

**1.3.1. Details of crosscutting issues dealt in Professional ethics, Gender/Human values Environment and Sustainability into the curriculum**

**1. Botany**

Sr. No	Class	Sem	Paper	Name of the issue	Topic from the syllabus	Remarks
1	F.Y.B.Sc.	I <sup>st</sup>	BOT. – 101: Diversity of Lower Cryptogams	Environment and Sustainability	Plant diseases caused by viruses and Bacteria w.r.t. symptoms, causal organism and control measures. Economic Importance of Bacteria - useful and harmful activities, Role of Algae and Fungi in Agriculture, Industries, Medicine, Energy Production	
2	F.Y.B.Sc.	I <sup>st</sup>	Bot. 102: Morphology of Angiosperm	Environment and Sustainability	Structure, functions and Modifications of various parts of Angiospermic plant..	
3	F.Y.B.Sc.	II <sup>nd</sup>	Bot. 201: Diversity of Higher Cryptogams	Environment and Sustainability	Role of Higher cryptogams in Agriculture, Industries, Medicine, Energy Production, soil conservation	
4	F.Y.B.Sc.	II <sup>nd</sup>	Bot. 202: Taxonomy of Angiosperms	Ecological consciousness	Medicinal and economic importance of Angiosperm Families.Role and importance of botanical garden and herbarium.	
5	S.Y.B.Sc.	III <sup>rd</sup>	Bot. 302: Plant Physiology	Environment and Sustainability	Mineral nutrition and absorption of mineral salt and water.	
6	S.Y.B.Sc.	III <sup>rd</sup>	Bot. 304: Mushroom Culture Technology	Professional ethics	Mushroom Culture Technology.	
7	S.Y.B.Sc.	IV <sup>th</sup>	Bot. 401: Plant Embryology	Environment and Sustainability	Seed structure and dispersal, Apomixis and polyembryony	
8	S.Y.B.Sc.	IV <sup>th</sup>	Bot. 402: Plant Metabolism	Environment and Sustainability	Photosynthesis, Respiration, Nitrogen metabolism	
9	S.Y.B.Sc.	IV <sup>th</sup>	Bot. 404: Nursery and Gardening	Environment and Sustainability	Nursery and Gardening, Indoor Gardening, Cultivation practices	
10	T.Y.B.Sc.	V <sup>th</sup>	Bot. 501: Lower Cryptogams	Environment and Sustainability	Plant diseases caused by viruses and Bacteria w.r.t. symptoms, causal organism and control measures Economic Importance of Bacteria - useful and harmful activities, Role of Algae and Fungi in Agriculture, Industries, Medicine, Energy Production, Mycorrhizal applications in Agriculture,	
11	T.Y.B.Sc.	V <sup>th</sup>	Bot. 502: Morphology	Environment and	Economic Importance of Angiospermic Families	

			and Systematics of Angiosperms	Sustainability, Biodiversity		
12	T.Y.B.Sc.	V <sup>th</sup>	Bot. 503: Cell biology and Genetics	Professional ethics	Cell components and their functions, "Science of Heredity"	
13	T.Y.B.Sc.	V <sup>th</sup>	Bot. 504: Plant Physiology and Biochemistry	Environment and Sustainability	Plant growth and Movement, Physiology of flowering, Secondary Metabolites	
14	T.Y.B.Sc.	V <sup>th</sup>	Bot. 505: Biofertilizers	Environment and Sustainability	Biofertilizer technology in Agriculture, Applications of biofertilizers	
15	T.Y.B.Sc.	V <sup>th</sup>	Bot. 506B: Horticulture	Environment and Sustainability	Scope and importance of Horticulture, Fruits and vegetables production technology, Preservation of Fruits and Vegetables	
16	T.Y.B.Sc.	VI <sup>th</sup>	BOT. 601, Paper - I: Higher Cryptogams	Environment and Sustainability	Economic importance of cryptogamic plants.	
17	T.Y.B.Sc.	VI <sup>th</sup>	BOT. 602, Paper - II: Gymnosperms & Paleobotany	Professional ethics	Scope of Paleobotany, types of fossils and geological time scale.	
18	T.Y.B.Sc.	VI <sup>th</sup>	BOT. 603, Paper - III: Molecular Biology	Environment and Sustainability	Molecular biology in relation to genetic material, its inheritance, modification, replication	
19	T.Y.B.Sc.	VI <sup>th</sup>	BOT. 604, Paper - IV: Economic Botany	Environment and Sustainability	Bio resources of prime importance to mankind, Various groups of plants of the world as well of India, Botanical, chemical and nutritional values and value additions of food grains, legumes, sugars, vegetable, fruits, spices, etc	
20	T.Y.B.Sc.	VI <sup>th</sup>	BOT. 605, Paper - V: Floriculture	Environment and Sustainability	Scope and importance of floriculture.	
21	T.Y.B.Sc.	VI <sup>th</sup>	BOT. 606.B, Paper - VI: Plant Breeding	Environment and Sustainability	Techniques of production of new superior crop varieties	

## 2. Biotechnology:

Sr.No.	Class	Sem	Paper	Name of the issue	Topic from the syllabus	Remark
1	T.Y.B.Sc.	V <sup>th</sup>	DSC-I: BT-501: Genetics and Molecular Biology	Gender	Concept and types of Eugenics and Euphenics, Population, gene pool, gene frequency, genetic drift, speciation, Disorders due to mutant genes: Causes,	

					mechanism, diagnosis and treatment of Phenylketonuria urea, alkaptonuria and sickle cell	
2	T.Y.B.Sc.	V <sup>th</sup>	BT-502: Agriculture Biotechnology	Environment and Sustainability	Rhizospheremicroflora and its role in the rhizosphere, Nitrogen Fixation and Biofertilizer, Plant pathology and disease control, Horticulture and Floriculture	
3	T.Y.B.Sc.	V <sup>th</sup>	BT-503: Animal Tissue Culture	Professional Ethics	Human Healthcare Biotechnology, Introduction to Animal Cell and Tissue Culture, Transformation in animal cells,	
4	T.Y.B.Sc.	V <sup>th</sup>	BT-504: Bioengineering	Environment and Sustainability	Basics of Bioengineering, Fermentation media and optimization, Air & Media sterilization, Microbial growth and culture system	
5	T.Y.B.Sc.	V <sup>th</sup>	SEC: BT-505: Food Biotechnology	Environment and Sustainability	Milk, Food Spoilage, Food Preservation, Fermented Food	
6	T.Y.B.Sc.	VI <sup>th</sup>	BT-601: Recombinant DNA Technology	Professional ethics	Basics of rDNA technology, Techniques in rDNA Technology, Health and Medicine: Insulin, Interferon, Hepatitis vaccine, Agriculture: BT, Herbicide resistance	
7	T.Y.B.Sc.	VI <sup>th</sup>	BT-602: Plant Biotechnology	Professional Ethics	Introduction to Plant Tissue Culture, Aseptic techniques of PTC, Applications of transgenic Plants and IPR	
8	T.Y.B.Sc.	VI <sup>th</sup>	BT-603: Immunology	Professional Ethics	Cells and Organs of Immune System, Immunological Disorders, Immunological Technique	

### 3.Chemistry:

Sr. No	Class	Sem.	Paper	Name of the issue	Topic from the syllabus	Remark
01	T. Y. B. Sc.	I & II	CH-505 & CH-605	Professional ethics	Industrial Chemistry- General aspects of Industrial Chemistry, Sugar Industry, Fermentation Industry, Petroleum Industry, Industrial organic synthesis.	---
01	T. Y. B. Sc.	I	CH-506 B	Environment	Green Chemistry – Introduction to green chemistry,	---

					Principle of green chemistry, Techniques in green chemistry, Solvent, Reagent and Catalysis in green chemistry, Future trend in green chemistry.	
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#### 4. Computer:

Sr. No	Class	Sem	Paper	Name of the issue	Topic from the syllabus	Remark
1	T.Y.BSc	Sem-I	Software Engineering	Software Development and Testing	Software Development Model, Software Testing, Design patterns	To develop any software the developer should follow phases of any model and to validate the system testing process is carried out.
2	MSc-II	Sem-III	Software Engineering			

#### 5. Physics :

Sr. No	Class	Sem	Paper	Name of the issue	Topic from the syllabus	Remarks
1	F.Y.B.Sc.	I <sup>st</sup>	PHY 101- Basic Mechanics	Sustainability	Newton's Laws of motion, Centre of Mass, Work and energy, Conservation of energy, Motion of rockets. Conservation of angular momentum.	
2	F.Y.B.Sc.	I <sup>st</sup>	PHY 102- Elasticity and Dynamics	Sustainability	Bernoulli's Theorem Elasticity: Hooke's law, Gravitation: Newton's Law of Gravitation, Kepler's Laws	
3	F.Y.B.Sc.	II <sup>nd</sup>	Phy 201: Electricity and Electrostatics	Sustainability	Kirchhoff's laws, Electric power, Electricity bill calculation	
4	F.Y.B.Sc.	II <sup>nd</sup>	Phy 202: Dielectric Magnetism and Electrostatic	Sustainability	Capacitance and dielectrics: Faraday's laws of electromagnetic induction, Lenz's law,	

5	S.Y.B.Sc.	III <sup>rd</sup>	Phy 301:Heat and Thermodynamics	Environment and Sustainability	Basics of thermodynamics and its First Second Law: Zeroth Law of thermodynamics and temperature. First law and internal energy, Heat Engines: Carnot's Engine, Otto Engine and Cycle, Diesel Engine and Cycle, Efficiencies of all heat engines.
6	S.Y.B.Sc.	III <sup>rd</sup>	PHY 302A: Electronics-I	Sustainability	(1) LEDs (2) Photodiode (3) Solar Cell (P-N Junction), (4) Zener Diode, ZenerDiodeBipolar junction transistor
7	S.Y.B.Sc.	III <sup>rd</sup>	PHY 302 B: Instrumentation	Sustainability	Liquid- in-glass Thermometer, Thermo-electric Sensors, Semiconductor resistance sensors ( Thermistor ),Pyrometer, Microphones
8	S.Y.B.Sc.	III <sup>rd</sup>	PHY 304: Renewable energy and Energy Harvesting.	Environment and Sustainability	Conventional and Non-conventional energy Sources,solarpond,solar water heater, flat plate collector, solardistillation, solar cooker, solar green houses, solar cell, absorption air conditioning.
9	S.Y.B.Sc.	IV <sup>th</sup>	PHY 401: Waves and Oscillations	Sustainability	Waves Motion Resonance and its types- Mechanical resonance Acoustic resonance Electrical resonance (LCR circuit) and Optical resonance
10	S.Y.B.Sc.	IV <sup>th</sup>	PHY 402: Optics and Lasers	Sustainability	LASER, Ruby LASER, He-Ne LASER,Polarimeter or Sacherimeter,thin lenses
11	S.Y.B.Sc.	IV <sup>th</sup>	PHY 404- Electrical Circuits and Network Skills	Sustainability	Generators and Transformers,Single-phase AC & DC motors,Relays. Fuses and disconnect switches. Circuit breakers. Overload devices.Ground-fault protection. Grounding and isolating ,Electrical Wiring and cables.
12	T.Y.B.Sc.	V <sup>th</sup>	PHY 501- Mathematical Physics		-----
13	T.Y.B.Sc.	V <sup>th</sup>	PHY 502- Solid State Physics	Environment and Sustainability	The Crystal Structure Thermal Properties of Solid

14	T.Y.B.Sc.	V <sup>th</sup>	PHY 503- Atomic and Molecular Physics	Sustainability	Quantum numbers, Physical L-S coupling and j-j coupling, Zeeman electron Rotational spectra	
15	T.Y.B.Sc.	V <sup>th</sup>	PHY 504- Electronics-II	Sustainability	FET,UJT,SCR,Counters	
16	T.Y.B.Sc.	V <sup>th</sup>	PHY 505- Solar Energy and Applications	Sustainability	Flat plate collector,Solarcell,Solar water heater,Solar PV arrays (modules),	
17	T.Y.B.Sc.	V <sup>th</sup>	PHY 506- Technical Electronics I	Sustainability	Components and devices, Printed Circuit Board , Printed Circuit Board	
18	T.Y.B.Sc.	VI <sup>th</sup>	PHY 601- Quantum Mechanics	Sustainability	Operators and linear operators	
19	T.Y.B.Sc.	VI <sup>th</sup>	PHY 602- Material Science	Sustainability	Mechanical Properties:. Thermal Properties: Optical Properties: Atomic disorder in materials Phase Diagram	
20	T.Y.B.Sc.	VI <sup>th</sup>	PHY 603- Nuclear Physics	Sustainability	Nucleus and Nuclear Forces, Nuclear Energy Nuclear model,	
21	T.Y.B.Sc.	VI <sup>th</sup>	PHY 604- Modern Physics	Sustainability	Fiber Optics,Holography and its application,Introduction to bioelectricity	
22	T.Y.B.Sc.	VI <sup>th</sup>	PHY 605- Basic Instrumentatio n Skills	Sustainability	Cathode Ray Oscilloscope; Digital Instruments	
23	T.Y.B.Sc.	VI <sup>th</sup>	PHY 606- Technical Electronics-II	Sustainability	Sound System,Public Address System , Medical instruments.Remote Control: Microwave Oven: Cellular Phone: Washing Machine: Electronic Weighing Systems: Infrared Thermometer:	

## 6. Electronics :

Sr. No	Class	Sem	Paper	Name of the issue	Topic from the syllabus	Remarks
1	F.Y.B.Sc.	I <sup>st</sup>	ELE 101- Circuit Component and Network analysis	Environment and Sustainability	Electronic Circuit Components and AC Fundamentals, AC Generators	
2	F.Y.B.Sc.	I <sup>st</sup>	ELE 102- Basic digital Electronics	Environment and Sustainability	Number system and Codes	
3	F.Y.B.Sc.	II <sup>nd</sup>	ELE 201: Analog Electronics	Environment and Sustainability	Semiconductor devices	
4	F.Y.B.Sc.	II <sup>nd</sup>	ELE 202: Digital Circuit	Environment and Sustainability	Data processing circuits and Flip-Flops	
5	S.Y.B.Sc.	III <sup>rd</sup>	ELE-301 Analog Communicatio n	Environment and Sustainability	AM Modulations and Demodulation, AM Transmitter and Receivers, Broadcasting stations	
6	S.Y.B.Sc.	IV <sup>th</sup>	ELE-402 Microcontrol lers and Application	Environment and Sustainability	Architecture of 8051 Microcontroller and Programming	

### 7. Zoology:

Sr.No.	Class	Sem	Paper	Name of the issue	Topic from the syllabus	Remark
1	F.Y.B.Sc.	I <sup>st</sup>	ZOO 101&102 : Invertebrate Zoology	Environment and Sustainability	All Phylum and Class of Invertebrates	
2	F.Y.B.Sc.	I <sup>st</sup>	Grasshopper- The Nonchordate	Environment and Sustainability	Study of Grasshopper	

3	F.Y.B.Sc.	II <sup>nd</sup>	Zoo: 201: Vertebrate Zoology	Environment and Sustainability	All Phylum and Class of Vertebrates	
4	F.Y.B.Sc.	II <sup>nd</sup>	Zoo: 202: Frog-The Chordate	Environment and Sustainability	Study of Frog	
5	S.Y.B.Sc.	III <sup>rd</sup>	Zoo 301 Physiology	Human Values	Study of- Nerve and muscle, Digestion, Respiration, Excretion, Cardiovascular system, Reproduction and Endocrine Glands	
6	S.Y.B.Sc.	IV <sup>th</sup>	Skill Enhancement Course I (Section I) Apiculture	Professional Ethics	Biology of Bees, Rearing of Bees, Diseases and Enemies Bee Economy Entrepreneurship in Apiculture	
7	S.Y.B.Sc.	IV <sup>th</sup>	Zoo 401 Genetics	Gender	Introduction to Genetics, Mendelian Genetics and its Extension, Linkage, Crossing Over and Chromosomal Mapping, Mutations, Sex Determination.	
8	S.Y.B.Sc.	IV <sup>th</sup>	Zoo 402 Evolutionary Biology	Environment and Sustainability	History of Life, Introduction to Evolutionary Theories, Direct Evidences of Evolution Processes of Evolutionary Change, Species Concept, Macro-evolution, Extinction	
9	S.Y.B.Sc.	IV <sup>th</sup>	Skill Enhancement Course II (Section II) Medical Diagnostics	Professional Ethics	Introduction to Medical Diagnostics and its Importance, Diagnostics Methods Used for Analysis of Blood, Diagnostic Methods Used for Urine Analysis, Non-infectious Diseases Infectious Diseases, Tumours	
10	T.Y.B.Sc.	V <sup>th</sup>	Zoo - 501: Reproductive Endocrinology	Gender	Introduction: Definition and Scope of Reproductive Endocrinology, Structure, Morphology, Histology and Reproductive functions of - Pituitary gland, Thyroid and Adrenal gland, Male and Female Gonads, Female Reproductive Cycle	
11	T.Y.B.Sc.	V <sup>th</sup>	Zoo - 503: Mammalian Histology	Professional Ethics	Tissue and Skin, Digestive and Respiratory system, Circulatory, Excretory system, Nervous system and Sense Organs, Reproductive and Endocrine system.	
12	T.Y.B.Sc.	V <sup>th</sup>	Zoo - 505: Public Health and Hygiene	Professional Ethics	Public Health and Hygiene Environment and health hazards, Sanitation and Diseases,	



					Communicable disease and their control measures, Non-communicable diseases their preventive Measures.	
13	T.Y.B.Sc.	V <sup>th</sup>	Zoo – 506 (A): Pest Management	Environment and Sustainability	Introduction, Definition of pest, Insect Vector, Control Measures Types of Pesticides and Their Mode of Action, Non Insect Pests.	
14	T.Y.B.Sc.	VI <sup>th</sup>	Zoo - 601: Study of Leech And Calotes	Environment and Sustainability	Study of Leech, Nervous system and sense organs. Study of Calotes, Respiratory system and respiratory mechanism, Nervous system and sense organs	
15	T.Y.B.Sc.	VI <sup>th</sup>	Zoo - 602: Chick Embryology	Professional ethics	Embryology, Fertilization Cleavage, Development of Chick Embryo, Extra-embryonic membranes	
16	T.Y.B.Sc.	VI <sup>th</sup>	Zoo - 604: Microtechnique	Professional Ethics	Introduction, Collection and Fixation, Definition, Scope and Applications of Microtechnique, Washing, Dehydration, Clearing, Embedding, Block making, Trimming and Mounting Section cutting and affixing, Staining, Mounting, Clearing and camera lucida.	
17	T.Y.B.Sc.	VI <sup>th</sup>	Zoo – 606 (B) Sericulture	Professional Ethics	Introduction Sericulture, Biology of Silkworm, Cultivation of Mulberry, Silkworm Rearing, Important Diseases and Pests.	

### 8. BCA

Sr. No	Class	Sem	Paper	Name of the issue	Topic from the syllabus	Remark
1	BCA	Sem -I &II	BCA 101 Foundation Course for Managers &  BCA 201 Financial Accounting	Fundamental Accounting concepts, terms, jargons and learn the process of recording of financial transactions in the books of Accounts.	Cash Book & Problems on Preparation of Cash Book, Ledger, Balancing of Ledger – Balance c/d and Balance b/d (Opening & Closing Balance)  Bank Reconciliation Statement  Fundamentals of Cost Accounting	To develop the foundation for higher studies in the field of accounting.  To make the students

						competent in preparation of Accounts for the Business Entities .
2	BCA	Sem -II	BCA 202 Professional Communication	To impart the basic communication skills among students.	Basics of Communication, Reading Skills, Written Communication, Organizational Communication	To impart the basic communication skills among students.
3	BCA	Sem -III	BCA 302 Management Information System	To impart the knowledge of Management Information System among students.	MIS in the Organization for system development and database management, MIS Applications in Business for decision making	To impart the knowledge of Management Information System among students.

### 9. History :

Sr. No	Class	Sem	Paper	Name of the issue	Topic from the syllabus	Remark
01	F.Y.B.A.	I	History of India (A.D. 1857-1950)	Gender Values	Socio-religious reform movements	
				Religious Tolerance	Wahabi, Deoband, Aligarh and Singh Sabha Movement	

				Gender Equality	Debates around Gender	
				Nationalism	Formation of Indian National Congress	
02	F.Y.B.A.	II	History of India (A.D. 1857-1950)	National Integrity	Indian Freedom Movement	
				National Integrity	Formation of Swarajya	
03	S.Y.B.A.	III	History of the Marathas (A.D.1605-1750 A.D.)	National Integrity	Shivaji Maharaja's Relation with Adilshahi and Mughals	
				Religious Tolerance	Religious Policy of Chhatrapati Shivaji Maharaj	
04	S.Y.B.A.	IV	History of the Marathas (A.D.1605-1750 A.D.)	National Integrity	Chhatrapati Shahu Maharaj and Rise of Peshwas	
05	S.Y.B.A.	III	History of United States of America (A.D.1776 - A.D. 1945)	Human Values	Declaration of Independence	\
06	S.Y.B.A.	IV	History of United States of America (A.D.1776 - A.D. 1945)	Human Values	American Civil War	
07	S.Y.B.A.	III	History of Ancient India (B.C. 3000 to B.C. 600)	Gender Equality	Vedic Period Social Life	
08	S.Y.B.A.	IV	History of Ancient India (B.C. 600- A.D.1206)	Human Values	Religious Policy of King Ashoka	
09	S.Y.B.A.	III	Research Methodology in History	Professional ethics	Research Methodologies	
10	S.Y.B.A.	IV	An Introduction to Archives in India	Professional ethics	Management of Archives	
11	T.Y.B.A.	V	History of Modern Europe (AD 1781 - AD 1913)	Liberty, Equality	The French Revolution 1789	
				Nationalism	Rise of Nationalism	
12	T.Y.B.A.	VI	History of Modern Europe (AD 1914 - AD 1945)	Human Values, Equality	League of Nation	
				Nationalism	Rise of Dictatorship	
13	T.Y.B.A.	V	History of India (AD 1750 – AD 1857)	Nationalism	Expansion and Consolidation of Colonial Power	
				Human Values	Ideology of Raja Rammohan Roy	
14	T.Y.B.A.	VI	History of India (AD 1750 – AD 1857)	Nationalism	Trade and Industry in India	
				Nationalism	Popular Resistance against British Power	
15	T.Y.B.A.	V	History of India (AD 1206 – AD	Religious Tolerance	Bhakti Movement	

			1526)			
16	T.Y.B.A.	VI	History of India (AD 1526 – AD 1707)	Religious Tolerance	Sufism	
17	T.Y.B.A.	V	Travel and Tourism in India	Professional ethics	Tourism : Planning	
18	T.Y.B.A.	VI	An Introduction to Museums in India	Professional ethics	Management Of Museums	
19	T.Y.B.A.	V	Making of Contemporary India - 1	Human Values	Framing of Indian Constitution- Indian Constitution-Basic Features	
				National Integrity	b. Consolidation of India : Role of Sardar Vallabhbai Patel	
20	T.Y.B.A.	VI	Making of Contemporary India - 2	Human Values, Gender Equality	Social Justice	

#### 10. Economics:

Sr. No	Class	Se m	Paper	Name of the issue	Topic from the syllabus	Remark
1	F.Y.B.A	1st	Introductory Economics	Indifference Curve	Unit No .2	Consumer Behavior in market
		2nd		Budget line	Unit.No.3	How to applied to micro Economic concept real life situation
2	S.Y.B.A	1st	Macroeconomics	Consumption Functions	Unit No. -4	Human Psychology
		2nd		Inflation	Unit No. -3	Understanding The Current Economic Problem
3	T.Y.B.A.	2nd	public Finance	Public Debt/Tax	Unit No.-3	AarthikSakshrata/Economic policies Awareness
		1st		Need Of Government Interventions		Importance of Government Interventions in Our life and Developing Economy

					Unit No. -4	
4	SY B.Com	1 <sup>st</sup> 2 <sup>nd</sup>	Macro Economics	Consumption Function  Inflation	Unit No. – 4  Unit No.- 3	Human Psychology  Understanding the Current Economics Problem
					Unit No.-3	Importance of Education in Human Life
5	TY B.Com	1 <sup>st</sup>	Bharatiyaarthvyava sthechePrtidrushya	Indicators of Human Resource Development		
6	TY B.Com	2 <sup>nd</sup>	Bharatiyaarthvyava sthechePrtidrushya	Inflation	Unit No.-9	Understanding the Current Economic Problem
7	FY B.Com	1 <sup>st</sup>	Micro Economics	Demand and Production	Unit No.-3	Introduce to student our needs and income
8	SYBA	1 <sup>st</sup>	Indian Economics	Nature of Indian Economy	Unit No-1	Understanding students about various issues of indian economy
9	SYBA	1 <sup>st</sup>	Research Methodology	Variety Research method	Unit No.-3	Student got Idea about the research designing
10	TYBA	1 <sup>st</sup>	Indian Economy	Financial system of government state and central	Unit No.-3	Enable the student to have understanding various issues of progress and developing problem of india
11	TYBA	1 <sup>st</sup>	International Trade & Practices	Difference between national and international trade	Unit No.-2	Developing the students capalibity international and national trade
12	TYBA	1 <sup>st</sup>	Indian Economy Environment	Types of business environment	Unit No.-1	Information give to student economic environment and role of business economist

13	TYBA	1 <sup>st</sup>	Principle & Practicessof Banking	Role of banking in economics development	Unit No.-1	Introduction to modern banking and function of bank business
14	TYBA	1 <sup>st</sup>	Financial Market in India	Capital Market meaning features objectives importance of capital market	Unit No.-2	Financial Market in India

### 11. English:

Sr. No	Class	Sem	Paper	Name of the issue	Topic from the syllabus	Remark
1	FYBA	I	Compulsory English	Gender equity	1) Why I want a wife? 2) A cup of tea.	
				Patriotism	Where the mind is without fear?	
				Love for Nature/Env.	The felling of the Banyan tree	
				Benevolence	How much land does a man need?	
				Social manners and etiquettes	Good manners	
				Moral values	The thief	
				False human nature and art	With the photographer, The gold frame	
2	FYBA	I	DSC 1 (A)	Compassion and Humanism	The Happy Prince	
				Being Sceptical	An Astrolger's Day	
				True love and Sacrifice	The Gift of the Magi	
				Parental love	The Lost Child	
3	SYBA	III	DSE1 A/B	Love and humanism	Poems of John Donne, Philip Sydney, Spenser	
				Racial problem, love and friendship	Merchant of venice	
				Human values and Education	Six essays	
				Religion, spirituality and human values	Novel-Pilgrims' Progress	
4	SYBA	III	Compulsory English	Complexity of Human Nature	The Lady or a Tiger	
				Compassion and Humanism	Kabuliwala	
				Significance of Communication Skill	Spoken English, Broken English	
				Rationalism	Modern Improvements	
				Life is Beautiful	All the world's a Stage	

5	SYBA	III	DSE 1 A	Compassion and Love	The Merchant of Venice	
6	SYBA	III	DSC 1 C	Equality and Humanism	Passage to India	
7	TYBA	V	ACE	Communication and human values	Developing communication skills	
		V & VI	DSE3	Parental love and peace	A Prayer for my daughter,	
				Religion	Journey of magi	
				Nature, Poverty and war	The king fisher, Money, Morning of the window, fern hill, The hunchback in park, Now the leaves are falling fast, Dulce et Decorum Est, Futility.	
				Human values- patience and tolerance	Waiting for godot	
				World war and basic human values	Novel-Lord of the Flies	
8	TYBA	V & VI	DSC1 E & F	Gender equity and male dominance	The poem-The sunshine cat Drama- Nagmandal	
				Death, religion and hypocrisy. Love and spirituality	Firehymn, The Horse From exile and From trial	
				Basic Human nature and philosophy. Money madness and human values	Enterprise, philosophy The novel- Dollar Bahu	
9	FYBA	II	DSC 1 (B)	Optimism	Blow, Blow Thou Winter Wind	
				Patience	On His Blindness	
				Fearlessness	Death Be Not Proud	
				Optimism	Ode to the West Wind	
10	SYBA	IV	Compulsory English	Honesty	Salt Inspector	
				Understanding the Rules	All About a Dog	
				Spiritualism	The Power of Prayer	
				Significance of Values	Values in Life	
				Sense of Commitment and Dutifulness	Stopping by Woods On a Snowy Evening	
				Monmentriness of Life	Ozymandias	
11	SYBA	IV	DSE 1 B	Significance of Reading and Literacy	Of Studies	
				Co-existence	Of Anger	
				Manners and Etiquettes	A Treatise on Good Manners and Good Breeding	
				Women Education and Equality	Of the Education of Ladies	

12	SYBA	IV	DSC 1 D	Significance of Law and Order	Arms and The Man	
13	SYBA	III&IV	SEC1 &2	Skills	Grammar, Reading comprehension, vocabulary, sentence rearrangement.	
14	MA-I	I &II	CC 02	Hypocrisy, Love and innocence Religion, Moralty Nature of true love  Death and loss, eternity Nature and beauty, childhood memory War, futility, nothingness.  Art and Culture  Poverty, Education and common human values Search for identity	Prologue to the Canterbury Tales, Christabel, Paradise Lost, The Lunatic, the Lover and the Poet, The Definition of Love. Elegy Written in a County Churchyard Hawk Roosting, Tintern Abbey, Ode to Autumn, Ode to the West Wind. Mental Cases, The Prisoner, The Hollow men. Sailing to Byzantium, Andrea Del Sarto. Scholar Gypsy  Our Hunting Fathers.	
15	MA-I	I&II	OC	Indian tradition, Religion, customs, Patriarchy, Male dominance. Patriotism Corrupt system Gender discrimination Arts , culture and love Homesickness	Bangle Sellers, In the Bazaars of Hyderabad, Inside the Haveli, An Old Woman, Nagamandala. Train to Pakistan Draupadi Girls The Guide The Home Coming	
16	MA-I	I&II	CC 03	Professional ethics, Love, guilt, repentance, magic Social Relations, Human relations, cultures	Doctor Faustus, King Lear, The Way of the World, The Family Reunion.	
17	MA-I	I&II	CC 01	Language and human relations, language and society, language and psychology.	Linguistics and Language Orientation, Sociolinguistics, Psycholinguistics.	



18	M.A-II	III & IV	OC 02	Religion and mortality War and helplessness  Nature, beauty and mortality Love, sin, repentance, guilt , religion and orthodoxy. Loneliness, feminism, discrimination. Desire, envy, hatred, love.	Brahma, Terminus Beat! Beat! Drums, I Sit and Look out, A Farewell to Arms. Birches , Fire and Ice The Scarlet Letter  Words, Departure, Alone, Touched by an angel. Desire Under The Elms, Angels in America.	
19	MA-II	III&IV	CC 05	Love, slavery, hypocrisy.  Morality, loneliness, True Love.	Oronooko or The Royal Slave, The History of Tom Jones, a foundling. Wuthering Heights Mrs. Dalloway, The Buddha of Suburbia	
20	MA-II	III&IV	CC 04	Aesthetics Psychoanalysis  Social Equality Gender Equity Understanding Communication.	Rasa, Dhvani, Vakroti, Alamkara Correspondence between literary and unconscious process. Marxism Gender and Queer Theory Post structuralism, Deconstruction, Text, Differences.	
21	MA-II	III&IV	CC 06	Professional Ethics, .	General areas of research in English language.	

## 12. Geography:

Sr. No	Class	Sem	Paper	Name of the issue	Topic from the syllabus	Remark
1	FYBA	1	(GG-101) Physical Geography ( Lithosphere)	Environment and Sustainability	Work of Geomorphic agents	
2	FYBA	2	(GG-201) Physical Geography (Atmosphere &	Environment and Sustainability	Atmospheric Pressure and winds	

			Hydrosphere)			
3	SYBA	3	(GG-231) General Cartography	Mapping Skill Enrichment.	Introduction of cartography And Maps	
4	SYBA	4	(GG-241) Human Geography	Human Values	The Race of Mankind, Religion and Language	
5	SYBA	3	(GG-232) Geography of Tourism	Professional ethics	Impact of Tourism	
6	SYBA	4	(GG-242) Geography of India	Gender sensitization	Population and Agriculture	
7	SYBA	3	( GG-233) Practical Geography ( Scale and Map Projection)	Mapping Skill Enrichment.	Classification of Map Projection	
8	SYBA	4	( GG-243) Practical Geography ( Surveying)	Mapping Skill Enrichment.	Plane Table Survey	
9	SYBA	3	(GG-234) Regional Planning	Human Values	Regional Planning	
10	SYBA	4	(GG-244) Remote Sensing and GPS Based Project Report	Mapping Skill Enrichment.	Types of Remote Sensing and Aerial Photography	
11	TYBA	5	(GG-351) Environment Geography	Environment and Sustainability	Biodiversity and Environmental Problems	
12	TYBA	6	(GG-361) Population Geography	Gender sensitization	Composition of Population and Population	
13	TYBA	5	(GG-352) Economic Geography	Professional ethics	Economic Activities and Types of Agriculture.	
14	TYBA	6	(GG-362) Political Geography	Human Values	Evolution of State and Nation	
15	TYBA	5	(GG-353) Practical in Human	Gender Sensitization & Equity	Practical in Population Geography	

			Geography and Geo-statistics			
16	TYBA	6	(GG-363) Practical in Physical Geography	Mapping Skill Enrichment.	Interpretation of SOI Toposheets and Drawing of profiles	
17	TYBA	5	(GG-354) Field Techniques and Introduction to Project Report	Human values	CONCEPTS IN FIELD-WORK.	
18	TYBA	6	(GG-364) Geographical Information System	Environment and Sustainability	Application of GIS	
19	TYBA	5	(GG-355) Disaster Risk Management	Environment and Sustainability	Introduction To Disaster Ris	
20	TYBA	6	(GG-365) Sustainability and Development	Environment and Sustainability	SUSTAINABLE DEVELOPMENT	
21	FYBSc	1	(GG-101) Physical Geography ( Lithosphere - 1)	Environment and Sustainability	Earth movements	
22	FYBSc	2	(GG-201) Physical Geography (Atmosphere)	Environment and Sustainability	Insolation and temperature.	
23	FYBSc	1	(GG-102) Morphology and landscape	Environment and Sustainability	Work of sea waves	
24	FYBSc	2	(GG-202) Physical Geography ( Hydrosphere )	Environment and Sustainability	Ocean coast	
25	FYBSc	1	(GG-103) Practical Geography ( Cartographic Technique)	Mapping Skill Enrichment.	Introduction to cartography	
26	FYBSc	2	(GG-203) Practical	Mapping Skill Enrichment.	Construction of Map Projection	

			Geography ( Map Projection)			
27	SYBSc	3	(GG-301) Environmental Geography	Environment and Sustainability	Environmental Problems And Management	
28	SYBSc	4	(GG-401) Human Geography	Human Values	Human Races and Religion	
29	SYBSc	3	(GG-302) Physical Geography of Maharashtra	Environment and Sustainability	Soils and Natural Vegetation	
30	SYBSc	4	(GG-402) Socio- Economic Geography of Maharashtra	Human Values	Population	
31	SYBSc	3	(GG-303) Interpretation of Topographical, Weather Maps and weather data analysis (Practical)	Mapping Skill Enrichment.	Interpretation of SOI Toposheets and Drawing of profiles	
32	SYBSc	4	(GG-403) Surveying and Area Measurement By GPS	Mapping Skill Enrichment.	Plane Table Survey	

### 13. Marathi:

Sr. No	Class	Sem	Paper	Name of the issue	Topic from the syllabus	Remark
1	F.Y.B.A	SemI	Marathi	Unity, Importance of Education ,Humanity	HmidDlwaiYanch iKtha- 'DhaRupyachi Not'	Social Problems
2	F.Y.B.A	SemI	Marathi	Importance of Education	Aadhunik Marathi SahityaPrakar- Ekankika	
3	F.Y.B.A	SemI	Marathi	Humanity	Aadhunik Marathi SahityaPrakar- Kavita	
4	F.Y.B.A	SemI	Marathi	Human values	Aadhunik Marathi SahityaPrakar- Lalitgadya	
5	S.Y.B.A	Sem IV	Spl.Paper- 1	Gender Equality	'Mumbai' Poem	

6	S.Y.B.A	Sem IV	Spl.Paper-1	Gender Equality	'Mumbai' Poem	
7	S.Y.B.A	Sem III	Spl.Paper-1	Human values	Novel-AvakaliPavasachyaDarmyanchiGost	
8	S.Y.B.A	Sem III	Gen	1.Importance of Education & Educational Awareness, 2.Humanity Financial Literacy 3.Solidarity	Unit-I "ShetakryachaAsud"	
9	T.Y.B.A.	Sem V	Spl-4	1.Social unity 2.Nationality	Unit-I ,III BhashaSwarupAaniKarya	
10	T.Y.B.A.	Sem V	Gen.	1.Gender Equality 2.Humanity 3.Unity 4.Women Empowerment	Dalit Ekankkika	
11	T.Y.B.A.	Sem V	Spl.Paper-3	Unity & Humanity	MahanubhauPant hacheSahitya	
12	S.Y.Bsc	Sem I	Gen.	1.Women Empowerment 2.Economical Literacy 3. Gender Equality 4.Emotional Literacy	BalPhondakeYan chi Katha- 'Delivery' katha	

#### 14. Political Science:

Sr. No	Class	Sem	Paper	Name of the issue	Topic from the syllabus	Remark
1	FYBA	I	Indian Constitution	Constitutional Rights and Duties.	Indian Constitutional and Indian federal system	
				Rights, Liberty and Justice	Fundamental rights, Duties and Directives Principle of State policy	
				Women Empowerment(73 and 74 Amendment)	Constitutional bodies and Amendment process	
		II	Indian Government	Powers , function and Law	Government	
				Social Justice.Economical Justice and Individual Justice	Judiciary and Constitutional Commission	
				Duty of Civil Servants	Centre and state relation and civil services	
2	SYBA	III	Introduction to	Introduction to Socio-economical and political	Introduction of Maharashtra	

			administration of Maharashtra	situation of maharashtra		
3	SYBA	IV	Introduction to local and district administration of maharashtra	Panchayat and Sustainable development	Rural and Urban Administration of Maharashtra,law and order	
				Rural,Tribal and Sustainable development	Constitutional and legal board of maharashtra	
4	SYBA	III	Reading Mahatma Gandhi	1)Truth	Gandhijis main concept	
				2) Non violence.	Gandhijis main concept.	
				3)Tolerance	Gandhijis main concept	
				4)Different problems of society	Gandhijis main concep111	
				1 )Communial harmony	Theory of state and Religion	
				2) Morality	Theory of state and Religion	
				1)Untouchability	Thoughts of Gandhi regarding social welfare	
				2)Gender equity	Thoughts of Gandhi regarding social welfare	
				3) Education 4)Cleanliness	Thoughts of Gandhi regarding social welfare	
		IV	Reading Dr.Babasaheb Ambedkar	1)Elimination of poverty	Main concept of Dr.BabasahebAmbedkar	
				2) Discrimination of society	Main concept of Dr.BabasahebAmbedkar	
				3) Equality	Main concept of Dr.BabasahebAmbedkar	
				4)Fundamental human rights	Main concept of Dr.BabasahebAmbedkar	
				5) Gender equality	Main concept of Dr.BabasahebAmbedkar	
				1)Nationalism	Political and Religious Thought	
				2) Socialism	Political and Religious Thought	
				3)Secularism	Political and Religious Thought	
				1)Population	Thoughts of Dr.BabasahebAmbedkar	
				2) Water problem	Thoughts of Dr.BabasahebAmbedkar	
				3) Education	Thoughts of Dr.BabasahebAmbedkar	
5	SYBA	III	Government and Politics of America	Fundamental Human Rights	Constitution of America	
				Civil Servants	Government and Administration of America	

				1)Function of political parties	Political parties and Party system of America	
				2) Social movement	Political parties and Party system of America	
				3) social media	Political parties and Party system of America	
		IV	Government and Politics of China	Constitutional Rights and Duties	Costitution of China	
				1) Administration	Government and Administration of China	
				2) China legilastion	Political parties and Party system of China	
				3)Social movement	Political parties and Party system of China	
				4)Agricultrre	Political parties and Party system of China	
6	TYBA	V	Indian Political Thinker-I	Eco-Drain Theory and Moral Exploitation,Liberalism	DadabhaiNauroji	
				Truth and Non violence, Communal unity	Mahatma Gandhiji	
				Social Reforms,Contenstant Co-Operation ChatusutriProgramm	LolmanyaTilak	
		VI	Indian Political Thinker-II	1)Hindu Nationalism	V. D. Savarkar	
				2) Inter nationalism	V. D. Savarkar	
				3)Militarism	V. D. Savarkar	
				4) Social Reforms	V. D. Savarkar	
				1)Marxism 2) Socialism 3)Caste system	Dr. BabasahebAmbedkar	
				1)Democratic Socialism 2)Planning and Development 3)World Peace	Pandit Nehru	
7	TYBA	V	Western Political Thinker-I	1)Citizenship , 2)slavery 3)Religion 4) State	Aristotle	
				1)Diplomacy 2) Religion 3)King's advice	Machiavelli	
				1) General Will 2) Responsible government	Rousseau	

		VI	Western Political Thinker-II	1) Women Liberty 2) Representative Government	J.S.Mill	
				1) Surplus value 2) Stateless society 3) Dialectical materialism	Karl Marks	
				1) Capitalism 2) Sovereignty	Harold Loski	
8	TYBA	V	Political Sociology-I	1)Political Sociology 2)Political Culture, 3)Alienation	Political Sociology Political System Political Socialisation Political Leadership Political Participation	
		VI	Political Sociology-II	1)Political Participation 2) Political Socialisation 3) Political Modernation and Influence	Political Development, Political Communication Political Culture Political Socialisation, Political Influence Public Opinion and Influence	
9	TYBA	V	Political Journalism-I	Mass Communion	Media and Society, Critism Journalism and Mass Communion	
10	TYBA	VI	Management and Good Governance-II	Managerial responsibility	Management, Good Governance Administration to Leadership	

### 15. Psychology:

Sr. No	Class	Se m	Paper	Name of the issue	Topic from the syllabus	Rema rk
1	FYBA	I	Foundation of psychology	Introducing Psychology	Career in Psychology	Vario us career s
2	FYBA	I	Foundation of Psychology	Cognitive Process	Type of memory	Mem ory impro veme nt
3	SYBA	III	Human developmenta l Psychology	Introduction to Human development	Domain of development	Devel opme nt aware ness
4	SYBA	III	Human Development al Psychology	Introduction to Human development	Human development	Devel opme nt in India
5	SYBA	III	Human	Prenatal development birth	Genetic counselling	Genet



			Developmental psychology	and toddlerhood		ic counselling awareness
6	SYBA	III	Human Developmental psychology	Prenatal development birth and toddlerhood	Development of attachment	Development of attachment awareness
7	SYBA	IV	Human Developmental Psychology - Later life	Adolescence	Sex maturation	Sex maturation awareness
8	SYBA	IV	Human Developmental psychology- Later life	Adolescence	Self-esteem	Self-esteem awareness
9	SYBA	IV	Human Developmental psychology- Later life	Early adulthood	stress	Psychological stress management
10	TYBA	V	Management of Interpersonal relation	Interpersonal communication	Effective communication	Creating a positive Interpersonal awareness
11	TYBA	V	Management of Interpersonal relation	Friendship,love,marriage and intimate relationship	The inter relationship	The internet and relationship awareness
12	TYBA	V	Management of Interpersonal relation	Career and work	Sexual Harassment	Stopping sexual Harassment awareness
13	TYBA	VI	Adjustment in life span	The self	Self concept	Self concept

						awareness
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## 16. Hindi:

Sr. No	Class	Sem.	Paper	Name of the issue	Topic from the syllabus	Remark
1	F.Y .B. A.	DSE – HIN Sem I & II	Kahani ve dha Hindi Kahani	<p>Caste based discrimination and cruelty infecting the Indian society is portrayed. Attack on the Indian social strata.</p> <p>Superstition disseminating in society and causing the caste based exploitation.</p> <p>human innocence</p> <p>child psychology</p> <p>Attack/ Criticism on elders in society.</p> <p>Economical exploitation, discrimination in society.</p> <p>Greediness</p> <p>Feminism, woman psychology, suffering of woman.</p> <p>Middle class life, modernization,</p>	<p>Sadgati- Premchand (Story )</p> <p>Pajeib –Jainendra( Story)</p> <p>Dukkh- Yashapal(story)</p> <p>Tasveer- BhishmaSahani (story)</p> <p>NokriPasha- Kamaleshwar(story)</p> <p>Sauda- Mohan Rakesh(story)</p> <p>Gadal- RagheyaRaghav(story)</p> <p>Jimavar- ChitraMudgal(story)</p> <p>Sarhadkeisspaar-Nashira Sharma (story)</p>	
2.	SY BA .	DSC- HIN231 (A)	Kathettar GadyaVi dhaye	<p>Human relations</p> <p>Love and marriage system</p>	<p>Essay- RashtrakaSwarup- VasudevSharanAgrawa</p> <p>Rajiya- RamvrukshBenipuriRek hachitra</p>	
3.	SY BA .	SEMIII- IV	BhashikS ampresha n	<p>Poverty, helplessness, satire on society</p> <p>Patriotism, communal Harmony, unity of Hindu-Muslim.</p>	<p>DharatiaurDhaan- JivaniAunsh</p> <p>ChorinaurPrayshchitt- Mahatma Gandhi( AatmakathaAunsh)</p>	

4.	SY BA	SEC- HIN- 234,SE MIII-IV	Upannya sVidha( SamaySa rgam)	Patriotism, Indian culture, Friendship  Child innocence, Child psychology	PatzarekPaat- Aadhney( YatraVarnan)  EkGopKaksh- Shankar Puntambekar(vyang)	
5	SY BA	DSE- HIN- 233,SE MIII-IV	LekhanK aushallya : Media evamSah itya	Childhood memory, simplicity, family, friendship, Indian culture	EkTokariBharMitti	
6	SY BA	MIL- HIN- 236,SE M-III- IV	Kavyash astra	Truth experiment wrong doings repentance	KavyakeHetuKavyaKeP rayojan	
7	TY BA	DSE- HIN- 232,SE M-III- IV	Hindi SahityaK altihias	Indian Culture Nationalism	Aadikaal, Bhaktikaal, Aadhunikkaal Hindi kiRashtriyakavyadhara	
8	TY BA	DSEIII( A)HIN DI,SEM -V&VI	Hindi ki Rashtriya Kavyadh ara	Patriotism Love	Technical science  Yatrasahitya	
9	TY BA	GE- 1(A)Hin di,SEM V&VI	Sampada n Lekhana urSahity( MudritM adhyam)	Expression skills	Hindi VyakarantathaAbhiviyak tiKaushallya	
1 0	TY BA	MIL-III Hindi, SEM- V&VI	Vishesh VidhaYa traSahity a	Faith , Truth and Communication	BhashaSaidhantikVivech an	
1 1	TY BA	DSE- E(A)Hi ndi,SE M V&VI	Hindi Vyakara ntathaAb hiviyakti Kaushall ya.	Skill Development	AbhiviyaktiKaushalay	
1 2	TY BA	SEC- III,Hind i,SEM- V&VI	Hindi Bhashya kaVikas	Oral and written communication skills	BhashyaSaidhantikVive chan	

**17. Commerce:**

Sr. No	Class	Semester	Paper	Name of the issue	Topic from the syllabus	Remark
1	S. Y. B Com	III	Business Skill	Self-Assessment	SWOT analysis	
2	T. Y. B Com	VI	Human Resources Management	Employment Grievances	Grievances Redresal Machinery.	
3	T. Y. B Com	VI	Human Resources Management	Performance Appraisal	Making Effective Performance Appraisal	
4	T. Y. B Com	V	Human Resources Management	Human Resource Auditing	Needs of H R Audit.	

**18. Bachelor of Business Administration(BBA) :**

Sr. No	Class	Semester	Paper	Name of the issue	Topic from the syllabus	Remark
1	F.Y.B.B.A.	I	Principal of Management	Employment Grievances	Leadership,	
2	F.Y.B.B.A	I	Professional communication	communication	Business Communication	
3	F.Y.B.B.A	II	Marketing Management	E-Marketing	Marketing Environment	
4	F.Y.B.B.A	II	Managerial Economics	Expert Opinion and survey Techniques	Demand forecasting	
5	S. Y. B B.A.	III	Mathematics and Statistics for Managers	Types of Matrix	Matrices	
6	S. Y. B B.A.	III	Business and corporate Laws	Management of Company Affairs	Control and management of Companies Affairs	
7	S. Y. B B.A.	III	Management of Small Scale Industries	Types of Subsidies and Incentives	Incentives and Subsidies	
8	S. Y. B B.A.	IV	Financial Management	Working Capital Management	Management of Working Capital	