

## Cross Cutting issues Department Wise 2022-23

### Department of English

Class	Subject	Topic and Cross Cutting Issue
FYBA	Compulsory English	1. Engine Trouble- R. K. Narayan (Human Values) 2. On saying Please - AG Gardiner (Human Values) 3. The Gift of the Magi-O Henry (Human Values) 4. Leave this Chanting and Singing - Ravindranath agore (Human Values and Environment and Sustainability) 5. The Felling of the a Banyan Tree- Dilip Chitre (Human Values and Environment and Sustainability) 6. Communication Skills (Professional Ethics & Human Values)
SYBA	Compulsory English	1. A Simple Philosophy-Seathl (Environment and Sustainability ) 2. The Homecoming-Rabindranath Tagore (Human Values) 3. The Verger-W. Somerset Maugham (Human Values) 4. Palanquin Bearers- Sarojini Naidu-(Gender) 5. On the Grasshopper and Cricket-John Keats (Environment) 6. Pied Beauty-G.M. Hopkins (Environment and Sustainability)
TYBA	Compulsory English	1. On the Rule of the Road-A.G. Gardiner (Professional Ethics) 2. How Much Land does a Man Need – Leo Tolstoy (Human Values) 3. A Psalm of Life- Henry Wadsworth Longfellow (Human Values)
FYBCom	Compulsory	1. The Beggar- Anton Chekhav (Human Values) 2. Black Money and the Black Economy- C Rammanohar reddy (Professional Ethics & Human Values) 3. The Nightingale and the Rose-Oscar Wilde(Human Values and Environment and Sustainability) 4. Up-Hill- Christina Rosetti-( Human Values) 5. Stay Calm- Grenville Kleiser -( Human Values) 6. Communication and Life Skills (Professional Ethics & Human Values)
FYBCA	Business Communication	1. Business Communication (Professional Ethics) 2. Listening Skills (Professional Ethics and Human Values) 3. Soft Skills (Professional Ethics and Human Values)

  
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**Department of Hindi**

Sr No	Class	Subject	Topic	Crosscutting Issues
1	F.Y.B.A.	Hindi	एक टोकरी भर मिट्टी - माधवराव सप्रे	Human values
2	F.Y.B.A.	Hindi	ईदगाह- प्रेमचंद	Human Values
3	F.Y.B.A.	Hindi	जुही की कली-निराला	Human Values
4	F.Y.B.A.	Hindi	उतनी दूर मत ब्याहना बाबा -निर्मला पुतुल	Gender equality
5	S.Y.B.A.	Hindi	नाच- अज्ञेय	Human values
6	S.Y.B.A.	Hindi	देश कागज पर बना नक्शा नहीं होता -सर्वेश्वरदायाल सक्सेना	Human Values
7	S.Y.B.A.	Hindi	कितनी रोटी -अशोक चक्रधर	Human Values
8	T.Y.B.A.	Hindi	प्रेमचंद: एक संस्मरण -महादेवी वर्मा	Human values
9	T.Y.B.A	Hindi	रजिया -रामवृक्ष बेनीपुरी	Human Values
10	T.Y.B.A	Hindi	त्यागमूर्ति निराला - शिवपूजन सहाय	Human Values

**Department of Marathi:**

Class	Professional Ethics	Gender	Human Values	Environment Sustainability and
FYBA	--	--	समकालीन मराठी कथा - १.जेव्हा मी जात चोरली होती. २.बाजा - उषाकिरण अत्राम	--



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FYBCom	उत्कर्षवाटा (क्रमिक पुस्तक) १.बिहिजीची यशोगाथा -सचिन चोभे २.प्रभावशाली कापॅरिट महिला - नैना लाल किदवई	--	--	--
SYBA	--	--	--	साहित्यरंग (क्रमिक पुस्तक) १.अरणी - मारुती चित्तमपल्ली
TYBA	--	--	--	--

#### Department of History

Sr.No	Class	Subject	Topic	Crosscutting Issues
1	SYBA	HISTORY	Religious Reforms Movement Society: Cast system and Position of Women	Gender equality Gender equality
2	TYBA	HISTORY	Mass Movement Subaltern Movement	Gender equality Human Values

#### Department of Geography

Sr No	Sr No	Class	cross-cutting issues relevant with Environment
1	Geography	TYBA	Complete understanding of the ecosystems, the changes in environment, natural resources, Conservation, Pollution, Environment Protection, global warming, depletion of ozone layer and loss of biodiversity etc. are included in the syllabus to make the students fully aware about the environmental issues.



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**Department of Commerce:**

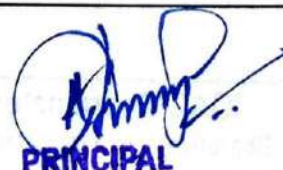
Subject/Paper	Class/ Paper No.	Cross-cutting Issues
<b>Environmental Awareness</b> Concepts and scope of Environmental studies, Natural Resources, Ecosystem, Biodiversity and its conservation, Environmental Pollution, social issues and the environment, Human population & Environment	S.Y. B. Com	Environmental Pollution
<b>Human Rights</b> Human Values, Human Rights & Duties, social status of women & children in international & National perspective, status of social & economically disadvantaged people, human rights of vulnerable group	M. Com	Social status of women and children, Human Rights
<b>Cyber Security</b> Information security concept, security threats, security laws & standards, Security for VPN (virtual private network)& next generation technology	M. Com	Safety and security

**Department of Chemistry**

Sr. No.	Class	Course	Page No.	Year of Implantation_ CBCS 2019 pattern	Crosscutting issue addressed ( Chemistry)
1	F.Y.B.Sc	CH-103	8,9	2019	Environment and sustainability
		CH-203	15,16		
2	S.Y.B.Sc	CH-303	14,16,17,18,19	2020	Environment and sustainability and Human values
3	T.Y.B.Sc	CH-505	4,16,19	2021	Environment and sustainability and Human values, professional issues
		CH-509	25,26		
		CH-511(A)	31,32,		
		CH-605	48,50,61		
4	M.Sc. I	CHP-227	30,31	2019	Environment and sustainability
5	M.Sc. II	CHO-453 (Sec.III)	31,42,44	2020	Environment and sustainability and professional issues



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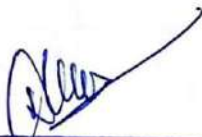
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**Department of Botany**

Sr. No	Subject/Paper	Cross cutting Issues	Values
1	BO 111 -Paper I - Plant Life and Utilization	Life cycle of plants, propagation, utilization of various group of plants	Human value
2	BO 112 Plant morphology and Anatomy	Variation, symmetry in external and Internal morphology of plants	Human value
3	BO 121 Plant life and utilization II	Life cycle of plants, propagation, utilization of various group of plants	Human value
4	BO 122- Paper II- Principles of Plant Science	Plant physiology- Relation of agriculture plants with environment factors Use of Molecular biology in production of GMO plants	Environment and sustainability
7	BO 231 Taxonomy of Angiosperms and Plant Ecology	Systematic study of plants and study of biotic and abiotic factors interaction	Human value
8	BO 232 Paper II- Plant Physiology	Study of factors affecting on plants and human economic progress	Human value And Professional ethics
9	BO 241 Plant Anatomy and Embryology	Study of commercial value of woods, its various types and embryology of plants	Human value
10	BO 242 Paper II-Plant Biotechnology	Use of plants/ microbes life for welfare of man, study of plant genetics	Human value And Professional ethics

**Department of Zoology**

Subject/Paper	Class/ Paper No.	Cross-cutting Issues
<b>Harmful Protozoa/ Useful Protozoa:</b> Economic importance of Phylum Porifera / Cnidaria w.r.t. Corals and Coral reefs / Parasitic adaptations Platyhelminthes/Aschelminthes/Annelida w.r.t. earthworms as friends of farmers and in their role in vermicomposting. /Arthropoda: Useful Insects Harmful insects/Mollusca/Echinodermata.	FYBSc Paper I	Eco-friendliness, Health, Hygiene



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<b>Introduction to Ecology : Ecosystem, Population, Community , Animal interactions.</b>	FYBSc Paper I	Environmental Awareness
Estimation of Dissolved oxygen / Water Alkalinity/ dissolved CO2 from given water sample, Study of animal community structure by quadrat method/Microscopic fauna of freshwater ecosystem / Determination of density, frequency and abundance of species by quadrat method/ Estimation of water holding capacity of given soil sample, Study of Eutrophication in lake/river.	FYBSc Paper III	Environmental Consequences
Study of Agricultural Pest and their control. Study of Fishery	SYBSc Paper II	Environmental Consequences

#### Department of Statistics

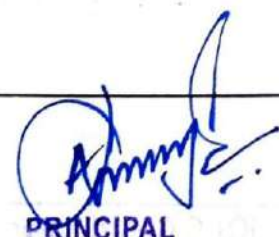
Sr.No	Class	Subject	Topic	Crosscutting Issues
1	F Y B.Sc.	Statistics	Scope of Statistics: In the field of Industry, Biological sciences, Medical sciences, Economics, Social Sciences, Management sciences, Agriculture, Insurance, Information technology, Education and Psychology.	Professional Ethics  Environment and Sustainability into the Curriculum

#### Department of BBA

<b>1. BBA(CA) (Semester VI) 603 : Recent Trends in IT</b>	
Objectives: To study Eco friendly software development.	
1	Network Security Cryptography; Introduction to Cryptography, Substitution Ciphers, Transposition Ciphers, One-Time Pads, Two Fundamental Cryptographic Principles; Symmetric Key Algorithms; DES-The Data Encryption Standards, AES – The Advances Encryption Standard; Public Key algorithms; RSA, Other Public Key algorithms; Digital Signatures, Symmetric-Key Signature, Public key Signature, Message Digests
	Computing and Informatics Introduction to computing, Types of computing: Cloud, Green, Soft, Mobile, Case Study
<b>2. BBA(CA) (Semester IV) 403: Computer Networking</b>	
Objectives: To know about computer network To Provide Network Security and Standard	
1	<b>Network Security Devices</b> Firewalls Packet-Filter firewall Proxy firewall



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<b>2</b>	<b>Internet Basics</b> Concept of Intranet & Extranet Internet Information Server(IIS) Web Server 6.4 World Wide Web( WWW ) Architecture, Web Documents :- static, dynamic and active documents Search Engines Internet Service Providers (ISP).
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<b>3. BBA(CA) (Semester III) 301: Digital Marketing</b>
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<b>Objectives:</b> The aim of this syllabus is to give knowledge about using digital marketing in and as business.
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<b>1</b>	<b>E-Commerce</b> 1.1 Introduction 1.2 Understanding Internet Marketing 1.3 Search Engine Optimization 1.4 Search Engine Marketing 1.5 Email Marketing 1.6 Digital Display Marketing
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<b>4. BBA(CA) (Semester III) 307: Basic Course in Environmental Awareness</b>
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<b>Objective:</b> 1) To provide an opportunities to acquire the knowledge, values, attitudes, commitment, and skills needed to protect and improve the environment 2) To develop conscious towards a cleaner and better managed environment
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<b>1</b>	<b>Introduction -</b> Environmental studies Definition, scope importance and need for public awareness. (Multidisciplinary nature of environmental studies)
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<b>2</b>	<b>Environmental Pollution -</b> Definition, Causes, effects on human, water, soil, air (Mother Earth) Air pollution Water pollution Soil pollution Marine pollution Noise pollution Thermal pollution Nuclear hazards
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<b>3</b>	Various Government initiatives for conservation of Environment. Controlling measures) Solid waste Management: Causes, effects and control measures of urban and industrial wastes. Role of an individual in prevention of pollution. Pollution case studies. Disaster management: floods, earthquake, cyclone and landslides.
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