



SHIVAJI UNIVERSITY KOLHAPUR

Revised Final Exam Programme Circular No. 2063 Summer Session

Online/Offline Exam of March-2020

Faculty : Science and Technology

Course: M.Sc. Examination Regular Pattern

Part -II Sem-IV Examination April/May 2020 to be held Oct-2020

INSTRUCTIONS: Common instruction as per Circular No. SU/Appointment /RVC/354 dtd 21st September 2020 , and also available in University website www.unishivaji.ac.in

The Centers and Places of the Examination will be as under.

The offline examination place will held at

Sr. No	Center	College Code	Exam	Places
1	KOLHAPUR	547	M.sc Physics	Department of Physics, Shivaji University KOLHAPUR.
		549	M.A./M.Sc. Mathematics	Department of Mathematics, Shivaji University KOLHAPUR.
		573	M.A./M.Sc. Mathematics	Department of Distance Education, KOLHAPUR
		550	M.Sc Statistics & Applied Statistics and Information	Department of Statistics, Shivaji University KOLHAPUR
		551	M.Sc Environmental Science	Department of Enviromental Science, KOLHAPUR
		571	M.Sc Food Science & Technology	Department of Food Science & Technology, KOLHAPUR
		540	M.A./M.Sc Geography	Department of Geography, Shivaji University KOLHAPUR.
		1	M.Sc. Physics, M.A./M.Sc. Mathematics	Vivekanand College, KOLHAPUR
		50	M.A./M.Sc. Mathematics	Yashwantrao Chavan Warna Mahavidyalaya, WARNANAGAR
		48	M.Sc Physics	Devchand College, ARJUNNAGAR
2	URUN-ISLAMPUR	90	M.A./M.Sc. Mathematics	Karmveer Bhaurao Patil College, URUN – ISLAMPUR.
		444	M.Sc Alochol Technology & Sugar Technology	Rajarambapu College of Sugar Technology, URUN-ISLAMPUR
		90	M.A./M.Sc. Mathematics	Karmveer Bhaurao Patil College, URUN – ISLAMPUR.
3	SANGLI	78	M.Sc. Physics	Smt. Kasturabi Walchand College of Arts & Science, SANGLI.
		80	M.Sc. Physics, M.A./M.Sc. Mathematics	Willingdon College, SANGLI
		94	M.Sc. Physics	Raje Ramrao Mahavidyalaya, JATH
		92	M.A./M. Sc. Geography, Statistics	Padm. Bhushan Dr. Vasantraodada Patil Mahavidyalaya, TASGAON
		84	M.A./M. Sc. Geography	Miraj Mahavidyalaya, Miraj
4	KARAD	156	M.A./M. Sc. Geography, Industrial Microbiology, Statistics, M.A./M. Sc.. Mathematics,	Sadguru Gadage Maharaj College, KARAD
		153	M.A./M. Sc. Geography	Mahila Mahavidyalaya, KARAD
5	SATARA	259	M.A./M.Sc Geography	Chhatrapati Shivaji College, SATARA
		149	M.sc Physics, Statistics, M.A./M.Sc. Mathematics	Yashwantrao Chavan Institute of Science, SATARA.
		173	M.A./M.Sc Geography	Raja Shripatrao Bhagwantrao Mahavidyalaya, AUNDH
		162	M.A./M.Sc Geography	D.P. Bhosale College, Koregaon., KOREGAON

2. The Online/Offline examination schedule will be conducted in following order:

M.Sc. Physics [C.B.C.S.] Old

Exam Center & College Code :-

(Kolhapur-547 & 1, Urun-Islampur-88, Sangli-78 & 94, Satara-149)

Branch Code- PHYSICS (C.B.C.S.)			From-(Oct-2015)	
Part II :- Semester IV				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
XIII	65031	Experimental Techniques	Thursday- 29.10.2020	
XIV Choice Base Paper (Any One Paper)	PAPER NO. XIV:- Choose Any One Of The Following Paper		Saturday- 31.10.2020	
	65141	Electronic Devices		
	65062	Computational Methods And Programming		
	65063	Special Materials		
Paper No. XV – Choose Any One of The Following	65032	Energy Science –III (Renewable Energy Resources)	Monday- 02.11.2020	11.00.AM To 12.00.noon
	65033	Material Science – III (Mechanical Properties and Liquid Crystals)		
	65035	Modern Optics – III (Laser and its Applications)		
	65036	Space Science – III (Solar Wind and its Interaction with Planets and Satellites)		
	65034	Solid State Physics – III (Physical Properties of Solids)		
	65037	Theoretical Physics –III (Interaction of Electromagnetic Waves with Electron Beams and Plasmas)		
Paper No. XVI – Choose Any One of The Following Subject	65039	Energy Science – IV (Energy Conversion Devices)	Tuesday- 03.11.2020	
	65040	Material Science – IV (Special Materials)		
	65042	Modern Optics – IV (Holography)		
	65043	Space Science – IV (Solar terrestrial Physics & Space Applications)		
	65041 (Old)	Solid State Physics – IV (Semiconductor Physics)		
	65038	Theoretical Physics –IV (Quantum Field Theory-2)		
	66765 (New)	Solid State Physics-IV (Energy Conversion & Storage Devices)		

M.Sc. Physics [C.B.C.S.] New

Exam Center & College Code :-

(Kolhapur-547 & 1, Urun-Islampur-88, Sangli-78 & 94, Satara-149)

Branch Code - PHYSICS (C.B.C.S.)			From-(March-2020)		
Part II :- Semester IV					
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME	
X	79340	Experimental Techniques	Thursday- 29.10.2020	11.00.AM To 12.00.noon	
Any one Paper					
	68287	Modern Analytical Techniques	Saturday- 31.10.2020		
	79343	Electronic Devices			
	79341	Numerical Methods And Programming			
	79342	MATI AB Programming and Applications			
	79515	Media And Society			
Elective Papers (Any Two Paper)					
	79344	Renewable Energy Resources	Monday- 02.11.2020		
	79346	Special Materials			
	79348	Molecular Spectroscopy			
	79350	Magnetospheric Plasma Dynamics			
	79352	Physical Properties of Solids			
	79354	Interaction of Electromagnetic waves with Electron Beams & Plasmas			
	79345	Energy Conversion Devices	Tuesday- 03.11.2020		
	79347	Nanostructured Materials			
	79349	Holography and Its Applications			
	79351	Ionospheric and Space Weather			
	79353	Energy Conversion and Storage Devices			
	79355	Introduction to Quantum Field Theory			

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

Exam Center & College Code :- (Kolhapur-550, Sangli-92 & Satara-149)

Branch Code - STATISTICS (C.B.C.S.)			From April-2018		
Part II :- Sem.-IV					
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME	
XVI	71107	Optimization Techniques(OT)	Thursday- 29.10.2020	01.30.PM To 02.30PM	
Paper No. XVII & XX :- Choose Any Four of the Following Papers					
	71109	Generalized Linear Models	Saturday- 31.10.2020		
	71110	Survival Analysis(SA)	Monday- 02.11.2020		
	71111	Data Mining (DM)	Tuesday- 03.11.2020		
	71112	Statistical Quality Control	Wednesday- 04.11.2020		
	71113	Time Series Analysis (TSA)	Thursday- 05.11.2020		

M.Sc. Applied Statistics & Informatics [C.B.C.S.] Old
Exam Center & College Code :- (Kolhapur-550)

Branch Code - APPLIED STATISTICS & INFORMATICS (C.B.C.S.) Old				From April-2015
Part II :- Sem.-IV				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
XVI	65070	Optimization Techniques	Thursday- 29.10.2020	01.30.PM To 02.30PM
XVII	65071	Discrete Data Analysis	Saturday- 31.10.2020	
XX	65077	Data Warehousing and Data Mining	Tuesday- 03.11.2020	
XIX	65075	Industrial Statistics	Wednesday- 04.11.2020	
XVIII	65073	Time Series Analysis	Thursday- 05.11.2020	

M.Sc. APPLIED STATISTICS & INFORMATICS (C.B.C.S.) New
Exam Center & College Code :- (Kolhapur-550)

Branch Code - APPLIED STATISTICS & INFORMATICS (C.B.C.S.)				From April-2020	
Part II :- Sem.-IV					
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME	
	79378	Optimization Techniques	Thursday- 29.10.2020	From 01.30 PM To 02.30 PM	
	79379	Python for Data Science	Monday- 02.11.2020		
Choose Any Three of the Following Papers					
	79381	Generalized Linear Models	Saturday- 31.10.2020		
	79382	Survival Analysis	Monday- 02.11.2020		
	79387	Data Mining	Tuesday- 03.11.2020		
	79383	Statistical Quality Control	Wednesday- 04.11.2020		
	79384	Time Series Analysis	Thursday- 05.11.2020		
	79385	Statistical Ecology	Friday 06.11.2020		
	79386	Econometrics	Saturday 07.11.2020		
	79388	Bioinformatics	Monday 09.11.2020		

M.Sc. Environmental Science (C.B.C.S.)

Exam Center & College Code :- (Kolhapur-551)

Branch Code - ENVIRONMENTAL SCIENCE (C.B.C.S.)				From April-2015
Part II :- Sem.-IV				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
XIII	65019	Socio- Economic Aspects of Environment	Thursday – 29.10.2020	From 11.00.AM To 12.00.noon
XIV	65020	Environmental Hazards and Disaster Management	Saturday- 31.10.2020	
XV	65021	Environmental Planning and Management	Monday- 02.11.2020	
XVI	65022	Environmental Biotechnology	Tuesday – 03.11.2020	

M.Sc. Food Science & Technology [C.B.C.S.]

Exam Center & College Code :- (Kolhapur-571)

Branch Code - FOOD SCIENCE & TECHNOLOGY (C.B.C.S.)				From April-2015
Part II :- Sem.-IV				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
XIII	65134	Food Packaging	Thursday – 29.10.2020	From 11.00.AM To 12.00.noon
XIV	65135	Technology of Oilseeds & Fats	Saturday- 31.10.2020	
XV	65136	Food Biotechnology	Monday- 02.11.2020	
XVI	65137	Post-Harvest Technology of Plantation Crops	Tuesday – 03.11.2020	

M.Sc Alcohol Technology (C.B.C.S.)

Exam Center & College Code :- (Urun Islampur-444)

Branch Code - Alcohol Technology (C.B.C.S.)				<u>(From Oct-2018)</u>
Part II - Sem IV				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
I	68644	Alcohol & Beverages production from grain and other sources	Thursday- 29.10.2020	From 11.00.AM To 12.00.noon
II	68645	Production of ENA, ETHNOL & IMFL	Saturday- 31.10.2020	
III	68646	Chemical Engineering	Monday- 02.11.2020	
Paper No.IV	Paper No. IV :- Choose Any One of the Following Papers			
	68647	General Engineering	Tuesday – 03.11.2020	
	68648	Pollution Prevention & Control		
68649	Business management & marketing			

M.Sc. Sugar Technology (C.B.C.S.)

Exam Center & College Code :- (Urun Islampur-444)

Branch Code - Sugar Technology (C.B.C.S.)				(From Oct-2018)
Part II - Sem IV				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
I	68628	Sugar Processing-Finishing	Thursday- 29.10.2020	From 11.00.AM To 12.00.noon
II	68629	Allid Sugar Manufacturing	Saturday- 31.10.2020	
III	68630	Chemical Engineering-Unit Operation	Monday- 02.11.2020	
Paper No. IV	Paper No. IV :- Choose Any One of the Following Papers			
	68631	Energy Conversion and Cogeneration	Tuesday – 03.11.2020	
	68632	Pollution Prevention and Control		
	68633	Water Management and Zero Discharge		

M. Sc. Industrial Microbiology (C.B.C.S.)

Exam Center & College Code :- (Karad-156)

Branch Code - Industrial Microbiology (C.B.C.S.)				(From April-2019)
Part II - Sem IV				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
I	71626	Fermentation Technology-II	Thursday- 29.10.2020	From 11.00.AM To 12.00.noon
II	71627	Food and Dairy Micrology	Saturday- 31.10.2020	
III	71628	Quality Assurance and Industrial Laws	Monday- 02.11.2020	
IV	71629	Industrial Waste Management	Tuesday – 03.11.2020	

M.A./M.Sc. Geography [C.B.C.S.]

Exam Center & College Code :-

(Kolhapur-540, Sangli-92, Satara-259,162 & 173, Karad-153 & 156)

Branch Code - GEOGRAPHY (C.B.C.S.) Old				From April-2015
Part II :- Sem.-IV				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
XIII	65005	Development of Geographical Thought	Thursday- 29.10.2020	01.30.PM To 02.30PM
XIV	65006	Geohydrology & Oceanography	Saturday- 31.10.2020	
XV	Paper No.:- XI – Choose Any One of the Following			
	65009	Agricultural Geography	Monday- 02.11.2020	
	65010	Settlement Geography		
XIV	Paper No. XII :- Choose Any One Of The Following Papers			
	65011	Biogeography	Tuesday – 03.11.2020	
	65012	Medical Geography		

M.A./M.Sc. Geography [C.B.C.S.]

Exam Center & College Code :-

(Kolhapur-540, Sangli-92, Satara-259,162 & 173, Karad-153 & 156)

Branch Code - GEOGRAPHY (C.B.C.S.) New

From April-2020

		Part II :- Sem.-IV		
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
	79489	Development of Modern Geographical Thought	Thursday-29.10.2020	01.30.PM To 02.30PM
	79490	Regional Planning and Development	Saturday-31.10.2020	
Choose Any One Of The Following Papers				
	79491	Fundamentals of Geographical Information System and Introduction	Monday-02.11.2020	
	79492	Fundamental of Soil Geography		
Choose Any One Of The Following Papers				
	79493	Tourism Geography	Tuesday – 03.11.2020	
	79494	Agricultural Geography		

M.Sc. Mathematics (C.B.C.S.) old

Exam Center & College Code :-

(Kolhapur-549,573,1 & 50 Sangli-80, Karad-156, Urun Islampur-90, Satara-149,)

Branch Code - MATHEMATICS (C.B.C.S.)		(From April-2015)		
		Part II :- SEM-IV		
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
XVI	69567	Field Theory	Thursday – 29.10.2020	From 01.30.PM To 02.30 PM
	63326	Field Theory		
XVII	63319	Partial Differential Equations	Saturday-31.10.2020	
Paper No. – XVIII, XIX & XX – Choose any Three of the following				
	63335	Fractional Differential Equations	Monday-02.11.2020	
	63330	General Relativity II	Tuesday-03/11/2020	
	63320	Combinatorics	Wednesday-04.11.2020	
	63324	Lattice Theory –II	Thursday-05.11.2020	
	63328	Fuzzy Relation And Logic	Friday-06.11.2020	
	63325	Riemannian Geometry -II	Saturday-07.11.2020	
	63329	Computational Fluid Dynamics	Monday-09.11.2020	
	63323	Operations Research –II	Tuesday-10.11.2020	
	63334	Algebraic Number Theory	Wednesday – 11.11.2020	
	63327	Wavelet Analysis		
	63331	Dynamical Systems- II		
	63322	Commutative Algebra – II		

M.Sc. Mathematics (C.B.C.S.) New

Exam Center & College Code :-

(Kolhapur-549,573,1 & 50 Sangli-80, Karad-156, Urun Islampur-90, Satara-149,)

Branch Code - MATHEMATICS (C.B.C.S.)		(From April-2020)			
Part II :- SEM-IV					
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME	
XVI	<u>79322</u>	Advance Discrete Mathematics	Saturday- 31.10.2020	From 01.30 PM To 02.30 PM	
XVII	<u>79321</u>	Integral Equation	Thursday - 29.10.2020		
Paper No. – XVIII, XIX & XX – Choose any Three of the following					
	<u>79476</u>	Dynamics Equations on Time Scales	Monday- 02.11.2020		
	79327	Fractional Differential Equations			
	79328	General Relativity-II	Tuesday- 03/11/2020		
	<u>79337</u>	Space Dynamics-II	Wednesday- 04.11.2020		
	79329	Lattice Theory-II			
	<u>79325</u>	Fuzzy Mathematics-II	Thursday- 05.11.2020		
	<u>79331</u>	Dynamical Systems- II	Friday- 06.11.2020		
	79326	Computational Fluid Dynamics	Saturday 07.11.2020		
	<u>79324</u>	Operations Research –II	Monday- 09.11.2020		
	<u>79323</u>	Algebraic Number Theory	Tuesday- 10.11.2020		
	79330	Wavelet Analysis			
	79335	Theory of Distributions	Wednesday 11.11.2020		
	79333	Analysis on Manifolds			
	79475	Automata Theory			
	79332	Graph Theory-II	Thursday- 12.11.2020		
	79336	Commutative Algebra-II			
	79334	Measure and Integration			

**Vidyanagar,
Kolhapur – 416 004
Date :- 23 October 2020**

**Sd/-
Shri. G R Palse
I/c DIRECTOR
BOARD OF EXAMINATIONS AND EVALUATION**