

Vivekanand College, Kolhapur (Autonomous)

STATEMENT OF SYLLABUS COVERED Year: 2022- 2023

Name of the Teacher: Mr. Avinash A. Patil

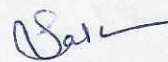
Term: Ist / IInd
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Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
M.Sc.-I (Sem-I)	Advanced Calculus	I) Integral calculus	All covered	—	
		II) Sequence & series of functions			
		III) Multivariable Differential Calculus			
		IV) Implicit function			
M.Sc.-II (Sem-II)	Lattice Theory	I) Basic Concepts of Lattice Theory	All covered	✓	
		II) Special Types of Lattices			
		III) Ideals			
		IV) Pseudo Lattices			


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




 HEAD
 Department of Mathematics
 Vivekanand College, Kolhapur

Vivekanand College, Kolhapur (Autonomous)

STATEMENT OF SYLLABUS COVERED Year: 2022- 2023

Name of the Teacher: Ms. Shital Manohar Malavi

Term: Ist / IInd
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Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
M.sc I (sem I)	Complex Analysis	1. Analytic functions 2. Cauchy integral 3. Singularities 4. Residues.	all covered	—	
M.sc II (sem III)	Operational Research I	1. convex set 2. Simplex method and Duality 3. Dynamic programming 4. Non-linear programming problem.	all covered	—	
M.sc II (sem III)	Advanced Discrete Mathematics.	Graph theory Tree.	all covered	—	

Shital Malavi

(C.S.M. Malavi).
Name and Sign of Teacher



B. S. ...
HEAD

Department of Mathematics
Vivekanand College, Kolhapur

Vivekanand College, Kolhapur (Autonomous)

STATEMENT OF SYLLABUS COVERED Year: 2022- 2023

Name of the Teacher: Ms. Pranjata P. Kulkarni

Term: Ist / IInd

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
M.Sc I [Sem I]	Modern Algebra	I) Simple Groups II) Group Action III) Rings of Polynomial IV) Module	All	-	
M.Sc I [Sem II]	Functional Analysis	I) Normed linear space II) Conjugate space III) Hilbert space IV) Types of operators	All	-	
M.Sc II [Sem III]	Advanced discrete Mathematics	III) Recurrence relation IV) Lattice Theory	All	-	

P. Kulkarni
Name and Sign of Teacher
[Ms. Pranjata P. Kulkarni]



[Signature]
HEAD
Department of Mathematics
Vivekanand College, Kolhapur

Vivekanand College, Kolhapur (Autonomous)

STATEMENT OF SYLLABUS COVERED Year: 2022- 2023

Name of the Teacher: Ms. Mrudula G. Goliwadekar.

Term: 1st / 1st

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
B.com I	Business	I) A.P and G.P.			
Sem I.	Mathematics	II) Compound			
	paper - I	Interest, ratio, proportion, percentage and Partnership	Completed	-	
		III) matrices and Determinants			
		IV) LPP.			
			all covered	-	
B.Sc III	CCPM - V	practicals from	covered		
sem V	(Numerical Methods)	01 to 08			
B.Sc. III	CCPM - IV	practicals	all	-	
Sem V	(transportation and Assignment problems)	from 01 to 08	covered		



Name and Sign of Teacher

Ms. M.G. Goliwadekar.





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STATEMENT OF SYLLABUS COVERED Year: 2022- 2023

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

Term: 1st / ~~IInd~~

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
B.Sc.I (sem I)	Calculus	Unit I	all	-	
		Limit of Continuity			
		Unit II			
		Successive diff.			
		Unit III	all	-	
		Taylor's & Macl.			
		Series.			
		Unit IV			
		- Asymptotes.	all	-	
B.Sc.III (sem V)	Numerical Methods-I	Unit I, II, III	all	-	-
		& IV			
	Real analysis	Unit I, II, III	all	-	-
		& IV			

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



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HEAD
Department of Mathematics
Vivekanand College, Kolhapur

Vivekanand College, Kolhapur (Autonomous)

STATEMENT OF SYLLABUS COVERED Year: 2022- 2023

Name of the Teacher: Prof S. P. Thorat

Term: Ist / IInd

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
B.Sc.I (Sem II)	The ordinary diff eqns.	Unit, I, II III, & IV	all Completed	-	-
B.Sc.II (Sem IV)	Integral Transforms	Unit I Laplace transform	Covered	-	-
		Unit II Inverse Lap. Tran	Covered	-	-
B.Sc.III (Sem VI)	Metric spaces	Unit I, II, III & IV	all	-	-
B.Sc.III (Sem VI)	CCPM V -	Q g.w.e.	all	-	-
B.Sc.III (Sem VI)	Complex Analysis	Q Unit I & II	Completed	-	-

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



S.P. Thorat
HEAD
Department of Mathematics
Vivekanand College, Kolhapur

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STATEMENT OF SYLLABUS COVERED Year: 2022- 2023

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

Term: Ist / IInd ✓

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
B.Sc. II (Sem IV)	Discrete Mathematics	I] Recurrence Relation II] Generating function	All	—	
B.Sc. II (Sem IV)	CCPM-III	I] Interpolation II] Euler & RK method III] Numerical integration IV] Numerical method	All	—	
B.Sc. III (Sem VI)	CCPM-IV	I] 2x2 games II] Assignment Problem III] Assignment Problem IV] Assignment Problem	All	—	
B.Sc. III (Sem VI)	Numerical Methods - II	I] Interpolation II] Interpolation III] Numerical Differentiation & integration IV] Numerical Differentiation & integration	All	—	

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



G. B. Kolhe
HEAD
Department of Mathematics
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STATEMENT OF SYLLABUS COVERED Year: 2022- 2023

Name of the Teacher: Mr. Avinash A. Patil

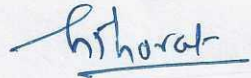
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Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
M.sc.-I (Sem-II)	Integral Equations	I) Linear Integral Equations	All covered	—	
		II) Solutions of Fredholm & Volterra integral equation			
		III) Symmetric kernels			
		IV) Hilbert Schmidt theorem			
M.sc.-II (Sem-IV)	Combinatorics	I) Permutations and combinations	All covered	—	
		II) Inclusion - Exclusion Principle			
		III) Generating Functions			
		IV) Group theory in combinatorics			


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




HEAD
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Vivekanand College, Kolhapur

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STATEMENT OF SYLLABUS COVERED Year: 2022- 2023

Name of the Teacher: Ms. Shital Manohar Malavi

Term: Ist / IInd

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
M.Sc I sem II	General Topology	1. Topology and their basic terms 2. Connectedness and compactness in topological space. 3. Separation Axioms 4. Different types of topological spaces	All covered	—	
M.Sc I Sem II	Numerical Analysis.	1. Runge-Kutta method 2. Linear multistep method.	All covered	—	
M.Sc II sem II	Operational Research - II	1. Replacement policy. 2. Inventory models. 3. Queuing theory 4. Information Theory	All covered	—	

Malavi

CS. M. Malavi
Name and Sign of Teacher



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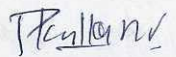
STATEMENT OF SYLLABUS COVERED Year: 2022- 2023

Name of the Teacher: Ms. Prajalkar Prasad Kulkarni

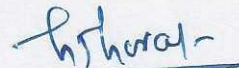
Term: ~~Ist~~ / IInd ✓

Department: Mathematics

Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
M.Sc I [Sem I]	Linear Algebra	I] Vector spaces and Quotient spaces II] Inner product spaces III] Canonical and Jordan forms IV] self adjoint operators.	All	-	
M.Sc I [Sem II]	Numerical Analysis	I] Rate of convergence II] Numerical integration	All	-	
M.Sc II [Sem IV]	Field Theory	I] Field extension II] Galois Theory III] Finite Fields IV] Polynomials soluble by radicals	All	-	


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




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 Department of Mathematics
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STATEMENT OF SYLLABUS COVERED Year: 2022- 2023

Name of the Teacher: Ms. Mrudula G. Goliwadekar.

Term: ~~Ist~~ / 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	—	
		II) Jacobian			
B.Sc II Sem IV	Integral Transforms	I) fourier Transform.	All Covered	—	
		II) finite fourier Transform and Inverse fourier Integrals.			
B.Sc II Sem VI	Linear Algebra.	I) Vector space	All Covered	—	
		II) Inner product space			

Mrudula

Name and Sign of Teacher
Ms. Mrudula Goliwadekar.



Prithvi
HEAD

Department of Mathematics
Vivekanand College, Kolhapur

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STATEMENT OF SYLLABUS COVERED Year: 2022- 2023

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

Term: Ist / IInd

Department: Mathematics

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Class	Subject	Syllabus Assigned (Units)	Syllabus Covered	Syllabus Not to Covered	Remark
B.Sc.I (sem II)	Multivariable Calculus	III) Extreme values. IV) Vector calculus	All covered	-	
B.Sc. II (sem IV)	Discrete Mathematics	III) Basics of Graph Theory IV) Paths and circuits	All covered	-	
B.sc.III (sem VI)	complex Analysis	II) singularities	All covered	-	
B.sc.III (sem VI)	CCPM-VI	Practical from 9 to 16	All covered	-	
B.com I (sem II)	Business mathematics Paper - II	I) Functions of real variable, limit of function & continuity II) Differentiation III) Application of differentiation IV) Integration and its application	All covered	-	

Ankita

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



Anthar

HEAD

Department of Mathematics
Vivekanand College, Kolhapur

