

# SHIVAJI UNIVERSITY, KOLHAPUR.

Circular No. 621 Exam. March/April 2016

Regular Final Programme  
M. Sc. II , Sem III & IV,  
March/April 2016 Exam

**Final Programme** for the university Examination of M. Sc. II, Sem III & IV Zoology, Computer Sci., Chemistry (All Branches) Botony, AGPM, Miro (Regular) Geology, App. Micro Biology subject Examination to be held in March/April 2016

**1. The Written Examination will be held at :-**

Sr. No	Center	College/Dept. Code	Exam	Places
01	KOLHAPUR	541 to 546 548,552,553 555 to 557 578	M.Sc.( Zoology, Computer Sci, , Chemistry( All Branches) Botany,Electronics ,App Chemistry, Industrial Chemistry,Horizontal Mobility (Bio-tech,Bio-chem,Micro,Env-Biotech),A.G.PM,.) Science Subjects ), M.C.A.(Sci)	University Teaching concern department. Shivaji University Campus. KOLHAPUR
02		260	M.Sc. Geology	Gopal Krishna Gokhale College, Kolhapur
03		01	M.Sc. Chemistry, Organic Chemistry	Vivekanand College, Kolhapur
04	Arjunnagar	48	M.Sc. Agrochemical & Pest Management	Devachand College, Arjunnagar, Kop
05	Jaysingpur	43	M.Sc. Chemistry , Analytical Chemistry	Jaysingpur College, JAYSINGPUR
06	Urun Islampur	90	M.Sc. Computer Science., M. Sc. Chemistry, Physical Chemistry	1) Karmveer Bhaurao Patil College, Urun Islampur. Dist- Sangli
		88	M.Sc. Computer Science, Chemistry, Organic Chemistry	2) Smt Kusumtai Rajarambapu patil kanya Mahavidylya Urun-Islampur.
07	Palus	104	M.Sc. Computer Science	Arts, Commerce & Science College, PALUS
08	Tasgaon	92	M.Sc. Chemistry, Organic Chemistry	Padm Bhushon DR. Vasantrao dada patil Mahavidyalaya, Tasgaon
09	Sangli	73	M.Sc. Chemistry, Analytical Chemistry	1) Dr.Patangrao Kadam Mahavidylya Sangli
		78	M.Sc. Computer Science,	2) Smt Kasturbai Walchand College Sangli
10	Vita	86	M.Sc. Chemistry Inorganic, Chemistry,	Balwant College, VITA
11	Satara	149	M.Sc.Botany, Chemistry, Organic Chemistry, App. Microbiology, Zoology,	1) Yashwantrao Chavan Institute of Science, SATARA.
		145	M.Sc. Chemistry, Analytical Chemistry	2) Lal Bhadhur Shastri college Satara
12	Dahiwadi	164	M.Sc. Chemistry Organic Chemistry	Dahiwadi College, DAHIWADI.
13	Karad	158	M.Sc., Chemistry, Analytical Chemistry, Microbiology (Regular)	1) Yashwantrao Chavan college of Science College, KARAD
		156	M.Sc.Zoology ,Computer Sci,Chemistry, Organic Chemistry.	2) Sadguru Ghadge Maharaj College Karad
14	Patan	159	M.Sc. Chemistry, Analytical Chemistry	Balasaheb Desai College, PATAN
15	Wai	161	M.Sc. Chemistry, Organic Chemistry,	Kissan Veer Mahavidyalaya, Wai.

**N. B.**

- 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 **Final 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 **Final Programme** of examination sent to his/her Department.
- The Written Examination will be conducted in the following order.

Vidyanagar,  
Kolhapur-416004  
Date :- 25-02-2016

Shri. M.A. Kakade  
Controller of Examinations

## 1. Zoology (Regular) Kollhapur, Satara, Karad.

		Branch Code - Zoology		
		Course Part No. - M.Sc. Part No – 2 (Sem-3)		
PAPER NO.	PAPER CODE	PAPER NAME	DATE	PAPER TIME
IX	45312	Animal in Biotechnology	Monday-21.3.2016	From 3.00 PM To 6.00 PM
X	45313	Enzymology	Wednesday 23.3.2016	
<b>PAPER NO. XI – CHOOSE ANY ONE OF THE FOLLOWING</b>				
XI	45315	Computational Molecular Biology	Monday-28.3.2016	
	45318	Invertebrate Endocrinology		
	45321	Basic Entomology		
	45324	General Sericulture & Moriculture		
	45327	<b>Fisheries Recourses:</b> Inland&Marine Fisheries		
	45330	Food Chemistry		
<b>PAPER NO. XII – CHOOSE ANY ONE OF THE FOLLOWING</b>				
XII	45316	Molecular Biology of Gene	Wednesday 30.3.2016	
	45319	Vertebrate Endocrinology		
	45322	Agricultural Entomology		
	45325	Silk worm Biology&Rearing Technology		
	45328	Fish Pathology & Reproductive Endocrinology		
	45331	Food Processing & Packing		

## 2. ZOOLOGY (REGULAR) ( 1. Kolhapur, 2. Satara, 3. Karad )

		Branch Code - Zoology		
		Course Part No. - M.Sc. Part No – 2 (Sem-4)		
PAPER NO.	PAPER CODE	PAPER NAME	Day & Date	PAPER TIME
XIII	46533	Animal Cell in Biotechnology	Monday- 21.3.2016	From 11.00 AM To 2.00PM
XIV	46534	Toxicology and Immunology	Wednesday 23.3.2016	
<b>PAPER NO. XV – CHOOSE ANY ONE OF THE FOLLOWING</b>				
XV	46535	Cell in Differentiation,Development Specialization	Monday- 28.3.2016	
	46538	Animal Physiology		
	46541	Insect Anatomy and Physiology		
	46544	Cytology, Genetics of Silkworm &Their Host Plants		
	46547	Aquaculture Practices		
	46563	Food Biotechnology		
<b>PAPER NO. XVI – CHOOSE ANY ONE OF THE FOLLOWING</b>				
XVI	46536	Cell Pathology	Wednesday 30.3.2016	
	46539	Applied Physiology		
	46542	Pest Management Concepts		
	46545	Seed & Silk Technology & Economic of Sericulture		
	46548	Fishery Technology		
	46564	Food		

3. . COMPUTER SCIENCE ( REGULAR )

( 1. Kolhapur, 2. Urun – Islampur, 3. Sangli, 4. Karad 5. Palus )

		<b>Branch Code - Computer Science</b>			
		<b>Course Part No. - M. Sc. Part No – 2 ( Sem-3 )</b>			
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DATE</b>	<b>PAPER TIME</b>	
IX	50094	Artificial Intelligence	Tuesday 22.3..2016	From 3.00 PM To 6.00 PM	
X	50095	Compiler Techniques	Saturday 26.3..2016		
XI	50096	Dot Net	Tuesday-29.3.2016		
XII	50097	Parallel Computing	Thursday -31.3.2016		
		Practical			
		Project			
		<b>Branch Code - Computer Science</b>			
		<b>Course Part No. - M. Sc. Part No – 2 ( Sem-4 )</b>			
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DATE</b>	<b>PAPER TIME</b>	
				Internal	

1.

2. PHYSICA CHEMISTRY

EXAM CENTER :- KOLHAPUR, ISLAMPUR

		<b>Branch Code PHYSICAL CHEMISTRY</b>			
		<b>Course Part No. - M.Sc. Part No – 2 (Sem-3)</b>			
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>PAPER TIME</b>	
IX	44028	* Quantum Chemistry	Wednesday 30.3.2016	From 3.00 PM To 6.00 PM	
X	44029	* Electrochemistry	Saturday 02.4.2016		
XI	44030	* Molecular Structure – I	Wednesday- 06.4-.2016		
XII	44033	* Solid State Chemistry	Monday 11.4.2016		
XII	44034	* Advanced Chemical Kinetics			
XII	44035	* Radiation & Photochemistry			
		Practical V			
		Practical VI			

**Note :-** { \* Common Paper with Physical Chemistry (AF) }

		<b>Branch Code PHYSICAL CHEMISTRY</b>			
		<b>Course Part No. - M.Sc. Part No – 2 (Sem-4)</b>			
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>	<b>DAY &amp; DATE</b>	<b>PAPER TIME</b>	
XIII	46296	Statistical Mechanics and Thermodynamics	Friday-1.4.2016	From 11.00 AM To 2.00PM	
XIV	46297	Chemical Kinetics	Tuesday 5.4.2016		
XV	46298	Molecular Structure – II	Saturday-9.4.2016		
XVI	46299	Surface Chemistry	Wednesday 13.4.2016		
		Practical VII			
		Practical VIII			

6. ANALYTICAL CHEMISTRY ( REGLAR )

EXAM CENTER :- KOLHAPUR, JAYSINGPUR, SANGLI, SATARA, PATAN, KARAD

		Branch Code ANALYTICAL CHEMISTRY		
		Course Part No. - M.Sc. Part No – 2 Sem-3		
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
IX	44036	General Analytical Techniques	Wednesday 30.3.2016	From 3.00 PM To 6.00 PM
X	44037	Organo Analytical Chemistry	Saturday 02.4.2016	
XI	44038	Electro-Analytical Techniques in Chemistry	Wednesday- 06.4.2016	
XII	44041	Environmental chemical Analysis & Control	Monday	
XII	44042	Recent Advance in Analytical	11.4.2016	
		Practical V		
		Practical VI		

**Note :- { \* Common Paper with Analytical Chemistry (AF) }**

		Branch Code ANALYTICAL CHEMISTRY		
		Course Part No. - M.Sc. Part No – 2 Sem-4		
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
XIII	46302	Modern Separation Methods in Analysis	Friday-1.4.2016	From 11.00 AM To 2.00PM
XIV	46303	Organic Industrial Analysis	Tuesday 5.4.2016	
XV	46304	Advanced Methods in Chemical Analysis	Saturday-9.4.2016	
XVI	46305	Applied Analysis Chemistry	Wednesday 13.4.2016	
		Practical VII		
		Practical VIII		

**Note :- { \* Common Paper with Analytical Chemistry (AF) }**

7. INORGANIC CHEMISTRY ( REGULAR )

EXAM CENTER :- KOLHAPUR, SANGLI, VITA, SATARA

		Branch Code INORGANIC CHEMISTRY		
		Course Part No. - M.Sc. Part No – 2 Sem-3		
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
IX	44043	Inorganic Chemical Spectroscopy	Wednesday 30.3.2016	From 3.00 PM To 6.00 PM
X	44044	Coordination Chemistry–I	Saturday 02.4.2016	
XI	44045	Nuclear Chemistry	Wednesday- 06.4.2016	
XII	44048	Environmental Pollution	Monday	
XII	44049	Bio-Inorganic Chemistry	11.4.2016	
XII	44050	Selected Topics in Inorganic Chemistry		
		Practical V		
		Practical VI		

**Note :- { Common Paper with Inorganic Chemistry (AF) }**

		Branch Code INORGANIC CHEMISTRY		
		Course Part No. - M.Sc. Part No – 2 Sem-4		
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
XIII	46308	Instrumental Techniques	Friday-1.4.2016	From 11.00 AM To 2.00PM
XIV	46309	Co-Ordination Chemistry – II	Tuesday 5.4.2016	
XV	46310	Chemistry of Inorganic Materials	Saturday-9.4.2016	
XVI	46311	Separation Science	Wednesday 13.4.2016	
		Practical VII		
		Practical VIII		

**Note :- { Common Paper with Inorganic Chemistry (AF) }**

## 8. ORGANIC CHEMISTRY ( REGULAR )

EXAM CENTER :- KOLHAPUR, TASGAON, ISLAMPUR, SANGLI, SATARA, WAI, DAHIWADI, KARAD

		Branch Code	ORGANIC CHEMISTRY		
		Course Part No. - M.Sc. Part No – 2 (Sem-3)			
PAPER NO.	PAPER CODE	PAPER NAME		DAY & DATE	PAPER TIME
IX	44051	Organic Reaction Mechanism		Wednesday 30.3.2016	From 3.00 PM To 6.00 PM
X	44052	Advanced Spectroscopic Methods		Saturday 02.4.2016	
XI	44053	Advanced Synthetic Methods		Wednesday- 06.4.-2016	
XII	44056	Drugs and Heterocycles		Monday 11.4.2016	
XII	44057	Heterocyclic			
		Practical V			
		Practical VI			

**Note :-** { \* Common Paper with Regular Organic Chemistry (AF) }

		Branch Code	ORGANIC CHEMISTRY		
		Course Part No. - M.Sc. Part No – 2 (Sem-4 )			
PAPER NO.	PAPER CODE	PAPER NAME		DAY & DATE	PAPER TIME
XIII	46314	Theoretical Organic Chemistry		Friday-1.4.2016	From 11.00 AM To 2.00PM
XIV	46315	Stereochemistry		Tuesday 5.4.2016	
XV	46316	Chemistry of Natural Products		Saturday-9.4.2016	
XVI	46317	Applied Organic Chemistry		Wednesday 13.4.2016	
		Practical VII			
		Practical VIII			

## 9. BOTANY ( REGULAR )

EXAM CENTER :- KOLHAPUR, SATARA

		Branch Code	- BOTANY		
		Course Part No. - M.Sc. Part No – 2 (Sem-3)			
PAPER NO.	PAPER CODE	PAPER NAME		DATE	PAPER TIME
IX	48249	Plant Ecology, Forestry & Phytogeography		Tuesday- 29.3.2016	From 3.00 PM To 6.00 PM
X	48250	Plant Biochemistry		Thursday 31.3.2016	
XI	<b>Paper no XI –Any one of the Following</b>			Saturday- 2.4.2016	
	48251	Plant Physiology – I			
	48252	Mycology & Plant Pathology – I			
	48253	Cytogenetics & Plant Breeding – I			
	48254	Angiosperm – I			
	48255	Energy Ecology & Environment – I			
	48256	Plant Protection – I			
48257	Plant Biodiversity – I				
XII	<b>Paper no XII –Any one of the Following</b>			Tuesday 5.4.2016	
	48258	Plant Physiology – II			
	48259	Mycology & Plant Pathology – II			
	48260	Cytogenetics & Plant Breeding – II			
	48261	Angiosperm – II			
	48262	Energy Ecology & Environment – II			
	48263	Plant Protection – II			
48264	Plant Biodiversity – II				

10. BOTANY ( REGULAR )

EXAM CENTER :- KOLHAPUR, SATARA

		<b>Branch Code - BOTANY</b>			
		<b>Course Part No. - M.Sc. Part No – 2 (Sem-4)</b>			
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>		<b>DATE</b>	<b>PAPER TIME</b>
XIII	49038	Plant Physiology		Monday-28.3.2016	From 3.00 PM To 6.00 PM
XIV	49039	Plant Propagation & Utilization of Resources		Wednesday 30.3.2016	
<b>XV</b>	<b>Paper no XV – Any one of the Following</b>		Friday- 1.4.2016		
	49040	Plant Physiology – III			
	49041	Mycology & Plant Pathology – III			
	49042	Cytogenetics & Plant Breeding – III			
	49043	Angiosperms - III			
	49044	Energy Ecology & Environment – III			
	49045	Plant Protection – III			
	49048	Plant Biodiversity - III			
<b>XVI</b>	<b>Paper no XVI – Any one of the Following</b>		Monday 4.4.2016		
	49049	Plant Physiology – IV			
	49050	Mycology & Plant Pathology – IV			
	49051	Cytogenetics & Plant Breeding – IV			
	49052	Angiosperm – IV			
	49053	Energy Ecology & Environment – IV			
	49054	Plant Protection – IV			
	49057	Plant Biodiversity – IV			

11. MICROBIOLOGY ( REGULAR )

EXAM CODE :- KOLHAPUR, KARAD

		<b>Branch Code - MICROBIOLOGY</b>			
		<b>Course Part No. - M.Sc. Part No – 2 (Sem-3)</b>			
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>		<b>DATE</b>	<b>PAPER TIME</b>
IX	48243	Biostatistics, Bioinformatics and Scientific Writing		Saturday-2.4.2016	From 11.00 AM To 2.00PM
X	48244	Enzymologist & Enzyme Technology		Monday-4.4.2016	
XI	48245	Microbial Technology		Tuesday-5.4.2016	
XII	48246	Microbial Diversity & Extremophiles		Wednesday-6.4.2016	

		<b>Branch Code - MICROBIOLOGY</b>			
		<b>Course Part No. - M.Sc. Part No – 2 (Sem-4)</b>			
<b>PAPER NO.</b>	<b>PAPER CODE</b>	<b>PAPER NAME</b>		<b>DATE</b>	<b>PAPER TIME</b>
XIII	49028	Food & Dairy Microbiology		Sunday-10.4.2016	From 3.00 PM To 6.00 PM
XIV	49029	Fermentation Technology		Monday-11.4.2016	
XV	49030	Industrial Waste Management		Tuesday-12.4.2016	
XVI	49031	Recombinant DNA Technology		Wednesday-13.4.2016	

12. APPLIED MICROBIOLOGY ( REGULAR )

Center :- SATARA

		Branch Code - APPLIED MICROBIOLOGY	Up to Mar. 2015	
		Course Part No. - M.Sc. Part No – 2 (Sem-3)		
PAPER NO.	PAPER CODE	PAPER NAME	DATE	PAPER TIME
IX	55714	Microbial Ecology & Extremophiles	Saturday-2.4.2016	From 11.00 AM To 2.00PM
X	55715	Biostatistics, Bioinformatics and Scientific Writing	Monday-4.4.2016	
XI	55716	Genetic Engineering	Tuesday-5.4.2016	
XII	55717	Immunology	Saturday-2.4.2016	
		Branch Code - APPLIED MICROBIOLOGY	Up to Oct. 2015	
		Course Part No. - M.Sc. Part No – 2 (Sem-4)		
PAPER NO.	PAPER CODE	PAPER NAME	DATE	PAPER TIME
XIII	55720	Industrial Microbiology	Sunday-10.4.2016	From 3.00 PM To 6.00 PM
XIV	55721	Bioprocesses	Monday-11.4.2016	
XV	55722	Industrial Waste management and Microbial Bioremediation	Tuesday-12.4.2016	
XVI	55723	Quality Control Management in Industry	Sunday-10.4.2016	

13. AGROCHEMICALS & PEST MANAGEMENT ( REGULAR )

EXAM CENTER :- KOLHAPUR,

		Branch Code - A.G.P.M. ( Agrochemical & Pest Management )	[Up to March-2015]	
		Course Part No.- M.Sc. Part No – 2(Sem-3) (Reg)		
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
IX	55539	Pesticide Residues and Toxicology	Friday-18.3.2016	From 3.00 PM To 6.00 PM
X	55536	Pest of Crop Plants & bear Control - I	Saturday-19.3.2016	
XI	55537	Analysis of Agrochemicals	Monday-21.3.2016	
XII	55538	Diseases of Crop Plants – I	Tuesday-22.3.2016	

**Note :-** { Sem 3 - \* Common Paper with A.G.P.M. ( A.F. ) }

		Branch Code - A.G.P.M. ( Agrochemical & Pest Management )	[ Up Oct. 2015]	
		Course Part No. - M.Sc. Part No – 2(Sem-4) (Reg)		
PAPER NO.	PAPER CODE	PAPER NAME	DAY & DATE	PAPER TIME
XIII	55542	Agro Based Marketing Management	Monday 14.3.2016	From 3.00 PM To 6.00 PM
XIV	55543	Pests of Crop Plants – II	Tuesday- 15.3.2016	
XV	55544	Manufacture of Agrochemicals	Wednesday 16.3.2016	
XVI	55545	Diseases of Crop Plants and Their Control - II	Thursday-17.3.2016	
	55546	Practical VII		
	55547	Practical VIII		

**Note :-** { Sem IV - \* Common Paper with A.G.P.M. ( A.F. ) }

15. GEOLOGY ( REGULAR )

EXAM CENTER :- KOLHAPUR

		Branch Code - GEOLOGY	Up to Mar.2015	
		Course Part No. - M.Sc. Part No – 2 (Sem-3)		
PAPER NO.	PAPER CODE	PAPER NAME	DATE	PAPER TIME
IX	55944	Hydrogeology	Tuesday-29.3.2016	From 11.00 AM To 2.00PM
X	55945	Geophysics and Exploration Methods	Thursday-31.3.2016	
XI	55946	Geochemistry	Saturday- 2.4.2016	
XII-	55947	Gemmology & Industrial Mineralogy	Tuesday- 5.4.2016	
	55948	Mining Geology and Mineral Economics		
	55949	Marine Geology		
	55950	Geoinformatics		

		Branch Code - GEOLOGY	Up to Oct. 2015	
		Course Part No. - M.Sc. Part No – 2 (Sem-4)		
PAPER NO.	PAPER CODE	PAPER NAME	DATE	PAPER TIME
XIII	55954	Engineering Geology & Geo-techniques	Tuesday- 29.3.2016	From 3.00 PM To 6.00 PM
XIV	55955	Natural Resource Management	Thursday 31.3.2016	
XV	55956	Environmental Geology	Saturday 2.4.2016	
XVI	55957	Dissertation	Internalcollege Exam	