SHIVAJI UNIVERSITY KOLHAPUR

Circular No. (259) Exam of March/April.-2024 to be held in March/April-2024.

Final Programme of the M.A./M.Sc. Mathematics Part-I (Sem.- I & Sem-II) NEP-0.2 Course Code-2375 & M.A./M.Sc. Mathematics Part-I & II (Sem -I to Sem.- IV) NEP-0.1 Corse code- 2353 & Corse code- 2341

M.Sc. Mathematics with Computer Application Part-I (Sem.- I & Sem-II) NEP-0.2 Course Code-2374 & M.Sc. Tech. (Industrial Mathematics with Computer Application) Part-I & II (Sem.-I to Sem.- IV) NEP-0.1 Course Code- 2355 & M.Sc. Tech. Part-II & III (Sem.- III to V) course code 252 Examination March/April.-2024 to be held in March/April/May-2024.

INSTRUCTIONS- 1. SU/Appointment/RVC/55 Dated 20/01/2024.

2.Common instruction as per Circular No. SU/ON EXAM /29 Dated 01/02/2020, also available in University website www.unishivaji.ac.in

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

Sr. No	Exam	College Code	Places
1	M.Sc. Mathematics M.Sc. (Mathematics with Computer Application M.Sc. (Industrial Mathematics with Computer Application) M.Sc. Tech	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.

M.A./M.Sc. Mathematics [NEP-0.2]   (Course Code -2375)

Branch Code- M.A/M.Sc. Mathematics [NEP-0.2]			From Oct—2023]	
		Part I :- Sem.-I		
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Evening
Major Mandatory				
I	92492	Linear Algebra	Friday 19/04/2024	02:30 P.M. To 05:30 P.M.
II	92493	Real Analysis	Monday 22/04/2024	10:30 A.M. To 01:30 P.M.
III	92494	Ordinary Differential Equations	Wednesday 24/04/2024	02:30 P.M. To 05:30 P.M.
IV	92495	Numerical Analysis-I	Friday 26/04/2024	02:30 P.M. To 04:30 P.M.
Research Methodology				02:30 P.M. To 05:30 P.M.
V	93744	Research Methodology	Monday 29/04/2024	
Major Elective Any One Of The Following Paper				
VI	92383	Differential Geometry	Thursday 02/05/2024	
	92384	Integral Transforms		
	92385	Theory of Computation		
	92386	Graph Theory-I		
	92387	Lattice Theory-I		
	92388	Dynamical Systems- I		
	92496	Combinatorics		
	92389	Basics of Python		
	92390	Web Technology		
	92497	Linear Programming and Its Application		

M.A./M.Sc. Mathematics [NEP-0.1]   (Course Code -2353)

Branch Code- M.A/M.Sc. Mathematics [NEP-0.1]			From Oct—2022	
		Part I :- Sem.-I		
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Evening
I	87751	Advanced Calculus	Saturday 27/04/2024	02:30 P.M. To 05:30 P.M..
II	87752	Linear Algebra	Friday 19/04/2024	
III	87753	Complex Analysis	Saturday 4/05/2024	
IV	87754	Classical Mechanics	Tuesday 7/05/2024	
V	87755	Ordinary Differential Equations	Wednesday 24/04/2024	
Choose Any One Of The Following Paper				
VI	87756	Number Theory	Tuesday 23/04/2024	
	87853	Mathematical Methods		

M.A/M.Sc. Mathematics [NEP-0.2] (Course Code -2375)

Branch Code - M.A/M.Sc. Mathematics [NEP-0.2]				From March-2024
		Part I - Sem II		
PAPER NO.	**PAPER CODE**	**PAPER NAME**	**DAY & DATE**	**Morning**
VII	92524	Advanced Calculus	Saturday 27/04/2024	10:30 A.M. To 01:30 P.M.
VIII	92522	Algebra	Thursday 25/04/2024	
XIX	92523	Topology	Tuesday 30/04/2024	
X	92525	Numerical Analysis	Saturday 20/04/2024	10:30 A.M. To 12:30 P.M.
Major Elective Any One Of The Following Paper				10:30 A.M. To 01:30 P.M.
XII	92527	Quantitative Techniques in Operation Research	Tuesday 23/04/2024	
	92526	Number Theory		
	94547	Advanced Algebra		
	94549	Algebraic Automata Theory		
	94548	Difference Equations		
	94551	Lattice Theory-II		
	94554	PHP With MySQL		
	94553	Data Science with Python		
	94550	Graph Theory-II		
	94552	Dynamical Systems – II		

M.A/M.Sc. Mathematics [NEP-0.1] (Course Code -2353)

Branch Code - M.A/M.Sc. Mathematics [NEP-0.1]				From March-2023
		Part I - Sem II		
PAPER NO.	**PAPER CODE**	**PAPER NAME**	**DAY & DATE**	**Morning/ Evening**
VII	87757	Real Analysis	Monday 22/04/2024	10:30 A.M. To 01:30 P.M.
VIII	87758	Algebra	Thursday 25/04/2024	10:30 A.M. To 01:30 P.M.
XIX	87759	Topology	Tuesday 30/04/2024	
X	87760	Numerical Analysis	Saturday 20/04/2024	
XI	87761	Partial Differential Equations	Monday 06/05/2024	
Choose Any One Of The Following Paper				
XII	87762	Operations Research	Friday 03/05/2024	
	90173	Integral Transforms		

Branch Code - M.A/M.Sc. Mathematics (NEP-0.1)				From March-2022
		Part II - Sem III		
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Morning/ Evening
XI	90885	Functional Analysis	Friday 26/04/2024	10:30 A.M. To 01:30 P.M.
Any one of the following				
XII	90886	Advanced Discrete Mathematics	Thursday 18/04/2024	
	92093	Topological Vector Spaces		
XIII, XIV & XV Any Three of the following Papers				
	92096	Lattice Theory – I	Monday 29/04/2024	
	92104	Algebraic Topology	Saturday 13/04/2024	
	92102	Space Dynamics- I	Monday 15/04/2024	
	92106	Coding Theory	Wednesday 10/04/2024	2:30 P.M. To 05:30 P.M.
	90887	Non-linear Optimization Techniques		
	92098	Dynamical Systems – I	Tuesday 16/04/2024	
	92101	Commutative Algebra - I		
	90889	Fluid Dynamics	Friday 12/04/2024	
	92105	Probability and Stochastic Processes		
	92095	General Relativity – I	Thursday 2/05/2024	
	90890	Combinatorics		
	92094	Fractional Calculus	Monday 08/04/2024	
	90888	Fuzzy Mathematics –I	Tuesday 26/03/2024	
	92097	Approximation Theory	Thursday 04/04/2024	
	92103	Theory of Computation	Friday 5/04/2024	
	92100	Differential Geometry	Wednesday 03/04/2024	
	92099	Graph Theory-I	Tuesday 02/04/2024	

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

Branch Code - M.A/M.Sc. Mathematics (C.B.C.S.)				From March-2022
		Part II - Sem III		
PAPER NO.	**PAPER CODE**	**PAPER NAME**	**DAY & DATE**	**Evening**
XI	85386	Real Analysis	Monday 22/04/2024	10:30 A.M. To 01:30 P.M.
Any one of the following				
XII	85387	Advanced Discrete Mathematics	Thursday 18/04/2024	
	85388	Topological Vector Spaces		
XIII, XIV & XV **Any Three of the following Papers**				
	85395	Lattice Theory – I	Monday 29/04/2024	
	85404	Algebraic Topology	Saturday 13/04/2024	
	85402	Space Dynamics- I	Monday 15/04/2024	
	85389	Number Theory	Tuesday 23/04/2024	
	85403	Theory of Computation	Friday 05/04/2024	2:30 P.M. To 05:30 P.M.
	85397	Dynamical Systems – I	Tuesday 16/04/2024	
	85401	Commutative Algebra - I		
	85392	Fluid Dynamics	Friday 12/04/2024	
	85405	Probability and Stochastic Processes		
	85394	General Relativity – I	Thursday 2/05/2024	
	85400	Combinatorics		
	85393	Fractional Calculus	Monday 08/04/2024	
	85391	Fuzzy Mathematics –I	Tuesday 26/03/2024	
	85396	Approximation Theory	Thursday 04/04/2024	
	85390	Operations Research – I	Friday 03/05/2024	
	85399	Differential Geometry	Wednesday 03/04/2024	
	85398	Graph Theory-I	Tuesday 02/04/2024	

Branch Code- M.A/M.Sc. Mathematics [NEP-0.1]   **From March—2024**

PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Morning
		Part II :- Sem.-IV		
	90891	Field Theory	Friday 05/04/2024	
	90892	Integral Equations	Wednesday 03/04/2024	
	92127	Measure and Integration	Wednesday 03/04/2024	
Paper No. – XVIII, XIX & XX – Choose any Three of the following			
	92345	Algebraic Automata Theory	Monday 08/04/2024	
	92347	Automatic Languages and computation		
	90896	Algebraic Number Theory	Thursday 28/03/2024	10:30 A.M. To 01:30 P.M.
	90894	Fuzzy Mathematics-II	Saturday 13/04/2024	
	92342	Theory of Distributions		
	90895	Computational Fluid Dynamics	Monday 01/04/2024	
	92600	Analysis on Manifolds		
	92128	Fractional Differential Equations	Saturday 30/03/2024	
	92599	Graph Theory-II		
	92597	Wavelet Analysis	Wednesday 27/03/2024	
	92598	Dynamical Systems- II		
	92343	Commutative Algebra-II	Wednesday 10/04/2024	
	92344	Space Dynamics-II		
	92346	Dynamics Equation on Time Scales	Tuesday 16/04/2024	
	92130	Lattice Theory-II		
	92129	General Relativity-II	Thursday 18/04/2024	
	90893	Quantitative Techniques In Operations Research	Monday 15/04/2024	

Branch Code- M.A/M.Sc. Mathematics (C.B.C.S.)   **From March—2023**

PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Morning
		Part II :- Sem.-IV		
	86711	Integral Equations	Wednesday 03/04/2024	
	86712	Field Theory	Friday 05/04/2024	
Paper No. – XVIII, XIX & XX – Choose any Three of the following
	86714	Algebraic Number Theory	Thursday 28/03/2024	
	90542	Automatic Languages and computation	Monday 08/04/2024	
	86715	Operations Research –II	Thursday 04/04/2024	
	90541	Automata Theory		
	86716	Fuzzy Mathematics-II	Saturday 13/04/2024	
	90540	Theory of Distributions		
	86717	Computational Fluid Dynamics	Monday 1/04/2024	10:30 A.M. To 01:30 P.M.
	90539	Analysis on Manifolds		
	86718	Fractional Differential Equations	Saturday 30/03/2024	
	90538	Graph Theory-II		
	86719	Wavelet Analysis	Wednesday 27/03/2024	
	90537	Dynamical Systems- II		
	86720	Commutative Algebra-II	Wednesday 10/04/2024	
	86721	Space Dynamics-II		
	86722	Dynamics Equation on Time Scales	Tuesday 16/04/2024	
	90536	Lattice Theory-II		
	90535	General Relativity-II	Thursday 18/04/2024	

M.Sc. (Mathematics with Computer Application) [NEP-0.2]   (Course Code- 2374)

PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Evening
Branch Code- M.Sc. (Mathematics with Computer Application) From Oct—2023				
Part I :- Sem.-I				
Major Mandatory				
I	91787	Linear Algebra	Monday 06/05/2024	10:30 A.M. To 01:30 P.M.
II	91788	Object Oriented Programming	Thursday 25/04/2024	2:30 P.M. To 05:30 P.M.
III	91789	Database Management System	Saturday 27/04/2024	
IV	91790	Numerical Analysis-I	Tuesday 30/04/2024	2:30 P.M. To 04:30 P.M.
Research Methodology				10:30 A.M. To 01:30 P.M.
V	91801	Research Methodology	Saturday 04/05/2024	
Major Elective Any One Of The Following Paper				
VI	91791	Combinatorics	Tuesday 23/04/2024	
	91792	Differential Geometry		
	91793	Integral Transforms		
	91794	Theory of Computation		
	91795	Graph Theory-I		
	91796	Lattice Theory-I		
	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-0.1]
(Course Code- 2355)

PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Morning/ Evening
Branch Code- M.Sc. Tech. (Industrial Mathematics with Computer Application) From Oct--2022				
Part I :- Sem.-I				
V	88608	Advanced Calculus	Friday 26/04/2024	10:30 A.M. To 01:30 P.M.
III	88609	Linear Algebra	Tuesday 23/04/2024	2:30 P.M. To 05:30 P.M.
I	88610	Discrete Mathematical Structures-I	Friday 19/04/2024	
IV	88611	Computer Architecture	Thursday 02/05/2024	
II	88612	Object Oriented Programming	Thursday 25/04/2024	

M.Sc. (Mathematics with Computer Application) [NEP-0.2]   (Course Code- 2374)

Branch Code- M.Sc. (Mathematics with Computer Application)   From March—2024

PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Morning
		Part I :- Sem.-II		
Major Mandatory				
I	94755	Algebra	Monday 29/04/2024	10:30 A.M. To 01:30 P.M.
II	94757	Java Programming	Wednesday 24/04/2024	
III	94756	Advanced Calculus	Friday 26/04/2024	
Major Elective Any One Of The Following Paper				
	94765	Quantitative Techniques in Operation Research	Thursday 02/05/2024	10:30 A.M. To 01:30 P.M.
	94759	Number Theory		
	94760	Advanced Algebra		
	94762	Algebraic Automata Theory		
	94761	Difference Equations		
	94764	Lattice Theory-II		
	94768	PHP With MySQL		
	94763	Graph Theory-II		
	94766	Dynamical Systems- II		
	94767	Data Science with Python		

M.Sc. Tech. (Industrial Mathematics with Computer Application) [NEP-0.1]

(Course Code- 2355)

Branch -M.Sc. Tech. (Industrial Mathematics with Computer Application)

Revised From March-2023)

PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Morning
		Part I :- Sem.-II		
VI	88614	Numerical Analysis	Tuesday 30/04/2024	10:30 A.M. To 01:30 P.M.
VII	88615	Algebra	Monday 29/04/2024	
VIII	88616	Discrete Mathematical Structures-II	Saturday 20/04/2024	
IX	88617	Data Structures	Monday 22/04/2024	
X	88618	Database Management System	Saturday 27/04/2024	

M.Sc. Tech. (Industrial Mathematics with Computer Application) [NEP-0.1]

(Course Code- 2355)

Branch Code -M.Sc. Tech. (Industrial Mathematics with Computer Application				(From Oct-2023)
		Part II :- Sem.-III		
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Evening
XI	91502	Complex Analysis	Wednesday 24/04/2024	2:30 P.M. To 05:30 P.M.
XII	91503	Ordinary Differential Equations	Friday 03/05/2024	
XIII	91504	Design and Analysis of Algorithms-I	Monday 06/05/2024	
V	91505	Operating System	Saturday 04/05/2024	
III	91506	Python Programming	Monday 22/04/2024	

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 :- Sem.-III		
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Morning/ Evening
XI	74024	Complex Analysis	Wednesday 24/04/2024	2:30 P.M. To 05:30 P.M.
XII	74025	ODE	Friday 03/05/2024	
XIII	74026	DAA-I	Monday 06/05/2024	
V	74027	Database System	Saturday 27/04/2024	10:30 A.M. To 01:30 P.M.
III	74028	Object Oriented Programming with C++	Tuesday 30/04/2024	2:30 P.M. To 05:30 P.M.

M.Sc. Tech. (Industrial Mathematics with Computer Application) [NEP-0.1]

(Course Code- 2355)

				From March-2024
		Part II :- Sem.-IV		
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Morning
I	91509	Real Analysis	Friday 19/04/2024	10:30 A.M. To 01:30 P.M.
II	91510	Operation Research	Monday 22/04/2024	
IV	91511	Software Engineering	Thursday 25/04/2024	
V	91512	PHP With My SQL	Thursday 2/05/2024	
VI	91513	Java Programming	Saturday 04/05/2024	

M.Sc. TECH (MATHEMATICS)   (C.B.C.S.)   **(Course Code- 252)**

PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Morning/ Evening
Branch Code - M.Sc. TECH (MATHEMATICS) (C.B.C.S.) From Oct-2020				
		Part II :- Sem.-IV		
I	79483	Real Analysis	Friday 19/04/2024	10:30 A.M. To 01:30 P.M.
II	79884	Operation Research	Monday 22/04/2024	
IV	79485	DAA-II	Tuesday 23/04/2024	2.30 P.M. To 05.30 P.M.
V	79486	PHP With My SQL	Thursday 2/05/2024	10:30 A.M. To 01:30 P.M.
VI	79487	Java Programming	Saturday 04/05/2024	

M.Sc. TECH (MATHEMATICS)   (C.B.C.S.)   **(Course Code- 252)**

PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Morning
Branch Code - M.Sc. TECH (MATHEMATICS) (C.B.C.S.) From Oct-2020				
		Part III :- Sem.-V		
I	81119	Advanced Web Technology	Friday 26/04/2024	10:30 A.M. To 01:30 P.M.
II	81120	Software Engineering	Thursday 25/04/2024	
III	81121	Computer Networks	Monday 29/04/2024	
IV	81122	Cyber Security	Saturday 20/04/2024	
Paper No. V- Choose any One of the following				
	81123	Compiler Techniques	Tuesday 07/05/2024	
	81124	Linux Operating System		
	81125	Android Programming		
	81126	Machine Learning		

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.

Sd/-

Vidyanagar,

Kolhapur – 416 004

Date :- 11 March 2024

Dr. Ajitsinh. N. Jadhav

DIRECTOR

BOARD OF EXAMINATIONS AND EVALUATION