



**C . B . C . S .**

*M.A./M.Sc. ( Physics, Environmental -  
Science & Geography . ),*

*Examination*

**REVISED FINAL**

**PROGRAMME of**

**October -2018**

# SHIVAJI UNIVERSITY, KOLHAPUR

Circular No-(523) Exam. Of Oct/Nov-2018 EXAM

- Revised Final Programme of the M.A./M.Sc.(Physics, Environmental Science & Geography.) 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	547	M.sc Physics	Department of Physics, Shivaji University KOLHAPUR.
		551	M.Sc Environmental Science	Department of Enviromental Science, KOLHAPUR
		540	M.A./M.Sc Geography	Department of Geography, Shivaji University KOLHAPUR.
		1	M.Sc. Physics	Vivekanand College, KOLHAPUR
		48	M.Sc Physics	Devchand College, ARJUNNAGAR
		88	M.Sc. Physics	Smt. Kusumtai Rajarambapu Patil, Kanya Mahavidyalaya
3	SANGLI	78	M.Sc. Physics	Smt. Kasturabi Walchand College of Arts & Science, SANGLI.
		94	M.Sc. Physics	Raje Ramrao Mahavidyalaya, JATH
		92	M.A./M. Sc. Geography	Padm. Bhushan Dr.Vasandraodada Patil Mahavidyalaya, TASGAON
4	KARAD	156	M.A./M. Sc. Geography	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,	Yashwantrao Chavan Institute of Science, SATARA.
		173	M.A./M.Sc Geography	Raja Shripatrao Bhagawantrao Mahavidyalaya, AUNDH

## 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- 19.11.2018	From 10.30 AM To 01.30 PM
II	59748	Classical Mechanics	Thursday- 22.11.2018	
III	59746	Quantum Mechanics I	Monday- 26.11.2018	
IV	59747	Condensed Matter Physics	Wednesday- 28.11.2018	
	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- 19.11.2018	From 10.30 AM To 01.30 PM
II	71429	Classical Mechanics	Thursday- 22.11.2018	
III	71430	Quantum Mechanics-I	Monday- 26.11.2018	
IV	71431	Condensed Matter Physics	Wednesday- 28.11.2018	
	71433	Laboratory/ Practical Course-I(LAB-I)	<i>Internal Exam</i>	
	71434	Laboratory/ Practical Course-II(LAB-II)		

## 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 April-2014
Part I :- Semester II				
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
V	61301	Quantum Mechanics II	Tuesday- 20.11.2018	From 10.30 AM To 01.30 PM
VI	61302	Statistical Mechanics	Saturday- 24.11.2018	
VII	61303	Electrodynamics	Tuesday- 27.11.2018	
VIII	61304	Atomic & Molecular Physics	Thursday- 29.11.2018	
	<b>61305</b>	<b>Practical - III</b>	<i>Internal Exam</i>	
	<b>61306</b>	<b>Practical - IV</b>		

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	<b>Nuclear and Particle Physics</b>	Monday- 19.11.2018	From 02.30.PM To 5.30 PM
	<b>Paper No. X – Choose Any One Of The Following Paper</b>		Thursday-22.11.2018	From 02.30.PM To 5.30 PM
<b>Choice Base Paper (Any One) X</b>	64102	Data Analysis and Statistical Software		
	64103	Numerical Computing Using MATLAB		
	64526	Computational Programming using Mathematica		
<b>Paper No. XI – Choose Any One of The Following Subject XI</b>	64104	Energy Science – I ( The New Energy Technologies )	Monday- 26.11.2018	From 02.30.PM To 5.30 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. )		
<b>Paper No. XII – Choose Any One of The Following Subject</b>	64110	Energy Science – II ( Solar Thermal Devices )	Wednesday-28.11.2018	From 02.30.PM To 5.30 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	Solid State Physics – II ( Semiconductor Devices )		
	64115	Theoretical Physics –II ( Quantum Field Theory – I )		
	<b>66764/67023</b>	Solid State Physics-II (Semiconductor Physics)		
<b>PRACTICAL V</b>	64121	Lab-I : Energy Science(CESLB1)	<i>Internal Exam</i>	
	64122	Lab-I : Material Science(CMSLB1)		
	64123	Lab-I :Solid State Physics (CSPLB1)		
	64124	Lab-I :Modern Optics(CMOLB1)		
	64125	Lab-I :Space Science(CSSLB1)		
	64126	Lab-I :Therotical Physics(CTPLB1)		
<b>PRACTICALVI</b>	64127	Project Work-I: Energy Science		
	64128	Project Work-I: Material Science		
	64129	Project Work-I: Solid State Physics		
	64130	Project Work-I: Modern Optics		
	64131	Project Work-I: Space Science		
	64132	Project Work-I: Theoretical Physics		

## 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- 22.11.2018	
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	
64620/[64605]	Fundamentals and Applications of Remote Sensing	Saturday- 24.11.2018	10.30.AM To 1.30 PM

## 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- 20.11.2018	From 2.30.PM To 05.30 PM
XIV Choice Base Paper (Any One Paper)	<b>PAPER NO. XIV:- Choose Any One Of The Following Paper</b>		Saturday- 24.11.2018	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)	Tuesday- 27.11.2018	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)	Thursday- 29.11.2018	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	Solid State Physics – IV (Semiconductor Physics)		
	65038	Theoretical Physics –IV (Quantum Field Theory-2)		
	66765	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. 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	Monday- 19.11.2018	From 10.30.AM To 01.30 PM
II	59771	Environmental Chemistry	Thursday- 22.11.2018	
III	59772	Environmental Biology	Monday- 26.11.2018	
IV	59773	Information Technology in Environmental Science	Wednesday- 28.11.2018	
	<b>59775</b>	<b>Practical - I</b>	<i>Internal Exam</i>	
	<b>59776</b>	<b>Practical - II</b>		

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	Monday- 19.11.2018	From 02.30 PM To 05.30 PM
VI	61326	Environmental Pollution and Control	Thursday- 22.11.2018	
VII	61327	Environmental Geoscience and Climatology	Monday- 26.11.2018	
VIII	61328	Environmental Monitoring and Energy Studies	Wednesday- 28.11.2018	
	<b>61329</b>	<b>Practical - III</b>	<i>Internal Exam</i>	
	<b>61330</b>	<b>Practical - IV</b>		

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- 20.11.2018	From 10.30.AM To 1.30 PM
X	64166	Environmental Statistics and Computer Applications	Saturday- 24.11.2018	
XI	64167	Environmental Policy and legislation	Tuesday- 27.11.2018	
XII	64168	Environmental Toxicology and Public Health	Thursday-29.11.2018	
	64648	Vermicomposting	<b><i>Internal Exam</i></b>	
	<b>64170</b>	<b>Project</b>	<i>Internal Exam</i>	
	<b>64171</b>	<b>Practical VI – ( Environmental Statistics and Toxicology )</b>		

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- 20.11.2018	From 2.30 PM To 5.30 PM
XIV	65020	Environmental Hazards and Disaster Management	Saturday- 24.11.2018	
XV	65021	Environmental Planning and Management	Tuesday- 27.11.2018	
XVI	65022	Environmental Biotechnology	Thursday-29.11.2018	
	<b>65023</b>	<b>Practical VII</b>	<i>Internal Exam</i>	
	<b>65024</b>	<b>Practical VIII</b>		

## 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	Monday- 19.11.2018	From 10.30 AM To 01.30 PM
II	59910	Principles of Climatology	Thursday- 22.11.2018	
III	59911	Economic Geography	Monday- 26.11.2018	
IV	59912	Geography of Population and Development	Wednesday- 28.11.2018	
	<b>59913</b>	<b>Practical I</b>	<i>Internal Exam</i>	
	<b>59914</b>	<b>Practical II</b>		

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	Monday- 19.11.2018	From 10.30 AM To 01.30 PM
II	72009	Principles of Climatology	Thursday- 22.11.2018	
III	72010	Economic Geography	Monday- 26.11.2018	
IV	72011	Geography of Population and Human Resourceh Development	Wednesday- 28.11.2018	
	<b>72012</b>	<b>Practical in Geomorphology and Field Survey</b>	<i>Internal Exam</i>	
	<b>72013</b>	<b>Analysis of Socio-economic and Climatic Data</b>		

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	Monday- 19.11.2018	From 2.30.PM To 05.30 PM
VI	61516	Applied Climatology	Thursday- 22.11.2018	
VII	61517	Geography of India	Monday- 26.11.2018	
VIII	61518	Social & Cultural Geography	Wednesday- 28.11.2018	
	<b>61519</b>	<b>Practical III</b>	<i>Internal Exam</i>	
	<b>61520</b>	<b>Practical IV</b>		

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	Tuesday- 20.11.2018	From 10.30 AM To 01.30 PM
X	64605	Fundamentals and Applications of Remote Sensing	Saturday- 24.11.2018	
XI	Paper No.:- XI – Choose Any One of the Following		Wednesday- 27.11.2018	
	64606	Environmental Geography		
	64607	Geography of Tourism		
XII	Paper No. XII :- Choose Any One Of The Following Papers		Thursday- 29.11.2018	
	64608	Surveying, Cartography & GIS		
	64609	Political Geogrphy		
	<b>64610</b>	<b>Practical V :- ( Photogrammetry, Remote Sensing and GIS )</b>	<i>Internal Exam</i>	
	<b>64611</b>	<b>Practical VI :- (Quantitative Techniques &amp; Computer Applications in Geo. )</b>		

## 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 April-2015		
Part II :- Sem.-IV					
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME	
XIII	65005	Development of Geographical Thought	Tuesday- 20.11.2018	From 2.30.PM To 05.30 PM	
XIV	65006	Geohydrology & Oceanography	Saturday- 24.11.2018		
XV	<b>Paper No.:- XI – Choose Any One of the Following</b>				
	65009	Agricultural Geography	Wednesday- 27.11.2018		
	65010	Settlement Geography			
XIV	<b>Paper No. XII :- Choose Any One Of The Following Papers</b>				
	65011	Biogeography	Thursday- 29.11.2018		
	65012	Medical Geography			
	<b>65007</b>	<b>Project - Research Methodology and Study Tour Report Writing</b>	<i>Internal Exam</i>		
	<b>65008</b>	<b>Project</b>			

1. 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.
2. 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.
3. 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.
4. 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.
5. Cellular phone, Programmable Scientific Calculators, Digital Diary or any means which can be used for unfair practice are not allowed in the Exam.Hall.
6. 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 :-22.10.2018

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