koshti

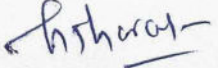
Term: Ist

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
B.Sc.I Sem I	Calculus	(i) Mean Value Theorem and Indeterminate Forms	All	None	
B.Sc.I Sem I	DSC Mathe- matics Lab -I	(i) Mean Value Theorem (ii) Indeterminate forms.	All	None	
B.Sc.II Sem III	Introduction to python	(i) Introduction to python (ii) Loop and Modules (iii) Numerical Integration (iv) Roots Finding method	All	None	
B.Sc.II Sem III (minor)	MIN-Matthem- atics Lab III	(i) Jacobian, Taylor And Maclaurin's Theorem (ii) Gamma and Beta function (iii) Examples on D.I.U.S	All	None	
B.Sc.III Sem V	CCPM-V	(i) Numerical Differentiation (ii) Introduction	All	None.	
B.Sc.III Sem V	CCPM-VI	(ii) conditional statement iii) Conditional statement iv) Functions	All	None	


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Name of the Teacher: Ms. S. J. Koshti

Term: $\mathbb{I}^{St}$

Department: Mathematics

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Kashtri
(Ms. S.J. Kashtri)
Name and Sign of Teacher



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(Prof. S. P. Thorat)
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Name of the Teacher: Ms. A. D. Patil

Term: Ist

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
M.Sc.-I	Modern	I] Groups, Normal	All	None	
Sem-I	Algebra	subgroups,			
		II] Group Action			
		III] Rings of Polynomials			
		IV] Module			
M.Sc.-II	Lattice	I] Basics concepts of	All	None	
Sem-III	Theory	Lattice theory			
		II] special types of			
		Lattices			
		III] Ideal Theory			
		IV] stone algebra			
M.Sc.-II	Advanced	I] Graph Theory	All	None	
Sem-III	Discrete	II] Adjacency matrix			
	Mathematics				

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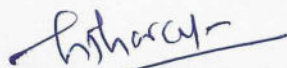
Term: Ist

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
M.Sc.-I	Measure & Sem-I Integration	I] Lebesgue Outer Measure	All	None	
		II] Measurable Functions			
		III] Lebesgue Integral			
		IV] Absolutely Continuous Functions			
M.Sc.-II	Complex Sem-III Analysis	I] Analytic Functions	All	None	
		II] Cauchy Integral			
		III] singularities			
		IV] Residues			


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B.Sc. I	Differential	Unit II -	All	None	
(sem II)	Equations - I	linear differential			
	(DSC03MAT2)	equation with constant coefficient			
B.Sc. II	Integral	Unit III -	All	None	
(sem IV)	Transform	Fourier Transform			
(major)	(DSC03MAT42)	Unit IV -			
		Finite fourier transform and inverse, fourier integrals.			
B.Sc. II	Integral &	Unit III -	All	None	
(sem IV)	fourier	Fourier transform			
(Minor)	transform	Unit IV -			
	(MIN03MAT42)	Finite fourier transform & inverse, fourier integrals.			
B.Sc. II	DSC -	I. Laplace transform	All	None	
(sem IV)	Mathematics	II. Inverse laplace			
Practical	Lab 4	transform			
major	(DSC03MAT42)	III. Fourier laplace			

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Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
B.Sc.I	Discrete Mathematics	Propositional Calculus	All	None	—
B.Sc.II	Integral Transform (Major)	1] Laplace Transform 2] Inverse Laplace Transform	All	None	—
B.Sc.II	Laplace and Fourier Transform (Minor)	1] Laplace Transform 2] Inverse Laplace transform	All	None	—
B.Sc.III	Linear Algebra	1] Vector spaces 2] Inner product spaces 3] Linear Transformation 4] Eigen value and Eigenvector	All	None	—
B.Sc.II	DSC- Mathematics Lab-4	Recurrence relation Graph theory practicals	All	None	—
M.Sc.I	Linear Algebra	1] Vector spaces 2] Inner product spaces 3] Canonical forms 4] Hermitian	All	None	—

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STATEMENT OF SYLLABUS COVERED

Year: 2024-2025

Name of the Teacher: Ms. Prajyulata P. Kulkarni

Term: IInd

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
B.Sc I	Discrete	Unit II : Graph	All	-	
[Sem I]	Mathematics	Theory			
	[2DSC03MAT22]				
B.Sc I	Discrete	Orthogonal trajectories to			
[Sem I]	Mathematics LAB II	polar curves			
	[DSC03MAT29]	2) LDE with constant			
		coeff ⁿ			
		3) Examples on $D(y) = x, e^{gm}$	All	-	
		4) Examples on $D(y) = x^m, e.v$			
		5) Test the validity of			
		arguments using truth table			
		6) Show implication without			
		using table.			
		7) Draw the graph of			
		adjacency matrix			
		8) Find incidence matrix			
		of graph			
B.Sc II	Discrete	1) Recurrence Relation	All	-	
[Sem II]	Mathematics				
	[DSC03MAT41]	2) Generating Function			

P. Kulkarni

Name and Sign of Teacher

Ms. P. P. Kulkarni



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B.Sc II	Graph	1) Recurrence rel ⁿ	All	—	
[Sem IV]	Theory and Recurrence	2) Generating function			
	Rel ⁿ				
	(MIN03MAT41)				
B.Sc III	Metric space	1) limits and metric space			
[Sem VI]	CDSE1008F1]	2) continuous functions on metric space	All	—	
		3) Connectedness and completeness			
		4) compactness			
M.Sc I	General	1) Topological spaces			
[Sem II]	Topology	2) Connected spaces			
		3) Separable spaces	All	—	
		4) Completely regular spaces			

Kulkarni

Name and Sign of Teacher

Ms. Prajalata P. Kulkarni



Thorat

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Name of the Teacher: Ms. A.M. Sathe

Term: IInd

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
B.com.I (Sem II)	Business Mathematics-II (20ECO2MAT2)	Unit I - Permutation and combination. Unit II - Differentiability and it's applications. Unit III - Integration Unit IV - Transportation and assignment Problems	All	None	
B.sc.II (Sem IV) (major)	Discrete mathematics (DS003MAT4)	Unit III - Basics of Graph Theory Unit IV - Paths and Circuits	All	None	
B.sc.II (Sem IV) (Minor)	Graph theory and recurrence relation (MIN03MAT4)	Unit III - Basics of Graph Theory Unit IV - Paths and Circuits	All	None	
B.sc.II (Sem IV) (minor)	MIN- mathematics bab-4	I) Path, Walk & cycle.	All	None	

(Ms. A.M. Sathe)
Name and Sign of Teacher



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Department: Mathematics

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(Ms. A. M. Sathar)

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Term: IInd

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
B.Sc.III Sem.VI	Optimization Techniques.	Unit I: Linear Programming Problem.			
		Unit II: Transportation Problem.			
		Unit III: Assignment Problem.			
		Unit IV: Theory of Games.			
B.Sc.III Sem.VI	Core course practical in Mathematics [CSPM-IV]	I: Assignment Problem. II: Game Theory III: Game Theory. IV: Graphical Method.			
B.Sc.I Sem-II	Mathematical Science-II [DEC03MTS2]	I: HCF, LCM, Logarithm, Average and Percentage. II: Profit and Loss, Ratio and Proportion, Partnership. III: Pipe and Cisterns, Time and Work. IV: Time and Distance, Train.			

Ms. V. B. Patil
(Ms. V. B. Patil)
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Name of the Teacher: , Ms. Shweta Jitendra Koshli

Term: IInd

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
B.Sc.I	Differential Equation-I (DSC03MAT29)	Ordinary Differential equations of first order and first degree	All	None	
B.Sc.I	DSC Mathem-atical Lab-II (2DSC03MAT29)	ordinary Differential equations of first order and first degree	All	None	
B.Sc.II	Numerical method using python (VSC03MAT29)	Numerical method using python	All	None	
B.Sc.II	MJN- Mathe- matics Lab-4 (MJN03MAT49)	1. Recurrence Relation 2. Laplace Transform 3. Fourier Transform	All	None	
B.Sc.III	Core Course practical in mathematics (CCPM-V)	1. Euler's Method 2. Second order Runge Kutta Method. 3. Power method E	All	None	

Koshli
Ms. S. J. Koshli
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Kushti

(M.S.S.J. Koshti)
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Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
M.Sc.-I	Numerical	I] Interpolation, Differentiation	All	None	
Sem.-II	Analysis -II	and integration			
		II] Numerical solution of			
		differential Equation			
M.Sc.-II	Partial	I] First order partial	All	None	
Sem.-IV	Differential	differential equations			
	Equations	II] Cauchy problem			
		III] Method of separation			
		of variables			
		IV] Laplace equation			
M.Sc.-II	Combinatorics	I] Permutations and	All	None	
Sem.-IV		Combinations			
		II] Inclusion - exclusion			
		principle			
		III] Generating functions			
		IV] Group Theory in			
		Combinatorics			

(Ms. A. D. Patil)
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Department: Mathematics

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Name and Sign of Teacher
(Mr. A. A. Patil)



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(Prof. S. P. Thorat)

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