

SHIVAJI UNIVERSITY KOLHAPUR

Circular No. (293) Exam of Oct/Nov.-2024 to be held in Oct/Nov.-2024.

Revised Draft Programme of the 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 -2024 to be held in Oct/Nov/Dec. -2024

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	
1	M.Sc. Mathematics M.Sc. Tech. (Industrial Mathematics with Computer Application)	264	Department of Mathematics, Shivaji University Kolhapur
2	M.A./M.Sc. Mathematics		Department of Distance Education, Kolhapur
3	M.Sc. Physics, M.A./M.Sc. Mathematics	01	Vivekanand College, Kolhapur
4	M.A./M.Sc. Mathematics	50	Yashawantrao Chavan Warna Mahavidyalaya, WARNANAGAR
5	M. Sc Physics M.A./M.Sc. Mathematics	30	The New College Kolhapur
6	M.A./M.Sc. Mathematics M.A./M. Sc. Geography M.Sc. Information Technology	90	Karmveer Bhaurao Patil College, URUN –ISLAMPUR.
7	M.Sc. Physics, M.A./M.Sc. Mathematics	80	Willingdon College, SANGLI
8	M.A./M. Sc. Geography, Industrial Microbiology, M. Sc Statistics, M.A./M. Sc Mathematics,	156	Sadguru Gadage Maharaj College, KARAD
9	M.sc Physics, Statistics, M.A./M.Sc Mathematics	149	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	<u>ode- M.A/M</u>	.Sc. Mathematics [NEP-2020]	From	Oct—2023]
		Part I :- SemI		
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Morning
Major Ma	ndatory			
I	92492	Linear Algebra	Wednesday 04/12/2024	10:30 A.M.
II	92493	Real Analysis	Monday 09/12/2024	To 01:30 P.M.
III	92494	Ordinary Differential Equations	Saturday 07/12/2024	01.301.111.
IV	92495	Numerical Analysis-I	Friday 06/12/2024	10:30 A.M. To 12:00 P.M.
Research	Methodolo	gy		
V	93744	Research Methodology	Wednesday 11/12/2024	
Major Ele	ctive Any O	ne Of The Following Paper		
VI	92383	Differential Geometry		
	92384	Integral Transforms		
	92385	Theory of Computation	7	
	92386	Graph Theory-I		10:30 A.M.
	92387	Lattice Theory-I		To
	92388	Dynamical Systems- I	Friday	01:30 P.M.
	92496	Combinatorics	13/12/2024	
	92389	Basics of Python		
	92390	Web Technology		
	92497	Linear Programming and Its Application		

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	Saturday 14/12/2024	
II	87752	Linear Algebra	Wednesday 04/12/2024	10:30 A.M.
III	87753	Complex Analysis	Tuesday 10/12/2024	To 01:30 P.M.
IV	87754	Classical Mechanics	Monday 16/12/2024	01:30 P.M.
V	87755	Ordinary Differential Equations	Saturday 07/12/2024	
Choose An	y One Of Th	e Following Paper		
VI	87756	Number Theory	Wednesday	
	87853	Mathematical Methods	18/12/2024	

(Course Code -2375)

		I.Sc. Mathematics [NEP] Part I - Sem II		rom March-202
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Morning
VII	92524	Advanced Calculus	Saturday 14/12/2024	10:30 A.M. To 01:30 P.M.
VIII	92522	Algebra	Tuesday 17/12/2024	02:30 P.M. To 05:30 P.M.
XIX	92523	Topology	Thursday 19/12/2024	
X	92525	Numerical Analysis II	Friday 27/12/2024	10:30 A.M. To 12:00 P.M.
Major Elec	ctive Any Or	ne Of The Following Paper		
XII	92527	Quantitative Techniques in Operation Research		
L L		•		
	92526	Number Theory		
	92526 94547	Number Theory Advanced Algebra		
		·		
	94547	Advanced Algebra	Tuesday	02:30 P.M.
	94547 94549	Advanced Algebra Algebraic Automata Theory	Tuesday — 24/12/2024	То
	94547 94549 94548	Advanced Algebra Algebraic Automata Theory Difference Equations	1	
	94547 94549 94548 94551	Advanced Algebra Algebraic Automata Theory Difference Equations Lattice Theory-II	1	То
	94547 94549 94548 94551 94554	Advanced Algebra Algebraic Automata Theory Difference Equations Lattice Theory-II PHP With MySQL	1	То

M.A/M.Sc. Mathematics [NEP] (Course Code -2353)

Branch Co	de - M.A/M	I.Sc. Mathematics [NEP]	F	rom March-2023	
		Part I - Sem II			
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Morning	
VII	87757	Real Analysis	Monday 09/12/2024	10:30 A.M. To 01:30 P.M.	
VIII	87758	Algebra	Tuesday 17/12/2024		
XIX	87759	Topology	Thursday 19/12/2024	02:30 P.M.	
X	87760	Numerical Analysis	Friday 06/12/2024	To 05:30 P.M.	
XI	87761	Partial Differential Equations	Wednesday 11/12/2024		
Choose Any	Choose Any One Of The Following Paper				
XII	87762	Operations Research	Friday	02:30 P.M. To	
	90173	Integral Transforms	13/12/2024	05:30 P.M.	

(Course Code -2375)

Branch Co	de - M.A/M	I.Sc. Mathematics [NEP]	F	rom March-2024
		Part II - Sem III		
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Morning
VII	95476	Functional Analysis	Thursday 05/12/2024	
VIII	92477	Complex Analysis	Tuesday 10/12/2024	10:30 A.M. To
XIX	92478	Classical Mechanics	Monday 16/12/2024	01:30 P.M.
X	92479	Advanced Discrete Mathematics	Thursday 12/12/2024	10:30 A.M. To 12:00 P.M.
Major Elec	ctive Any Or	ne Of The Following Paper		
XII	95480	Fluid Dynamics		
-	95481	Fuzzy Set Theory		
	95482	Fixed Point Theory & Applications	-	
-	95483	Measure and Integration		
	95484	Introduction to Cryptography	Saturday	10:30 A.M.
	95485	Automata, Languages and computations	21/12/2024	To 01:30 P.M.
	95487	Theory of Ideals		
-	96158	Algebraic Number Theory	-	
	96159	Dynamics Equation on Time Scales		
	96160	Coding Theory	1	
	97035	Software Engineering and Project Management		

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

Branch (Branch Code - M.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	Thursday 05/12/2024	10:30 A.M. To 01:30 P.M.
Any one o	of the follo	owing		
XII	90886 92093	Advanced Discrete Mathematics Topological Vector Spaces	Thursday 12/12/2024	
XIII, XIV	% XV A	Any Three of the following Papers		
	92096 92104	Lattice Theory – I Algebraic Topology	Friday 20/12/2024	
	92102	Space Dynamics- I	Friday 13/12/2024	
	92106	Coding Theory	Saturday	
	90887	Non-linear Optimization Techniques	21/12/2024	10:30 A.M.
	92098	Dynamical Systems – I	Monday	To To
	92101	Commutative Algebra - I	Monday 23/12/2024	01:30 P.M.
	90889	Fluid Dynamics		01.301.111.
	92105	Probability and Stochastic Processes		
	92095	General Relativity – I	Tuesday	
	90890	Combinatorics	24/12/2024	
	92094	Fractional Calculus	Thursday 26/12/2024	
	90888	Fuzzy Mathematics –I	Friday 27/12/2024	
	92097	Approximation Theory	Saturday 28/12/2024	
	92103	Theory of Computation	Thursday 26/12/2024	
	92100	Differential Geometry	Monday 30/12/2024	
	92099	Graph Theory-I	Tuesday 31/12/2024	

M.A/M.Sc. Mathematics (C.B.C.S.) New (Course Code- 2353)

21 411 611	Branch Code- M.A/M.Sc. Mathematics (C.B.C.S.)		T I UII	March—202
		Part II :- SemIV		
PAPE R NO.	PAPER CODE	PAPER NAME	DAY & DATE	Evening
	90891	Field Theory	Tuesday 31/12/2024	
	90892	Integral Equations	Thursday 02/01/2025	
	92127	Measure and Integration		
Paper N	Vo. – XVIII	, XIX & XX – Choose any Three of the	he following	
	90896	Algebraic Number Theory	- Friday	
	92345	Algebraic Automata Theory	03/01/2024	
	92347	Automatic Languages and computation		
	86715	Operations Research –II	Saturday	
	90541	Automata Theory	07/12/2024	
	90894	Fuzzy Mathematics-II	Monday	
	92342	Theory of Distributions	30/12/2024	02:30 P.M. To
	90895	Computational Fluid Dynamics	Saturday	05:30 P.M.
	92600	Analysis on Manifolds	14/12/2024	
	92128	Fractional Differential Equations	Wednesday	
	92599	Graph Theory-II	18/12/2024	
	92597	Wavelet Analysis	Thursday 19/12/2024	
	92598	Dynamical Systems- II	- 1 <i>9/12/202</i> -	
	92343	Commutative Algebra-II	Wednesday 01/01/2025	
	92344	Space Dynamics-II	01/01/2023	
	92346	Dynamics Equation on Time Scales	Saturday 21/12/2024	
	92130	Lattice Theory-II	21/12/2027	
	92129	General Relativity-II		
	90893	Quantitative Techniques In Operations Research	Tuesday 17/12/2024	

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

Branch Code- M.A/M.Sc. Mathemati		, , ,	Fron	m March—2023
	T	Part II :- SemIV		
PAPE	PAPER	PAPER NAME	DAY &	Evening
R NO.	CODE		DATE	
	86711	Integral Equations	Thursday 02/01/2025	
	86712	Field Theory	Tuesday 31/12/2024	
Paper N	No. – XVIII	, XIX & XX – Choose any Three of tl	he following	02:30 P.M.
	86714	Algebraic Number Theory	Friday - 03/01/2024	To 05:30 P.M.
	90542	Automatic Languages and computation	Saturday 07/12/2024 Monday 30/12/2024 Saturday 14/12/2024	
	86715	Operations Research –II		
	90541	Automata Theory		02:30 P.M.
	86716	Fuzzy Mathematics-II		
	90540	Theory of Distributions		
	86717	Computational Fluid Dynamics		
	90539	Analysis on Manifolds	1 11 12 2 0 2 1	
	86718	Fractional Differential Equations	Wednesday 18/12/2024	
	90538	Graph Theory-II	10/12/2024	То
	86719	Wavelet Analysis	Thursday - 19/12/2024	05:30 P.M.
	90537	Dynamical Systems- II		
	86720	Commutative Algebra-II	Wednesday - 01/01/2025	
	86721	Space Dynamics-II		
	86722	Dynamics Equation on Time Scales		
	90536	Lattice Theory-II	Saturday 21/12/2024	
	90535	General Relativity-II	21/12/2021	

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

		Mathematics with Computer Appli Part I :- SemI		
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Morning
Major Ma	ndatory	,		
I	91787	Linear Algebra	Wednesday 04/12/2024	10:30 A.M.
II	91788	Object Oriented Programming	Wednesday 18/12/2024	To 01:30 P.M.
III	91789	Database Management System	Friday 13/12/2024	
IV	91790	Numerical Analysis-I	Friday 06/12/2024	10:30 A.M. To 12:00 P.M.
Research	Methodolo	gy	·	
V	91801	Research Methodology	Wednesday 11/12/2024	
Major Ele	ctive Any O	ne Of The Following Paper		
VI	91791	Combinatorics		
	91792	Differential Geometry		10:30 A.M.
	91793	Integral Transforms		
	91794	Theory of Computation	Monday	To
	91795	Graph Theory-I	16/12/2024	04.00 - 1
	91796	Lattice Theory-I		01:30 P.M.
	91798	Dynamical Systems- I	_	
	91797	Linear Programming and Its		
		Application	_	
	91799	Basics of Python	_	
	91800	Web Technology		

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

(Course Code-2355)

Branch Code- M.Sc. Tech. (Industrial Mathematics with Computer Application)				
			F	rom Oct2022
		Part I :- SemI		
PAPER	PAPER	PAPER NAME	DAY &	Morning
NO.	CODE		DATE	_
V	88608	Advanced Calculus	Saturday	
			14/12/2024	
III	88609	Linear Algebra	Wednesday	10:30 A.M.
			04/12/2024	То
I	88610	Discrete Mathematical	Saturday	01:30 P.M.
		Structures-I	07/12/2024	
IV	88611	Computer Architecture	Thursday	1
			05/12/2024	
II	88612	Object Oriented Programming	Wednesday	
			18/12/2024	

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

Branch Co	Branch Code- M.Sc. (Mathematics with Computer Application) From March—2024				
		Part I :- SemII			
PAPER	PAPER	PAPER NAME	DAY &	Morning	
NO.	CODE		DATE		
Major Ma	ndatory				
I	94755	Algebra	Tuesday 17/12/2024	02:30 P.M.	
II	94757	Java Programming	Thursday 19/12/2024	To 05:30 P.M.	
III	94756	Advanced Calculus	Saturday 14/12/2024	10:30 A.M. To 01:30 P.M.	
Major Ele	ctive Any O	ne Of The Following Paper			
	94765	Quantitative Techniques in Operation Research			
	94759	Number Theory			
	94760	Advanced Algebra	Saturday		
	94762	Algebraic Automata Theory	21/12/2024	02:30 P.M.	
	94761	Difference Equations		To	
	94764	Lattice Theory-II		05:30 P.M.	
	94768	PHP With MySQL			
	94763	Graph Theory-II			
	94764	Lattice Theory-II			
	94766	Dynamical Systems- II			
	94767	Data Science with Python			

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

(Course Code- 2355)

				se Coue- 2555)
Branch -M	l.Sc. Tech. (I	ndustrial Mathematics with Compu	uter Application) Revised From March-2023)	
		Part I :- SemII		
PAPER	PAPER	PAPER NAME	DAY &	Morning
NO.	CODE		DATE	
VI	88614	Numerical Analysis	Friday 06/12/2024	
VII	88615	Algebra	Tuesday 17/12/2024	02:30 P.M. To 05:30 P.M.
VIII	88616	Discrete Mathematical Structures-II	Wednesday 11/12/2024	
IX	88617	Data Structures	Monday 16/12/2024	
X	88618	Database Management System	Friday 13/12/2024	10:30 A.M. To 01:30 P.M.

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

Branch Code- M.Sc. (Mathematics with Computer Application) From March—2024				
		Part II:- SemIII		
PAPER	PAPER	PAPER NAME	DAY &	Morning
NO.	CODE		DATE	
Major Ma	ndatory			
I	95948	Ordinary Differential Equations	Saturday 07/12/2024	10:30 A.M.
II	95949	Real Analysis	Thursday 12/12/2024	To 01:30 P.M.
III	95950	Front End Development	Monday 09/12/2024	01.30 F.M.
IV	95951	Field Theory	Thursday 05/12/2024	10:30 A.M. To 12:00 P.M.
Major Ele	ctive Any O	ne Of The Following Paper		
	95952	Algebraic Number Theory		
	95953	Advanced Discrete Mathematics		10:30 A.M. To 01:30 P.M.
	95954	Coding Theory		
	95955	Introduction to Cryptography	Wednesday 18/12/2024	
	95956	Automata, Languages and computations		
	95957	Software Engineering and Project Management		
	95958	Android Development with Kotlin		
	95959	Cyber Security		

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

(Course Code- 2355)

	(Course Code- 2535)				
Branch (Branch Code -M.Sc. Tech. (Industrial Mathematics with Computer Application (From Oct-2023)				
		Part II :- SemIII		,	
PAPER	PAPER	PAPER NAME	DAY &	Morning	
NO.	CODE		DATE		
XI	91502	Complex Analysis	Thursday 12/12/2024		
XII	91503	Ordinary Differential Equations	Saturday 07/12/2024		
XIII	91504	Design and Analysis of Algorithms-I	Wednesday 18/12/2024	10:30 A.M. To	
V	91505	Operating System	Friday 20/12/2024	01:30 P.M.	
III	91506	Python Programming	Saturday 21/12/2024		

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

(Course Code- 2355)

Branch Code - M.Sc. Tech. (Industrial Mathematics with Computer Application)				
Fre				om March-2024
	Part II :- SemIV			
PAPER	PAPER	PAPER NAME	DAY &	Evening
NO.	CODE		DATE	
I	91509	Real Analysis	Monday	10:30 A.M. To
			09/12/2024	01:30 P.M.
II	91510	Operation Research	Thursday 05/12/2024	02:30 P.M. To
				05:30 P.M.
IV	91511	Software Engineering	Monday	10:30 A.M. To
			23/12/2024	01:30 P.M.
V	91512	PHP With My SQL	Tuesday	02:30 P.M.
			24/12/2024	То
VI	91513	Java Programming	Thursday 19/12/2024	05:30 P.M.

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	Monday	10:30 A.M. To
			09/12/2024	01:30 P.M.
II	79884	Operation Research	Thursday	
			05/12/2024	
IV	79485	DAA-II	Saturday	02.30 P.M.
			07/12/2024	T
V	79486	PHP With My SQL	Tuesday	То
		·	24/12/2024	05.30P.M.
VI	79487	Java Programming	Thursday	U3.3UF.IVI.
		-	19/12/2024	

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

(Course Code- 2355)

Branch Code - M.Sc. Tech. (Industrial Mathematics with Computer Application)					
			Fr	om Oct-2024S	
		Part III :- SemV			
PAPER	PAPER	PAPER NAME	DAY &	Morning	
NO.	CODE		DATE		
I	95972	Functional Analysis	Tuesday 10/12/2024		
II	95973	Web Programming	Wednesday 04/12/2024	10:30 A.M.	
III	95974	Artificial Intelligence	Monday 23/12/2024	To 01:30 P.M.	
IV	95975	Cyber Security	Wednesday 18/12/2024	01.301.111.	
	Paper No. V- Choose any One of the following				
	95976	Compiler Techniques	Friday 20/12/2024		
	95977	Computer Networks	20/12/2024		
	95978	Cloud Computing			
	95979	Machine Learning			

Branch (Code - M.Sc.	TECH (MATHEMATICS) (C.	B.C.S.) Fi	rom Oct-2020	
		Part III :- SemV			
PAPER	PAPER	PAPER NAME	DAY &	Morning	
NO.	CODE		DATE		
I	81119	Advanced Web Technology	Wednesday 04/12/2024		
II	81120	Software Engineering	Monday 23/12/2024		
III	81121	Computer Networks	Saturday 07/12/2024	10:30 A.M.	
IV	81122	Cyber Security	Wednesday 18/12/2024	То	
	Paper No. V- Choose any One of the following				
	81123	Compiler Techniques	Friday 20/12/2024	01:30 P.M.	
	81124	Linux Operating System	20/12/2024	01.30 F.WI.	
	81125	Android Programming			
	81126	Machine Learning			

Vidyanagar, Kolhapur – 416 004 Date :- 13/11/2024 Sd/Dr. Ajitsinh. N. Jadhav
DIRECTOR
BOARD OF EXAMINATIONS AND EVALUATION