



C . B . C . S .

M.A./M.Sc. (Maths & Geog.),

&

M.Sc. Tech (Maths),

Examination

DRAFT PROGRAMME

of

Oct-2018

SHIVAJI UNIVERSITY, KOLHAPUR

Circular No-(420) Exam. Of Oct/Nov-2018 EXAM

- Draft Programme of the M.A./M.Sc.(Maths, Geography & M.Sc Tech.), M.Sc (Mathematics, Physics, Statistics, Applied Statistics & Informatics, Environmental Science, Food Science & Technology, Alcohol Technology, Sugar Technology, Industrial Microbiology), Choose Base Credit System [C.B.C.S.] Examination to be held in **Oct-2018. Exam.**
- The Written Examination will be held at following center and Places delared:-

Sr.No	Center	College Code	Exam	Places
1	KOLHAPUR	549	M.A./M.Sc. Mathematics & M.Sc Tech Mathematics	Department of Mathematics, Shivaji University KOLHAPUR.
		573	M.A./M.Sc. Mathematics	Department of Distance Education, KOLHAPUR
		547	M.sc Physics	Department of Physics, Shivaji University 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.A./M.Sc. Mathematics, Physics	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.
		88	M.Sc. Physics	Smt. Kusumtai Rajarambapu Patil, Kanya Mahavidyalaya
		444	M.Sc Alcohol Technology & Sugar Technology	Rajarambapu College of Sugar Technology, URUN-ISLAMPUR
3	SANGLI	78	M.Sc. Physics	Smt. Kasturabi Walchand College of Arts & Science, SANGLI.
		80	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
4	KARAD	156	M.A./M. Sc. Geography, M.A./M.Sc. Mathematics, Industrial Microbiology, Statistics	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 & Mathematics	Yashwantrao Chavan Institute of Science, SATARA.
		173	M.A./M.Sc Geography	Raja Shripatrao Bhagwantrao Mahavidyalaya, AUNDH

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

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 Oct. 2013
Part I - Sem I				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
I	59827	Algebra	Monday – 10.12.2018	From 10.30.AM To 01.30 PM
II	59831	Classical Mechanics	Wednesday – 12.12.2018	
IV	59829	Real Analysis	Friday – 07.12.2018	
III	59830	Differential Equations	Monday – 26.11.2018	
V	59828	Advanced Calculus	Thursday – 22.11.2018	

Branch Code		- MATHEMATICS (C.B.C.S.)		(Revised From Oct-2018)
Part I - Sem I				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
I	71415	Advance Calculus	Thursday – 22.11.2018	From 10.30.AM To 01.30 PM
II	71416	Linear Algebra	Friday – 30.11.2018	
IV	71417	Complex Analysis	Wednesday – 28.11.2018	
III	71418	Classical Mechanics	Wednesday – 12.12.2018	
V	71419	Ordinary Differential Equations	Monday – 26.11.2018	

Branch Code		- MATHEMATICS (C.B.C.S.)		From April-2015
Part I :- Sem II				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
IX	61382	Topology	Thursday – 29.11.2018	From 10.30.AM To 01.30 PM
VII	69566	Numerical Analysis (Revised From April-2018)	Tuesday – 04.12.2018	
	61384	Numerical Analysis		
VI	61385	Differential Geometry	Saturday – 01.12.2018	
VIII	61383	Complex Analysis	Wednesday – 28.11.2018	
X	61381	Liner Algebra	Friday – 30.11.2018	

Branch Code		- MATHEMATICS (C.B.C.S.)		From Oct. 2014
Part II :- Sem III				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
XI	63303	Functional Analysis	Friday – 14.12.2018	From 2.30.PM To 05.30 PM
XII	63304	Advanced Discrete Mathematics	Tuesday – 11.12.2018	
Paper No. – XIII, XIV & XV – Choose any Three of the following				
	63336	Integral Equation	Saturday – 24.11.2018	From 2.30.PM To 05.30 PM
	63308	Commutative Algebra – I	Saturday – 08.12.2018	
	63316	Operation Research - I		
	63313	Lattice Theory – I		
	63307	Number Theory	Wednesday – 28.11.2018	
	63312	Riemannian Geometry -I	Monday – 03.12.2018	
	63305	Fluid Dynamics - I	Tuesday – 27.11.2018	
	63315	General Relativity – I		
	63309	Approximation Theory		
	63314	Fuzzy Mathematics – I		
63317	Dynamical Systems – I			
<u>Add on CBCS</u>	70813/[60850]	<u>Web Designing</u>	Wednesday- 05.12.2018	

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

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 <u>(Revised From April-2018)</u>	Saturday – 01.12.2018	From 2.30.PM To 05.30 PM
	63326	Field Theory		
XVII	63319	Partial Differential Equations	Thursday – 22.11.2018	
Paper No. – XVIII, XIX & XX – Choose any Three of the following				
	63335	Fractional Differential Equations	Monday – 26.11.2018	From 2.30.PM To 05.30 PM
	63322	Commutative Algebra – II	Thursday – 29.11.2018	
	63327	Wavelet Analysis		
	63334	Algebraic Number Theory		
	63325	Riemannian Geometry -II	Friday – 30.11.2018	
	63329	Computational Fluid Dynamics	Thursday – 06.12.2018	
	63323	Operations Research –II	Friday – 07.12.2018	
	63328	Fuzzy Relation And Logic	Tuesday – 04.12.2018	
	63331	Dynamical Systems- II	Monday – 10.12.2018	
	63330	General Relativity II		
	63324	Lattice Theory –II		
	63320	Combinatorics		

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

Exam Center & College Code :- (Kolhapur-547 & 1, Urun-Islampur-88, Sangli-78 & 94, Satara-149)

Branch Code - PHYSICS (C.B.C.S.)			From Oct. 2013	
Part I :- Semester I				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
I	59749	Mathematical Methods in Physics	Monday- 22.10.2018	From 10.30 AM To 01.30 PM
II	59748	Classical Mechanics	Wednesday- 24.10.2018	
III	59746	Quantum Mechanics I	Friday- 26.10.2018	
IV	59747	Condensed Matter Physics	Monday- 29.10.2018	
	59750	Practical - I	<i>Internal Exam</i>	
	59751	Practical - II		

Branch Code - PHYSICS (C.B.C.S.)			(Revised From Oct-2018)	
Part I :- Semester I				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
I	71428	Mathematical Physics	Monday- 22.10.2018	From 10.30 AM To 01.30 PM
II	71429	Classical Mechanics	Wednesday- 24.10.2018	
III	71430	Quantum Mechanics-I	Friday- 26.10.2018	
IV	71431	Condensed Matter Physics	Monday- 29.10.2018	
	71433	Laboratory/ Practical Course-I(LAB-I)	<i>Internal Exam</i>	
	71434	Laboratory/ Practical Course-II(LAB-II)		

Branch Code - PHYSICS (C.B.C.S.)			From April-2014	
Part I :- Semester II				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
V	61301	Quantum Mechanics II	Monday- 22.10.2018	From 02.30 PM To 05.30 PM
VI	61302	Statistical Mechanics	Wednesday- 24.10.2018	
VII	61303	Electrodynamics	Friday- 26.10.2018	
VIII	61304	Atomic & Molecular Physics	Monday- 29.10.2018	
	61305	Practical - III	<i>Internal Exam</i>	
	61306	Practical - IV		

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

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 III				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
IX	64101	Nuclear and Particle Physics	Tuesday- 23.10.2018	From 10.30.AM To 1.30 PM
	Paper No. X – Choose Any One Of The Following Paper			
Choice Base Paper (Any One) X	64102	Data Analysis and Statistical Software	Thursday- 25.10.2018	From 10.30.AM To 1.30 PM
	64103	Numerical Computing Using MATLAB		
	64526	Computational Programming using Mathematica		
Paper No. XI – Choose Any One of The Following Subject XI	64104	Energy Science – I (The New Energy Technologies)	Saturday- 27.10.2018	From 10.30.AM To 1.30 PM
	64105	Material Science – I (Imperfection in Crystals)		
	64106	Modern Optics – I (Laser Physics)		
	64107	Space Science – I (Windows to the Uni.,S.S.,Planetary Atmospheres)		
	64108	Solid State Physics – I (Thin Solid Films:Deposition and Properties)		
	64109	Theoretical Physics –I (Relativistic Quantum Mechanics.)		
Paper No. XII – Choose Any One of The Following Subject	64110	Energy Science – II (Solar Thermal Devices)	Tuesday- 30.10.2018	From 10.30.AM To 1.30 PM
	64111	Material Science – II (Physics of metals and Alloys)		
	64112	Modern Optics – II (Nonlinear Optics and Fiber Optics)		
	64113	Space Science – II (Astrophysics of the Sun)		
	64114(Old)	Solid State Physics – II (Semiconductor Devices)		
	64115	Theoretical Physics –II (Quantum Field Theory – I)		
	66764(New)	Solid State Physics-II (Semiconductor Physics)		
PRACTICAL V	64421,	1. Energy Science Project Work I	<i>Internal Exam</i>	
	64422,	2. Materials Science Project Work I		
	64424,	3. Modern Optics Project Work I		
	64425,	4. Space Science Project Work I		
	64423,	5. Solid State Physics Project Work I		
	64426	6. Theoretical Physics Project Work I		
PRACTICALVI	64427,	1. Energy Science Lab Work I		
	64428,	2. Materials Science Lab Work I		
	64430,	3. Modern Optics Lab Work I		
	64431,	4. Space Science Lab Work I		
	64429,	5. Solid State Physics Lab Work I		
	64432	6. Theoretical Physics Lab Work I		

M.Sc. Physics [C.B.C.S.- ADD ON]

Branch Code - PHYSICS (C.B.C.S.) ADD ON			
Part II :- Semester III			
PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
64678/[59783]	Principles of Food Processing & Preservation	Monday- 19.11.2018	10.30.AM To 1.30 PM
68286	Thin Film Deposition Technology	Friday- 26.10.2018	
66692/[60850]	Web Designing	Wednesday- 05.12.2018	02.30.PM To 5.30 PM
70759/[58970]	Society and Culture of Maharashtra	Saturday- 1.12.2018	

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

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	Tuesday- 23.10.2018	From 2.30.PM To 05.30 PM	
XIV Choice Base Paper (Any One Paper)	PAPER NO. XIV:- Choose Any One Of The Following Paper		Thursday- 25.10.2018	From 2.30.PM To 05.30 PM	
	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)	Saturday- 27.10.2018	From 2.30.PM To 05.30 PM	
	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- 30.10.2018	From 2.30.PM To 05.30 PM	
	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)			
PRACTICAL VII	65056	1. Energy Science Project Work II	<i>Internal Exam</i>		
	65058	2. Materials Science Project Work II			
	65059	3. Modern Optics Project Work II			
	65060	4. Space Science Project Work II			
	65057	5. Solid State Physics Project Work II			
	64132	6. Theoretical Physics Project Work II			
PRACTICAL VIII	65050	1. Energy Science Lab Work II			
	65051	2. Materials Science Lab Work II			
	65053	3. Modern Optics Lab Work II			
	65054	4. Space Science Lab Work II			
	65052	5. Solid State Physics Lab Work II			
	65055	6. Theoretical Physics Lab Work II			

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 Oct-2016	
Part I :- Sem.-I				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
I	68228	Statistical Mathematics – I	Monday- 26.11.2018	From 10.30 AM To 01.30 PM
II	68229	Statistical Mathematics – II	Wednesday- 28.11.2018	
III	68230	Distribution Theory	Friday- 30.11.2018	
IV	68231	Estimation Theory	Monday- 03.12.2018	
V	68232	Statistical Computing	Wednesday- 05.12.2018	
	68234	Practical - I		<i>Internal Exam</i>

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-2017	
Part I :- Sem.-II				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
VI	69598	Probability Theory	Monday- 26.11.2018	From 02.30 PM To 05.30 PM
VII	69599	Theory of Testing of Hypothesis	Wednesday- 28.11.2018	
VIII	69600	Multivariate Analysis	Friday- 30.11.2018	
IX	69601	Linear Models & Design of Experiments	Monday- 03.12.2018	
X	69602	Sampling Theory	Wednesday- 05.12.2018	
69603		Practical - II		<i>Internal Exam</i>

Branch Code - STATISTICS (C.B.C.S.)			From Oct-2017	
Part II :- Sem.-III				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
XI	69604	Asymptotic Inference	Tuesday- 27.11.2018	From 10.30.AM To 01.30 PM
XII	69605	Elementary Stochastic Processes	Thursday- 29.11.2018	
XIII	69606	Planning and Analysis of Industrial Experiments	Saturday- 01.12.2018	
Paper No. XIV & XV :- Choose Any Two of the Following Papers				
	69609	Reliability Theory	Tuesday- 04.12.2018	From 10.30.AM To 01.30 PM
	69614	Statistical Methods in Clinical Trials		
	69610	Regression Analysis	Thursday- 06.12.2018	
69608		Practical - III		<i>Internal Exam</i>

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)	Tuesday- 27.11.2018	From 02.30 PM To 05.30 PM
Paper No. XVII & XX :- Choose Any Four of the Following Papers				
	71109	Generalized Linear Models	Thursday- 29.11.2018	From 02.30 PM To 05.30 PM
	71110	Survival Analysis(SA)	Saturday- 01.12.2018	
	71111	Data Mining (DM)	Tuesday- 04.12.2018	
	71112	Statistical Quality Control		
	71113	Time Series Analysis (TSA)	Thursday- 06.12.2018	
71108		Practical IV and Project(P&P)		<i>Internal Exam</i>

M.Sc. Applied Statistics & Informatics [C.B.C.S.]

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

Branch Code - APPLIED STATISTICS & INFORMATICS (C.B.C.S.)			From Oct. 2013	
Part I :- Sem.-I				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
I	61055	Fundamentals of Computer Programming	Monday- 26.11.2018	From 10.30 AM To 01.30 PM
II	61056	Statistical Mathematics	Wednesday- 28.11.2018	
III	61057	Probability Distributions	Friday- 30.11.2018	
IV	61058	Statistical Inference	Monday- 03.12.2018	
V	61059	Statistical Computing and Numerical Methods	Wednesday- 05.12.2018	
61060		Practical - I		<i>Internal Exam</i>

M.Sc. Applied Statistics & Informatics [C.B.C.S.]

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

Branch Code - APPLIED STATISTICS & INFORMATICS (C.B.C.S.) (Revised From Oct-2018)				
Part I :- Sem.-I				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
I	71445	Fundamentals of Computer Programming	Monday- 26.11.2018	From 10.30 AM To 01.30 PM
II	71446	Statistical Mathematics	Wednesday- 28.11.2018	
III	71447	Distribution Theory	Friday- 30.11.2018	
IV	71448	Estimation Theory	Monday- 03.12.2018	
V	71449	Statistical Computing	Wednesday- 05.12.2018	
	71450	Communication Skills	Internal Exam	
	71451	Practical-I(PRACT-I)	<i>Internal Exam</i>	

Branch Code - APPLIED STATISTICS & INFORMATICS (C.B.C.S.) From April-2014				
Part I :- Sem.-II				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
VI	61501	Probability Theory	Monday- 26.11.2018	From 02.30 PM To 05.30 PM
VII	61502	Multivariate Analysis	Wednesday- 28.11.2018	
VIII	61503	Sampling Theory	Friday- 30.11.2018	
IX	61504	Linear Models and Design of Experiments	Monday- 03.12.2018	
X	61505	Advanced Data Structure with C++	Wednesday- 05.12.2018	
	61506	Practical - II	<i>Internal Exam</i>	

Branch Code - APPLIED STATISTICS & INFORMATICS (C.B.C.S.) From Oct. 2014				
Part II :- Sem.-III				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
XI	64532	Stochastic Processes	Tuesday- 27.11.2018	From 10.30.AM To 01.30 PM
XII	64533	Computer Graphics	Thursday- 29.11.2018	
XIII	64534	Regression Analysis	Saturday- 01.12.2018	
XIV	64537	Data Base Management System	Tuesday- 04.12.2018	
XV	64538	Reliability and Survival Analysis	Thursday- 06.12.2018	
	64541	Practical - III	<i>Internal Exam</i>	

Branch Code - APPLIED STATISTICS & INFORMATICS (C.B.C.S.) From April-2015				
Part II :- Sem.-IV				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
XVI	65070	Optimization Techniques	Tuesday- 27.11.2018	From 02.30 PM To 05.30 PM
XVII	65071	Discrete Data Analysis	Thursday- 29.11.2018	
XVIII	65073	Time Series Analysis	Saturday- 01.12.2018	
XIX	65075	Industrial Statistics	Tuesday- 04.12.2018	
XX	65077	Data Warehousing and Data Mining	Thursday- 06.12.2018	
	65072	Practical –IV & Project	<i>Internal Exam</i>	

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

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

Branch Code - ENVIRONMENTAL SCIENCE (C.B.C.S.)				From Oct. 2013
		Part I :- Sem.-I		
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
I	59770	Introduction to Environmental Science	Tuesday- 23.10.2018	From 10.30.AM To 01.30 PM
II	59771	Environmental Chemistry	Thursday- 25.10.2018	
III	59772	Environmental Biology	Saturday- 27.10.2018	
IV	59773	Information Technology in Environmental Science	Monday- 29.10.2018	
	59775	Practical - I	<i>Internal Exam</i>	
	59776	Practical - II		

Branch Code - ENVIRONMENTAL SCIENCE (C.B.C.S.)				From April-2014
		Part I :- Sem.-II		
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
V	61325	Environmental Engineering	Tuesday- 23.10.2018	From 02.30 PM To 05.30 PM
VI	61326	Environmental Pollution and Control	Thursday- 25.10.2018	
VII	61327	Environmental Geoscience and Climatology	Saturday- 27.10.2018	
VIII	61328	Environmental Monitoring and Energy Studies	Monday- 29.10.2018	
	61329	Practical - III	<i>Internal Exam</i>	
	61330	Practical - IV		

Branch Code - ENVIRONMENTAL SCIENCE (C.B.C.S.)				From Oct. 2014
		Part II :- Sem.-III		
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
IX	64165	Natural Resources and their Management	Wednesday- 24.10.2018	From 10.30.AM To 1.30 PM
X	64166	Environmental Statistics and Computer Applications	Friday- 26.10.2018	
XI	64167	Environmental Policy and legislation	Tuesday- 30.10.2018	
XII	64168	Environmental Toxicology and Public Health	Friday- 02.11.2018	
	64648	Vermicomposting	<i>Internal Exam</i>	
	64170	Project	<i>Internal Exam</i>	
	64171	Practical VI – (Environmental Statistics and Toxicology)		

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	Wednesday- 24.10.2018	From 2.30 PM To 5.30 PM
XIV	65020	Environmental Hazards and Disaster Management	Friday- 26.10.2018	
XV	65021	Environmental Planning and Management	Tuesday- 30.10.2018	
XVI	65022	Environmental Biotechnology	Friday- 02.11.2018	
	65023	Practical VII	<i>Internal Exam</i>	
	65024	Practical VIII		

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 Oct. 2013
Part I :- Sem.-I				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
I	59783	Principles of Food Processing & Preservation	Monday- 19.11.2018	From 10.30 AM To 1.30 PM
II	59784	Food Microbiology	Thursday- 22.11.2018	
III	59785	Food Chemistry	Tuesday- 27.11.2018	
IV	59786	Biochemistry & Nutrition	Thursday- 29.11.2018	
	59787	Practical I	<i>Internal Exam</i>	
	59788	Practical II		

Branch Code - FOOD SCIENCE & TECHNOLOGY (C.B.C.S.)				From April-2014
Part I :- Sem.-II				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
V	61337	Fruit and Vegetable Technology	Monday- 19.11.2018	From 02.30 PM To 5.30 PM
VI	61338	Principles of Food Engineering	Thursday- 22.11.2018	
VII	61339	Cereal and Legume Technology	Tuesday- 27.11.2018	
VIII	61340	Fermentation Technology	Thursday- 29.11.2018	
	61341	Practical III	<i>Internal Exam</i>	
	61342	Practical IV		

Branch Code - FOOD SCIENCE & TECHNOLOGY (C.B.C.S.)				From Oct. 2014
Part II :- Sem.-III				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
IX	64191	Technology of Meat, Fish & Poultry Products	Tuesday- 20.11.2018	From 10.30.AM To 1.30 PM
X	64192	Technology of Milk & Milk Products	Monday- 26.11.2018	
XI	64193	Food Quality & Safety Management	Wednesday- 28.11.2018	
XII	64194	Food Additives, Contaminants & Toxicology	Friday- 30.11.2018	
	64195	Laboratory Course – V	<i>Internal Exam</i>	
	64196	Laboratory Course – VI		

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	Tuesday- 20.11.2018	From 02.00 PM To 5.30 PM
XIV	65135	Technology of Oilseeds & Fats	Monday- 26.11.2018	
XV	65136	Food Biotechnology	Wednesday- 28.11.2018	
XVI	65137	Post-Harvest Technology of Plantation Crops	Friday- 30.11.2018	
	65138	Laboratory Course – VII	<i>Internal Exam</i>	
	65139	Laboratory Course – VIII		

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

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

Branch Code - Alcohol Technology (C.B.C.S.)			From May- 2017	
Part I - Sem I				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
I	68596	Organic Chemistry	Tuesday- 04.12.2018	From 10.30 AM To 01.30 PM
II	68597	Basic of Fermentation	Thursday- 06.12.2018	
III	68598	Alcohol Technology - I	Monday- 10.12.2018	
IV	68599	Microbiology – I	Wednesday- 12.12.2018	
Parctical	68600	Alcohol Technology Parctical – I	<i>Internal Exam</i>	
	68601	Microbiology Parctical - I		

Branch Code - Alcohol Technology (C.B.C.S.)			From Oct- 2017	
Part I - Sem II				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
I	68602	Bio-Chemistry(BICHEM)	Tuesday- 04.12.2018	From 2.30.PM To 05.30 PM
II	68603	Fermentation Technology - II(FERTECH2)	Thursday- 06.12.2018	
III	68604	Alcohol Technology - II(ALCTECH2)	Monday- 10.12.2018	
IV	68605	Microbiology - II(MICRO2)	Wednesday- 12.12.2018	
Parctical	68606	Alcohol Technology -II(ALCTECHP2)	<i>Internal Exam</i>	
	68607	Microbiology - II(MICRO2)		

Branch Code - Alcohol Technology (C.B.C.S.)			From March- 2018	
Part II - Sem III				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
I	68636	Fermentation Technology-III	Saturday- 08.12.2018	From 10.30 AM To 01.30 PM
II	68637	Alcohol Technology- III	Tuesday- 11.12.2018	
III	68638	Microbiology-III	Thursday- 13.12.2018	
Paper No.IV	Paper No.IV :- Choose Any One of the Following Papers			
	68639	Sugar Technology	Saturday- 15.12.2018	
	68640	Industrial waste treatments & Environmental management		
	68641	Instrumentation & Automation in Distillery.		
Parctical	68642	Alcohol Technology Practical III(ATPRA3)	<i>Internal Exam</i>	
	68643	Microbiology III(MICROPRA3)		

Branch Code - Alcohol Technology (C.B.C.S.)			(From Oct-2018)	
Part II - Sem IV				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
I	68644	Alcohol & Beverages production from grain and other sources	Saturday- 08.12.2018	From 02.30 PM To 05.30 PM
II	68645	Production of ENA, ETHNOL & IMFL	Tuesday- 11.12.2018	
III	68646	Chemical Engineering	Thursday- 13.12.2018	
Paper No.IV	Paper No.IV :- Choose Any One of the Following Papers			
	68647	General Engineering	Saturday- 15.12.2018	
	68648	Pollution Prevention & Control		
	68649	Business management & marketing		
Parctical	68650	Technical Easy on Elective Subject	<i>Internal Exam</i>	
	68651	Inplant Training		

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

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

Branch Code- Sugar Technology (C.B.C.S.)			From May-2017	
Part I - Sem I				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
I	68608	Sugar Cane Agriculture	Tuesday- 04.12.2018	From 10.30 AM To 01.30 PM
II	68609	Sugar Processing-Clarification	Thursday- 06.12.2018	
III	68610	Sugar Engineering-Milling	Monday- 10.12.2018	
IV	68611	Chemical Control	Wednesday- 12.12.2018	
Parctical	68612	Sugar Cane Agriculture	Internal Exam	
	68613	Sugar Technology-I		

Branch Code- Sugar Technology (C.B.C.S.)			From Oct-2017	
Part I - Sem II				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
I	68614	Sugar Chemistry(SUCHEM)	Tuesday- 04.12.2018	From 2.30.PM To 05.30 PM
II	68615	Sugar Processing-Evaporation(SPEVA)	Thursday- 06.12.2018	
III	68616	Sugar Engineering-Steam & Power Generation(SEEPG)	Monday- 10.12.2018	
IV	68617	Equipment Design and Drawing(EDD)	Wednesday- 12.12.2018	
Parctical	68618	Sugar Chemistry (Practical)(SCHEM)	Internal Exam	
	68619	Sugar Technology-II(SUTECH)		

Branch Code - Sugar Technology (C.B.C.S.)			From March- 2018	
Part II - Sem III				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
I	68620	Equipments Capacity Calculation(ECC)	Saturday- 08.12.2018	From 10.30 AM To 01.30 PM
II	68621	Sugar Processing-Crystallization(SPC)	Tuesday- 11.12.2018	
III	68622	Chemical Engineering-Heat & Momentum Transfer(CEHMT)	Thursday- 13.12.2018	
Paper No.IV	Paper No.IV :- Choose Any One of the Following Papers			
	68623	Alcohol Technology(ALCOTECH)	Saturday- 15.12.2018	
	68624	Bio-Chemical Engineering(BCE)		
	68625	Electronics and Instrumention Engineering(EIE)		
Parctical	68626	Sugar Technology III(ST3)	Internal Exam	
	68627	Practical on Elective Subject(PES)		

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	Saturday- 08.12.2018	From 02.30 PM To 05.30 PM
II	68629	Raw & Refine Sugar Production	Tuesday- 11.12.2018	
III	68630	Chemical Engineering-Unit Operation	Thursday- 13.12.2018	
Paper No.IV	Paper No.IV :- Choose Any One of the Following Papers			
	68631	Energy Conversion and Cogeneration	Saturday- 15.12.2018	
	68632	Pollution Prevention and Control		
	68633	Water Management and Zero Discharge		
Parctical	68634	Technical Easy on Elective Subject (Self Study)	Internal Exam	
	68635	In Plant Training (Project Report)		

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

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

Branch Code - Industrial Microbiology (C.B.C.S.)			From Dec- 2017	
Part I - Sem I				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
I	70801	Taxonomy and Cytology of Microorganisms(TCM)	Monday- 26.11.2018	From 10.30.AM To 01.30 PM
II	70802	Virology(V)	Wednesday- 28.11.2018	
III	70803	Genetics and Molecular Biology(GMB)	Friday- 30.11.2018	
IV	70804	Immunology(IMM)	Monday- 03.12.2018	
Parctical	70805	Practical Course- I(PC- I)	<i>Internal Exam</i>	
	70806	Practical Course- II(PC-II)		

Branch Code - Industrial Microbiology (C.B.C.S.)			From May- 2018	
Part I - Sem II				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
I	71078	Techniques in Microbiology(TM)	Monday- 26.11.2018	From 2.30.PM To 05.30 PM
II	71079	Microbial Physiology, Biochemistry and Metabolism (MPB&M)	Wednesday- 28.11.2018	
III	71080	Medical Microbiology(MM)	Friday- 30.11.2018	
IV	71081	Microbial Ecology(ME)	Monday- 03.12.2018	
Parctical	71082	Practical Course-III(PC-III)	<i>Internal Exam</i>	
	71083	Practical Course-IV(PC-IV)		

Branch Code - Industrial Microbiology (C.B.C.S.)			(Revised From Oct-2018)	
Part II - Sem III				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
I	71620	Microbial Technology	Tuesday- 27.11.2018	From 10.30.AM To 01.30 PM
II	71621	Fermentation technology-I	Thursday- 29.11.2018	
III	71622	Enzymology and Enzyme Technology	Saturday- 01.12.2018	
IV	71623	Entrepreneurship Development and Modern Management Practice	Tuesday- 04.12.2018	
Parctical	71624	Practical Course-V	<i>Internal Exam</i>	
	71625	Practical Course-VI		

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

Exam Center & College Code :- (Kolhapur-540, Sangli-92, Satara-259 & 173, Karad-153 & 156)

Branch Code - GEOGRAPHY (C.B.C.S.)			From Oct. 2013	
Part I :- Sem.-I				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
I	59909	Principles of Geomorphology	Tuesday- 23.10.2018	From 10.30 AM To 01.30 PM
II	59910	Principles of Climatology	Thursday- 25.10.2018	
III	59911	Economic Geography	Saturday- 27.10.2018	
IV	59912	Geography of Population and Development	Tuesday- 30.10.2018	
	59913	Practical I	<i>Internal Exam</i>	
	59914	Practical II		

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

Exam Center & College Code :- (Kolhapur-540, Sangli-92, Satara-259 & 173, Karad-153 & 156)

Branch Code - GEOGRAPHY (C.B.C.S.)			(Revised From Oct-2018)	
Part I :- Sem.-I				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
I	72008	Fundamentals of Geomorphology	Tuesday- 23.10.2018	From 10.30 AM To 01.30 PM
II	72009	Principles of Climatology	Thursday- 25.10.2018	
III	72010	Economic Geography	Saturday- 27.10.2018	
IV	72011	Geography of Population and Human Resource Development	Tuesday- 30.10.2018	
	72012	Practical in Geomorphology and Field Survey	<i>Internal Exam</i>	
	72013	Analysis of Socio-economic and Climatic Data		

Branch Code - GEOGRAPHY (C.B.C.S.)			From April-2014	
Part I :- Sem.-II				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
V	61515	Advanced Geomorphology	Tuesday- 23.10.2018	From 2.30.PM To 05.30 PM
VI	61516	Applied Climatology	Thursday- 25.10.2018	
VII	61517	Geography of India	Saturday- 27.10.2018	
VIII	61518	Social & Cultural Geography	Tuesday- 30.10.2018	
	61519	Practical III	<i>Internal Exam</i>	
	61520	Practical IV		

Branch Code - GEOGRAPHY (C.B.C.S.)			From Oct. 2014	
Part II :- Sem.-III				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
IX	64604	Regional Planning and Development	Wednesday- 24.10.2018	From 10.30 AM To 01.30 PM
X	64605	Fundamentals and Applications of Remote Sensing	Friday- 26.10.2018	
XI	Paper No.:- XI – Choose Any One of the Following		Monday- 29.10.2018	
	64606	Environmental Geography		
	64607	Geography of Tourism		
XII	Paper No. XII :- Choose Any One Of The Following Papers		Wednesday- 31.10.2018	
	64608	Surveying, Cartography & GIS		
	64609	Political Geogrphy		
	64610	Practical V :- (Photogrammetry, Remote Sensing and GIS)	<i>Internal Exam</i>	
	64611	Practical VI :- (Quantitative Techniques & Computer Applications in Geo.)		

Branch Code - GEOGRAPHY (C.B.C.S.)			From April-2015	
Part II :- Sem.-IV				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
XIII	65005	Development of Geographical Thought	Wednesday- 24.10.2018	From 2.30.PM To 05.30 PM
XIV	65006	Geohydrology & Oceanography	Friday- 26.10.2018	
XV	Paper No.:- XI – Choose Any One of the Following		Monday- 29.10.2018	
	65009	Agricultural Geography		
	65010	Settlement Geography		
XIV	Paper No. XII :- Choose Any One Of The Following Papers		Wednesday- 31.10.2018	
	65011	Biogeography		
	65012	Medical Geography		
	65007	Project - Research Methodology and Study Tour Report Writing	<i>Internal Exam</i>	
	65008	Project		

M.Sc. Tech (MATHEMATICS) [C.B.C.S.]

Exam Center & College Code :- (Kolhapur-549)

Branch Code - M.Sc. TECH (MATHEMATICS) (C.B.C.S.)				From Oct. 2014
Part I :- Sem.-I				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
V	64600	Programming in C	Friday-30.11.2018	From 10.30 AM To 01.30 PM
III	64598	Discrete Mathematical Structures – I	Monday – 26.11.2018	
I	64596	Algebra	Tuesday – 27.11.2018	
IV	64599	Computer Architecture	Wednesday – 28.11.2018	
II	64597	Advanced Calculus	Thursday-22.11.2018	
	64601	Lab Work – I	<i>Internal Exam</i>	

Branch Code - M.Sc. TECH (MATHEMATICS) (C.B.C.S.)				(Revised From Oct-2018)
Part I :- Sem.-I				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
V	71453	Advanced Calculus	Thursday-22.11.2018	From 10.30 AM To 01.30 PM
III	71454	Linear Algebra	Monday – 03.12.2018	
I	71455	Discrete Mathematical Structures-I	Monday – 26.11.2018	
IV	71456	Computer Architecture	Wednesday – 28.11.2018	
II	71457	Programming in C	Friday-30.11.2018	
	71458	Lab Work I	<i>Internal Exam</i>	

Branch Code - M.Sc. TECH (MATHEMATICS) (C.B.C.S.)				From April-2015
Part I :- Sem.-II				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
I	64917	Real Analysis	Saturday – 24.11.2018	From 10.30 AM To 01.30 PM
II	64918	Operations Research	Saturday – 01.12.2018	
IV	64920	Operating Systems	Thursday- 29.11.2018	
V	64921	Data Structures Using C	Thursday – 06.12.2018	
III	64919	Discrete Mathematical Structures – II	Tuesday – 04.12.2018	
	64922	Lab Work II	<i>Internal Exam</i>	

Branch Code - M.Sc. TECH (MATHEMATICS) (C.B.C.S.)				From Oct-2015
Part II :- Sem.-III				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
I	65753	Complex Analysis	Monday – 10.12.2018	From 10.30 AM To 01.30 PM
II	65752	Linear Algebra	Monday – 03.12.2018	
IV	65754	Object Oriented Programming with C++	Wednesday – 12.12.2018	
V	65755	Database Systems	Friday-07.12.2018	
III	65756	Design and analysis of Algorithms I	Wednesday – 05.12.2018	
	65757	Lab Work	<i>Internal Exam</i>	

Branch Code - M.Sc. TECH (MATHEMATICS) (C.B.C.S.)				From April-2016
Part II :- Sem.-IV				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
I	67155	Functional Analysis	Saturday-08.12.2018	From 2.30.PM To 05.30 PM
II	67156	Differential Equations	Tuesday – 11.12.2018	
IV	67157	Design and Analysis of Algorithms II	Saturday – 24.11.2018	
V	67158	Object Oriented Programming With Java	Thursday- 29.11.2018	
VI	67159	Linux Operating System	Tuesday – 27.11.2018	
	67160	Lab Work -IV	<i>Internal Exam</i>	

M.Sc. Tech (MATHEMATICS) [C.B.C.S.]

Exam Center & College Code :- (Kolhapur-549)

Branch Code		- M.Sc. TECH (MATHEMATICS) (C.B.C.S.)		From Oct-2016
Part III :- Sem.-V				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
I	67980	Compiler Techniques	Thursday-22.11.2018	From 10.30 AM To 01.30 PM
II	67981	Software Engineering	Monday – 26.11.2018	
III	67982	Computer Networks	Wednesday – 28.11.2018	
IV	67983	Computer Graphics	Friday-30.11.2018	
Paper No. V- Choose any One of the following				
	67984	Web Technology	Wednesday – 05.12.2018	From 10.30 AM To 01.30 PM
	67985	PHP with MySQL		
	67986	Android Programmimg		
	67987	Advanced Java		
	67988	Lab Work	<i>Internal Exam</i>	

- Candidates are requested to be present at their respective places of Examination 15 MINUTES before the time scheduled for the starting of the First Paper.
- The Practical examination will be held after written examination. The Information regarding place, date and time of the Practical examination will be notified in the practical programme of the subject. Those who fail to present themselves at the practical examination on the scheduled date and time will not be examined in practical. The practical programme will be displayed on the notice board of the Department.
- The Examination Programme is subject to change. The candidates are advised to check the **Examination programme**. If there is any change in the examination programme the university is not responsible for the loss or inconvenience caused to the candidates.
- The external candidates are requested to see their examination seat numbers as well as place of examination on the notice board of the University Office at least two days before the date of examination.
- Cellular phone, Programmable Scientific Calculators, Digital Diary or any means which can be used for unfair practice are not allowed in the Exam.Hall.
- Examinee should confirm the customized time table printed on his/her hall ticket with the **Exam Programme** of examination sent to his/her Department.

Vidyanagar,
Kolhapur – 416 004
Date :-21.09.2018

SHRI. M.A. KAKADE
DIRECTOR
BOARD OF EXAMINATIONS AND EVALUATION