

SHIVAJI UNIVERSITY KOLHAPUR

Circular No. (600) Winter Session Offline Exam of Oct/Nov.-2023 to be held in Oct./Nov.-2023.

Final Programme of the M.Sc. Mathematics Part-I (Sem.- I) NEP-2020 Course Code-2375 & Part-I & II (Sem.- I to Sem.-IV) Course Code- 2353 ,2341 & 205.

M.Sc. Mathematics with Computer Application Part-I (Sem.- I) NEP-2020 Course Code-2374 & M.Sc. Tech. (Industrial Mathematics with Computer Application) Part-I & II (Sem. To Sem.- III) Course Code- 2355 & 252. & course code 252 M.Sc. Tech. Part-II & III (Sem.- III to V) Examination Oct/Nov-2023 to be held in Oct/Nov/Dec. -2023

INSTRUCTIONS-Common instruction as per Circular No. SU/Appointment/RVC/29

Dated 01/02/2020 and also available in University website www.unishivaji.ac.in

The Written Examination will be held at following center and Places declared:-

Sr.	Exam	College	Places
No		Code	
	260 261		
1	M.Sc. Mathematics		Department of Mathematics, Shivaji University
	M.Sc. Tech. (Industrial	264	Kolhapur
	Mathematics with Computer	264	
	Application)		
2	M.A./M.Sc. Mathematics		Department of Distance Education, Kolhapur
3	M.Sc. Physics,	01	Vivekanand College, Kolhapur
	M.A./M.Sc. Mathematics		3 / 1
4	M.A./M.Sc. Mathematics	50	Yashawantrao Chavan Warna Mahavidyalaya,
			WARNANAGAR
5	M. Sc Physics	30	The New College Kolhapur
	M.A./M.Sc. Mathematics		
6	M.A./M.Sc. Mathematics	90	Karmveer Bhaurao Patil College,
	M.A./M. Sc. Geography		URUN –ISLAMPUR.
	M.Sc. Information Technology		
7	M.Sc. Physics,	80	Willington College SANGLI
	M.A./M.Sc. Mathematics		Willingdon College, SANGLI
8	M.A./M. Sc. Geography,	156	
	Industrial Microbiology,		Sadguru Gadage Maharaj College, KARAD
	M. Sc Statistics,		
	M.A./M. Sc Mathematics,		
9	M.sc Physics, Statistics,	149	W. I
	M.A./M.Sc Mathematics		Yashwantrao Chavan Institute of Science,
			SATARA.

Note:- In case of any Query found in respective Question Paper, student shall communicate the same through Principal / Senior Supervisor within 03 days from the date of concerned Question paper to, Deputy Registrar, Appointment Section, Room No. 205 Exam Building No. 1 Shivaji Univeristy, Kolhapur- 416004.

M.A./M.Sc. Mathematics [NEP-2020]

(Course Code -2375)

Branch Co	ode- M.A/M	.Sc. Mathematics [NEP-2020]	Fron	n Oct—2023]
		Part I :- SemI		
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Morning
Major Ma	ndatory		•	
I	92492	Linear Algebra	Monday 11/12/2023	10:30 A.M.
II	92493	Real Analysis	Thursday 14/12/2023	To 01:30 P.M.
III	92494	Ordinary Differential Equations	Friday 08/12/2023	
IV	92495	Numerical Analysis-I	Monday 04/12/2023	10:30 A.M. To 12:30 P.M.
Research	Methodolo	gy		
V	93744	Research Methodology	Tuesday 28/11/2023	
Major Elec	ctive Any O	ne Of The Following Paper		
VI	92383	Differential Geometry	Wednesday 29/11/2023	
	92384	Integral Transforms	Thursday 30/11/2023	10.20 A M
	92385	Theory of Computation	Tuesday 21/11/2023	10:30 A.M.
	92386	Graph Theory-I	Tuesday 20/11/2023	To 01:30 P.M.
	92387	Lattice Theory-I	Monday 18/12/2023	01.30 P.IVI.
	92388	Dynamical Systems- I	Wednesday 22/11/2023	
	92496	Combinatorics	Thursday 7/12/2023	
	92389	Basics of Python	Thursday 23/11/2023	
	92390	Web Technology	Friday 24/11/2023	
	92497	Linear Programming and Its Application	Tuesday 19/12/2023	

M.A./M.Sc. Mathematics [NEP]

(Course Code -2353)

Branch Co	de- M.A/M.S	c. Mathematics [NEP]	From Oct—2022	2
		Part I :- SemI		
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Morning
I	87751	Advanced Calculus	Wednesday 13/12/2023	40.00 1.35
II	87752	Linear Algebra	Monday 11/12/2023	10:30 A.M.
III	87753	Complex Analysis	Wednesday 20/12/2023	То
IV	87754	Classical Mechanics	Saturday 16/12/2023	01:30 P.M.
V	87755	Ordinary Differential Equations	Friday 08/12/2023	
Choose An	y One Of The	Following Paper		
VI	87756	Number Theory	Saturday	
	87853	Mathematical Methods	25/11/2023	

M.A./M.Sc. Mathematics (C.B.C.S.)

(Course Code -2341)

Branch Co	Branch Code- M.A/M.Sc. Mathematics		From	Oct—2019
		Part I :- SemI		
PAPER	PAPER	PAPER NAME	DAY &	Morning
NO.	CODE		DATE	
I	83480	Advanced Calculus	Wednesday	
			13/12/2023	
II	83481	Linear Algebra	Monday	10:30 A.M.
			11/12/2023	
III	83482	Complex Analysis	Wednesday	To
			20/12/2023	
IV	83483	Classical Mechanics	Saturday	01:30 P.M.
			16/12/2023	
V	83484	Ordinary Differential Equations	Friday	
			08/12/2023	

M.A/M.Sc. Mathematics [NEP]

(Course Code -2353)

Branch Co	Branch Code - M.A/M.Sc. Mathematics [NEP]			rom March-2023
		Part I - Sem II		
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Morning
VII	87757	Real Analysis	Thursday 14/12/2023	10:30 A.M. To 01:30 P.M.
VIII	87758	Algebra	Wednesday 29/11/2023	02:30 P.M. To
XIX	87759	Topology	Tuesday 19/12/2023	05:30 P.M.
X	87760	Numerical Analysis	Monday 04/12/2023	10:30 A.M. To 01:30 P.M.
XI	87761	Partial Differential Equations	Friday 01/12/2023	02:30 P.M. To 05:30 P.M.
Choose Any One Of The Following Paper			10:30 A.M.	
XII	87762	Operations Research	Wednesday	To 01:30 P.M.
	90173	Integral Transforms	06/12/2023	

M.A/M.Sc. Mathematics (C.B.C.S.) New) (Course Code- 2341)

Branch Cod	Branch Code - M.A/M.Sc. Mathematics (C.B.C.S.)			April-2022
		Part I - Sem II		
PAPER NO.	PAPER	PAPER NAME	DAY & DATE	Morning
	CODE			
VI	84592	Functional Analysis	Friday	
			24/11/2023	02:30 P.M.
VII	84593	Algebra	Wednesday	То
			29/11/2023	05:30 P.M.
VIII	84594	General Topology	Tuesday	
			19/12/2023	
IX	84595	Numerical Analysis	Monday	10:30 A.M. To
			04/12/2023	01:30 P.M.
X	84596	Partial Differential Equations	Friday	02:30 P.M. To
			01/12/2023	05:30 P.M.

M.A/M.Sc. Mathematics [NEP]

(Course Code- 2353)

Branch (Code - N	I.A/M.Sc. Mathematics (NEP)	From	March-2022
		Part II - Sem III		
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Morning
XI	90885	Functional Analysis	Friday 24/11/2023	02:30 P.M. To 05:30 P.M.
Any one o	of the follo	owing	-	
XII	90886	Advanced Discrete Mathematics	Tuesday 28/11/2023	
	92093	Topological Vector Spaces	Tuesday 19/12/2023	
XIII, XIV	7 & XV A	Any Three of the following Papers		
	92096	Lattice Theory – I	Monday 18/12/2023	
	92104	Algebraic Topology	Tuesday 19/12/2023	
	92102	Space Dynamics- I	Saturday 02/12/2023	10.00 1.77
	92106	Coding Theory	Friday	10:30 A.M. To
	90887	Non-linear Optimization Techniques	15/12/2023	
	92098	Dynamical Systems – I	Wednesday	10
	92101	Commutative Algebra - I	22/11/2023	01:30 P.M.
	90889	Fluid Dynamics	Tuesday	
	92105	Probability and Stochastic Processes	05/12/2023	
	92095	General Relativity – I	Thursday	
	90890	Combinatorics	07/12/2023	
	92094	Fractional Calculus	Thursday 30/11/2023	
	90888	Fuzzy Mathematics –I	Saturday 09/12/2023	
	92097	Approximation Theory	Tuesday 12/12/2023	
	92103	Theory of Computation	Tuesday 21/11/2023	
	92100	Differential Geometry	Wednesday 29/11/2023	
	92099	Graph Theory-I	Monday 20/11/2023	

Branch (Code - M.	A/M.Sc. Mathematics (C.B.C.S.)	Fro	m March-2022
		Part II - Sem III		
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Morning
XI	85386	Real Analysis	Thursday 14/12/2023	
Any one	of the follo	owing		
XII	85387	Advanced Discrete Mathematics	Tuesday 28/11/2023	_
	85388	Topological Vector Spaces	Tuesday 19/12/2023	
XIII, XI	V & XV A	Any Three of the following Papers	<u> </u>	
	85395	Lattice Theory – I	Monday 18/12/2023	
	85404	Algebraic Topology	Monday 18/12/2023	
	85402	Space Dynamics- I	Saturday 02/12/2023	
	85389	Number Theory	Saturday 25/11/2023	10:30 A.M.
	85403	Theory of Computation	Tuesday 21/11/2023	
	85397	Dynamical Systems – I	Wednesday	То
	85401	Commutative Algebra - I	22/11/2023	
	85392	Fluid Dynamics	Tuesday	04.00.7.1
	85405	Probability and Stochastic Processes	05/12/2023	01:30 P.M.
	85394	General Relativity – I	Thursday	
	85400	Combinatorics	07/12/2023	
	85393	Fractional Calculus	Thursday 30/11/2023	_
	85391	Fuzzy Mathematics –I	Saturday 09/12/2023	
	85396	Approximation Theory	Tuesday 12/12/2023	
	85390	Operations Research – I	Wednesday 06/12/2023	
	85399	Differential Geometry	Wednesday 29/11/2023	
	85398	Graph Theory-I	Monday 20/11/2023	

M.A/M.Sc. Mathematics (C.B.C.S.) New (Course Code- 2341)

Branch	Code- M.A.	M.Sc. Mathematics (C.B.C.S.)	Fron	n March—2023
	T = . = ==	Part II :- SemIV	T	
PAPE	PAPER	PAPER NAME	DAY &	Evening
R NO.	CODE		DATE	
	86711	Integral Equations	Monday	
			18/12/2023	
	86712	Field Theory	Thursday	
			07/12/2023	
Paper N	No. – XVIII	, XIX & XX – Choose any Three of t	he following	
	86714	Algebraic Number Theory	Tuesday	
	90542	Automatic Languages and	12/12/2023	
		computation		
	86715	Operations Research –II	Tuesday	
	90541	Automata Theory	Monday 11/12/2023 Wednesday 20/12/2023	02:30 P.M. To
	86716	Fuzzy Mathematics-II		
	90540	Theory of Distributions		
	86717	Computational Fluid Dynamics		
	90539	Analysis on Manifolds		
	86718	Fractional Differential Equations	Saturday	
	90538	Graph Theory-II	16/12/2023	05:30 P.M.
	86719	Wavelet Analysis	Tuesday	
	90537	Dynamical Systems- II	21/11/2023	
	86720	Commutative Algebra-II	Wednesday	
	86721	Space Dynamics-II	13/12/2023	
	86722	Dynamics Equation on Time Scales	Friday	
	90536	Lattice Theory-II	15/12/2023	
	90535	General Relativity-II	Saturday 25/11/2023	

M.A/M.Sc. Mathematics (C.B.C.S.) New (Course Code- 205)

Branch	Code- M.A	M.Sc. Mathematics (C.B.C.S.)	From	April—2020
		Part II :- SemIV		
PAPE	PAPER	PAPER NAME	DAY &	Evening
R NO.	CODE		DATE	
	69567/633	26 / Field Theory	Thursday	
	83058		07/12/2023	
	83057	Integral Equations	Monday	
			18/12/2023	
Paper N		XIX & XX – Choose any Three of t		
	83059	Algebraic Number Theory	Tuesday — 12/12/2023	
	85481	Automatic Languages and	12/12/2023	
		computation		
	83060	Operations Research –II	Tuesday	
	85480	Automata Theory	19/12/2023	
	83061	Fuzzy Mathematics-II	Monday	
	85479	Theory of Distributions	11/12/2023	02:30 P.M.
	83062	Computational Fluid Dynamics	Wednesday	
	85478	Analysis on Manifolds	20/12/2023	
	83063	Fractional Differential Equations	Saturday	То
	85477	Graph Theory-II	16/12/2023	05:30 P.M.
	83066	Wavelet Analysis	Tuesday	03.30 P.MI.
	85476	Dynamical Systems- II	21/11/2023	
	85254	Advanced Algebra		
	83072	Commutative Algebra-II	Wednesday	
	83073	Space Dynamics-II	13/12/2023	
	83074	Dynamics Equation on Time Scales	Friday	
	85475	Lattice Theory-II	15/12/2023	
	85474	General Relativity-II	Saturday 25/11/2023	
	85253	Introduction to Cryptology	23/11/2023	

M.Sc. (Mathematics with Computer Application) [NEP-2020] (Course Code- 2374)

		Part I :- SemI		
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Morning
Major Ma			1 2112	
I	91787	Linear Algebra	Monday 11/12/2023	10:30 A.M.
II	91788	Object Oriented Programming	Friday 01/12/2023	To 01:30 P.M.
III	91789	Database Management System	Saturday 09/12/2023	
IV	91790	Numerical Analysis-I	Monday 04/12/2023	10:30 A.M. To 12:30 P.M.
Research	Methodolog	gy		
V	91801	Research Methodology	Tuesday 28/11/2023	
Major Ele	ctive Any O	ne Of The Following Paper		
VI	91791	Combinatorics	Thursday 07/12/2023	10:30 A.M.
	91792	Differential Geometry	Wednesday 29/11/2023	10.50 71.141.
	91793	Integral Transforms	Thursday 30/11/2023	То
	91794	Theory of Computation	Tuesday 21/11/2023	01:30 P.M.
	91795	Graph Theory-I	Monday 20/11/2023	
	91796	Lattice Theory-I	Monday 18/12/2023	
	91798	Dynamical Systems- I	Wednesday 22/11/2023	
	91797	Linear Programming and Its Application	Tuesday 05/12/2023	
	91799	Basics of Python	Saturday 16/12/2023	
	91800	Web Technology	Friday 24/11/2023	

M.Sc. Tech. (Industrial Mathematics with Computer Application) [NEP]

(Course Code- 2355)

Branch Code- M.Sc. Tech. (Industrial Mathematics with Computer Application) From Oct2022				
	Part I :- SemI			
PAPER	PAPER	PAPER NAME	DAY &	Morning
NO.	CODE		DATE	
V	88608	Advanced Calculus	Wednesday	
			13/12/2023	
III	88609	Linear Algebra	Monday	10:30 A.M.
			11/12/2023	То
I	88610	Discrete Mathematical	Saturday	01:30 P.M.
		Structures-I	02/12/2023	
IV	88611	Computer Architecture	Tuesday	
		_	28/11/2023	
II	88612	Object Oriented Programming	Friday	
			01/12/2023	

M.Sc. Tech. (Industrial Mathematics with Computer Application) [NEP]

(Course Code- 2355)

Branch -M.Sc. Tech. (Industrial Mathematics with Computer Application)				
		Revised From March-20		
		Part I :- SemII		
PAPER	PAPER	PAPER NAME	DAY &	Morning
NO.	CODE		DATE	
VI	88614	Numerical Analysis	Monday	10:30 A.M. To
			04/12/2023	01:30 P.M.
VII	88615	Algebra	Wednesday	
			29/11/2023	02:30 P.M.
VIII	88616	Discrete Mathematical	Tuesday	То
		Structures-II	12/12/2023	05:30 P.M.
IX	88617	Data Structures	Friday	
			15/12/2023	
X	88618	Database Management System	Saturday	10:30 A.M. To
			09/12/2023	01:30 P.M.

M.Sc. TECH (MATHEMATICS) (C.B.C.S.) New

(Course Code- 252)

Branch Code - M.Sc. TECH (MATHEMATICS) (C.B.C.S.) (Revised April-2019)				
	Part I :- SemII			
PAPER	PAPER	PAPER NAME	DAY &	Morning
NO.	CODE		DATE	
VI	71460	Functional Analysis	Friday	10:30 A.M.
			24/11/2023	То
				01:30 P.M.
VII	71461	Algebra	Wednesday	02:30 P.M.
			29/11/2023	То
				05:30 P.M.
VIII	71464	Operating Systems	Friday	10:30 A.M
			08/12/2023	To
				01:30 P.M
IX	71463	Data Structures Using-C	Friday	02:30 P.M.
			15/12/2023	То
X	71462	Discrete Mathematical	Tuesday	05:30 P.M.
		Structures-II	12/12/2023	

M.Sc. Tech. (Industrial Mathematics with Computer Application) [NEP]

(Course Code- 2355)

Branch Code -M.Sc. Tech. (Industrial Mathematics with Computer Application				
			(I	From Oct-2023)
		Part II :- SemIII		
PAPER	PAPER	PAPER NAME	DAY &	Morning
NO.	CODE		DATE	_
XI	91502	Complex Analysis	Wednesday	
			20/12/2023	10.20 4.35
XII	91503	Ordinary Differential Equations	Saturday	10:30 A.M.
			25/11/2023	
XIII	91504	Design and Analysis of	Wednesday	TT.
		Algorithms-I	06/12/2023	То
V	91505	Operating System	Friday	01:30 P.M.
			08/12/2023	
III	91506	Python Programming	Saturday	
			16/12/2023	

M.Sc. TECH (MATHEMATICS) (C.B.C.S.)

(Course Code- 252)

Branch Code - M.Sc. TECH (MATHEMATICS) (C.B.C.S.) (From Oct-2019)				
	Part II :- SemIII			
PAPER	PAPER	PAPER NAME	DAY &	Morning
NO.	CODE		DATE	
XI	74024	Complex Analysis	Wednesday	
			20/12/2023	10.20 4.35
XII	74025	ODE	Saturday	10:30 A.M.
			25/11/2023	
XIII	74026	DAA-I	Tuesday	TD.
			28/11/2023	То
V	74027	Database System	Saturday	
		-	09/12/2023	01 20 D M
III	74028	Object Oriented Programming	Friday	01:30 P.M.
		with C++	01/12/2023	

M.Sc. TECH (MATHEMATICS) (C.B.C.S.)

(Course Code- 252)

Branch Code - M.Sc. TECH (MATHEMATICS) (C.B.C.S.) From Oct-2020				
	Part II :- SemIV			
PAPER	PAPER	PAPER NAME	DAY &	Evening
NO.	CODE		DATE	
I	79483	Real Analysis	Thursday	10:30 A.M. To
			14/12/2023	01:30 P.M.
II	79884	Operation Research	Wednesday	10:30 A.M. To
			06/12/2023	01:30 P.M.
IV	79485	DAA-II	Thursday	2.30 P.M. To
·			30/11/2023	5.30P.M.
V	79486	PHP With My SQL	Saturday	2.30 P.M. To
		·	02/12/2023	5.30P.M.
VI	79487	Java Programming	Tuesday	1
			05/12/2023	

Branch Code - M.Sc. TECH (MATHEMATICS) (C.B.C.S.) From Oct-2020				
		Part III :- SemV		
PAPER	PAPER	PAPER NAME	DAY &	Morning
NO.	CODE		DATE	
I	81119	Advanced Web Technology	Monday	
			04/12/2023	10.20 1.15
II	81120	Software Engineering	Friday	10:30 A.M.
			08/12/2023	
III	81121	Computer Networks	Monday	То
			11/12/2023	10
IV	81122	Cyber Security	Saturday	
			16/12/2023	01:30 P.M.
	Paper No	. V- Choose any One of the followi	ng	01.501.11.
	81123	Compiler Techniques	Monday	
			18/12/2023	
	81124	Linux Operating System	Monday	
			18/12/2023	
	81125	Android Programming	Monday	
			18/12/2023	
	81126	Machine Learning	Monday	
			18/12/2023	

Vidyanagar, Kolhapur – 416 004 Date :- 27 Oct- 2023 Sd/-Dr. Ajitsinh. N. Jadhav DIRECTOR BOARD OF EXAMINATIONS AND EVALUATION