Annexure: Courses and Subjects offered

Subject offered at UG level

STREAMS	Subjects offered compulsory	Optional Subjects
ARTS	Marathi, English,	Economics, History,
		Philosophy, Political Science
COMMERCE	English, Marathi,	Accountancy,
		Organization of Commerce, Secretarial Practice, and Income Tax.
SCIENCE	English, Marathi,	Group I- Botany, Chemistry, Zoology.
		Group II- Microbiology, Chemistry, Zoology.
		Group III- Computer Science, Physics and Mathematics.
		Group IV- Chemistry, Physics and Mathematics.
BCA	English, Marathi	Computer Fundamentals, Digital Techniques, Discrete Mathematics, Communication Skills.

Courses available at PG level are-

STREAMS	Classes	Papers
ARTS	M. A. Part I Marathi	Prachin Va Arvachin Gadya,
		Arvachin Kavita
		Kadambari/Natak
		Sahitya Shatstra.
	M. A. Part II Marathi	Prachin Kavita,
		Vishesh Granthakar Sant Tukaram/Bhalchandra Nemade/Uddhava Shelke.
		Arvachin Marathi Vangmayacha Itihas.
		Marathi Bhashya Vidnyan.
COMMERCE	M. Com. I	Semester I-
		Managerial Economics.
		Service Marketing and Costumer Relationship Management.

		Advance Financial and Cost Accounting.
		Banking and Insurance Services.
		Semester II-
		Accounting and Managerial Decision,
		Strategic Management
		Management Consent and Organizational Behaviour.
		Computer Application in Business.
	M. Com II	Semester III
		Research Methodology
		Services Marketing and Customer relationship
		Strategic Management
		E-Commerce and Legal Services
		Semester IV
		Project Report and Viva-voce
		Any one combination of the following-
		Group A: Finance-FIM, PPC, SPM. / Group B: Marketing-ASM, MRE, ITM.
		Group C: International Marketing.
SCIENCE	M. Sc. Chemistry Part I	Semester I
		Paper I: Inorganic Chemistry
		Paper II: Organic Chemistry
		Paper III: Physical Chemistry
		Paper IV: Modern Methods of Separation.
		Semester II
	M. Sc. Chemistry Part I	Paper V: Co-ordination Chemistry
		Paper VI: Organic Chemistry
		Paper VII: Physical Chemistry
		Paper VIII: Optical Methods and Environmental Chemistry.
	M. Sc. Chemistry Part II	Semester III
		Paper IX: Spectroscopy I,
		Paper X: Analytical Chemistry (Thermal and Electro-analytical Methods).
		Paper XI: Spetical Paper I (Organic Chemistry)Organic synthesis I.
		Paper XII: Spetical Paper I (Organic Chemistry)Natural Product I.
		Semester IV

		Paper XIII: Spectroscopy II,
		Paper IVX: General Analytical Chemistry
		Paper XV: Spetical Paper I (Organic Chemistry)Organic synthesis II.
		Paper XVI: Spetical Paper I (Organic Chemistry)Natural Product I.
	M. Sc. Botany	Sem I
		Paper -I : Cell Biology, Cytology And Genetics
		Paper -II : Resourceutilization And Conservation
		Paper –III : Biology And Diversity Of Algae And Bryophytes
		Paper –Iv : Plant Development And Reproduction
		Sem II
		Paper -V : Cytology And Molecular Biology
		Paper -VI : Resourceutilization And Conservation
		Paper –VII : Biology And Diversity Of Microbes And Fungi
		Paper –VIII : Plant Metabolism
		SEM III
		Paper -IX : Biology And Diversity Of Pteridophytes And Gymnosperms
		Paper -X : Taxanomy Of Angiosperms
		Paper –XI : Plant Tissue Culture- I (Elective)
		Paper –XII : Plant Tissue Culture- Ii (Elective)
		Sem Iv
		Paper -XIII : Plant Ecology
		Paper -XIV : Environmental Biology
		Paper –XV : Plant Biotechnology
		Paper –XVI : Genetic Engineering

	M. Sc. Mathematics	Semester I Paper I: Real Analysis Paper II: Advance Abstract Algebra and Ring Theory. Paper III: Complex Analysis Paper IV: Topology I Paper V: Differential Geometry Semester II Paper VI: Measure and Integration Theory Paper VII: Advance Linear Algebra and Field Theory Paper VIII: Integral Equation Paper IX: Topology IInd. Paper X: Riemannian Geometry Semester III: Paper XI: Functional Analysis I Paper XII: Advanced Mechanics Paper XIII: Operational Research Paper XIV: General Relativity Paper XV: Fluid Dynamics I Semester IV Paper XVI: Functional Analysis II Paper XVII: Partial Differential Equations. Paper XVIII: Numerical Analysis Paper XIX: Relativistic Cosmology. Paper XX: Fluid Dynamics II
	M. Sc. Microbiology	M. Sc. Part I: Semester I Paper-I Microbial Techniques. Paper-II Microbial Enzymology. Paper-III Microbial Physiology And Photosynthesis. Paper-IV Environmental Microbiology M.Sc Part I (Microbiology) Examination (Semester –II) Paper-V Biostatistics, Bioinformatcs And Computer Applications. Paper-VI Enzyme Technology Paper-VII Microbial Metabolism. Paper-VIII Environmental Microbiology And Extremophiles Microbiology Semester III Paper 3s: Molecular Biology And Genetic Engineering

		M.Sc Part II (Semester IV) Paper XIII Biotechnology Paper-XIV Clinical Virology Paper-XV Microbial Technology Paper-XVI Medical Microbiology
	M. Sc. Physics	M.Sc.Semester-I 1Phy1 Mathematical Physics 1Phy2 Classical Mechanics 1Phy3 Quantum Mechanics-I 1Phy4 Computational Methods and Programming 1Phy 5 LABORATORY COURSE- 1 1Phy 6 LABORATORY COURSE- 2 M.Sc.Semester-II 2 Phy1 Electrodynamics-I 2 Phy2 Quantum Mechanics-II 2 Phy3 Solid State Physics 2Phy 4 (i) Net work Theorems and Solid State Devices 2Phy 4 (ii) Lasers & Laser Applications 2Phy 5 LABORATORY COURSE- 1 2 Phy 6 LABORATORY COURSE- 2 M.Sc.Semester-III 3 Phy 1 Electrodynamics -II (Radiation & Plasma Physics) 3 Phy 2 Statistical Mechanics 3 Phy 3 Atomic & Molecular Physics 3 Phy 4 (i) Digital Techniques 3 Phy 4 (ii) Condensed matter Physics-I 3 Phy 4 (iii) Analogue Communication 3 Phy 4 (iv) Photonics-I 3 Phy 5 Lab on elective (Specialization) – 3 Phy 6 Review +Seminar Report Evaluation(Survey) M.Sc.Semester-IV 4 Phy 1 Nuclear & Particle Physics 4 Phy 2 OPAMP theory and applications 4 Phy 3 (i) Micro-processor Programming and Interfacing 4 Phy 3 (ii) Condense Matter Physics-II 4 Phy 3 (iii) Digital Communication 4 Phy 3 (iv) Photonics-II 4 Phy 4 (i) Advance Microprocessors 30 and Microcontrollers 4 Phy 4 (ii) Nano-science and Nanotechnology 4 Phy 5 Lab on elective (Specialization)
	M. Sc. Zoology	**M.Sc. I Semester I**

		Paper-I Animal Structure and Function (Non-Chordata)
		Paper- II Animal Structure and Function (Chordata)
		Paper- III Gamete Biology
		Paper- IV Genes and Differentiation
		M.Sc. I Semester II
		Paper- V Molecular Cell Biology
		Paper- VI Tools and Techniques in Biology
		Paper- VII Endocrinology
		Paper- VIII Ecology and Environment (Also GIC)
		M.Sc. II Semester III
		Paper- IX Molecular Cytogenetic- I
		Paper- X Molecular Cytogenetic- II
		Paper- XI (Elective paper I) Fisheries-I Fish Nutrition, Capture and Culture Fishery, Fisheries
		Paper-I XII (Elective paper II) Fisheries-II Fish Physiology
		M.Sc.II Semester IV
		Paper- XIII (Compulsory) Biochemistry
		Paper- XIV (Compulsory) Enzymology and Biostatistics
		Paper- XV (Elective paper III) Fisheries-III Fish Harvest and Post Harvest Technology
		Paper- XVI (Elective paper IV) Fisheries-IV, Fish Reproductive physiology and pathology