

Vivekanand College, Kolhapur (Autonomous)

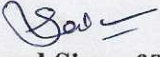
STATEMENT OF SYLLABUS COVERED Year: 2021- 2022

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

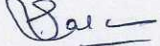
Term: Ist

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
B. Com I (Sem I)	Business Mathematics Paper I	I)Arithmetic and geometric progression	All Covered	None	
		II)Compound interest, ratio, percentage, proportion and partnership			
		III)Matrices and determinants			
		IV)Linear programming problems(L.P.P.) and transformation			


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




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Department of Mathematics
Vivekanand College, Kolhapur

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

Term: Ist

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
B.Sc. I (Sem I) (Div-C)	Algebra and Geometry	I) Theory of equation and complex number	All Covered	None	
		II) Relations			
		III) Matrix algebra			
		IV) Spheres			
B. Sc. II (Sem III)	Integral Calculus	I) Beta and Gamma functions	All Covered	None	
		II) Multiple integrals			
B. Sc. III (Sem V)	Matrix algebra	I) Linear Transformation	All Covered	None	
		II) System of linear equations			
	Numerical Method-I	I) Solution of algebraic equation	All Covered	None	
II) Iterative methods-I					

Name and Sign of Teacher

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Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
M.Sc. I (Sem III)	Operations Research-I	I)Convex set and LPP	All Covered	None	
		II)Simplex Method			
		III)Dynamic programming			
		IV)Non-linear programming			



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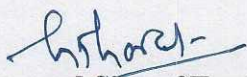
STATEMENT OF SYLLABUS COVERED Year: 2021- 2022

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

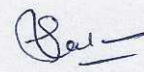
Term: Ist

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
B.Sc. I (Sem I) (Div-A,C)	Calculus	I) Limit and Continuity	All Covered	None	
		II) Mean value theorem and successive differential			
		III) Higher mean value theorem and indeterminate form			
		IV) Asymptotes			
B. Sc. II (Sem III)	Differential Calculus	III) Asymptotes and singular points	All Covered	None	
		IV) Vector differentiation			
B. Sc. III (Sem V)	Real Analysis	I) Sequences and series	All Covered	None	
		II) Riemann integral and improper integral			
	CCPM-IV	Practical from 1 to 8	All Covered	None	


Name and Sign of Teacher
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STATEMENT OF SYLLABUS COVERED Year: 2021- 2022

Name of the Teacher: Ms. S. M. Malavi

Term: Ist

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
B.Sc. III (Sem V)	CCPM-V	Practical from 1 to 8	All Covered	None	



Name and Sign of Teacher

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STATEMENT OF SYLLABUS COVERED Year: 2021- 2022

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

Term: 1st

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
B.Sc. I (Sem I) (Div-A)	Algebra and Geometry	I) Theory of equation and complex number	All Covered	None	
		II) Relations			
		III) Matrix Algebra			
		IV) Spheres			
B. Sc. II (Sem III)	Differential Calculus	I) Jacobian	All Covered	None	
		II) Curvature			
B. Sc. III (Sem V)	Modern Algebra	I) Groups	All Covered	None	
		II) Field			
	CCPM-VI	Practical from 1 to 8	All Covered	None	

G. B. Kolhe

Name and Sign of Teacher

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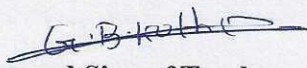
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Name of the Teacher: Mr. G. B. Kolhe


Term: Ist

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
M.Sc. I (Sem I)	Algebra	I) Simple groups	All Covered	None	
		II) Group action			
		III) Rings of polynomial			
		IV) Module			
M. Sc. I (Sem I)	Advanced Calculus	I) Sequences and series of functions			
		II) Multivariable differential equations			
M.Sc. II (Sem III)	Functional Analysis	I) Normed linear spaces			
		II) Second conjugate space			
		III) Hilbert space			
		IV) Self adjoint operators			


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STATEMENT OF SYLLABUS COVERED Year: 2021- 2022

Name of the Teacher: Ms. N. S. Tamgave

Term: Ist

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
B.Sc. II (Sem III)	CCPM-III	Practical from 1 to 8	All Covered	None	



Name and Sign of Teacher

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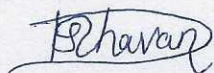
STATEMENT OF SYLLABUS COVERED Year: 2021- 2022

Name of the Teacher: Mr. S. D. Chavan

Term: Ist

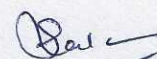
Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
B.Sc. II (Sem III)	Integral Calculus	III) Centre of gravity and moment of inertia	All Covered	None	
		IV) Fourier Series			



Name and Sign of Teacher

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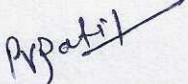
STATEMENT OF SYLLABUS COVERED Year: 2021- 2022

Name of the Teacher: Mr. P. V. Patil

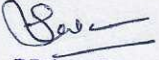
Term: Ist

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
B.Sc. II (Sem III)	CCPM-II	Practical from 1 to 8	All Covered	None	


Name and Sign of Teacher
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STATEMENT OF SYLLABUS COVERED Year: 2021- 2022

Name of the Teacher: Ms. M. P. Patil

Term: Ist

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
M. Sc. I (Sem I)	Advanced Calculus	I) Functions of Bounded variations	All Covered	None	
		II) Riemann Stieltje's integral			
M. Sc. I (Sem I)	Complex Analysis	I) Analytic functions			
		II) Cauchy integral			
		III) Singularity			
		IV) Residues			
M. Sc. II (Sem III)	Advanced Discrete Mathematics	I) Graph Theory			
		II) Adjacency matrix			
		III) Recurrence relation			
		IV) Lattices			

M.P. Patil

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STATEMENT OF SYLLABUS COVERED Year: 2021- 2022

Name of the Teacher: Mr. A. A. Patil

Term: Ist

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
M. Sc. I (Sem I)	Classical Mechanics	I)Mechanics of a particle	All Covered	None	
		II)Euler-Lagrange's equation			
		III)Hamiltonian function			
		IV)The kinematic of rigid body motion			
M. Sc. II (Sem III)	Number Theory	I)Divisibility			
		II)Congruence			
		III)Number Thereotic function			
		IV)Primitive roots			



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Name of the Teacher: Ms. S. S. Patil

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Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
M. Sc. I (Sem I)	Ordinary Differential Equations	I) Second order homogeneous equations	All Covered	None	
		II) The non-homogeneous equation of nth order			
		III) The Legendre equations			
		IV) The Bessel equation			
M. Sc. II (Sem III)	Lattice Theory	I) Basic concept			
		II) Special types of Lattices			
		III) Ideal theory			
		IV) Stone algebra			

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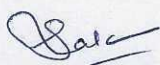
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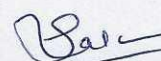
Term: IInd

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
B. Com I (Sem II)	Business Mathematics Paper II	I) Functions of real variable, limit of function and continuity	All Covered	None	
		II) Differentiation			
		III) Application of differentiation			
		IV) Integrations and its applications			


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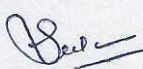
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Term: IInd

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
B.Sc. I (Sem-II)	Multivariable Calculus	I)Partial Differentiation	All Covered	None	
		II)Jacobian			
B. Sc. I (Sem-II) (Div-C)	Ordinary Differential Equation	I)Differential equation of first order and first degree	All Covered	None	
		II)Linear differential equations with constant coefficient			
		III)Homogeneous linear differential equations			
		IV)Differential equations with variable coefficient			
B. Sc. III (Sem-VI)	Complex Analysis	I)Analytic functions	All Covered	None	
	Numerical Methods-II	I)Interpolation	All Covered	None	
		II)Numerical differentiation and integration			


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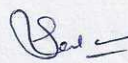
Term: IInd

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
M.Sc. I (Sem IV)	Measure and integrations	I)Lebesgue integration	All Covered	None	
		II)Absolutely continuous functions			
		III)Lebesgue outer measure			
		IV)Measurable functions			


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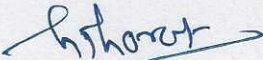
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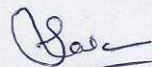
Term: IInd

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
B.Sc. I (Sem-II) (Div-A)	Ordinary Differential Equation	I)Differential equation of first order and first degree	All Covered	None	
		II)Linear differential equations with constant coefficient			
		III)Homogeneous linear differential equations			
		IV)Differential equations with variable coefficient			
B. Sc. II (Sem-IV)	Integral Transformation	I)Laplace transformation	All Covered	None	
		II)Inverse Laplace transformation			
B. Sc. III (Sem-VI)	Metric space	I)Basic concepts of Metric space	All Covered	None	
		II)Compactness and connectedness of Metric space			
B. Sc. III (Sem-VI)	CCPM-IV	Practical from 9 to 16	All Covered	None	


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STATEMENT OF SYLLABUS COVERED Year: 2021- 2022

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

Term: IInd

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
B.Sc. II (Sem-IV)	Discrete mathematics	I)Sets and relations	All Covered	None	
		II)Generating functions and recurrence relation			
B. Sc. III (Sem-VI)	Linear Algebra	I)Vector space	All Covered	None	
		II)Inner product space			
B. Sc. III (Sem-VI)	CCPM-VI	Practical from 9 to 16	All Covered	None	
B. Sc. II (Sem-IV)	CCPM-III	Practical from 9 to 16	All Covered	None	

G. B. Kolhe
Name and Sign of Teacher
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S. S.
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STATEMENT OF SYLLABUS COVERED Year: 2021- 2022

Name of the Teacher: Ms. N. S. Tamgave

Term: IInd

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
B.Sc. I (Sem-II)	Multivariable Calculus	III)Extreme Values	All Covered	None	
		IV)Vector calculus			
B. Sc. III (Sem-VI)	Complex Analysis	II)Singularity	All Covered	None	



Name and Sign of Teacher

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Name of the Teacher: Ms. S. M. Malavi

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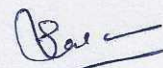
Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
B.Sc. II (Sem-IV)	Discrete mathematics	III) Boolean algebra	All Covered	None	
		IV) Graph theory			
B. Sc. II (Sem-IV)	Integral Transformation	I) Fourier transformation	All Covered	None	
		II) Finite fourier transform, Fourier integral			
B. Sc. II (Sem-IV)	CCPM-II	Practical from 9 to 16	All Covered	None	
B. Sc. III (Sem-VI)	CCPM-VI	Practical from 9 to 16	All Covered	None	



Name and Sign of Teacher

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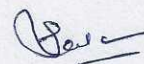
Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
M. Sc. I (Sem II)	General Topology	I)Topological spaces	All Covered	None	
		II)Connected spaces			
		III)Seperable spaces			
		IV)Completely regular spaces			
M. Sc. II (Sem II)	Integral equation	I) Integral equations			
		II)Fredholm integral equations			
M. Sc. II	Operation Research-II	I)Replacement policy			
		II)Inventory models			
		III)Queuing theory			
		IV)Information theory			



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Name of the Teacher: Mr. A. A. Patil

Term: IInd

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
M. Sc. I (Sem II)	Numerical Analysis	I) Iterative solutions	All Covered	None	
		II) Linear system of algebraic equations and Eigenvalue problems			
		III) Interpolation			
		IV) Numerical solution of ordinary differential equations			
M. Sc. II (Sem IV)	Combinatorics	I) Permutations and combinations			
		II) Inclusion-Exclusion principle			
		III) Generating functions			
		IV) Group theory in combinatorics			



Name and Sign of Teacher

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Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
M. Sc. I (Sem II)	Partial Differential Equation	I) Partial Differential Equations	All Covered	None	
		II) Cauchy Problems			
		III) Method of separation of variables			
		IV) Laplace equations			
M. Sc. II (Sem IV)	Algebraic Number Theory	I) Revision of basic module theory			
		II) Euclidean quadratic fields			
		III) Lattices			
		IV) Computational methods			

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Name and Sign of Teacher

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STATEMENT OF SYLLABUS COVERED Year: 2021- 2022

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

Term: IInd

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
M. Sc. I (Sem II)	Linear Algebra	I) Vector space	All Covered	None	
		II) Inner product spaces			
		III) Canonical forms			
		IV) Symmetric bilinear forms			
M. Sc. II (Sem II)	Integral equation	I) Volterra integral equations			
		II) Symmetric integral equations			
M. Sc. II (Sem IV)	Field theory	I) Field extensions			
		II) Galois theory			
		III) Finite fields			
		IV) Applications of Galois theory			

P. P. Kulkarni

Name and Sign of Teacher

(Ms. P. P. Kulkarni)



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