

SHIVAJI UNIVERSITY, KOLHAPUR

Draft Programme
(University Examination)

**Draft Programme for the University Examination B. Sc. Part II, III Sem III, IV V & VI
to be held in Nov./Dec., 2013**

Circular No. 20 Exam. Nov./Dec., 2013

1. The Students should see their Seat No's & Name in the Namelist and mistakes if any should be communicated to this office IMMEDIATELY.
2. All The candidates are requested to confirm their Examination Seat No's as well as place of examination mentioned on the Notice Board of the University/College at least **Two** days before the date of Examination.
3. The candidate should write correct Seat No. on each answer book. **If candidate writes wrong Seat No. on answer book the performance of such subject will not be considered.**
4. The Candidates are requested to be present at their respective places of examinations **FIFTEEN MINUTES** before the time scheduled for starting of the first paper and **TEN MINUTES** before of starting of each subsequent paper.
5. The Candidates are forbidden to take any book or paper into the Examination Hall.
6. The Candidate should write the answers in **BLUE INK** only.
7. The students are allowed to use the **Non Programmable Scientific Calculators** for numerical calculations at their own cost. **The University will not supply such calculators.**
8. The cellular phone, programmable scientific calculator and digital diary or any other means which can be used for unfair practice are not allowed in the Examination hall.
9. The Seating arrangement is made datewise and subjectwise; therefore, The candidates are requested to see their seating arrangement one day before the date of examination.
10. The Centers and Places of the Examintion will be declare later

B. Sc. Part-II, Semester- III

DAY & DATE	Subject Code No.	Time : 12.00 noon to 2.00 p. m.	Subject Code No.	Time : 3.00 p. m. to 5.00 p. m.
Friday 13-12-2013	49903	Chemistry Paper-V (Physical and Inorganic Chemistry)	49911	Computer Science Paper-V (Fundamentals of Software Engineering)
Saturday 14-12-2013	49903	Chmistry Paper- VI (Organic and Inorganic Chemistry)	49911	Computer Science Paper-VI (Introduction to Object Oriented) Progrrmming Using C++
Monday 16-12-2013	49902	Physics Paper - V (General Physics, Sound and Acoustics)	49913	Plant Protection PAPER-I (Major Crops,methods of Integrated plant protecton)
			49915	Fisheries Paper-I (Fishery Biology)
			49916	Biochemistry Paper- I (Biomolecules)
			49920	Food Scince & Quality Control Paper- V (Food Preservation and Packaging)
			49918	Industrial Microbiology Paper- V (Industrial Production of Fermented food)
			49919	Biotechnology (Optional/vocational) Paper- V (Immunology)
Tuesday 17-12-2013	49902	Physics Paper-VI (Electronics and Computer Programming)	49913	Plant Protection Paper-II (Introduction to weeds and non-insect pests)
			49915	Fisheries Paper-II (Fish Physiology)
			49916	Biochemistry Paper-II (Metabolism and Nutrition)
			49920	Food Science & Quality Control Paper- VI (Fruits and vegetable processing)
			49918	Industrial Microbiology Paper- VI (Quality Control of food Products)
			49919	Biotechnology (Optional/vocational) Paper-VI (Molecular biology)

B. Sc. Part-II, Semester- III

DAY & DATE	Subject Code No.	Time : 12.00 Noon to 2.00 p. m.	Subject Code No.	Time : 3.00 p. m. to 5.00 p. m.
Wednesday 18-12-2013	49905	Zoology Paper-V (Animal Diversity-III)	49912	Astro Physics Paper- I (Elements of Astrophysics)
	49906	Statistics Paper-V (Continuous Probability Distributions)	49921	Pollution Paper-I (Ecology and Pollution)
			49917	Seed Technology Paper-V (Hybrid Seed Production)
Thursday 19-12-2013	49905	Zoology Paper-VI (Genetics & Biological Chemistry)	49912	Astor Physics Paper-II (The sky and Stars)
	49906	Statistics Paper-VI (Bivariate Discrete Distributions and Multiple Regression Analysis)	49921	Pollution Paper-II (Water Pollution-I)
			49917	Seed Technology Paper- VI (Vegetable Seed Production)
Friday 20-12-2013	49904	Botany Paper- V (Plant Physiology)	49901	Mathematics Paper- V (Differential Calculus)
Saturday 21-12-2013	49904	Botany Paper-VI (Utilization of Plants)	49901	Mathematics Paper- VI (Differential Equations)
Monday 23-12-2013	49909	Electronics Paper-V (Linear Circuits)	49907	Geology Paper-V (Mineralogy and Optics)
			49908	Microbiology Paper- V (Cytology, Physiology and Metabolism)
Tuesday 24-12-2013	49909	Electronics Paper- VI (Introduction to Microprocessor)	49907	Geology Paper-VI (Igneous Petrology)
			49908	Microbiology Paper-VI (Microbial genetics)

B. Sc. Part-II, Semester- IV

DAY & DATE	Subject Code No.	Time : 12.00 Noon to 2.00 p. m.	Subject Code No.	Time : 3.00 p. m. to 5.00 p. m.
Thursday 26-12-2013	49993	Chemistry Paper-VII (Physical and Inorganic Chemistry)	50001	Computer Science Paper-VII (Relational Management-Systems).
Friday 27-12-2013	49993	Chemistry Paper- VIII (Organic and Inorganic Chemistry)	50001	Computer Science Paper-VIII (Advanced Object Oriented) Programming Using C++
Saturday 28-12-2013	49992	Physics Paper - VII (Optics and Lasera.)	50006	Plant Protection PAPER-III (Crop Diseases and their Management)
			50008	Fisheries Paper-III (Inland Fisheries)
			50007	Biochemistry Paper- III (Biochemical Techniques)
			50009	Food Science & Quality Control Paper- VII (Quality control of food & food products)
			50003	Industrial Microbiology Paper- VII (Fermentation Technology).
			50004	Biotechnology (Optional/vocational) Paper- VII (Biophysics,enzyme technology)
Monday 30-12-2013	49992	Physics Paper-VIII (Relativity and Modern Physics)	50006	Plant Protection Paper-IV (Insect Pest and their Mangement)
			50008	Fisheries Paper-IV (Aquaculture)
			50007	Biochemistry Paper-IV (Biotechnology and Bioinformatics)
			50009	Food Science & Quality Control Paper- VIII (Cereals and Legume Processing)
			50003	Industrial Microbiology Paper- VIII (Industrial Production of Biofertilisers)
			50004	Biotechnology (Optional/vocational) Paper-VIII (n-DNA technology).

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B. Sc. Part-II, Semester- IV

DAY & DATE	Subject Code No.	Time : 12.00 Noon to 2.00 p. m.	Subject Code No.	Time : 3.00 p. m. to 5.00 p. m.
Tuesday 31-12-2013	49995	Zoology Paper-VII (Animal Diversity-IV)	50005	Astro Physics Paper- III (Cosmic Electrodynamics)
	49996	Statistics Paper-VII (Continuous Probability Distributions- II)	50010	Pollution Paper-III (Air Pollution)
			50002	Seed Technology Paper-VII (Seed Testing)
Wednesday 1-1-2014	49995	Zoology Paper-VIII (Histology and Physiology)	50005	Astro Physics Paper-IV (Galaxies and Planets)
	49996	Statistics Paper-VIII (Statistical Methods)	50010	Pollution Paper-IV (Water Pollution-II)
			50002	Seed Technology Paper- VIII (Seed Quality Control)
Thursday 2-1-2014	49994	Botany Paper- VII (Plant Ecology)	49991	Mathematics Paper- VII (Integral Calulus)
Friday 3-1-2014	49994	Botany Paper-VIII (Development Plants)	49991	Mathematics Paper- VIII (Number Theory)
Saturday 4-1-2014	49999	Electronics Paper-VII (Electronics Circuits)	49997	Geology Paper-VII (Structural Geology Photo geology and Hydrogeology)
			49998	Microbiology Paper- VII (Fundamentals of industrial Microbiology Biostatistics and Bioinformatics)
Monday 6-1-2014	49999	Electronics Paper- VIII (Interfacing with Microprocessor and VHDL Programming)	49997	Geology Paper-VIII (Sedimentary and Metamorphic Petrology)
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DAY & DATE	Subject Code. No.	B. Sc. Part-III Sem - V	
		Time : 3.00 p. m. to 5.00 p. m.	
Saturday, 23-11-2013	54886	1.	Physics Paper-IX (Old) (Mathematical and Statistical Physics)
	59870	1.	Physics Paper-IX (New) (Mathematical and Statistical Physics)
	54892	2.	Chemistry Paper-IX (Physical Chemistry)
	54898	3.	Botany Paper-IX (Under Restructured Course) (Biology of Cryptogams)
	54904	4.	Zoology Paper-IX (Old) (Under Restructured Course) (Functional Anatomy of Non-Chordates)
	59859	4.	Zoology Paper-IX (New) (Functional Anatomy of Non-Chordates)
	54876	5.	Mathematics Paper-IX (Real Analysis)
	54910	6.	Statistics Paper-IX (Probability Distributions-1)
	54917	7.	Geology Paper-IX (Dynamics of Earth)
	54923	8.	Microbiology Paper-IX (Virology)
	54928	9.	Electronics Paper-IX (Linear Integrated Circuits)
	54947	10.	Computer Science Paper-IX (Data Communication)
	54985	11.	Food Sciencs & Quality Control Paper-IX (Fermentation Technology)
	54998	12.	Industrial Microbiology Paper-IX (Environmental Microbiology)
55016	13.	Bio-Technology Paper-IX (OPT/VOC) (Biochemical Techniques)	
54969	14.	Fisheries Paper-V (Fishery Biology-II, Aquaculture Management)	

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B. Sc. Part- III. Sem-V

Draft Programme B. Sc. Sem. Nov. /Dec. 2013 Exam.

DAY & DATE	Subject Code. No.	B. Sc. Part-III Sem-V
		Time : 3.00 p. m. to 5.00 p. m.
Monday, 25-11-2013	54887	1. Physics Paper-X (Old) (Solid State Physics and Solid State Devices)
	59871	1. Physics Paper-X (New) (Solid State Physics and Solid State Devices)
	54893	2. Chemistry Paper -X (Inorganic Chemistry)
	54899	3. Botany Paper-X (Under Restructured Course) Microbiology and Plant Pathology
	54905	4. Zoology Paper-X (Old) (Under Restructured Course) (Biostatistics Bio-informatics and Medical Zoology)
	59860	4. Zoology Paper-X (New) (Biostatistics Bio-informatics and Medical Zoology)
	54877	5. Mathematics Paper-X (Modern Algebra)
	54911	6. Statistics Paper-X (Statistical Inferency) - I
	54918	7. Geology Paper-X (Stratigraphy and Palaenontology)
	54924	8. Microbiology Paper-X (Immunollogy & Serology)
	54929	9. Electronics Paper-X (Communication Systems) - I
	54948	10. Computer Science Paper-X (Visual Basic NET Programming)-I
	54986	11. Food Sciencs & Quality Control Paper-X (Dairy Technology)
	54999	12. Industrial Microbiology Paper-X (Basic Techniques of Biotechnology)
55017	13. Bio-Technology Paper-X (Opt/VOC) (Animal Cell Culture)	
54970	14. Fisheries Paper-VI (Fish Physiology II, Biostatistics and Bioinfermatics)	

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B. Sc. Part- III. Sem-V

Draft Programme B. Sc. Sem. Nov. /Dec. 2013 Exam.

DAY & DATE	Subject Code. No.	B. Sc. Part-III Sem- V
		Time : 3.00 p. m. to 5.00 p. m.
Tuesday, 26-11-2013	54888	1. Physics Paper-XI (Old) (Classical Mechanics)
	59872	1. Physics Paper-XI (New) (Classical Mechanics)
	54894	2. Chemistry Paper-XI (Organic Chemistry)
	54900	3 Botany Paper XI (Genetics)
	54906	4. Zoology Paper-XI (old) (Zoology Paper-III Under Restructured Course) (Physiology)
	59861	4. Zoology Paper-XI (New) (Physiology)
	54878	5. Mathematics Paper-XI (Partial Differential Equations)
	54912	6. Statistics Paper-XI (Design of Experiments)
	54919	7. Geology Paper-XI (Economic Geology)
	54925	8. Microbiology Paper-XI (Food & Industrial Microbiology)
	54930	9. Electronics Paper-XI (8051 Microcontroller.)
	54949	10. Computer Science Paper-XI (Linux Operating System)
	54987	11. Food Science & Quality Control Paper-XI (Bakery and confectionary products)
	55000	12. Industrial Microbiology Paper-XI (Microbial Productions of Metabolites and biain secticides)
	55018	13. Bio-Technology Paper-XI (OPT/VOC.) (Bioprocess Engineering)
	54955	14. Plant-Protection Paper-V (Plant Pathogens and their Management)
54962	15 Pollution Paper-V (Biomedical Aspects of pollution)	
54976	16. Seed Technology Paper-IX (Seed Pathology)	

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B. Sc. Part-III Sem-V

DAY & DATE	Subject Code. No.	B. Sc. Part-III Sem-V
		Time : 3.00 p. m. to 5.00 p. m.
Wednesday, 27-11-2013	54889	1. Physics Paper-XII (Old) (Atomic Physics, Astronomy, Astrophysics)
	59873	1. Physics Paper-XII (New) (Atomic Physics, Astronomy, Astrophysics)
	54895	2. Chemistry Paper-XII (Old) (Analytical and Industrial Chemistry)
	59895	2. Chemistry Paper-XII (New) (Analytical Chemistry)
	54901	3. Botany Paper-XII (Plant Biochemistry)
	54907	4. Zoology Paper-XII (Old) (Zoology Paper-IV Under Restructured Course) (Endocrinology, Environmental Biology and Toxicology)
	59862	4. Zoology Paper-XII (New) (Endocrinology, Environmental Biology and Toxicology)
	54881	5. Mathematics Paper-XII A) Symbolic Logic & Graph Theory
	54882	B) Special Theory of Relativity - I
	54883	C) Differential Geometry - I
	54884	D) Mathematical Modelling - I
	54885	E) Application of Mathematics in Finance
	56474	F) Mechanics-I
	54913	6. Statistics Paper-XII (Programming in 'C')
	54920	7. Geology Paper-XII (Geomorphology, and Remote Sensing)
	54926	8. Microbiology Paper-XII (Agricultural Microbiology)
54931	9. Electronics Paper-XII (Electronic Instrumentation)	
54950	10. Computer Science Paper-XII (E-Commerce)	
54988	11. Food Science & Quality Control Paper-XII (Food quality Control & Waste Management)	
55001	12. Industrial Microbiology Paper-XII (Quality assurance and quality Control of Fermented Products)	
55019	13. Bio-Technology Paper-XII (OPT/VOC.) (Fermentation Technology)	
54956	14. Plant-Protection Paper-VI (Plant Insect Pests and their Management)	
54963	15. Pollution Paper-VI (Pollution and Society)	
54977	16. Seed Technology Paper-X (Seed Entomology)	
Thursday 28-11-2013	54880	1. English (Compulsory) (English For Communication)

B. Sc. Part- III. Sem-VI

DAY & DATE	Subject Code. No.	B. Sc. Part-III Sem - VI	
		Time : 3.00 p. m. to 5.00 p. m.	
Monday, 18-11-2013	58061	1.	Physics Paper-XIII (Nuclear and Particle Physics)
	58066	2.	Chemistry Paper-XIII (Physical Chemistry)
	58071	3.	Botany Paper-XIII (Gymnosperms and Palaeobotany)
	58076	4.	Zoology Paper-XIII (Comparative Anatomy of Chordates)
	58051	5.	Mathematics Paper-XIII (Metric Spaces)
	58081	6.	Statistics Paper-XIII (Probability Distributions-II)
	58087	7.	Geology Paper-XIII (Proterozoic Stratigraphy of India)
	58092	8.	Microbiology Paper-XIII (Microbial Genetics)
	58096	9.	Electronics Paper-XIII (Linear Integrated Circuits and Metlab)
	58112	10.	Computer Science Paper-XIII (Network Technology)
	58136	11.	Food Sciencs & Quality Control Paper-XIII (Food Bio-Technology)
	58147	12.	Industrial Microbiology Paper-XIII (Environmental Pollution and Control)
	58162	13.	Biotechnology Paper-XIII (OPT/VOC) (Plant Biotechnology)
	58128	14.	Fisheries Paper-VII (Marine Ecology and Fisheries)

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B. Sc. Part- III. Sem-VI

DAY & DATE	Subject Code. No.	B. Sc. Part-III Sem-VI
		Time : 3.00 p. m. to 5.00 p. m.
Tuesday, 19-11-2013	58062	1. Physics Paper-XIV (Energy Studies and Material Science)
	58067	2. Chemistry Paper -XIV (Inorganic Chemistry)
	58072	3. Botany Paper-XIV (Angiosperms and Environmental Biology)
	58077	4. Zoology Paper-XIV (Developmental Biology)
	58052	5. Mathematics Paper-XIV (Linear Algebra)
	58082	6. Statistics Paper-XIV (Statistical Inference) - II
	58088	7. Geology Paper-XIV (Phanerozoic Stratigraphy of India)
	58093	8. Microbiology Paper-XIV (Microbial Biochemistry)
	58097	9. Electronics Paper-XIV (Communication Systems) - II
	58113	10. Computer Science Paper-XIV (Visual Basic NET Programming)-II
	58137	11. Food Sciences & Quality Control Paper-XIV (Technology of Meat Fish and Poultry Product)
	58148	12. Industrial Microbiology Paper-XIV (Applications of Biotechnology)
	58163	13. Bio-Technology Paper-XIV (Opt/VOC) (Environmental Biotechnology)
	58129	14. Fisheries Paper-VIII (Fish Pathology and fishery Technology)

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B. Sc. Part- III. Sem-VI

DAY & DATE	Subject Code. No.	B. Sc. Part-III Sem- VI
		Time : 3.00 p. m. to 5.00 p. m.
Wednesday, 20-11-2013	58063	1. Physics Paper-XV (Electrodynamics and Electromagnetic Waves)
	58068	2. Chemistry Paper-XV (Organic Chemistry)
	58073	3. Botany Paper XV (Microbial Genetic Plant Breeding and Boistatastics)
	58078	4. Zoology Paper-XV (Molecular Biology, Biotechnology and Biotechniques)
	58053	5. Mathematics Paper-XV (Complex Analysis)
	58083	6. Statistics Paper-XV (Sampling Theory)
	58089	7. Geology Paper-XV (Prospecting and Mineral Exploration)
	58094	8. Microbiology Paper-XV (Environmental Microbiology)
	58098	9. Electronics Paper-XV (Interfacing Embelled C and P/C)
	58114	10. Computer Science Paper-XV (Advanced Linux Application)
	58138	11. Food Science & Quality Control Paper-XV (Food Hygine and Sanitation)
	58149	12. Industrial Microbiology Paper-XV (Microbial formentations, Foods and biofuels)
	58164	13. Bio-Technology Paper-XV (OPT/VOC.) (Cell Metabolism and virology)
	58118	14. Plant-Protection Paper-VII (Field Techniques in Plant Protection)
	58123	15. Pollution Paper-VII (Teertrial pollution and Recycling)
	58133	16. Seed Technology Paper-XI (Seed Processing and Storage)

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B. Sc. Part-III Sem-VI

DAY & DATE	Subject Code. No.	B. Sc. Part-III Sem-VI	
		Time : 3.00 p. m. to 5.00 p. m.	
Thursday, 21-11-2013	58064	1.	Physics Paper-XVI (Quantam Mechanics)
	58069	2.	Chemistry Paper-XVI (Analytical and Industrial Chemistry)
	58074	3.	Botany Paper-XVI (Molecular Biology and Biotechnology)
	58079	4.	Zoology Paper-XVI (Applied Zoology)
	58055	5.	Mathematics Paper-XVI A) Algorithms and Boolean Algebra
	58056		B) Special Theory of Relativity - II
	58057		C) Differential Geometry -II
	58058		D) Mathematical Modelling -II
	58059		E) Application of Mathematics in Insurance
	58060		F) Mechanics-II
	58084	6.	Statistics Paper-XVI (Operation Research)
	58090	7.	Geology Paper-XVI (Geology and Hydrogeology)
	58095	8.	Microbiology Paper-XVI (Clinical Microbiology)
	58099	9.	Electronics Paper-XVI (Power Electronics)
	58115	10.	Computer Science Paper-XVI (Web Technology)
	58139	11.	Food Science & Quality Control Paper-XVI (Processing of Snacks and Instant Foods)
58150	12.	Industrial Microbiology Paper-XVI (Industrial Mangement Govt. Laws and Regulations)	
58165	13.	Bio-Technology Paper-XVI (OPT/VOC.) (Gene Biotechnology and Bio informatics)	
58119	14.	Plant-Protection Paper-VIII (Laboratory Techniques in Plant Protections)	
58124	15.	Pollution Paper-VIII (Monitoring and Controll of Pollution)	
58134	16.	Seed Technology Paper-XII (Seed farm Managment an Marketing)	
Friday 22-11-2013	58054	1.	i) English (Compulsory) (English For Communication)

Note : The Examination Programme is subject to change. Candidates are therefore advised to see the Final Programme If there is any change in the Examination Programme the University is not responsible for the loss or inconvenience caused to the candidates.

VIDYANAGAR,
Kolhapur-416 004.
Date : 31-8-2013

Dr. B. M. Hirdekar
Controller of Examinations