



- A) B.Sc. Part II Subject combination available same as those the B.Sc. Part I.  
B) B.Sc. Final Subject combination available same as those for B.Sc. Part II.  
C) No other language or subject should be filled by a student in his optional form availability of subject combination will depend upon number of students applying for it.

SUBJECT : COMPULSORY ENGLISH COURSE				
B.Sc.-I	SEMESTER-I	PAPER Internal Assesment	60 15	UNIT-I,II,III,IV
	SEMESTER-II	PAPER Internal Assesment	50 15	

SUBJECT : MARATHI				
B.Sc.-I	SEMESTER-I	PAPER Internal Assesment	60 15	UNIT-I,II,III,IV
	SEMESTER-II	PAPER Internal Assesment	50 15	

SUBJECT : HINDI				
B.Sc.-I	SEMESTER-I	PAPER Internal Assesment	60 15	UNIT-I,II,III,IV
	SEMESTER-II	PAPER Internal Assesment	50 15	

SUBJECT : SUPPLEMENTARY ENGLISH COURSE				
B.Sc.-I	SEMESTER-I	PAPER Internal Assesment	60 15	UNIT-I,II,III,IV
	SEMESTER-II	PAPER Internal Assesment	50 15	

SUBJECT : PHYSICS				MARKS
B.Sc.-I	SEMESTER-I	PAPER - I (PROPERTIES OF MATTER AND MECHANICS)	50	UNIT-I,II,III,IV
	SEMESTER - I	PAPER -II (ELECTRONICS, TIME VARYIGN FIELDS & ELECTRIC CURRENTS) <b>PRACTICAL</b>	50 30	
	SEMESTER -II	PAPER - II (Oscillations, Kinetic theory of gases & Thermodynamics)	50	
	SEMESTER - II	PAPER - II Gravitation, Astrophysics, Magnetism and Magneto Statistics) <b>PRACTICAL</b>	50 30	
B.Sc.-II	SEMESTER - III	PAPER - I (Sound waves, Applied acoustic, Ultrasonic and Power Supply)	50	UNIT-I,II,III,IV
	SEMESTER - III	PAPER - II (Physical optics and Electromagnetic waves) <b>PRACTICAL</b>	50 30	
	SEMESTER - IV	PAPER - I (Solid state physics, X-ray and Lasers)	50	
	SEMESTER - IV	PAPER - II (Solid state electronics and Molecular physics) <b>PRACTICAL</b>	50 30	
B.SC.III	SEMESTER - V	PAPER - I(Atomic physics, free electron theory and Statistical physics)	50	UNIT-I,II,III,IV
	SEMESTER - V	PAPER - II (Quantum mechanics, Nanomaterials and Nanotechnology) <b>PRACTICAL</b>	50 30	
	SEMESTER - VI	PAPER - I (Relativity, Nuclear Physics and Bio Physics)	50	
	SEMESTER - VI	PAPER - II (Electronics, Fiber optics, Communication and Digital electronics) <b>PRACTICAL</b>	50 30	



		<b>SUBJECT : MATHEMATICS</b>	MARKS	
B.Sc.-I	SEMESTER-I	M-1 (ALGEBRA AND TRIGONOMETRY)		
	SEMESTER-I	M-2 (CALCULUS) <b>PRACTICAL</b>	50	UNIT-I,II,III,IV
	SEMESTER-II	M-3 (GEOMETRY, DIFFERENTIAL AND DIFFERENCE EQUATIONS)	50	UNIT-I,II,III,IV
	SEMESTER-II	M-4 (VECTOR CALCULUS AND IMPROPER INTEGRALS) <b>PRACTICAL</b>	30	
	SEMESTER-II	M-4 (VECTOR CALCULUS AND IMPROPER INTEGRALS)	50	UNIT-I,II,III,IV
B.Sc.-II	SEMESTER-III	M-5 (ADVANCED CALCULUS, SEQUENCE AND SERIES)	50	UNIT-I,II,III,IV
	SEMESTER-III	M-6 (DIFFERENTIAL EQUATIONS & GROUP HOMOMORPHISM) <b>PRACTICAL</b>	30	
	SEMESTER - IV	M-7 (PARTIAL DIFFERENTIAL EQUATIONS & CALCULUS OF VARIATION)	50	UNIT-I,II,III,IV
	SEMESTER - IV	M-8 (MECHANICS) <b>PRACTICAL</b>	30	
	SEMESTER - IV	M-8 (MECHANICS)	50	UNIT-I,II,III,IV
B.Sc.-III	SEMESTER - V	M-9 (ANALYSIS)	50	UNIT-I,II,III,IV
	SEMESTER - V	M-10 (METRIC SPACE, COMPLEX I INTEGRATION & ALGEBRA) <b>PRACTICAL</b>	30	
	SEMESTER - V	M-10 (METRIC SPACE, COMPLEX I INTEGRATION & ALGEBRA)	50	UNIT-I,II,III,IV
	SEMESTER - VI	M-11 (ABSTRACT ALGEBRA)	50	UNIT-I,II,III,IV
	SEMESTER - VI	M-12 (DISCRETE MATHEMATICS AND ELEMENTARY NUMBER THEORY (OPTIONAL PAPER))	30	
	SEMESTER - VI	M-12 (DISCRETE MATHEMATICS AND ELEMENTARY NUMBER THEORY (OPTIONAL PAPER))	50	UNIT-I,II,III,IV
	SEMESTER - VI	M-12 (DIFFERENTIAL GEOMETRY (OPTIONAL PAPER))	50	UNIT-I,II,III,IV
	SEMESTER - VI	M-12 SPECIAL THEORY OF RELATIVITY (OPTIONAL PAPER) <b>PRACTICAL</b>	30	
		<b>SUBJECT : ZOOLOGY</b>		
B.Sc.-I	SEMESTER-I	PAPER - I (Life and Diversity of Animals - Nonchordates)		UNIT - I, II, III, IV
	SEMESTER - I	PAPER - II (Environmental Biology)		UNIT - I, II, III, IV
	SEMESTER - II	PAPER - III (Life and Diversity of Animals - Nonchordates)		UNIT - I, II, III, IV
	SEMESTER - II	PAPER - IV (Cell Biology)		UNIT - I, II, III, IV
B.Sc.-II	SEMESTER - III	PAPER - V (Life and Diversity of Animals - chordates)		UNIT - I, II, III, IV
	SEMESTER - III	PAPER - VI (Genetics)		UNIT - I, II, III, IV
	SEMESTER - IV	PAPER - VII (Life and Diversity of Animals -chordates)		UNIT - I, II, III, IV
	SEMESTER - IV	PAPER - VII (Molecular Biology and Immunology)		UNIT - I, II, III, IV
B.Sc.III	SEMESTER - V	PAPER - IX (General Mammalian Physiology - I)		UNIT - I, II, III, IV
	SEMESTER - V	PAPER - X (Applied Zoology - I)		UNIT - I, II, III, IV
	SEMESTER - VI	PAPER - XI (General Mammalian Physiology - II)		UNIT - I, II, III, IV
	SEMESTER - VI	PAPER - XII ((Applied Zoology - I)		UNIT - I, II, III, IV
		<b>SUBJECT : BOTANY</b>	MARKS	
B.Sc.-I	SEMESTER-I	PAPER - I (Viruses, Prokaryotes & Algae)	50	UNIT-I,II,III,IV
	SEMESTER - I	PAPER -II (Fungi,Lichen,Plant-Pathology & Bryophyta) <b>PRACTICAL</b>	30	
	SEMESTER -II	PAPER - I (Pteridophyta & Gymnosperms)	50	UNIT-I,II,III,IV
	SEMESTER - II	PAPER - II (Palaeobotany & Morphology of Angiosperms) <b>PRACTICAL</b>	30	
	SEMESTER - II	PAPER - II (Palaeobotany & Morphology of Angiosperms)	50	UNIT-I,II,III,IV
B.Sc.-II	SEMESTER - III	PAPER - I (Angiosperm Taxonomy)	50	UNIT-I,II,III,IV
	SEMESTER - III	PAPER - II (Cell Biology, Plant Breeding & Evolution) <b>PRACTICAL</b>	30	
	SEMESTER - IV	PAPER - I (Angiosperm Anatomy & Embryology)	50	UNIT-I,II,III,IV
	SEMESTER - IV	PAPER - II (Genetic & Molecular Biology) <b>PRACTICAL</b>	30	
	SEMESTER - IV	PAPER - II (Genetic & Molecular Biology)	50	UNIT-I,II,III,IV
B.Sc.III	SEMESTER - V	PAPER - I(Biochemistry & Plant Physiology- I)	50	UNIT-I,II,III,IV
	SEMESTER - V	PAPER - II (Plant Ecology - I) <b>PRACTICAL</b>	30	
	SEMESTER - VI	PAPER - I (Plant Physiology - II & Biotechnology)	50	UNIT-I,II,III,IV
	SEMESTER - VI	PAPER - II (Plant Ecology - II, Techniques & Ethnobotany) <b>PRACTICAL</b>	30	
	SEMESTER - VI	PAPER - II (Plant Ecology - II, Techniques & Ethnobotany)	50	UNIT-I,II,III,IV
	SEMESTER - VI	PAPER - II (Plant Ecology - II, Techniques & Ethnobotany) <b>PRACTICAL</b>	30	
	SEMESTER - VI	PAPER - II (Plant Ecology - II, Techniques & Ethnobotany)	50	UNIT-I,II,III,IV



		<b>SUBJECT : CHEMISTRY</b>	MARKS	
B.Sc.-I	SEMESTER - I	PAPER - I (INORGANIC CHEMISTRY)	50	UNIT-I,II,III,V
	SEMESTER - I	PAPER - II (PHYSICAL CHEMISTRY)	50	UNIT-I,II,III,V
		<b>PRACTICAL</b>	30	
	SEMESTER - II	PAPER - I (ORGANIC CHEMISTRY)	50	UNIT-I,II,III,V
	SEMESTER - II	PAPER - II (PHYSICAL CHEMISTRY)	50	UNIT-I,II,III,V
		<b>PRACTICAL</b>	30	
B.Sc.-II	SEMESTER - III	PAPER - I (INORGANIC CHEMISTRY)	50	UNIT-I,II,III,V
	SEMESTER - III	PAPER - II (ORGANIC CHEMISTRY)	50	UNIT-I,II,III,V
		<b>PRACTICAL</b>	30	
	SEMESTER - IV	PAPER - I (INORGANIC CHEMISTRY)	50	UNIT-I,II,III,V
	SEMESTER - IV	PAPER - II (PHYSICAL CHEMISTRY)	50	UNIT-I,II,III,V
		<b>PRACTICAL</b>	30	
B.Sc.-II	SEMESTER - V	PAPER - I (ORGANIC CHEMISTRY)	50	UNIT-I,II,III,V
	SEMESTER - V	PAPER - II (PHYSICAL CHEMISTRY)	50	UNIT-I,II,III,V
		<b>PRACTICAL</b>	30	
	SEMESTER - VI	PAPER - I (INORGANIC CHEMISTRY)	50	UNIT-I,II,III,V
	SEMESTER - VI	PAPER - II (ORGANIC CHEMISTRY)	50	UNIT-I,II,III,V
		<b>PRACTICAL</b>	30	

		<b>SUBJECT : MICROBIOLOGY</b>	MARKS	
B.Sc.-I	SEMESTER-I	PAPER - I (History and Microbial Morphology)		UNIT - I,II,III,IV
	SEMESTER - I	PAPER - II (Microbial Diversity)		UNIT - I,II,III,IV
	SEMESTER -II	PAPER - I (Microbial Physiology)		UNIT - I,II,III,IV
	SEMESTER -II	PAPER - II (Microbial Techniques)		UNIT - I,II,III,IV
B.Sc.-II	SEMESTER - III	PAPER - I (Chemistry of Organic Constituents and Enzymology)		UNIT - I,II,III,IV
	SEMESTER - III	PAPER - II (Industrial Microbiology)		UNIT - I,II,III,IV
	SEMESTER - IV	PAPER -I (Metabolism)		UNIT - I,II,III,IV
	SEMESTER - IV	PAPER - II (Applied Microbiology)		UNIT - I,II,III,IV
B.Sc.III	SEMESTER - V	PAPER - I (Medical Microbiology)		UNIT - I,II,III,IV
	SEMESTER - V	PAPER - II (Molecular biology and bioinstrumentation)		UNIT - I,II,III,IV
	SEMESTER - VI	PAPER - I (Immunology)		UNIT - I,II,III,IV
	SEMESTER - VI	PAPER - XII (Biotechnology)		UNIT - I,II,III,IV

		<b>SUBJECT : STATISTICS</b>	MARKS	
B.Sc.-I	SEMESTER-I	STATISTICS PAPER - I (PROBABILITY THEORY)	50	UNIT-I,II,III,V
	SEMESTER-I	STATISTICS PAPER - II (DESCRIPTIVE STATISTICS - I)	50	UNIT-I,II,II,V
		<b>PRACTICAL</b>	30	
	SEMESTER -II	STATISTICS PAPER - I (PROBABILITY DISTRIBUTIONS)	50	UNIT-I,II,III,V
	SEMESTER -II	STATISTICS PAPER - II (DESCRIPTIVE STATISTICS - II)	50	UNIT-I,II,II,V
		<b>PRACTICAL</b>	30	
B.Sc.-II	SEMESTER - I	STATISTICS PAPER - (STATISTICAL METHODS)	50	UNIT-I,II,III,V
	SEMESTER - I	STATISTICS PAPER - II (ECONOMIC STATISTICS)	50	UNIT-I,II,II,V
		<b>PRACTICAL</b>	30	
	SEMESTER - II	STATISTICS PAPER - I (STATISTICAL INFERENCE)	50	UNIT-I,II,III,V
	SEMESTER - II	STATISTICS PAPER - II (APPLIED STATISTICS)	50	UNIT-I,II,III,V
		<b>PRACTICAL</b>	30	
B.Sc.-III	SEMESTER - I	PAPER - I(STATISTICAL QUALITY CONTROL AND LINEAR PROGRAMMING PROBLEM)	50	UNIT-I,II,III,V
	SEMESTER - I	PAPER - II (SURVEY SAMPLING TECHNIQUES)	50	UNIT-I,II,III,V
		<b>PRACTICAL</b>	30	
	SEMESTER - II	PAPER - I (OPERATIONS RESEARCH)	50	UNIT-I,II,III,V
	SEMESTER - II	PAPER - II (EXPERIMENTAL DESIGNS)	50	UNIT-I,II,III,V
		<b>PRACTICAL</b>	30	



		<b>SUBJECT : COMPUTER SCIENCE</b>	MARKS	
B.Sc.-I	SEMESTER-I	PAPER - I (Programming in C)	50	UNIT-I,II,III,V
	SEMESTER-I	PAPER - II (Fundamentals of Information Technology)	50	UNIT-I,II,II,V
		<b>PRACTICAL</b>	30	
	SEMESTER -II	PAPER - I (Objects Oriented Programming using 'C++')	50	UNIT-I,II,III,V
	SEMESTER -II	PAPER - II (System Analysis and Design)	50	UNIT-I,II,II,V
		<b>PRACTICAL</b>	30	
B.Sc.-II	SEMESTER -III	PAPER - (Data Structures)	50	UNIT-I,II,III,V
	SEMESTER -III	PAPER - II (Operating System)	50	UNIT-I,II,II,V
		<b>PRACTICAL</b>	30	
	SEMESTER - IV	PAPER - I (Java Programming)	50	UNIT-I,II,III,V
	SEMESTER - IV	PAPER - II (Linux Operating System)	50	UNIT-I,II,III,V
		<b>PRACTICAL</b>	30	
B.Sc.-III	SEMESTER - V	PAPER - I (Visual Basic Programming)	50	UNIT-I,II,III,V
	SEMESTER -V	PAPER - II (Database Management System)	50	UNIT-I,II,III,V
		<b>PRACTICAL</b>	30	
	SEMESTER - II	PAPER - I (Compiler Construction)	50	UNIT-I,II,III,V
	SEMESTER - II	PAPER - II (SQL & PL/SQL)	50	UNIT-I,II,III,V
		<b>PRACTICAL</b>	30	
		<b>SUBJECT : ELECTRONICS</b>	MARKS	
B.Sc.-I	SEMESTER-I	PAPER - I (Electronics Components, Network Theorems)	50	UNIT-I,II,III,IV
	SEMESTER-I	PAPER - II (Fundamental of Digital Electronics)	50	UNIT-I,II,III,IV
		<b>PRACTICAL</b>	30	
	SEMESTER-II	PAPER - I (Semiconductor Devices)	50	UNIT-I,II,III,IV
	SEMESTER-II	PAPER -II (Advanced Digital Electronics)	50	UNIT-I,II,III,IV
		<b>PRACTICAL</b>	30	
B.Sc.-II	SEMESTER-III	PAPER - I (OP-AMP and Power Supply)	50	UNIT-I,II,III,IV
	SEMESTER-III	PAPER - II (Electronic Circuit Design)	50	UNIT-I,II,III,IV
		<b>PRACTICAL</b>	30	
	SEMESTER - IV	PAPER - I (Analogue and Digital Techiques)	50	UNIT-I,II,III,IV
	SEMESTER - IV	PAPER - II (Electronic Instrumentation)	50	UNIT-I,II,III,IV
		<b>PRACTICAL</b>	30	
B.Sc.-III	SEMESTER - V	PAPER - I (Electronics Communication)	50	UNIT-I,II,III,IV
	SEMESTER - V	PAPER - II (Fundamental of Microprocessor)	50	UNIT-I,II,III,IV
		<b>PRACTICAL</b>	30	
	SEMESTER - VI	PAPER - I (Programming "C")	50	UNIT-I,II,III,IV
	SEMESTER - VI	PAPER - II (Microcontroller 8051)	50	UNIT-I,II,III,IV
		<b>PRACTICAL</b>	30	
		<b>SUBJECT : GEOLOGY</b>	MARKS	
B.Sc.-I	SEMESTER-I	PAPER - I (Introduction to Geology)		UNIT - I, II, III, IV
	SEMESTER-I	PAPER - II (Mineralogy)		UNIT - I, II, III, IV
		PAPER - I (Physical Geology and General Geology)		UNIT - I, II, III, IV
	SEMESTER-II	PAPER -II (Optical Mineralogy and Crystallography)		UNIT - I, II, III, IV
B.Sc.-II	SEMESTER-III	PAPER - I (Igneous Petrology)		UNIT - I, II, III, IV
	SEMESTER-III	PAPER - II (Sedimentary and Metamorphic Petrology)		UNIT - I, II, III, IV
		PAPER - I (Palaeontology)		UNIT - I, II, III, IV
	SEMESTER - IV	PAPER - II (Structural Geology)		UNIT - I, II, III, IV
B.Sc.-III	SEMESTER - V	PAPER - I (Economic Geology)		UNIT - I, II, III, IV
	SEMESTER - V	PAPER - II (Indian Stratigraphy)		UNIT - I, II, III, IV
		PAPER - I (Elements of Remote Sensing and Environmental Geology)		UNIT - I, II, III, IV
	SEMESTER - VI	PAPER - II (Elements Hydrogeology and Geomorphology)		UNIT - I, II, III, IV
		<b>SUBJECT : BIOCHEMISTRY</b>	MARKS	
B.Sc.-I	SEMESTER-I	PAPER - I (Biomolecules & Human Physiology)		UNIT - I, II, III, IV
	SEMESTER - I	PAPER - II (Microbiology and Virology)		UNIT - I, II, III, IV
		PAPER - I (Human Physiology)		UNIT - I, II, III, IV
	SEMESTER - II	PAPER - II (Microbiology & Immunology)		UNIT - I, II, III, IV
B.Sc.-II	SEMESTER - III	PAPER - I (Macromolecules)		UNIT - I, II, III, IV
	SEMESTER - III	PAPER - II (Biophysical Techniques I)		UNIT - I, II, III, IV
		PAPER - I (Enzymology)		UNIT - I, II, III, IV
	SEMESTER - IV	PAPER - II (Biophysical Techniques )		UNIT - I, II, III, IV
B.Sc.III	SEMESTER - V	PAPER - I (Metabolism)		UNIT - I, II, III, IV
	SEMESTER - V	PAPER - II (Molecular Biology)		UNIT - I, II, III, IV
		PAPER - I (Metabolism II)		UNIT - I, II, III, IV
	SEMESTER - VI	PAPER - II (Molecular Biology & rDNA Technology)		UNIT - I, II, III, IV