



#### Rayat Shikshan Sanstha's Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College, Manchar.

#### "Criterion 1- Curricular Aspects"

AQAR 2022-23

1.3.1 Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum.

# Annasaheb Awate Arts, Commerce and Hutatma Babu Genu Science College, Manchar, Tal. Ambegaon, Dist. Pune 410503 Department of Electronic Science

### CROSS-CUTTING COURSES IN THE CURRICULUM

#### A.Y 2022-23

Programme	Title of the Course	Description
TYBSc Electronic	Internet of Things & Applications	

Ms. J B Khilari

Course Co-ordinator

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Ms. A M Dange

Head of the Department Dept. of Electronice Science A. A. College, Manchar

## Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College,

Manchar, Tal- Ambegaon, Dist-Pune

### Department Of Biotechnology

Name of The teacher- Prof. Maskare S. R

Subject-Biotechnology

Course/paper- Recombinant DNA technology, Molecular Biology, Genetics, Environmental biotechnology.

Sr.	Course syllabus	Relevant anage and
No.		Relevant cross cutting
1.	Accessing biotechnology: intellectual property rights, Bio safety and bioethics: capacity for risk assessment, Gene therapy, Genetically modified food and human health, Genetically modified crops and food security, The human genome project.	Professional ethics
2.	Gene variants and transgender identity, Sex determination	Gender
3.	Genetically Modified organisms, Biodiversity, Air quality and climate change, Efficient use of resources, Sustainable consumption patterns	Environment and sustainability

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Department of Biotechio.

Annasaheb Awate College, Mai.

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## Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College,

Manchar, Tal- Ambegaon, Dist-Pune

### Department Of Biotechnology

Name of The teacher- Prof. Ingole D.D

Subject-Biotechnology

Course /paper- Industrial Microbiology, Food Microbiology, Genetics,

Metabolism, Environmental Biotechnology, Applied biotechnology

Sr. No.	Course syllabus	Relevant cross cutting issues
1.	Microorganism isolation and identification, Fermentation technology, food and pharmacology, Genetically Modified organisms, Industrial application of microorganisms	Inclusion of Right to health
	Human rights, Gene variants and transgender identity, Sex determination, Genetically Modified organisms,	Inclusion of Human value in the curriculum.
	use of resources, Sustainable consumption patterns, Pollution control	Inclusion of gender in the curriculum,  Inclusion of Environment and sustainability in the curriculum.  Inclusion of Human value in the curriculum.

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Department of Biotechnoic
Annasaheb Awate College, Manual



Physics

## 1.3.1 - Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability into the Curriculum 2022-23

		crosscutting issues	
		(1. Professional Ethics, 2.	
Sr. No.	Subject	Gender, 3. Human Values,	Sub Point
		4. Environment and	
	TV	Sustainability)	
	DV Color Caretons	Professional Ethics	
	PV Solar System	=	
	(Sem-IV)		
		Environment and Sustainability	Basics types of
			PV Systems On
			grid and off grid,
			DC to AC
			Conversion,
			Building-
			integrated
			Photovoltaic's,
			Engineering and
			Architecture,
			Balancing of PV
			system. System
			Components,
			Batteries, Charge
			Controllers,
			Inverters, Hybrid
			Systems, System
			Sizing,
			Applications of
		- IT	off grid PV
			System
	M. Sc-II	Professional Ethics	
	Energy Studies		r.
		Human Values	
		Environment and Sustainability	Types of energy
			storage systems:
			sensible and later
			heat storage
			systems, Electric
			energy storage
			systems, Chemica energy storage
	/	ED AWATE CO	energy storage

systems, Heat
systems, Heat exchanges,
Hydrostorage, solar pond as a
energy storage,
Green house

1.3.2 Number of courses that include experiential learning through project work/field work/internship during the year 2022-23

Program name		Name of the student studied course on experiential learning through project work/field work/internship
T.Y.B.Sc	PH359	Students Name
	<u>-</u>	Dolas Dipak Tukaram
		Gawade Vijay Kisan
		Lambhate Kedarnath Shivaji
		Mourya Rohit Chandrabhan
		Adhari Nilesh Dipak
		Chaskar Vrushali Ramesh
		Vani Aditya Dattatray
M.Sc. II	PHCT-245	Students Name
		Chaskar Sankalp. B.
		Deshmukh Omkar. D.
		Khokarale Pranali. J.
		Matade Vishal. D.
		Neharkar Abhishek. C.
		Padekar Amol. P.
		Padwal Gauri. K.



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Name of Teacher :- Dr. Gardi B.P.

Subject:- Marathi (2021-22)

Course/ Paper name :- व्यावहारिक व उपयोजित मराठी G1 (v)

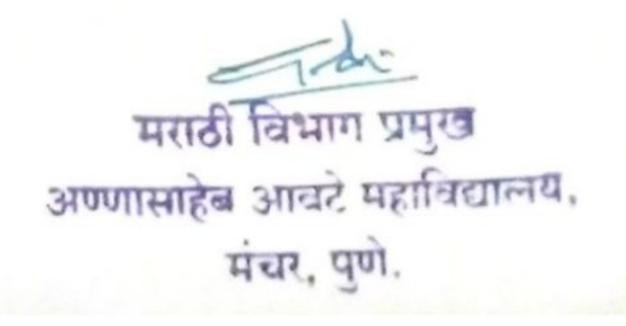
Sr.No.	Course Syllabus	Relevant Cross cutting issues
1	व्यावहारिक व उपयोजित मराठी :	Personality Development
	संवाद लेखन	Language Skill
	भाषिक कौशल्य लेखन कौशल्य	Professional Ethics Skill Enrichment
	भाषांतर	

#### Course/Paper name :- व्यावहारिक व उपयोजित मराठी G2 (v)

Sr.No.	Course Syllabus	Relevant Cross cutting issues
1	व्यावहारिक मराठी :	Personality Development
	भाषांतर	Language Skill
	सारांश	Professional Ethics
	प्रसार माध्यमासाठी लेखन कौशल्य	Skill Enrichment
2	व्यावहारिक व उपयोजित मराठी :	Personality Development
	पत्र लेखन	Language Skill
	टिप्पणी लेखन	Professional Ethics
	अर्ज लेखन	Skill Enrichment
	जनसंपर्क	
	मुलाखत	
	इतिवृत्त लेखन	

#### Course/ Paper name :- नेमलेल्या साहित्य कृतींचा अभ्यास - साहित्यप्रकार

Sr.No.	Course Syllabus	Relevant Cross cutting issues
1	साहित्य प्रकार -	Human Values
	स्त्री पुरुष तुलना माझा अमेरिका प्रवास	
	दिवे गेलेले दिवस	





Name Of The Teacher: Muthe R.P.

Sunject : Marathi (२०२१-२२) Course/Paper Name : मराठी साहित्य कथा आणि भाषिक कौशल्य विकास

Sr.No.	Course/Syllabus	Relevant Cross Cutting Issues
1.	भाषिक कौशल्य :	
	मराठी साहित्य प्रकार : कथा	Personality Development
	कथा साहित्य ः संकल्पना, स्वरूप व वाटचाल	Language Skill Professional Ethics
	कथेचे विशेष, कथेचे घटक	Skill Enrichment
	कथा संग्रह : समकालीन मराठी कथा	

#### Course/Paper Name : उपयोजित मराठी (G3)

Sr.No.	Course/Syllabus	Relevant Cross Cutting Issues
1.	मराठी भाषेचे समाजातील उपयोजन :	The tarte of our carting issues
	भाषा आणि जीवन व्यवहार अर्ज लेखन नभोवाणी वृत्तपत्रे facebook, twiter	Personality Development Language Skill Professional Ethics Skill Enrichment

#### Course/Paper Name : मध्ययुगीन मराठी वाड्मयाचा स्थूल इतिहास (S2)

Relevant Cross Cutting Issues
Personality Development
Professional Ethics Skill Enrichment

#### Course/Paper Name : ग्रामीण साहित्य (M.A.)

Sr.No.	Course/Syllabus	Relevant Cross Cutting Issues
1.	मराठीतील साहित्याची संकल्पनाव स्वरूप:	
	ग्रामीण साहित्य : स्वरूप	Dorsonality D. I
	ग्रामीण साहित्यातील लेखक व त्यांचे साहित्य	Personality Development Language Skill
	ग्रामीण साहित्याचे विशेष	Professional Ethics
	ग्रामीण वेगळेपण	Skill Enrichment



Name Of The Teacher: Mundhe G.D.

Sunject: Marathi (2021-22)

Course/Paper Name : मराठी भाषिक संज्ञापन कौशल्य (MIL)

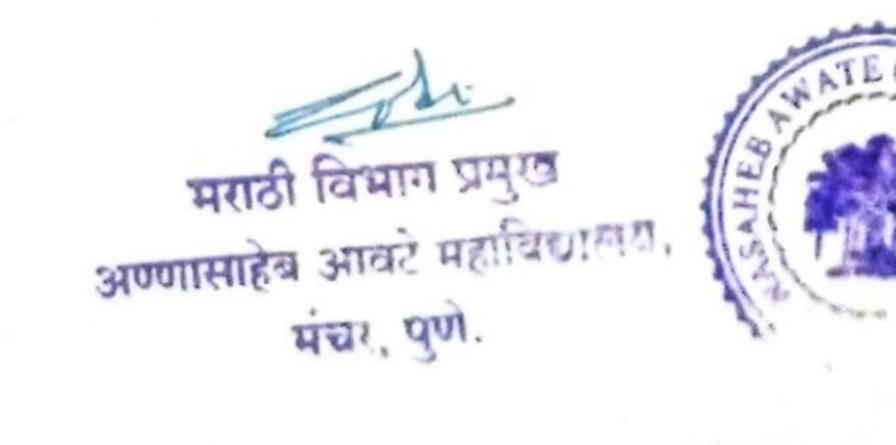
Sr.No.	Course/Syllabus	Relevant Cross Cutting Issues
1.	भाषा आणि व्यक्तिमत्त्व विकास : लोकशाहीतील जीवन व्यवहार प्रसार माध्यमे मुद्रित शोधन संहितालेखन का व कसे करावे नभोवाणीसाठी संहितालेखन	Personality Development Language Skill Professional Ethics Skill Enrichment

#### Course/Paper Name: भाषिक कौशाल्याविकास आणि आधुनिक मराठी साहित्य प्रकार (G3)

Sr.No.	Course/Syllabus	Relevant Cross Cutting Issues
1.	मराठी साहित्य प्रकार :	Personality Development
	कथा, कादंबरी, कविता, निबंध, प्रवासवर्णन	Language Skill
	प्रवासवर्णन : स्वरूप व विशेष	Professional Ethics Skill Enrichment
	तीन मुलांचे चार दिवस	
	कविता : स्वरूप व विशेष	
	रूप कवितेचे : मुल्यमापन व अस्वाद	

#### Course/Paper Name : प्रसार माध्यमांसाठी लेखन कौशल्य (M.A.)

Sr.No.	Course/Syllabus	Relevant Cross Cutting Issues
1.	मुद्रित माध्यमांसाठी लेखन :	Personality Development
	प्रसार माध्यमे आणि भाषा व्यवहार	Language Skill
	नभोवाणी माध्यमासाठी लेखन	Professional Ethics Skill Enrichment
	दूरचित्रवाणी माध्यमांसाठी लेखन	
	मुद्रित माध्यमांसाठी लेखन : महत्त्व व गरज	



Name Of The Teacher: Dr. Rupnar S.S.

Sunject : Marathi िया-गार्थि Course/Paper Name : भाषिक कौशाल्याविकास आणि आधुनिक मराठी साहित्य

प्रकार (G2)

Sr.No.	Course/Syllabus	Relevant Cross Cutting Issues	
1.	मराठी साहित्य प्रकार : लितत गद्य	D L'A Development	
	लिति गद्य : संकल्पना, स्वरूप व वाटचाल	Personality Development Language Skill	
	लिति गद्य : लेखन कौशल्य	Professional Ethics	
	साहित्यरंग : आकलन व मुल्यमापन	Skill Enrichment	
	साहित्यरंग : लेखांचे वाड्मयीन विशेष		

#### Course/Paper Name : व्यावहारिक व उपयोजित मराठी (G3)

Sr.No.	Course/Syllabus	Relevant Cross Cutting Issues
1.	मराठीचा व्यवहारातील उपयोग :	
	सदरलेखन	Personality Development
	अग्रलेखन	Language Skill
	परिसंवाद	Professional Ethics Skill Enrichment
	चर्चासत्र	JKIII LIII ICIIII CIII
	गटचर्चा	
	मराठीविषयक कार्य करणाऱ्या शासकीय संस्था परिचय	

#### Course/Paper Name: लोकसाहित्याची मूलतत्वे आणि मराठी लोकसाहित्य (M.A.)

Sr.No.	Course/Syllabus	Relevant Cross Cutting Issues
1.	समाजातील लोकसाहित्य :	
	लोकसाहित्य : संकल्पना, स्वरूप व व्याप्ती	
	लोकसाहित्याचा अभ्यास	Personality Development
	लोकसाहित्याचे प्रकार	Language Skill
	लोकसाहित्य व लोकजीवन	Professional Ethics Skill Enrichment
	लोकसाहित्याची परंपरा	
	लोककला व लोकसाहित्य यांचा सहसंबंध :	
	पोतराज,वासुदेव,गोंधळी,वाघ्या मुरळी इत्यादी	

मराठी विभाग प्रमुख अण्णासाहेब आवटे महाविद्यालय, मंचर, पुणे.

#### Annasaheb Awate College, Manchar

#### Cross Cutting Issues

The course Bachelor of Arts (English) incorporates issues related to human ethics, business ethics, issues related with gender sensitization, environmental awareness etc. It also deals with basic competency in communications among the people involved in the communication processes at various levels. I appeals to various spheres of life in order to sustain a healthy interaction among them which ultimately leads towards a healthy and interdependent relationship among the learners and the society as a whole.

Sr	Class	Subject	Chapters	Cross Cutting Issues
No	)			1
1.	F.Y.B.Com.	Compulsory		Development of initiative qualities,
		English	Group	Leadership qualities,
			Discussion,	Abilities to work in group, depth of
			Interview	knowledge,
			Techniques	Use of effective linguistic expressions,
			Dialogue Writing,	Development of the polite conversational
			Presentation	skills in written format,
6			Skills,	
0.			Types of	
			Communication,	
			mails	
2	F.Y.B.Com.	Additional English	The World is Too	
			Much With Us,	Creating awareness of the importance of
			Where The Mind	nature in human life,
			is Without Fear	Patriotic and Nationalistic attitude towards
				the nation



3	F.Y.B.A.	Comp.English	Grammar and Communication Skills	Linguistic competence,  Use of grammar in day to day communication in real life situations  Ability to analyse and interpret the things from different perspectives
4	F.Y.B.A.	Optional.English	Grammar and	Linguistic competence,
		G-1	Communication	Use of grammar in day to day
			Skills	communication in real life situations
				Ability to analyse and interpret the things
				from different perspectives
5	F.Y.B.A.	Functional English	Remedial	Linguistic competence,
		_I	Grammar,	Linguuistic performance,
			Linguistic Levels	Enrichment of language skills
			of analysis	
6	F.Y.B.A.	Functional English	Oral	Linguistic competence,
		-II	Communication,	Linguuistic performance,
			Story telling	Enrichment of Spoken skills,
			Personality	Personality Development
			Development	
7	S.Y.B.A.	Comp.English	Grammar and	Use of grammar in day to day
<b>(</b> :			Vocabulary and	communication in real life situations
			Soft Skills	Enrichment of Vocabulary for fluency in
				English language for basic communication
				purposes
8	S.Y.B.A.	Optional English	Phonology,	Familiarization of students to the various
		G 2- Advanced	Morphology,	components of language, Development of overall linguistic
		Study of English	Syntax,	competence
		Language	Semantics,	Enhancement of communicative skills through the advanced areas of language
			Pragmatics	study
9	S.Y.B.A.	English S1-	Theory of Drama,	Enhancement of awareness in the aesthetics



		Appreciating	Types of Drama,	of drama,
		Drama		Empowerment of students to evaluate
			Drama,	drama independently,
				Interpretation and analysis of human ethics
				and values reflected in the prescribed texts
				and its implementation in the real life
				scenario
10	S.Y.B.A.	English S2- Appreciating Poetry	Types of Poetry,	Awareness in the aesthetics of poetry and empowerment of students to get aesthetic sense from the poems Inculcation of the abilities to appreciate and critically evaluate poetry independently
			Selected Poetic	
			Devices	
11	S.Y.B.A.	Functional English Paper III- Paper III: Advanced Writing Skills and Introduction to Electronic Media	Vocabulary,  Basic sentence  Structure,  Introduction to  creative writing,  Letter Writing	Enhancement of students' ability to communicate in written mode,  Awareness of change in language use as per the nature of Media,  Empowerment of students to think and write creatively on their own
-2	S.Y.B.A.	Functional English		Building confidence for effective
		Paper IV	communication,	communication,
		Oral	Formal and	
		Communication in		Enrichment of overall communication
		English:	situations,	abilities,
		1110011110	Reading Skills	Awareness of language etiquettes and
		Key Competency		
		Modules	programme, Role	
		(Practical Paper)	playing, Debating	



	TVDA	Comp. English	Droco and Doots	Literary abilities to study excellent pieces of
13	T.Y.B.A.	Comp. English	Prose and Poetry,	
			Grammar,	prose and poetry in English,
			Writing Skills,	Realization of the beauty and
			Soft Skills and	communicative power of English,
			Employability	Overall personality development,
			Skills	Installment of Humanitarian values and
				sympathetic attitude in students
14	T.Y.B.A.	Optional English	Creative writing,	Finding good career opportunities with
		G 3- Enhancing	Translation,	career etiquettes,
		Employability	Mass Communication	Enrichment of language skills for making
		Skills	and Journalism	livelihood along with the sense of
			Academia and Other Careers	humanistic and moral values
			English for Sales	Enhancement of skills required for
			Services, English for	placement
			Presentation	
			Skills,	
			Writing a Project, Report	
15	T.Y.B.A.	English S 3-	Theory of Novel,	Development of literary sensibility
		Appreciating	Types of Novel,	Sensitization of cultural diversity reflected
		Novel	Elements of	in the study material,
6			Novel,	Inculcation of Socio- economic and political
0			Selected	virtues in the real life situations as
			masterpieces of	represented in the novels
			novel	
	TO NATION A	English S 4-	Literary	Inculcation of interpretative, analytical and
16	T.Y.B.A.	Introduction to	Criticism,	evaluative abilities
		Literary Criticism		Recognition of the significance of various
		Literary Criticisin	Criticism,	critical approaches and terms
			Feminism,	Sensitization of gender issues and its critical
			Oualities of a	appreciation in the texts from feministic
			Quantitos	

				Abilities to interpret and judge the texts within the context and its relevance outside the text in real life situations
17	T.Y.B.A.	Functional English Paper V- Introduction to Print Media and Writing for Mass Media & Key Competency Modules	Book and Film Review Basic of Translation	Enhancement of Communicative abilities in written mode, Negotiations in both personal as well as professional situations of sale, lease, service delivery, and other legal contracts Encouragement of analytical abilities to observe language activities used in media
18	T.Y.B.A.	Functional English Paper VI- Entrepreneurship development, Project Report & Oral Communication in English: Advanced Practical Paper	Entrepreneurship development, SME and Start- Ups, Service Industry, Laws and Regulation, Voice Culture and Voice Modulation	



### Annasaheb Awate College, Manchar, Department of History (2021-22)

#### Cross Cutting Issues In Curriculum of History (BA)

Class	Paper Name	Chapter No	Cross-Cutting Issues
FYBA	Sem-I Early India: From Prehistory to the Age of the Mauryas	Early India: Sources and Prehistory	Human value
	Sem II Early India: Post Mauryan Age to the Rashtrakutas	The Central Asian Contacts and Age of the Shung- Satvahanas	Human value
SYBA	Sem.III History of the Marathas(1630- 1707)	Sources and Rise of the Maratha Power	Human Rights
	Sem. IV History of the Marathas(1707- 1818)	Consolidation and Expansion of the Maratha Power	National Integration
ГҮВА	HISTORY OF THE WORLD IN 20TH CENTURY (1914-1992)	RISE OF DICTATORSHIP	Human Rights
	FYBA	FYBA Sem-I Early India: From Prehistory to the Age of the Mauryas  Sem II Early India: Post Mauryan Age to the Rashtrakutas  SYBA Sem.III History of the Marathas(1630- 1707)  Sem. IV History of the Marathas(1707- 1818)  FYBA HISTORY OF THE WORLD IN 20TH CENTURY	FYBA Sem-I Early India: From Prehistory to the Age of the Mauryas  Sem II Early India: Post Mauryan Age to the Rashtrakutas  SYBA Sem.III History of the Marathas(1630- 1707)  Sem. IV History of the Marathas(1707- 1818)  FYBA HISTORY OF THE WORLD IN 20TH CENTURY  Early India: Sources and Contacts and Age of the Shung- Satvahanas  Consolidation and Expansion of the Maratha Power  RISE OF DICTATORSHIP

Department of History Annamheh Aware Conege, Mancher (Pune)



### Annasaheb Awate College, Manchar, Department of Economics (2021-22)

#### Cross Cutting Issues In Curriculum of Economics (BA & MA)

Sr. No.		Paper Name	Chapter No	Sub-Point	Cross-Cutting Issues
2	SYBA	Indian Economic Environment	Environment Ch-03 Industrial Environment Sem. II Ch-03 Overview of Indian economy	1)Natural Resources, Energy Resources, Education, Health, Environment 2) Natural Resources, Energy Resources, Education, Health, Environment Challenges to Indian Agriculture 3) Water Management 1) Poverty, Employment, Inequality, Informal Sector	2) Social Human Value 3) Environment Sustainability and Awareness 1) Inequality
	SIDA	System	Sem.III Ch-01 Indian Financial System Ch-02 Banking in India 3) Ch-06 New Technology in Banking Sem. IV Cha.1 Reserve Bank of India Cha. 2 Financial Regulators in India	1) Commercial Banks (Public Sector Banks, Private Sector Banks, Foreign Banks): Management, Organization and Functions. 2) Monetary Policy: Tools and their Limitations. 3) SEBI, IRDA: Role and Functions.	1) Professional Ethics-Bank 2) Financial Inclusion 3) Professional Ethics & Financial Inclusion Financial Regulators
		Economics	Sem.III Ch-03 Theory of Demand Ch-04 Supply and Production Analysis	<ol> <li>Utility, Demand, &amp;</li> <li>Elasticity</li> <li>Monopoly, Oligopoly</li> <li>Social Welfare Function</li> </ol>	<ol> <li>Human Behavior</li> <li>Professional</li> <li>Ethics</li> <li>Human</li> </ol>

			Sem. IV Ch-02 Market Structure Ch-4 Welfare Economics		Value (Socio- Economic Development)
3	TYBA	Public Finance	Sem. III Ch-02,03 & 04 Public Expenditure, Revenue & Debt Sem. IV Ch-02 Budget	Social Expenditure,     Taxation & Deftness     Gender Budget	1) Governmental Social Ethics 2) Gender Empowerment
		International Economics	Sem. III Ch-02 Theories of International Trade Sem. IV Ch-04 Regional and International Co- operation	1) Smith, Ricardo, Heackscher-Ohlin Theory 2) World Bank, WTO, European Union Etc.	1) International Trade Ethics 2) Economic Integration & Social Value
4	MA I	Labour Econmics	Ch-02 Wage Determination Ch-04 Industrial Relations	Organized- Unorganized     Sector     Social Security Measures	<ol> <li>Organizational</li> <li>Skills</li> <li>Gender</li> <li>Empowerment</li> </ol>
5	MA II	Demography	Ch-03 Population structure and characteristics	1) Mortality 2) Fertility 3) Pattern of Age and Sex Structure	<ol> <li>Human Social</li> <li>Value</li> <li>Gender</li> <li>Empowerment</li> </ol>
		Economics of Environment	Ch-01 Introduction Ch-02 Environmental Challenges	<ol> <li>Economic Development         and Environment</li> <li>Environment and         Agricultural Development</li> <li>Global Environmental         Issues</li> </ol>	<ul><li>4) Sustainable     Development</li><li>5) Environmental     Ethics</li></ul>

Head,

Department of Economics



Principal Adis C

Amnasahieb Awate Art's Commerce, & Hutatma Babu Genu Science College, Lancher, Tal. Ambegaon, Dist. Pune

### Rayat Shikshan Sanstha's Annasaheb Awate College, Manchar, Pune Department of B.Voc

#### Food Processing and Quality Management

Year 2021-22

Name of the Teacher: Prof. Suse S. N.

Subject: Human Nutrition Course/paper: FG-13

Sr.No.	Name of topic	Course Syllabus	Relevant Cross Cutting Issues
1.	Topic 1: Nutrition agencies	Nutrition of community; Nutritional policies and their implementation; Metabolic function of nutrients	Professional ethics
3.	Topic 2: Nutrients	Sources, functions, digestion, absorption, assimilation and transport of carbohydrates, proteins and fats in human beings;	Professional ethics

## Annasaheb Awate College, Manchar, Pune Department of B.Voc

#### Food Processing and Quality Management

Year 2021-22

Name of the Teacher: Prof. Veer S. J.

**Subject: Snack Food Processing** 

Course/paper: FG-33

Sr.No.	Name of topic	Course Syllabus	Relevant Cross Cutting Issues
1.	Topic 1: Various types of snack food Technology for grain-based snacks	:whole grains – roasted, toasted, puffed, popped and flakes, coated grains-salted, spiced and sweetened	



2.	Topic 2: Technology for fruit and vegetable based snacks	Technology for fruit and vegetable based snacks Chips, wafers.  Technology for coated nuts – salted, spiced and sweetened; chikkis.	Skill enrichment ethics
3.	Topic 3: Equipments	Equipments for frying, Baking and drying, toasting, roasting and flaking, popping, blending, Coating and chipping.	Skill enrichment ethics

# Rayat Shikshan Sanstha's Annasaheb Awate College, Manchar, Pune Department of B.Voc Food Processing and Quality Management Year 2021-22

Name of the Teacher: Prof. Veer S. J. Subject: Snack Food Technology

Course/paper: FG-53

Sr.No.	Name of topic	Course Syllabus	Relevant Cross Cutting Issues
1.	Topic 1: Various types of snack food Technology for grain-based snacks	:whole grains – roasted, toasted, puffed, popped and flakes, coated grains-salted, spiced and sweetened	Skill enrichment ethics
2.	vegetable based snacks		Skill enrichment ethics



	vegetable based snacks		
3.	Topic 3: Equipments	Equipments for frying, Baking and drying, toasting, roasting and flaking, popping, blending, Coating and chipping.	Skill enrichment ethics

# Rayat Shikshan Sanstha's Annasaheb Awate College, Manchar, Pune Department of B.Voc Food Processing and Quality Management Year 2021-22

Name of the Teacher: Prof. Patil Karuna Wasudeo

Subject: Bakery and Confectionery

Course/paper: FSC - 32

Sr .N o.	Name of Topic	Course Syllabus	Relevant Cross Cutting Issues
1.	Topic 1: Types of confectionery	Classification of confectionery product.  Types of flour, Ingredients used in bakery and confectionary products and its role.	Skill enrichment ethics
2.	Topic 2: Technology for the manufacture of bakery products	Detailed description of unit operations for the manufacturing of bread, biscuits, cakes and the effect of variations in formulation.	Skill enrichment ethics



3.	Topic 3:  Equipment used in bakery and confectionary industry	Construction and working of various equipment's like Mixers, proofing chambers, dough dividers, molder and sheeter, baking ovens, cooling chamber, sealing.	Skill enrichment ethics

# Rayat Shikshan Sanstha's Annasaheb Awate College, Manchar, Pune Department of B.Voc Food Processing and Quality Management Year 2021-22

Name of the Teacher: Prof. Patil Karuna Wasudeo

Subject: Fundamentals of food science

Course/paper: FG-12

Sr.No.	Name of Topic	Course Syllabus	Relevant Cross Cutting Issues
1.	Topic 1: Introduction of food science	Definition and concepts of food science Objectives of food science Introduction of laboratory rules and equipment's	
2.	Topic 2: Food preservation	Introduction, definition, principles of food preservation	Professional ethics



3.	Topic 3:	Changes during processing;	
	Effect of processing on nutritional value of food	Methods for nutrient preservation	Professional ethics

# Annasaheb Awate College, Manchar, Pune Department of B.Voc Food Processing and Quality Management Year 2021-22

Name of the Teacher: Prof. Patil Karuna Wasudeo

Subject: Beverages Technology

Course/paper: FSC-52

Sr.No.	Name of Topic	Course Syllabus	Relevant Cross Cutting Issues
1.	Topic 1: History, importance of beverages	status of beverage industry in India Types of beverages Manufacturing technology for juice-based beverages;	Skill enrichment ethics
3.	brewing	- types, manufacture and quality evaluation; the role of yeast in beer and other alcoholic beverages, ale type beer, lager type beer, process, wine and related beverages, distilled spirits.	Skill enrichment ethics



#### Rayat Shikshan Sanstha's Annasaheb Awate College, Manchar, Pune

#### Department of B.Voc

### Food Processing and Quality Management Year 2021-22

Name of the Teacher: Prof. Ingole D. D.

Subject: Food Microbiology

Course/paper: FSC-12

Sr.No.	Name of Topic	Course Syllabus	Relevant Cross Cutting Issues
1.	Topic 1: Introduction of microbiology	History and significance of food microbiology.  • Metabolism of microbes.  • Sources of microorganisms.;	Professional ethics
3.	Topic 2: Contamination, Spoilage and Prevention	Cereal and cereal products  • Sugar and sugar products  • Canned food  Contamination, spoilage and prevention of meat, fish and poultry products, fruits and vegetables, milk and milk products.	Professional ethics
3.	Topic 3: Food poisoning	Food contamination and public health  • Food poisoning and food borne diseases.	Professional ethics
4.	microorganisms	Thermal inactivation of microbes:  pasteurization, sterilization etc.  Concept of TDT, F, Z and D values.  Factors affecting heat resistance.  Antimicrobial agents: mechanism and action	



#### Rayat Shikshan Sanstha's Annasaheb Awate College, Manchar, Pune

#### Department of B.Voc

### Food Processing and Quality Management Year 2021-22

Name of the Teacher: Prof. Ingole D. D.

Subject: Food Microbiology

Course/paper: FSC-12

Sr.No.	Name of Topic	Course Syllabus	Relevant Cross Cutting Issues	
1.	Topic 1:	History of industrial microbiology, Primary		
	Introduction	and secondary metabolites produced by the		
		microorganisms, Screening of		
		microorganisms	Professional ethics	
		•Preservation of microorganisms;		
		Organizations involved in microbiological		
		work		
3.	Topic 2:	Fermentation media, Industrial sterilization;		
	Fermentation	Fermentor: Components of a fermentor,		
	Process	parts of fermentors,		
		Types of fermentor		
3.	Topic 3:	Alcoholic beverages: types, production and		
	Beverages	quality;		
		Types of fermentations processes	Professional ethics	
4				
4.	Topic 4:	Microbial cell products i.e. Mushroom, SCP,		
	Microbial By-	Baker's yeast, blue green algae and sprulina		
	products	Oriental and traditional fermented foods;	Professional ethics	
		Measures to improve yield of fermented		
		products•		

Head

Pept. of B. Voc (Food Processing & Quality Management) Annasaheb Awate College, Manchar



Principal

Annasaheb Awate College,

Manchar, Dist.Pune

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## Rayat Shikshan Sanstha's Annasaheb Awate College ,Manchar Department of Physical Education & Sports 2021-2022

#### **Cross Cutting Issues**

Sr .No	Class & Subject	Cross Cutting Issues
1	All Branches F.Y Students G-1- Physical Education	Development of motor abilities like strength, speed, endurance, coordination, flexibility, agility and balance as they are important aspects for good performance in different games and sports.  Development of the techniques and tactics involved in organised physical activities, games and sports.  development of leadership and followership qualities and team spirit through participation in games and sports.  Development of the positive health related fitness habits which can be practised lifelong so as to prevent degenerative diseases.
		Develop/Increase knowledge about various Sports/Games
		Personality Development

शारिरीक शिक्षण संचालक अण्णासाहेब आवटे कॉलेज, मंचर

Annasaheb Awate Art's Commerce, & Hutatma Babu Genu Science College, Manchar, Tal. Ambegaon, Dist. Pune

## Rayat Shikshan Sanstha's Annasaheb Awate Arts, Commerce & Hutatma Babu Genu Science College, Manchar, Tal-Ambegaon, Dist.-Pune

#### Department of Chemistry

#### List of Cross Cutting Issues (2021-22)

Sr. No.	Course Syllabus	Relevant Cross Cutting Issues
1	Cyber Security Module 1: Pre-requisites in Information and Network Security Module 2: Security Management Module 3: Information and Network Security Module 4: System and Application Security	Professional Ethics
2	Introduction to Human Rights and Duties Module 1: Basic Concept Module 2: Perspectives of Rights and Duties Module 3: Introduction to Terminology of Various Legal Instruments Module 4: United Nations & Human Rights	Human Rights

Head

Department of Chemistry A A College, Manchau, al. Ambegann Dist Funs



#### Annasaheb Awate College, Manchar

#### Department of Botany

#### Cross Cutting issue of Syllabus Academic Year 2021-22

Human Values

Environmental Sustainability Curriculum.

- 1. Prof. Dr. Bolbhat. S. N. F.Y.B. Sc. and S.Y.B. Sc.
- 2. Prof. Kumawat. V.S. T.Y.B. Sc.
- 3. Dr. Admuthe. N. B. M. Sc. I and M. Sc. II

Sr. No.	Course	Syllabus
1	F. Y. B.Sc. and S.Y.B. Sc.	Plant and food supply for human
2	T. Y. B. Sc. and M.Sc.	Biodiversity Conservation
		Medicinal botany and Human health Plant Breeding and Seed Technology



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