

#### SHIVAJI UNIVERSITY KOLHAPUR

Final Exam Revised Programme Circular No. 1085 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/301,304, 305 Dated 13<sup>th</sup> ,14<sup>th</sup> & 16<sup>th</sup> September 2020, and also available in University website www.unishivaji.ac.in

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

1- The Offline Examination Place will be held at:

Sr.	Center	College	Exam	Places
No		Code		
1		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	Department of Statistics, Shivaji
			Statistics and Information	University KOLHAPUR
		551	M.Sc Environmental Science	Department of Environmental Science,
	KOLHAPUR	571	MC-F1C-:	KOLHAPUR
		571	M.Sc Food Science & Technology	Department of Food Science & Technology, KOLHAPUR
		540	M.A./M.Sc Geography	Department of Geography, Shivaji
			in in in its desgraphy	University KOLHAPUR.
		1	M.Sc. Physics, M.A./M.Sc.	Vivekanand College, KOLHAPUR
			Mathematics	_
		50	M.A./M.Sc. Mathematics	Yashawantrao Chavan Warna
				Mahavidyalaya, WARNANAGAR
		48	M.Sc Physics	Devchand College, ARJUNNAGAR
		90	M.A./M.Sc. Mathematics	Karmveer Bhaurao Patil College,
2	URUN-	444	M.Sc Alochol Technology &	URUN – ISLAMPUR. Rajarambapu College of Sugar
	<b>ISLAMPUR</b>	444	Sugar Technology	Technology, URUN-ISLAMPUR
		90	M.A./M.Sc. Mathematics	Karmveer Bhaurao Patil College,
			THE ENTINES OF THE STATE OF THE	URUN – ISLAMPUR.
		78	M.Sc. Physics	Smt. Kasturabi Walchand College of
3	CANCLI			Arts & Science, SANGLI.
3	SANGLI	80	M.Sc. Physics, M.A./M.Sc.	Willingdon College, SANGLI
		94	Mathematics M.Sc. Physics	Daia Damuaa Mahavidyalaya IATH
		92	M.A./M. Sc. Geography,	Raje Ramrao Mahavidyalaya, JATH Padm. Bhushan Dr. Vasantraodada
			Statistics	Patil Mahavidyalaya, TASGAON
		84	M.A./M. Sc. Geography	Miraj Mahavidyalaya, Miraj
			0.1.5	· · · · ·
		156	M.A./M. Sc. Geography,	Sadguru Gadage Maharaj College,
4	KARAD		Industrial Microbiology,	KARAD
7	IM IIM ID		Statistics, M.A./M. Sc Mathematics,	
		153	M.A./M. Sc. Geography	Mahila Mahavidyalaya,KARAD
		259	M.A./M.Sc Geography	Chhatrapati Shivaji College, SATARA
_		149	M.sc Physics, Statistics,	Yashwantrao Chavan Institute of
5			M.A./M.Sc. Mathematics	Science, SATARA.
	SATARA	173	M.A./M.Sc Geography	Raja Shripatrao Bhagawantrao
		1(2	M A /M C C 1	Mahavidyalaya, AUNDH
		162	M.A./M.Sc Geography	D.P. Bhosale College, Koregaon.,
			- 1 -	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 Co	ode - PHYSICS (C.B.O	C.S.) F	rom-(Oct-
2015)				Г
	T = : ===	Part II :- Semester IV		
PAPER	PAPER	PAPER NAME	DAY & DATE	PAPER TIME
NO. XIII	<b>CODE</b> 65031	Experimental Techniques		
		1	Saturday - 24.10.2020	
XIV	PAPER NO.     Following Pap	XIV:- Choose Any One Of The		
Choice Base	65141	Electronic Devices	Wadnagday 21 10 2020	
Paper Paper	65062	Computational Methods And	Wednesday-21.10.2020	
(Any One	03002	Programming		
Paper)	65063	Special Materials		
	68287			
Paper No.	65032	Modern Analytical Techniques		
XV –	03032	Energy Science –III (Renewable Energy		
Choose		Resources)		
Any One	65033	Material Science – III		
of The	03033	(Mechanical Properties and		
Following		Liquid Crystals)		
	65035	Modern Optics – III	Thursday- 22.10.2020	
	03033	( Laser and its Applications)	111415441 22:10:2020	
	65036	Space Science – III ( Solar		
	02020	Wind and its Interaction with		
		Planets and Satellites)		01 20 DM T
	65034	Solid State Physics – III		01.30.PM To
		(Physical Properties of Solids)		02.30PM
	65037	Theoretical Physics –III		
		(Interaction of		
		Electromagnetic Waves with		
		Electron Beams and Plasmas)		
Paper No.	65039	Energy Science – IV		
XVI –		(Energy Conversion Devices)		
Choose	65040	Material Science – IV		
Any One		(Special Materials)		
of The	65042	Modern Optics – IV	Friday - 23.10.2020	
Following Subject		(Holography)		
Subject	65043	Space Science – IV (Solar		
		terrestrial Physics & Space		
	5.5044(0.14)	Applications)		
	65041(Old)	Solid State Physics – IV		
	65020	(Semiconductor Physics)		
	65038	Theoretical Physics –IV		
	((7(50)	(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-2	020)
		Part II :- Semester IV		
PAPER	PAPER	PAPER NAME	DAY & DATE	PAPER TIME
NO.	CODE			
X	79340	Experimental Techniques	Saturday - 24.10.2020	
		Any one Paper		
	68287	Modern Analytical Techniques		
	79343	Electronic Devices	Wednesday-21.10.2020	
	79341	Numerical Methods And		
		Programming		
	79342	MATI AB Programming and		
		Applications		
	79515	Media And Society		
		ppers (Any Four Paper)		
	79344	Renewable Energy Resources	Thursday- 22.10.2020	01.30.PM
	79345	Energy Conversion Devices	Friday - 23.10.2020	T.
	79346	Special Materials	Thursday- 22.10.2020	То
	79347	Nanostructured Materials	Friday - 23.10.2020	02.30PM
	79348	Molecular Spectroscopy	Thursday- 22.10.2020	0200
	79349	Holography and Its Applications	Friday - 23.10.2020	
	79350	Magnetospheric Plasma Dynamics	Thursday- 22.10.2020	
	79351	Ionospheric and Space Weather	Friday - 23.10.2020	
	79352	Physical Properties of Solids	Thursday- 22.10.2020	
	79353	Energy Conversion and Storage Devices	Friday - 23.10.2020	
	79354	Interaction of Electromagnetic waves with Electron Beams & Plasmas	Thursday- 22.10.2020	
	79355	Introduction to Quantum Field Theory	Friday - 23.10.2020	

# M.Sc. Statistics [ C.B.C.S. ] <u>Exam Center & College Code :-</u> (<u>Kolhapur-550</u>, <u>Sangli-92</u> & <u>Satara-149</u>

В	Branch Code - STATISTICS ( C.B.C.S.) Fr				
		Part II :- SemIV			
PAPER	PAPER	PAPER NAME	DAY & DATE	PAPER TIME	
NO.	CODE				
XVI	71107	Optimization Techniques (OT)	Monday- 02.11.2020		
	Paper No. XVII & XX :- Choose Any Four of the Following Papers				
	71109	Generalized Linear Models	Wednesday- 21.10.2020	То	
	71110	Survival Analysis(SA)	Thursday- 22.10.2020	02.30PM	
	71111	Data Mining (DM)	Friday - 23.10.2020		
	71112	Statistical Quality Control	Saturday- 24.10.2020		
	71113	Time Series Analysis (TSA)	Monday- 26.10.2020		

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

<b>Branch C</b>	Branch Code - APPLIED STATISTICS & INFORMATICS (C.B.C.S.) From April-2015					
Part II :- SemIV						
PAPER	PAPER	PAPER NAME	DAY & DATE	PAPER TIME		
NO.	CODE					
XVI	65070	Optimization Techniques	Monday- 02.11.2020			
XVII	65071	Discrete Data Analysis	Wednesday- 21.10.2020	01.30.PM To		
XX	65077	Data Warehousing and Data Mining	Friday - 23.10.2020	02.30PM		
XVIII	65073	Time Series Analysis	Monday- 26.10.2020			
XIX	65075	Industrial Statistics	Saturday- 24.10.2020			

#### M.Sc. APPLIED STATISTICS & INFORMATICS (C.B.C.S.) New

#### Exam Center & College Code :- (Kolhapur-550)

Branch April-202		PPLIED STATISTICS & INFO	DRMATICS ( C.B.C.S.)	From
•		Part II :- SemIV		
PAPER	PAPER	PAPER NAME	DAY & DATE	PAPER TIME
NO.	CODE			
	79378	Optimization Techniques	Monday- 02.11.2020	
	79379	Python for Data Science	Thursday- 22.10.2020	01 20 DM
	(	Choose Any Three of the Follow	ving Papers	01.30 PM To
	79381	Generalized Linear Models	Wednesday-21.10.2020	02.30 PM
	79382	Survival Analysis	Thursday- 22.10.2020	
	79387	Data Mining	Friday - 23.10.2020	
	79384	Time Series Analysis	Monday- 26.10.2020	
	79383	Statistical Quality Control	Saturday- 24.10.2020	
	79385	Statistical Ecology	Wednesday-28.10.2020	
	79386	Econometrics	Thursday- 29.10.2020	
	79388	Bioinformatics	Saturday - 31.10.2020	

# M.Sc. Environmental Science (C.B.C.S.) <u>Exam Center & College Code :- (Kolhapur-551)</u>

Branch Code - ENVIRONMENTAL SCIENCE (C.B.C.S.) From April-2015					
		Part II :- SemIV			
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME	
XIII	65019	Socio- Economic Aspects of Environment	Saturday - 24.10.2020	From 04.00 PM To	
XIV	65020	Environmental Hazards and Disaster Management	Monday - 26.10.2020	05.00PM	
XV	65021	Environmental Planning and Management	Tuesday- 27.10.2020		
XVI	65022	Environmental Biotechnology	Wednesday-28.10.2020		

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

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

From Api	Branch Code - FOOD SCIENCE & TECHNOLOGY (C.B.C.S.) From April-2015					
		Part II :- SemIV				
PAPER	<b>PAPER</b>	PAPER NAME	DAY & DATE	PAPER TIME		
NO.	CODE					
XIII	65134	Food Packaging	Thursday- 22.10.2020	From 04.00 PM		
XIV	65135	Technology of Oilseeds & Fats	Saturday - 24.10.2020	To To		
XV	65136	Food Biotechnology	Friday - 23.10.2020	05.00 PM		
XVI	65137	Post-Harvest Technology of	Wednesday-21.10.2020			
		Plantation Crops				

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

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

Branch	Code - Alco	ohol Technology (C.B.C.S.)	<u>(</u> F	From Oct-2018)
		Part II - Sem IV		
PAPER	PAPER	PAPER NAME	DAY & DATE	PAPER TIME
NO.	CODE			
I	68644	Alcohol & Beverages production from grain and other sources	Friday - 23.10.2020	
II	68645	Production of ENA, ETHNOL &IMFL	Saturday - 24.10.2020	From 04.00.PM To
III	68646	Chemical Engineering	Wednesday-	05.00 PM
			21.10.2020	
Paper	Paper No.	IV :- Choose Any One of the Fol	lowing Papers	
No.IV	68647	General Engineering	Thursday- 22.10.2020	
	68648	Pollution Prevention & Control	111u1suay- 22.10.2020	
	68649	Business management &		
		marketing		

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

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

Branch	Code - Suga	ar Technology (C.B.C.S.)		From Oct-2018)
		Part II - Sem IV		
PAPER	PAPER	PAPER NAME	DAY & DATE	PAPER TIME
NO.	CODE			
I	68628	Sugar Processing-Finishing	Friday - 23.10.2020	
II	68629	Allid Sugar Manufacturing	Saturday - 24.10.2020	From 04.00.PM
III	68630	Chemical Engineering-Unit	Wednesday-	To
		Operation	21.10.2020	05.00 PM
Paper	Paper No.I	V:- Choose Any One of the Follow	lowing Papers	
No.IV	68631	Energy Conversion and Cogeneration	Thursday- 22.10.2020	
	68632	Pollution Preventation and Control	,	
	68633	Water Management and Zero Discharge		

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

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

Branch Co	ode - Indust	rial Microbiology (C.B.C.S.)	<u>(</u> F)	rom April-2019 <u>)</u>
		Part II - Sem IV		
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
I	71626	Fermentation Technology-II	Saturday- 23.10.2020	
II	71627	Food and Dairy Micrology	Friday - 24.10.2020	From 04.00.PM
III	71628	Quality Assurance and Industrial Laws	Wednesday-21.10.2020	To 05.00 PM
IV	71629	Industrial Waste Management	Thursday- 22.10.2020	

# M.A./M.Sc. Geography [C.B.C.S.] Exam Center & College Code :- (Kolhapur-540, Sangli-92, Satara-259,162 & 173, Karad-153 & 156)

В	ranch Cod	le - GEOGRAPHY (C.B.C.S.) Old	From April-2015	
		Part II :- SemIV		
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
XIII	65005	Development of Geographical Thought	Wednesday-28.10.2020	
XIV	65006	Geohydrology & Oceanography	Wednesday-21/10/2020	01.30.PM
	Paper No	То		
XV	65009	Agricultural Geography		
	65010	Settlement Geography	Thursday-22/10/2020	02.30PM
XIV	Paper No			
	65011	Biogeography		
	65012	Medical Geography	Friday-23/10/2020	

#### 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.) New From April-2020

Branch Code - GEOGRAPHY (C.B.C.S.) New			From A	From April-2020	
		Part II :- SemIV			
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME	
110.	79489	Development of Modern Geographical	Wednesday-		
		Thought	28.10.2020		
	79490	Regional Planning and Development	Wednesday-	01.30.PM	
			21/10/2020	То	
	79497	Dissertation/Project (Based on field work)	Thursday-22/10/2020	02.30PM	
	79498	Study Tour Report Writing	Friday-23/10/2020	-	
		Choose Any One Of The Following Papers			
	79491	Fundamentals of Geographical	Saturday - 24.10.2020	<u>-</u> 	
		Information System and Introduction			
	79492	Fundamental of Soil Geography	-		
		Choose Any One Of The Following Papers			
	79493	Tourism Geography	Monday - 26.10.2020	-	
	79494	Agricultural Geography	-		
		Choose Any One Of The Following Papers			
	79495	Introduction to GIS Software and GPS	Tuesday- 27.10.2020	1	
	79496	Soil and Water Analysis	-		
	1			1	

#### 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)								
PAPER NO.	PAPER	PAPER NAME	DAY & DATE	PAPER TIME				
	CODE							
XVI	69567	Field Theory	Wednesday-28.10.2020	From 01.30.PM				
	63326	Field Theory		То				
XVII	63319	Partial Differential	Thursday – 29.10.2020	02.30 PM				
		Equations						
Paper No. – X	Paper No. – XVIII, XIX & XX – Choose any Three of the following							
	63322	Commutative Algebra – II	Monday- 02.11.2020					
		7	T 1 00/44/0000					
	63335	Fractional Differential	Tuseday-03/11/2020					
		Equations						
	63320	Combinatorics	Wednesday-					
-	62224	T vi Tri	21/10/2020					
	63324	Lattice Theory –II						
	63334	Algebraic Number Theory	Thursday-22/10/2020	From 01.30.PM				
	63327	Wavelet Analysis		To 02.30 PM				
	63328	Fuzzy Relation And Logic	Friday-23/10/2020					
	63325	Riemannian Geometry -II	Saturday 24.10.2020					
	63331	Dynamical Systems- II	Saturday 24.10.2020					
	63329	Computational Fluid	Monday- 26.10.2020					
		Dynamics						
	63323	Operations Research –II	Tuesday- 27.10.2020					
	63330	General Relativity II	Saturday 31.10.2020					

# 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,)

	<u> </u>			
	1			
PAPER	<b>PAPER</b>	PAPER NAME	DAY & DATE	PAPER TIME
NO.	CODE			
XVI	79322	Advance Discrete Mathematics	Monday - 02.11.2020	
XVII	79321	Integral Equation	Wednesday-28.10.2020	
Paper No.	– XVIII, XI	X & XX – Choose any Three of the	 following	-
	79476	Dynamics Equations on Time		-
		Scales	Tuseday-03/11/2020	
	79333	Analysis on Manifolds	_	
	79327	Fractional Differential Equations		
	79329	Lattice Theory-II	Wednesday-21/10/2020	-
	79337	Space Dynamics-II	_	From 01.30 PM
	79330	Wavelet Analysis		To
	79475	Automata Theory	Thursday-22/10/2020	02.30 PM
	79323	Algebraic Number Theory	_	02.30 PWI
	79325	Fuzzy Mathematics-II	Friday-23/10/2020	-
	79331	Dynamical Systems- II	Saturday 24.10.2020	-
	79336	Commutative Algebra-II		
	79326	Computational Fluid Dynamics	Monday 26.10.2020	-
	79334	Measure and Integration	Tuesday- 27.10.2020	-
	79324	Operations Research –II		
	79332	Graph Theory-II	Thursday – 29.10.2020	-
	79335	Theory of Distributions	Saturday - 31.10.2020	1
	79328	General Relativity-II		

Vidyanagar, Kolhapur – 416 004 Date :- 15 October 2020

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