



## SHIVAJI UNIVERSITY KOLHAPUR

### Circular No. ( ) Summer Session Offline Exam of March/April-2023 to be held in June-2023.

Revised Draft Programme of the M.Sc. Part-I (Sem.- I & II) NEP-2020 Course Code-2353 & M.Sc. Part-I & II (Sem. -I to Sem.- IV) CBCS Corse code- 2341 & 205 Physics, Statistics, Applied Statistics & Informatics, Mathematics & Course Code-2355 M.Sc. Tech. (Industrial Mathematics with Computer Application ) Part-I (Sem.- I & II) [ NEP-2020] & course code 252 M.Sc. Tech. . Part-I & III (Sem.- I to V) Examination March/April-2023 to be held in June-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](http://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 Physics	264	Department of Physics, Shivaji University Kolhapur
2	M.Sc. Mathematics M.Sc. Tech. (Industrial Mathematics with Computer Application )		Department of Mathematics, Shivaji University Kolhapur
3	M..Sc. Statistics M..Sc. Applied Statistics and Informatics		Department of Statistics, Shivaji University Kolhapur
4	M.A./M.Sc. Mathematics	197	Department of Distance Education, Kolhapur
5	M.Sc. Physics, M.A./M.Sc. Mathematics	01	Vivekanand College, Kolhapur
6	M.A./M.Sc. Mathematics	50	Yashawantrao Chavan Warna Mahavidyalaya, WARNANAGAR
7	M. Sc Physics	48	Devchand College, ARJUNNAGAR
8	M. Sc Physics M.A./M.Sc. Mathematics	30	The New College Kolhapur
9	M.A./M.Sc. Mathematics M.A./M. Sc. Geography M.Sc. Information Technology	90	Karmveer Bhaurao Patil College, URUN –ISLAMPUR.

10	M.Sc. Physics, M.A./M.Sc. Mathematics	80	Willingdon College, SANGLI
11	M.Sc. Physics	94	Raje Ramrao Mahavidyalaya, JATH
12	M.A./M. Sc. Geography, M. Sc Statistics	92	Padm. Bhushan Dr. Vasandraodada Patil Mahavidyalaya, TASGAON
13	M.A./M. Sc. Geography M.Sc. Physics	84	Miraj Mahavidyalaya, Miraj
14	M.Sc. Physics	86	Balwant College. Vita Tal-Khanapur Dist-Sangli
15	M.A./M. Sc. Geography, Industrial Microbiology, M. Sc.. Statistics, M.A./M. Sc.. Mathematics,	156	Sadguru Gadage Maharaj College, KARAD
16	M.sc Physics, Statistics, M.A./M.Sc.. Mathematics	149	Yashwantrao Chavan Institute of Science, SATARA.
17	M. Sc .Statistics	32	Rajarshi Chhatrapati Shahu College, Kadamwadi Road, KOLHAPUR

**M.Sc. PHYSICS [ NEP-2020]**

**( Course Code -2353)**

<b>Branch Code- PHYSICS ( NEP-2020)</b>			<b>From Oct--2022</b>	
<b>Part I :- Sem.-I</b>				
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>Morning</b>
I	87859	Mathematical Physics	12-06-2023 Monday	<b>10.30 am To 01.30 pm</b>
II	87860	Classical Mechanics	14-06-2023 Wednesday	
III	87861	Quantum Mechanics-I	16-06-2023 Friday	
IV	87862	Condensed Matter Physics	19-06-2023 Monday	

**M.Sc. PHYSICS[ C.B.C.S.]****( Course Code -2341)**

<b>Branch Code- PHYSICS ( C.B.C.S.)</b>				<b>From Oct--2019</b>
<b>Part I :- Sem.-I</b>				
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>Evening</b>
I	83502	Mathematical Physics	12-06-2023 Monday	<b>10.30 am To 01.30 pm</b>
II	83503	Classical Mechanics	14-06-2023 Wednesday	
III	83504	Quantum Mechanics-I	16-06-2023 Friday	
IV	83505	Condensed Matter Physics	19-06-2023 Monday	

**M.Sc. PHYSICS[ C.B.C.S.]****( Course Code- 205)**

<b>Branch Code- PHYSICS ( C.B.C.S.)</b>				<b>From Oct--2018</b>
<b>Part I :- Sem.-I</b>				
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>Morning</b>
I	74934	Mathematical Physics	12-06-2023 Monday	<b>10.30 am To 01.30 pm</b>
II	74935	Classical Mechanics	14-06-2023 Wednesday	
III	74936	Quantum Mechanics-I	16-06-2023 Friday	
IV	74937	Condensed Matter Physics	19-06-2023 Monday	

**M.Sc. PHYSICS[ C.B.C.S.] [ NEP-2020]****( Course Code -2353)**

<b>Branch Code- PHYSICS ( C.B.C.S.) [ NEP-2020]</b>				<b>From March--2023</b>
<b>Part I :- Sem.-II</b>				
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>Evening</b>
V	90182	Quantum Mechanics-II	13-06-2023 Tuesday	<b>02.30 pm To 05.30 pm</b>
VI	90183	Statistical Mechanics	15-06-2023 Thursday	
VII	90184	Electrodynamics	17-06-2023 Saturday	
VIII	90185	Atomic & Molecular Physics	20-06-2023 Tuesday	

**M.Sc. PHYSICS[ C.B.C.S.]****( Course Code -2341)**

<b>Branch Code- PHYSICS ( C.B.C.S.)</b>				<b>From March--2022</b>
		<b>Part I :- Sem.-II</b>		
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>Evening</b>
V	84605	Quantum Mechanics-II	13-06-2023 Tuesday	<b>02.30 pm</b> <b>To</b> <b>05.30 pm</b>
VI	84606	Statistical Mechanics	15-06-2023 Thursday	
VII	84607	Electrodynamics	17-06-2023 Saturday	
VIII	84608	Atomic & Molecular Physics	20-06-2023 Tuesday	

**M.Sc. PHYSICS[ C.B.C.S.]****( Course Code -205)**

<b>Branch Code- PHYSICS ( C.B.C.S.)</b>				<b>From March--2020</b>
		<b>Part I :- Sem.-II</b>		
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>Evening</b>
V	79543	Quantum Mechanics-II	13-06-2023 Tuesday	<b>02.30 pm</b> <b>To</b> <b>05.30 pm</b>
VI	79544	Statistical Mechanics	15-06-2023 Thursday	
VII	79545	Electrodynamics	17-06-2023 Saturday	
VIII	79546	Atomic & Molecular Physics	20-06-2023 Tuesday	

Branch Code - Physics ( C.B.C.S.)			From Oct-2022	
<b>Part II :- Sem.-III</b>				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Morning
IX	85428	Nuclear and Particle Physics	13-06-2023 Tuesday	<b>10.30 am To 01.30 pm</b>
Choose Any One Of The Following Paper				
X	85441	Data Analysis and Statistical Software(DASF)	15-06-2023 Thursday	<b>10.30 am To 01.30 pm</b>
	85442	Numerical Computing Using MATLAB(NCU)		
	85443	Computational Programming using Mathematical (CP)		
	85444	Thin Film Deposition Technology(TFDT)		
Choose Any One Of The Following Paper				
XI	85429	The New Energy Technologies(TNET)	17-06-2023 Saturday	<b>10.30 am To 01.30 pm</b>
	85430	Imperfection in Crystals(IIC)		
	85431	Thin Solid Films : Deposition And Properties(TSFDAP)		
	85432	Fundamentals of Plasma Physics (FOPP)		
	85433	Laser Physics(LP)		
	85434	Stellar Evolution : Birth Evolution and Death of the stars(SEBDS)		
Choose Any One Of The Following Paper				
XII	85435	Solar Thermal Devices (STD)	20-06-2023 Tuesday	
	85436	Properties Of Materials (POM)		
	85437	Astrophysics of the Sun (AOTS)		
	85438	Semi Conductor Physics(SP)		
	85439	Introduction to General Relativity-I		
	85440	Nonlinear Optics and Fiber optics(CTHND2)		

Branch Code - Physics ( C.B.C.S.)			From Oct-2020	
<b>Part II :- Sem.-III</b>				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Evening
IX	80820	Nuclear and Particle Physics	13-06-2023 Tuesday	<b>10.30 am To 01.30 pm</b>
Choose Any One Of The Following Paper				<b>10.30 am To 01.30 pm</b>
X	81116	Data Analysis and Statistical Software(DASF)	15-06-2023 Thursday	
	81117	Numerical Computing Using MATLAB(NCU)		
	81118	Computational Programming using Mathematical (CP)		
	81236	Thin Film Deposition Technology(TFDT)		
Choose Any One Of The Following Paper				<b>10.30 am To 01.30 pm</b>
XI	81092	The New Energy Technologies(TNET)	17-06-2023 Saturday	
	81093	Imperfection in Crystals(IIC)		
	81096	Thin Solid Films : Deposition And Properties(TSFDAP)		
	81097	Fundamentals of Plasma Physics (FOPP)		
	81094	Laser Physics(LP)		
	81095	Stellar Evolution : Birth Evolution and Death of the stars(SEBDS)		
Choose Any One Of The Following Paper				<b>10.30 am To 01.30 pm</b>
XII	81098	Solar Thermal Devices (STD)	20-06-2023 Tuesday	
	81099	Properties Of Materials (POM)		
	81101	Astrophysics of the Sun (AOTS)		
	81102	Semi Conductor Physics(SP)		
	81103	Introduction to General Relativity-I		
	81100	Nonlinear Optics and Fiber optics(CTHND2)		

Branch Code - PHYSICS ( C.B.C.S.)			n From-(March-2023)	
<b>Part II :- Semester IV</b>				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Evening
IX	86736	Experimental Techniques	12-06-2023 Monday	<b>02.30 pm To 05.30 pm</b>
<b>Choose Any One of The Following Subject</b>				
X	86748	Numerical Methods And Programming	14-06-2023 Wednesday	<b>02.30 pm To 05.30 pm</b>
	86749	MATLAB Programming and Applications		
	86750	Energy Conversion and Storage Devices		
	86747	Modern Analytical Techniques		
<b>Choose Any One of The Following Subject</b>				
XI	86737	Renewable Energy Resources	16-06-2023 Friday	<b>02.30 pm To 05.30 pm</b>
	86738	Molecular Spectroscopy		
	86739	Magnetospheric Plasma Dynamics		
	86740	Physical Properties of Solids		
	86751	Interaction of Electromagnetic waves with Electron Beams & Plasmas		
	86752	Special Materials		
<b>Choose Any One of The Following Subject</b>				
XII	86741	Energy Conversion Devices	19-06-2023 Monday	<b>02.30 pm To 05.30 pm</b>
	86742	Nanostructured Materials		
	86743	Holography and Its Applications		
	86744	Ionospheric and Space Weather		
	86745	Semiconductor Devices		
	86746	Introduction to Quantum Field Theory		

Branch Code - PHYSICS ( C.B.C.S.)			From-(March-2021)		
		<b>Part II :- Semester IV</b>			
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Evening	
IX	83111	Experimental Techniques	12-06-2023 Monday	<b>02.30 pm</b> <b>To</b>	
<b>Choose Any One of The Following Subject</b>				<b>05.30 pm</b>	
X	83221	Numerical Methods And Programming	14-06-2023 Wednesday		
	83223	Energy Conversion and Storage Devices			
	83224	MATI AB Programming and Applications			
<b>Choose Any One of The Following Subject</b>				<b>02.30 pm</b>	
XI	83080	Renewable Energy Resources	16-06-2023 Friday	<b>To</b> <b>05.30 pm</b>	
	83081	Special Materials			
	83082	Molecular Spectroscopy			
	83083	Magnetospheric Plasma Dynamics			
	83084	Physical Properties of Solids			
	83085	Interaction of Electromagnetic waves with Electron Beams & Plasmas			
<b>Choose Any One of The Following Subject</b>				<b>02.30 pm</b>	
XII	83086	Energy Conversion Devices	19-06-2023 Monday	<b>To</b> <b>05.30 pm</b>	
	83087	Nanostructured Materials			
	83088	Holography and Its Applications			
	83089	Ionospheric and Space Weather			
	83090	Semiconductor Devices			
	83091	Introduction to Quantum Field Theory			



**M.A./M.Sc. Mathematics [ NEP-2020]****( Course Code -2353)**

<b>Branch Code- M.A/M.Sc. Mathematics [ NEP-2020]</b>			<b>From Oct—2022]</b>	
		Part I :- Sem.-I		
<b>PAPER NO.</b>	<b>PAPER CODE</b>		<b>DAY &amp; DATE</b>	<b>Evening</b>
I	87751	Advanced Calculus	12-06-2023 Monday	02:30 P.M.  To 05:30 P.M.
II	87752	Linear Algebra	14-06-2023 Wednesday	
III	87753	Complex Analysis	23-06-2023 Friday	
IV	87754	Classical Mechanics	19-06-2023 Monday	
V	87755	Ordinary Differential Equations	21-06-2023 Wednesday	
<b>Choose Any One Of The Following Paper</b>				
VI	87756	Number Theory	16-06-2023 Friday	
	87853	Mathematical Methods		

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

<b>Branch Code- M.A/M.Sc. Mathematics</b>			<b>From Oct—2019</b>	
		Part I :- Sem.-I		
<b>PAPER NO.</b>	<b>PAPER CODE</b>		<b>DAY &amp; DATE</b>	<b>Evening</b>
I	83480	Advanced Calculus	12-06-2023 Monday	02:30 P.M.  To 05:30 P.M.
II	83481	Linear Algebra	14-06-2023 Tuesday	
III	83482	Complex Analysis	23-06-2023 Friday	
IV	83483	Classical Mechanics	19-06-2023 Monday	
V	83484	Ordinary Differential Equations	21-06-2023 Wednesday	

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

<b>Branch Code- M.A/M.Sc. Mathematics</b>			<b>From Oct—2019</b>	
			<b>Part I :- Sem.-I</b>	
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>Evening</b>
I	71415/ 59828	Advanced Calculus	12-06-2023 Monday	02:30 P.M.  To  05:30 P.M.
II	71416	Linear Algebra	14-06-2023 Tuesday	
III	71417	Complex Analysis	23-06-2023 Friday	
IV	71418/ 59831	Classical Mechanics	19-06-2023 Monday	
V	71419/ 59830	Ordinary Differential Equations	21-06-2023 Wednesday	

**M.A/M.Sc. Mathematics ( C.B.C.S. ) [ NEP-2020]****( Course Code -2353)**

<b>Branch Code - M.A/M.Sc. Mathematics ( C.B.C.S. ) [ NEP-2020]</b>			<b>From March-2023</b>	
			<b>Part I - Sem II</b>	
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>Morning</b>
VII	87757	Real Analysis	13-06-2023 Tuesday	10:30 A.M.  To  01:30 P.M.
VIII	87758	Algebra	15-06-2023 Thursday	
XIX	87759	Topology	17-06-2023 Saturday	
X	87760	Numerical Analysis	20-06-2023 Tuesday	
XI	87761	Partial Differential Equations	22-06-2023 Thursday	
<b>Choose Any One Of The Following Paper</b>				
XII	87762	Operations Research	24-06-2023 Saturday	
	90173	Integral Transforms		

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

<b>Branch Code - M.A/M.Sc. Mathematics ( C.B.C.S.)</b>		<b>(From April-2022</b>		
		<b>Part I - Sem II</b>		
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>Morning</b>
VI	84592	Functional Analysis	24-06-2023 Saturday	10:30 A.M.  To  01:30 P.M.
VII	84593	Algebra	15-06-2023 Thursday	
VIII	84594	General Topology	17-06-2023 Saturday	
IX	84595	Numerical Analysis	20-06-2023 Tuesday	
X	84596	Partial Differential Equations	22-06-2023 Thursday	

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

<b>Branch Code - M.A/M.Sc. Mathematics ( C.B.C.S.)</b>		<b>(From April-2020</b>		
		<b>Part I - Sem II</b>		
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>Morning</b>
VI	71421/ 79315/ 63303	Functional Analysis	24-06-2023 Saturday	10:30 A.M.  To  01:30 P.M.
VII	71422/ 79316/ 59827	Algebra	15-06-2023 Thursday	
VIII	71423/ 79317/ 61382	General Topology	17-06-2023 Saturday	
IX	71424/ 79318/ 69566	Numerical Analysis	20-06-2023 Tuesday	
X	71425/ 79319/ 63319	Partial Differential Equations	22-06-2023 Thursday	

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	Morning	
XI	85386	Real Analysis	13-06-2023 Tuesday	10:30 A.M.  To  01:30 P.M.	
<b>Any one of the following</b>					
XII	85387	Advanced Discrete Mathematics	29-06-2023 Thursday		
	85388	Topological Vector Spaces			
<b>XIII, XIV &amp; XV Any Three of the following Papers</b>					
	85395	Lattice Theory – I	12-06-2023 Monday		
	85404	Algebraic Topology			
	85399	Differential Geometry	17-06-2023 Saturday		
	85402	Space Dynamics- I			
	85389	Number Theory	16-06-2023 Friday		
	85403	Theory of Computation			
	85397	Dynamical Systems – I	27-06-2023 Tuesday		
	85401	Commutative Algebra - I			
	85392	Fluid Dynamics	19-06-2023 Monday		
	85405	Probability and Stochastic Processes			
	85394	General Relativity – I	30-06-2023 Friday		
	85400	Combinatorics			
	85393	Fractional Calculus	21-06-2023 Wednesday		
	85398	Graph Theory-I			
	85391	Fuzzy Mathematics –I	23-06-2023 Friday		
	85396	Approximation Theory			
	85390	Operations Research – I	26-06-2023 Monday		

Branch Code - M.A/M.Sc. Mathematics ( C.B.C.S.)			From March-2020		
Part II - Sem III					
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Morning	
XI	80960	Real Analysis	13-06-2023 Tuesday	10:30 A.M.  To  01:30 P.M.	
<b>Any one of the following</b>					
XII	63304/79322/ 80961	Advanced Discrete Mathematics	29-06-2023 Thursday		
	80962	Topological Vector Spaces			
<b>XIII, XIV &amp; XV Any Three of the following Papers</b>					
	80969	Lattice Theory – I	12-06-2023 Monday		
	80978	Algebraic Topology			
	80973	Differential Geometry	17-06-2023 Saturday		
	80976	Space Dynamics- I			
	80963/ 63307	Number Theory	16-06-2023 Thursday		
	80977	Theory of Computation			
	80971	Dynamical Systems – I	27-06-2023 Tuesday		
	80975	Commutative Algebra - I			
	80966	Fluid Dynamics	19-06-2023 Monday		
	80979	Probability and Stochastic Processes			
	80968	General Relativity – I	30-06-2023 Friday		
	80974	Combinatorics			
	80967	Fractional Calculus	21-06-2023 Wednesday		
	80972	Graph Theory-I			
	80965/ 63314	Fuzzy Mathematics –I	23-06-2023 Friday		
	80970	Approximation Theory			
	80964/ 63316	Operations Research – I	26-06-2023 Monday		

<b>Branch Code- M.A/M.Sc. Mathematics ( C.B.C.S.)</b>				<b>From March—2023</b>	
<b>Part II :- Sem.-IV</b>					
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>Evening</b>	
	86711	Integral Equations	30-06-2023 Friday	02:30 P.M.  To  05:30 P.M.	
	86712	Field Theory	01-07-2023 Saturday		
<b>Paper No. – XVIII, XIX &amp; XX – Choose any Three of the following</b>					
	86714	Algebraic Number Theory	29-06-2023 Thursday		
	90542	Automatic Languages and computation			
	86715	Operations Research –II	20-06-2023 Tuesday		
	90541	Automata Theory			
	86716	Fuzzy Mathematics-II	24-06-2023 Saturday		
	90540	Theory of Distributions			
	86717	Computational Fluid Dynamics	26-06-2023 Monday		
	90539	Analysis on Manifolds			
	86718	Fractional Differential Equations	17-06-2023 Saturday		
	90538	Graph Theory-II			
	86719	Wavelet Analysis	22-06-2023 Thursday		
	90537	Dynamical Systems- II			
	86720	Commutative Algebra-II	16-06-2023 Friday		
	86721	Space Dynamics-II			
	86722	Dynamics Equation on Time Scales	27-06-2023 Tuesday		
	90536	Lattice Theory-II			
	90535	General Relativity-II	12-06-2023 Monday		

Branch Code- M.A/M.Sc. Mathematics ( C.B.C.S.)		From April—2020			
		Part II :- Sem.-IV			
PAPE R NO.	PAPER CODE	PAPER NAME	DAY & DATE	Evening	
	69567/63326/ 83058	Field Theory	01-07-2023 Saturday	02:30 P.M.  To  05:30 P.M.	
	83057	Integral Equations	30-06-2023 Friday		
<b>Paper No. – XVIII, XIX &amp; XX – Choose any Three of the following</b>					
	83059	Algebraic Number Theory	29-06-2023 Thursday		
	85481	Automatic Languages and computation			
	83060	Operations Research –II	20-06-2023 Tuesday		
	85480	Automata Theory			
	83061	Fuzzy Mathematics-II	24-06-2023 Saturday		
	85479	Theory of Distributions			
	83062	Computational Fluid Dynamics	26-06-2023 Monday		
	85478	Analysis on Manifolds			
	83063	Fractional Differential Equations	17-06-2023 Saturday		
	85477	Graph Theory-II			
	83066	Wavelet Analysis	22-06-2023 Thursday		
	85476	Dynamical Systems- II			
	85254	Advanced Algebra			
	83072	Commutative Algebra-II	16-06-2023 Friday		
	83073	Space Dynamics-II			
	83074	Dynamics Equation on Time Scales	27-06-2023 Tuesday		
	85475	Lattice Theory-II			
	85474	General Relativity-II	12-06-2023 Monday		
	85253	Introduction to Cryptology			

**M.Sc. Tech. (Industrial Mathematics with Computer Application ) [ NEP-2020]****( Course Code- 2355)**

<b>Branch Code- M.Sc. Tech. (Industrial Mathematics with Computer Application )</b>				
<b>From Oct--2022</b>				
Part I :- Sem.-I				
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>Evening</b>
V	88608	Advanced Calculus	12-06-2023 Monday	02:30 P.M.  To  05:30 P.M.
III	88609	Linear Algebra	14-06-2023 Wednesday	
I	88610	Discrete Mathematical Structures-I	19-06-2023 Monday	
IV	88611	Computer Architecture	21-06-2023 Wednesday	
II	88612	Object Oriented Programming	16-06-2023 Friday	

**M.Sc. Tech. Mathematics ( C.B.C.S. )****( Course Code- 252)**

<b>Branch Code- Tech. Mathematics ( C.B.C.S.)</b>				<b>From Oct--2018</b>
Part I :- Sem.-I				
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>Evening</b>
V	71453	Advanced Calculus	12-06-2023 Monday	02:30 P.M.  To  05:30 P.M.
III	71454	Linear Algebra	14-06-2023 Wednesday	
I	71455	Discrete Mathematical Structures-I	19-06-2023 Monday	
IV	71456	Computer Architecture	21-06-2023 Wednesday	
II	71457	Programming in C	16-06-2023 Friday	



**M.Sc. Tech. (Industrial Mathematics with Computer Application ) [ NEP-2020]**  
**( Course Code- 2355)**

<b>Branch -M.Sc. Tech. (Industrial Mathematics with Computer Application )</b>				
<b>Revised From March-2023)</b>				
<b>Part I :- Sem.-II</b>				
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>Morning</b>
VI	88614	Numerical Analysis	20-06-2023 Tuesday	10:30 A.M.  To  01:30 P.M.
VII	88615	Algebra	15-06-2023 Thursday	
VIII	88616	Discrete Mathematical Structures-II	22-06-2023 Thursday	
IX	88617	Data Structures	23-06-2023 Friday	
X	88618	Database Management System	30-06-2023 Friday	

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

<b>Branch Code - M.Sc. TECH ( MATHEMATICS ) ( C.B.C.S.)</b>				<b>(Revised</b>
<b>From April-2019)</b>				
<b>Part I :- Sem.-II</b>				
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>Morning</b>
VI	71460	Functional Analysis	24-06-2023 Saturday	10:30 A.M.  To  01:30 P.M.
VII	71461	Algebra	15-06-2023 Thursday	
VIII	71464	Operating Systems	14-06-2023 Wednesday	
IX	71463	Data Structures Using-C	16-06-2023 Friday	
X	71462	Discrete Mathematical Structures-II	12-06-2023 Monday	

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

<b>Branch Code - M.Sc. TECH ( MATHEMATICS ) ( C.B.C.S.) ( From Oct-2019)</b>				
<b>Part II :- Sem.-III</b>				
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>Evening</b>
XI	74024	Complex Analysis	23-06-2023 Friday	02:30 P.M.  To  05:30 P.M.
XII	74025	ODE	21-06-2023 Wednesday	
XIII	74026	DAA-I	20-06-2023 Tuesday	
V	74027	Database System	19-06-2023 Monday	
III	74028	Object Oriented Programming with C++	22-06-2023 Thursday	

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

<b>Branch Code - M.Sc. TECH ( MATHEMATICS ) ( C.B.C.S.) From Oct-2020</b>				
<b>Part II :- Sem.-IV</b>				
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>Morning</b>
I	79483	Real Analysis	13-06-2023 Tuesday	10:30 A.M.  To  01:30 P.M.
II	79884	Operation Research	26-06-2023 Monday	
IV	79485	DAA-II	17-06-2023 Saturday	
V	79486	PHP With My SQL	27-06-2023 Tuesday	
VI	79487	Java Programming	29-06-2023 Thursday	

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

<b>Branch Code - M.Sc. TECH ( MATHEMATICS ) ( C.B.C.S.)</b>				<b>From Oct-2020</b>
Part III :- Sem.-V				
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>Evening</b>
I	81119	Advanced Web Technology	29-06-2023 Thursday	02:30 P.M.  To  05:30 P.M.
II	81120	Software Engineering	30-06-2023 Friday	
III	81121	Computer Networks	26-06-2023 Monday	
IV	81122	Cyber Security	27-06-2023 Tuesday	
<b>Paper No. V- Choose any One of the following</b>				
	81123	Compiler Techniques	16-06-2023 Friday	
	81124	Linux Operating System		
	81125	Android Programming		
	81126	Machine Learning		

**M.Sc. Statistics [NEP-2020]****( Course Code -2353)**

<b>Branch Code- Statistics [ NEP-2020]</b>				<b>From Oct--2022</b>
Part I :- Sem.-I				
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>Evening</b>
I	87863	Real Analysis	Monday 19-06-2023	02:30 P.M.  To  05:30 P.M
II	87864	Linear Algebra	Wednesday 21-06-2023	
III	87865	Distribution Theory	Tuesday 27-06-2023	
IV	87866	Estimation Theory	Friday 30-06-2023	
V	87867	Statistical Computing	Monday 03-07-2023	

**M.Sc. Statistics [C.B.C.S.]****( Course Code- 2341)**

Branch Code- Statistics [CBCS]				From Oct--2021
		Part I :- Sem.-I		
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Evening
I	83438	Real Analysis	Monday 19-06-2023	02:30 P.M. To 05:30 P.M
II	83439	Linear Algebra	Wednesday 21-06-2023	
III	83440	Distribution Theory	Tuesday 27-06-2023	
IV	83441	Estimation Theory	Friday 30-06-2023	
V	83442	Statistical Computing	Monday 03-07-2023	

**M.Sc. Statistics [C.B.C.S.]****(Course Code- 205)**

Branch Code- Statistics [CBCS]				From Oct--2018
		Part I :- Sem.-I		
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Evening
I	74907	Real Analysis	Monday 19-06-2023	02:30 P.M. To 05:30 P.M
II	74908	Linear Algebra	Wednesday 21-06-2023	
III	74909	Distribution Theory	Tuesday 27-06-2023	
IV	74910	Estimation Theory	Friday 30-06-2023	
V	74911	Statistical Computing	Monday 03-07-2023	

**M.Sc. Statistics [ NEP-2020****( Course Code -2353)**

Branch Code – STATISTICS( C.B.C.S.) [ NEP-2020]			From March--2023	
Part I :- Sem.-II				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Evening
VI	90189	Probability Theory	Tuesday 20-06-2023	02:30 P.M. To 05:30 P.M.
VII	90190	Theory of Testing of Hypothesis	Thursday 22-06-2023	
VIII	90191	Linear Models and Regression Analysis	Monday 26-06-2023	
IX	90192	Design and Analysis of Experiments	Thursday 29-06-2021	
X	90193	Sampling Theory and Official Statistics	Saturday 01-07-2023	

**M.Sc. Statistics [ C.B.C.S. ]****( Course Code- 2341)**

Branch Code – STATISTICS( C.B.C.S.)			From April-2022	
Part I :- Sem.-II				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Evening
VI	84612	Probability Theory	Tuesday 20-06-2023	02:30 P.M. To 05:30 P.M.
VII	84613	Theory of Testing of Hypothesis	Thursday 22-06-2023	
VIII	84614	Linear Models and Regression Analysis	Monday 26-06-2023	
IX	84615	Design and Analysis of Experiments	Thursday 29-06-2021	
X	84616	Sampling Theory and Official Statistics	Saturday 01-07-2023	

**M.Sc. Statistics [ C.B.C.S. ]**

**( Course Code- 205)**

<b>Branch Code – STATISTICS( C.B.C.S.)</b>			<b>From April-2019</b>	
<b>Part I :- Sem.-II</b>				
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>Evening</b>
VI	74913	Probability Theory	Tuesday 20-06-2023	02:30 P.M. To 05:30 P.M.
VII	74914	Theory of Testing of Hypothesis	Thursday 22-06-2023	
VIII	74915	Linear Models and Regression Analysis	Monday 26-06-2023	
IX	74916	Design and Analysis of Experiments	Thursday 29-06-2021	
X	74917	Sampling Theory and Official Statistics	Saturday 01-07-2023	

**M.Sc. Statistics [ C.B.C.S. ]**

**( Course Code -2341)**

<b>Branch Code - STATISTICS ( C.B.C.S.)</b>			<b>From Oct-2022</b>		
<b>Part II :- Sem.-III</b>					
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>Morning</b>	
XI	85445	Asymptotic Inference	Monday 12-06-2023	10:30 A.M. To 01:30 P.M.	
<b>Choose Any One of the Following</b>					
XII	85449	Stochastic Processes	Wednesday 14-06-2023		
	85450	Functional Data Analysis			
<b>Choose Any One of the Following</b>					
XIII	85451	Data Mining	Saturday 17-06-2023		
	85452	Artificial Intelligence			
<b>Choose Any One of the Following</b>					
XIV	85453	Time Series Analysis	Monday 19-06-2023		
	85454	Statistical Ecology			
<b>Choose Any One of the Following</b>					
XV	85446	Multivariate Analysis	Wednesday 21-06-2023		
	85447	Bayesian Inference			

## M.Sc. Statistics [ C.B.C.S. ]

( Course Code -205)

Branch Code - STATISTICS ( C.B.C.S.)				From Oct-2019	
<b>Part II :- Sem.-III</b>					
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Morning	
XI	80980	Asymptotic Inference	Monday 12-06-2023	10:30 A.M. To 01:30 P.M.	
<b>Choose Any One of the Following</b>					
XII	80983	Stochastic Processes	Wednesday 14-06-2023		
	80984	Functional Data Analysis			
<b>Choose Any One of the Following</b>					
XIII	80985	Data Mining	Saturday 17-06-2023		
	80986	Artificial Intelligence			
<b>Choose Any One of the Following</b>					
XIV	80987	Time Series Analysis	Monday 19-06-2023		
	80988	Statistical Ecology			
<b>Choose Any One of the Following</b>					
XV	80981	Multivariate Analysis	Wednesday 21-06-2023		
	80982	Bayesian Inference			

## M.Sc. Statistics [ C.B.C.S. ]

( Course Code -2341)

Branch Code - STATISTICS ( C.B.C.S.)				From March-2023	
<b>Part II :- Sem.-IV</b>					
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	Morning	
XVI	86767	Generalized Linear Models	Tuesday 13-06-2023	10:30 A.M. To 01:30 P.M.	
<b>Choose Any One of the Following</b>					
XVII	86771	Survival Analysis	Thursday 15-06-2023		
	86772	Actuarial statistics			
<b>Choose Any One of the Following</b>					
XVIII	86773	Biostatistics	Saturday 16-06-2023		
	86774	Econometrics			
<b>Choose Any One of the Following</b>					
XIX	86777	Optimization techniques	Tuesday 20-06-2023		
	86778	Circular Data analysis			
<b>Choose Any One of the Following</b>					
XX	86775	Spatial data analysis	Thursday 22-06-2023		
	86776	Statistical quality control			

**M.Sc. Statistics [ C.B.C.S.****( Course Code -205)**

<b>Branch Code - STATISTICS ( C.B.C.S.)</b>				<b>From April-2020</b>
<b>Part II :- Sem.-IV</b>				
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>Morning</b>
<b>XVI</b>	83040	Generalized Linear Models	Tuesday 13-06-2023	10:30 A.M.  To  01:30 P.M.
<b>Choose Any One of the Following</b>				
<b>XVII</b>	83041	Survival Analysis	Thursday 15-06-2023	
	83042	Actuarial statistics		
<b>Choose Any One of the Following</b>				
<b>XVIII</b>	83043	Biostatistics	Saturday 16-06-2023	
	83044	Econometrics		
<b>Choose Any One of the Following</b>				
<b>XIX</b>	83039	Optimization techniques	Tuesday 20-06-2023	
	83175	Circular Data analysis		
<b>Choose Any One of the Following</b>				
<b>XX</b>	83045	Spatial data analysis	Thursday 22-06-2023	
	83046	Statistical quality control		

**M.Sc. Applied Statistics & Informatics [NEP-2020]****( Course Code -2353)**

<b>Branch Code- Applied Statistics &amp; Informatics [ NEP-2020]</b>				<b>From Oct--2022</b>
<b>Part I :- Sem.-I</b>				
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>Evening</b>
<b>I</b>	87777	Fundamentals of Computer Programming	Monday 19-06-2023	02:30 P.M.  To  05:30 P.M
<b>II</b>	87778	Linear Algebra	Wednesday 21-06-2023	
<b>III</b>	87779	Distribution Theory	Tuesday 27-06-2023	
<b>IV</b>	87780	Estimation Theory	Friday, 30-06-2023	
<b>V</b>	87781	Statistical Computing	Monday 03-07-2023	



**M.Sc. Applied Statistics & Informatics [ C.B.C.S.]****( Course Code- 2341)**

<b>Branch Code- Applied Statistics &amp; Informatics ( C.B.C.S.)</b>				<b>From Oct--2021</b>
Part I :- Sem.-I				
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>Evening</b>
I	83404	Fundamentals of Computer Programming	Monday 19-06-2023	02:30 P.M. To 05:30 P.M
II	83405	Linear Algebra	Wednesday 21-06-2023	
III	83406	Distribution Theory	Tuesday 27-06-2023	
IV	83407	Estimation Theory	Friday 30-06-2023	
V	83408	Statistical Computing	Monday 03-07-2023	

**M.Sc. Applied Statistics & Informatics [ C.B.C.S.]****( Course Code -205)**

<b>Branch Code- Applied Statistics &amp; Informatics ( C.B.C.S.)</b>				<b>From Oct--2018</b>
Part I :- Sem.-I				
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>Evening</b>
I	74974	Fundamentals of Computer Programming	Monday 19-06-2023	02:30 P.M. To 05:30 P.M
II	74975	Linear Algebra	Wednesday 21-06-2023	
III	74976	Distribution Theory	Tuesday 27-06-2023	
IV	74977	Estimation Theory	Friday 30-06-2023	
V	74978	Statistical Computing	Monday 03-07-2023	

**M.Sc. Applied Statistics & Informatics [ NEP-2020]****( Course Code -2353)**

<b>Branch Code - APPLIED STATISTICS &amp;INFORMATICS (C.B.C.S.) [ NEP-2020]</b>				
<b>From March--2023</b>				
Part I :- Sem.-II				
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>Evening</b>
V	90086	Advanced Data Structure with C++	Tuesday 20-06-2023	02:30 P.M. To 05:30 P.M
VI	90087	Theory of Testing of Hypothesis	Thursday 22-06-2023	
VII	90088	Linear Models and Regression Analysis	Monday, 26-06-2023	
VIII	90089	Design and Analysis of Experiments	Thursday 29-06-2021	
IX	90090	Sampling Theory and Official Statistics	Saturday 01-07-2023	

**M.Sc. Applied Statistics & Informatics [ C.B.C.S. ] (Course Code- 2341)**

<b>Branch Code - APPLIED STATISTICS &amp; INFORMATICS (C.B.C.S.) New From April-2022</b>				
<b>Part I :- Sem.-II</b>				
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>Evening</b>
V	84521	Advanced Data Structure with C++	Tuesday 20-06-2023	02:30 P.M. To 05:30 P.M
VI	84522	Theory of Testing of Hypothesis	Thursday 22-06-2023	
VII	84523	Linear Models and Regression Analysis	Monday 26-06-2023	
VIII	84524	Design and Analysis of Experiments	Thursday 29-06-2021	
IX	84525	Sampling Theory and Official Statistics	Saturday 01-07-2023	

**M.Sc. Applied Statistics & Informatics [ C.B.C.S. ] ( Course Code- 205)**

<b>Branch Code - APPLIED STATISTICS &amp; INFORMATICS ( C.B.C.S.) New From April-2019</b>				
<b>Part I :- Sem.-II</b>				
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>Evening</b>
V	79516	Advanced Data Structure with C++	Tuesday 20-06-2023	02:30 P.M. To 05:30 P.M
VI	79517	Theory of Testing of Hypothesis	Thursday 22-06-2023	
VII	79518	Linear Models and Regression Analysis	Monday 26-06-2023	
VIII	79519	Design and Analysis of Experiments	Thursday 29-06-2021	
IX	79520	Sampling Theory and Official Statistics	Saturday 01-07-2023	

**M.Sc. Applied Statistics & Informatics [ C.B.C.S. ] ( Course Code -2341)**

<b>Branch Code - APPLIED STATISTICS&amp; INFORMATICS ( C.B.C.S.)</b>					
<b>Part II :- Sem.-III</b>					
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>Morning</b>	
X	85296	Data Base Management System	Monday 12-06-2023	10:30 A.M. To 01:30 P.M	
<b>Choose Any One of the Following</b>					
XI	85300	Stochastic Processes	Wednesday 14-06-2023		
	85301	Functional Data Analysis			
<b>Choose Any One of the Following</b>					
XII	85302	Data Mining	Saturday 17-06-2023		
	85303	Artificial Intelligence			
<b>Choose Any One of the Following</b>					
XIII	85304	Time Series Analysis	Monday 19-06-2023		
	85305	Statistical Ecology			
<b>Choose Any One of the Following</b>					
XIV	85297	Multivariate Analysis	Wednesday 21-06-2023		
	85298	Bayesian Inference			

<b>Branch Code - APPLIED STATISTICS&amp; INFORMATICS ( C.B.C.S.)</b>					
<b>Part II :- Sem.-III</b>					
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>Morning</b>	
X	80591	Data Base Management System	Monday 12-06-2023	10:30 A.M. To 01:30 P.M	
<b>Choose Any One of the Following</b>					
XI	80594	Stochastic Processes	Wednesday 14-06-2023		
	80595	Functional Data Analysis			
<b>Choose Any One of the Following</b>					
XII	80596	Data Mining	Saturday 17-06-2023		
	80597	Artificial Intelligence			
<b>Choose Any One of the Following</b>					
XIII	80598	Time Series Analysis	Monday 19-06-2023		
	80599	Statistical Ecology			
<b>Choose Any One of the Following</b>					
XIV	80592	Multivariate Analysis	Wednesday 21-06-2023		
	80593	Bayesian Inference			

<b>Branch Code -APPLIED STATISTICS &amp; INFORMATICS ( C.B.C.S.) From March-2023</b>					
<b>Part II :- Sem.-IV</b>					
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>Morning</b>	
XVI	86594	Generalized Linear Models	Tuesday 13-06-2023	10:30 A.M. To 01:30 P.M	
<b>Choose Any One of the Following</b>					
XVII	86599	Survival Analysis	Thursday 15-06-2023		
	86600	Actuarial statistics			
<b>Choose Any One of the Following</b>					
XVIII	86602	Biostatistics	Saturday 16-06-2023		
	86601	Econometrics			
<b>Choose Any One of the Following</b>					
XIX	86595	Python for Data Science	Tuesday 20-06-2023		
<b>Choose Any One of the Following</b>					
XX	86603	Spatial data analysis	Thursday 22-06-2023		
	86604	Statistical quality control			

**M.Sc. Applied Statistics & Informatics [ C.B.C.S. ] (Course Code -205)**

<b>Branch Code - APPLIED STATISTICS &amp; INFORMATICS ( C.B.C.S.)</b>					
<b>From April-2021</b>					
<b>Part II :- Sem.-IV</b>					
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>Morning</b>	
<b>XVI</b>	82941	Generalized Linear Models	Tuesday 13-06-2023	10:30 A.M. To 01:30 P.M	
<b>Choose Any One of the Following</b>					
<b>XVII</b>	82942	Survival Analysis	Thursday 15-06-2023		
	83042	Actuarial statistics			
<b>Choose Any One of the Following</b>					
<b>XVIII</b>	83238	Biostatistics	Saturday 16-06-2023		
	82946	Econometrics			
<b>Choose Any One of the Following</b>					
<b>XIX</b>	82939	Python for Data Science	Tuesday 20-06-2023		
<b>Choose Any One of the Following</b>					
<b>XX</b>	83045	Spatial data analysis	Thursday 22-06-2023		
	82943	Statistical quality control			

**Note:-** In case of any Query found in respective Question Paper, student shall communicate the same through Principal / Senior Supervisor within 07 days from the date of concerned Question paper to, Deputy Registrar, Appointment Section, Room No. 205 Exam Building No. 1 Shivaji Univeristy, Kolhapur- 416004.

**Vidyanagar,  
Kolhapur – 416 004  
Date :- 22 May 2023**

Sd/-  
**Dr. Ajitsinh. N. Jadhav**  
**DIRECTOR**  
**BOARD OF EXAMINATIONS AND EVALUATION**

