



Karmveer R.S.Wagh Education & Health Organization's

Arts, Commerce & Science College Rajaramnagar

Tal: Dindori Dist.: Nashik Pin- 422209

Affiliated to Savitribai Phule Pune University, Pune.

(ID No. PU/NS/ACS/124/2008)

Dr.Jadhav R.T. (M.Sc,Ph.D)

ISO 9001:2015 Certified

AISHE ID:- C41314

PRINCIPAL

College Code- 0870

Center No- 148

Website- <https://kadwacollege.in/>

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

Sr. No.	Department	Subjects
1	ENGLISH	Compulsory English, Optional English G1,G2,G3,S1,S2,S3,S4
2	MARATHI	Marathi G1, G2, G3, S1, S2, S3, S4
3	ECONOMICS	Economics G1, G2, G3, S1, S2, S3, S4
4	POLITICS	Politics Science G1, G2, G3, S1, S2, S3, S4
5	GEOGRAPHY	Geography G1, G2, G3
6	SOCIOLOGY	SOCIOLOGY G1,G2,G3
7	HISTORY	HISTORY G1,G2,G3
8	COMMARCE	Business Communication, Corp. A/c, B. Eco, B.

		Management, Elements of Company Law, B. Administration-I, Marketing Mgt-I, M. Law, Advanced A/c, International Eco, Auditing & Taxation, B. Admin-II & III, Marketing Mgt-II & III.
9	SCIANCE	Botany –IBotany-II ,Physics-IPhysics-II,Zoology-I /Math-I,Zoology-II/ Math-IIChemistry-IChemistry-II.Physical Chemistry-InorganicChemistry-II.Organic Chemistry-III .Analytical Chemistry-IV.Industrial chemistry-V,.Agriculture chemistry-VI



Institution integrates cross- cutting issues relevant to Professional Ethics, Gender, Environment and Sustainability, Human Values and into the Curriculum



1.3.1 Institution integrates cross- cutting issues relevant to Professional Ethics, Gender, Environment and Sustainability, Human Values and into the Curriculum

Cross Cutting Issues Addressed—

1) Gender Issues

Course Code	Program Name	Course Title	Subject title	Topics and Units in Which the Issues are Discussed
1017	FYBA	Compulsory English		Karma
1337	FYBA	Optional English		Marriage is a Private Affair
1157	F.Y.B.A.	Economics (G1) (2013)	Indian Economy - Problems and Prospects	Topic-02-Population -1 Sex Composition ,2.Age Composition,3.Density of Population, 4.Quality of Population.etc
1151-1152	F.Y.B.A.	Economics (G1) (2019)	Indian Economic Environment	Topic-03 -Overview of Indian economy- Challenges of Indian Economy- Poverty, Employment, Inequality, Informal Sector etc.
1167	FYBA	Political Science G1	Indian Governance and Politics	2) Fundamental Rights
2017	SYBA	Compulsory English		Kalpana Chawala , Another Woman
2027	SYBA	Marathi G2	<i>Adhunik wa Marathi Upyogit</i>	<i>Savitribai Phule and Gender Equalities</i>

2028	SYBA	Marathi S1	<i>Prakashwata Atmacharitra</i>	<i>Adiwasi Sree Purush Asamanata</i>
2029	SYBA	Marathi S2		<i>Sahitya Itihasatun Prabodhankar Wa Sahitikanacha Sreewadi Drushtikon</i>
2167	SYBA	Political Science G2	Political and Concepts	4)Right and Justice-Dimension of Justice 5)Liberty and Equality
2168	SYBA	Political Science S1	Western Political Thought	1_Plato-Views of Justice and Communism
3157	TYBA	Economics G3	Economic Development & Planning	Topic-03- Constraints on Development Process -1.Population Explosion .
3159	TYBA	Economics S4	Public Finance	Topic-05- Budget -1. Gender Budget.
3167	TYBA	Political Science G3	Political Ideologies	8)Feminism –Meaning and Nature , Feminism in India
3169	TYBA	Political Science S4	International Politics	8)Issues in International Politics , Human Rights
3028	TYBA	Marathi S3		<i>Sahityachi Samajikata- Marks Ani Twen –Sree Purush Asamanata</i>
3029	TYBA	Marathi S4		<i>Ling Bhedachi Janiv Bhashetun</i>
1113	FYBCOM	Compulsory English		A Devoted Son
2113	SYBCom	Business Communication		Soft Skills, Interview Skills , Grooming Manners and Etiquettes, Group Discussions, Social Media Network
2143	SYBCom	Principle and Functions of Business Management		Recruitment- Sources and Methods of Recruitment, Leadership
2153	SYBCom	Elements of Company Law		Key Managerial Personnel- Appointment Rules Regarding Women Director
2213	SYBCom	Business Administration -I		Legal Aspects – Licensing, registration, Filling Return of Women.

Bo241	S.Y.B.Sc	Plant Anatomy & Embroyology		Topic 7- Plant Embryology Topic 10- Pollination & Fertilization
2) Environment and Sustainability				
1207	FYBA	Elements of Geography G1		Soil Degradation, Watershed Management
1157	FYBA	Indian Economy : Problem & Prospect		Topic-08-Economy of Maharashtra- 1.Water Management concept and utility.
1151-1152	F.Y.B.A.	Economics (G1) (2019) Indian Economic Environment		Topic-01-Introduction-1.2- Challenges to Indian Economy: Natural Resources, Energy Resources, Education, Health, Environment.
110 (A)/(B)	FYBA	Geography G1 Physical Geography, Human Geography		Heat Balance, Hydrological Cycle, Agriculture Problems
2017	SYBA	Compulsory English		The Solitary Reaper
2207	SYBA	Geography G2	Elements of Climetography and oceanography	Global climate and Global warming Environment Degradation
23153- 24153	S.Y.B.A.	Economics (G2) (2019)	Financial System	Topic-04-(Sem-IV)Recent Developments in Indian Financial Sector- 1.Objectives and Outcomes of Changing Landscape of Banking Sector in India.
210(A)/(B)	SYBA	Geography G2 Environmental Geography Elements of climatology and Oceanography		Biodiversity, Environmental Pollution, Environmental Disaster, Environmental Problems and Policies
2999	SYBA	Environmental Awareness		Pollution, Biodiversity, Ecology, Population and Sustainable Development
3027	TYBA	Marathi G3		Pravaswarnan- Natural Environmental Awareness
3157	T.Y.B.A	Economics (G3)	Economic	Topic-03-Constraints on Development Process-1.Vicious Circle of

		(2013)	Development & Planning	Poverty2.Population Explosion etc
3158	T.Y.B.A	Economics (Spl-III) (2013)	International Economics	Topic-08-Regional and International Co-operation -Nature and Functions of- 1.South Asian Association for Regional Co-operation (SAARC),2.Brazil, Russia, India, China and South Africa (BRICS),3.European Economic Community (EEC)
3207	TYBA	Geography G3	Regional Geography in India	Biodiversity, Sustainable Development Of Agriculture resource Conservation And Soil Managements
2113	SYBCom	Business Communication		Cultural Barriers, Linguistic Barriers, Psychological Barriers
2123	SYBCom	Corporate Accounting		Accounting standards 5,6,10,14,21 , Computerised Accounts
2283	SYBCom	Marketing Management -I		Marketing Environment, Green Marketing
2213	SYBCom	Business Administrations -I		Business Environment-Affecting Factors, Environmental Forces
2143	S Y B Com	Principle and Functions of Business Management		Work Environment ,Leadership styles, Motivation Theories
2153	SYBCom	Elements of C L		Corporate Social responsibilities, Legal Provisions as per New company Act-2013
2777	SYB.Com	Environmental Awareness		Pollution, Biodiversity, Ecology, Population and Sustainable Development
3113	TYBCom	Business Regulatory Framework		consumer Protection Act 1986, sales of Goods Act
3143	TYBCom	International Economics		Topic-04-Regional and International Economic Co-operation Regional Co-operation – 1.European Union (E.U),2.South Asian Association for Regional co-operation (SAARC),3.South American Preferential Trading Arrangement(SAPTA) 4.North Atlantic free Trade Agreement (NAFTA)

			5.BRICS – Introduction & Functions etc
CH-508	T.Y.B.Sc	Chemistry of Biomolecules	Topic 1 - Introduction to molecular logic of life
CH 511	T.Y.B.Sc	Environmental chemistry	Topic -4 – Water Pollution & treatment methods
3) Human Values			
1017	FYBA	Compulsory English	1) Karma 2) Prospects of Democracy
1337		Optional English	1) A Lesson My Father Taught Me 2) The Swan Song
1017	FYBA	Political Science G1	Indian Governance and Politics 2) Fundamental Rights
1157	F.Y.B.A.	Economics (G1) (2013)	Indian Economy - Problems and Prospects Topic-03-Poverty and Unemployment-1. Meaning and Concept of Poverty, Poverty line- Need of redefining. Measurement of Poverty.
2017	SYBA	Compulsory English	1) Playing the English Gentleman 2) A Letter by Hazlitt to his Son.
2027	SYBA	Marathi G2	<i>Adhunik Marathi Sahitya</i> <i>Jeevan Wedh, Mazi Jadanghdan , Natsamrat Play, Dr Babsaheb Ambedkaranche Charitra- Manwata, Bandhuta, Samajik Bandhilaki</i>
2028	SYBA	Marathi S1	<i>Rarangdhang Novel</i> <i>Secularism, Humanity And Brotherhood Values</i>
2029	SYBA	Marathi S2	<i>Katha , Kadambari, Natak</i> <i>Savedanshilata Ani Manavwadi Drushtikon</i>
2158	S.Y.B.A.	Economics (Spl-I) (2013)	Micro Economics Topic-07-Welfare Economics-1 Social Welfare Function.2. Pigovian Welfare Economics,3. Thought of Amartya Sen on Welfare Economics.

2159	S.Y.B.A.	Economics (Spl-II) (2013)	Macro Economics	Topic-04- Consumption and Investment -1.Psychological Law of Consumption
23151- 24151	S.Y.B.A.	Economics (Spl-I) (2019)	Micro Economics	Topic-04-(Sem-IV)1. Introduction to Welfare Economics Welfare Economics: Definition and Meaning,2. Pigovian Welfare Economics 3.Thought of Amartya Sen on Welfare Economics
23152- 24152	S.Y.B.A.	Economics (Spl-II) (2019)	Macro Economics	Topic-04-(Sem-III) Consumption and Investment-1.Psychological Law of Consumption,2.Factors InfluencingConsumption Function.
2167	SYBA	Political Science G2	Political Theory and Concepts	Unit 5-Liberty and Equality-
2168	SYBA	Political Science S1	Western Political Thoughts	Unit 7- John Locke-Views on Natural Rights
3027	TYBA	Marathi G3	<i>Adhunik Marathi Sahitya</i>	<i>Des Widesh, Pravaswarnan, Social Cultural Discussions , Sabhyata Darshan</i>
3028	TYBA	Marathi S4		<i>Samajik Bandhilaki, Sanskuti,Prampara, Sabhyata, --Human Values</i>
3029	TYBA	Marathi S4		<i>Samajik Bhasha Vidnyanadware Bhashik Sahasambandh , Samajik Salokha</i>
3157	T.Y.B.A	Economics (G3) (2013)	Economic Development & Planning	Topic-03- Constraints on Development Process -1.Socio- Cultural Constraints.
3167	TYBA	Political Science G3	Political Ideologies	6- Phule –Ambedkarism 7)Gandhism 8) Feminism
3169	TYBA	Political Science S4	International Politics	8) Issues in International Politics a) Human Rights b) Terrorism
1113	FYBCOM	Compulsory English		1) The Power Of Prayer 2)The Harp of India

1133	F.Y.B.Com.	Business Economics (2013)		Topic-02-Demand Analysis -Consumer Behaviour1. Marginal Utility Approach-Limitation,2. Indifference Curve Analysis etc.
2113	SYBCom	Business Communication		Grooming Manners and Etiquettes , Internal and Other Correspondence
2123	SYBCom	Corporate Accounting		Company Liquidation and Internal Reconstruction
2133	SYBCom	Business Economics(Micro)		Topic-08-Public Finance -01. Principle of Maximum Social advantage-Dr. Dalton's Approach.
233- 243	S.Y.B.Com.	Business Economics (2019)		Topic-04-(SEM-III)Consumption, Saving and Investment: 1. Keynes's Psychological Law of Consumption.
2153	SYBCom	Elements of Company Law		Forfeiture, Surrender and Transfer of Shares, Articles of association
2213	SYBCom	Business Administration-I		Measures of Productivity, ISO-9000,ISO- 14000, Quality Circles
2143	SYBCom	Principle and Functions of Business Management		Organisation and Staffing-Principles, authority and Responsibilities. Delegation of authority, CSR, Business Ethics, Change Management
BO121	F.Y.B.Sc	Plant life & Utilization		Topic 3-Utilization and economics importance of Angiosperms -In food,fodder ,fibers horticulture and medicines
Zo232	S.Y.B.Sc	Applled Zoology I		Agricultural pets and their control
Ch-510(A)	T.Y.B.Sc	Medical chemestry		Topic 3-Durugs for infection Diseates
4) Professional Ethics				
1157	F.Y.B.A.	Economics (G1) (2013)	Indian Economy - Problems and Prospects	Topic-05-Industry -1.New Economic Reforms – Concept i) Liberalization ii) Privatisation, iii) Globalization, Growth of Knowledge Based Industry – IT, Software Consultancy

1151-1152		Economics (G1) (2019)	Indian Economic Environment	Topic-05-(Sem-II) 1.Challenges to Indian Service sector- Business-based &Knowledge- based Sector, Education sector, Health sector, Insurance, Tourism, Banking, 2.Recent Trends in Indian Service Sector- Digital Economy, Commerce, E- Finance etc.
2027	SYBA	Marathi G2	<i>Adhunic Marathi Sahitya , Upayojit Marathi</i>	<i>Jeewanwedh, Vyactimatwa Vikasachi Koushalya , Vyawharik Marathi</i>
2157	S.Y.B.A.	Economics (G2) (2013)	Modern Banking	Topic-06-New Technology in Banking -6.1 E-Banking – Need and Importance.
2158	S.Y.B.A.	Economics (Spl-I) (2013)	Micro Economics	Topic-05-Market Structure -Perfect Competition, Monopoly, Monopolistic Competition-Concept- Characteristics, price determination.
2159	S.Y.B.A.	Economics (Spl-II) (2013)	Macro Economics	Topic-05-Value of Money -1.Cash balance approach.
23153- 24153	S.Y.B.A.	Economics (G2) (2019)	Financial System	Topic-04-(Sem-III) Important Financial Institutions -1. Stock Markets: NSE and BSE: Meaning & Functions.2. Non-Banking Financial Intermediaries: Meaning and Functions. Topic-05-(Sem-III) Banking in India -1. Commercial Banks (Public Sector Banks, Private Sector Banks,Foreign Banks): Management, Organization and Functions. Topic-04-(Sem-IV) Recent Developments in Indian Financial Sector-1.Risk Management in Banking Sector.
23151- 24151	S.Y.B.A.	Economics (Spl-I) (2019)	Micro Economics	Topic-05-(Sem-IV)Factor Pricing -1.Profit: Risk and Uncertainty Theory, Innovation Theory
23152- 24152	S.Y.B.A.	Economics (Spl-II) (2019)	Macro Economics	Topic-01-(Sem-IV)-Money -1.Cash Balance Approach.

3027	TYBA	Marathi G3		<i>Opportunities In Travel Industry. Personality Development And opportunities in Journalism</i>
3157	T.Y.B.A	Economics (G3) (2013)	Economic Development & Planning	Topic-4. Theories of Economic Development -1.Schumpeterian Theory of Economic Development
3158	T.Y.B.A	Economics (Spl-III) (2013)	International Economics	Topic 7-Export Promotion measures -1. Export promotion - Contribution of SEZ 2. Role of multinational corporations in India.3. FEMA-provisions and impact etc.
3159	T.Y.B.A	Economics (Spl-IV) (2013)	Public Finance	Topic 7-Centre-State Financial Relationship -1.Constitutional Provisions,2 Role and Working of finance Commission,3. Recommendation of 13th and 14th finance Commission etc
3168	TYBA	Political Science S3	Public Administration	4) Governance 5) Bureacracy 8)Accountability & Control
1113	FYBCom	Compulsory English		A Talk on Advertisement
1133	F.Y.B.Com.	Business Economics (2013)		Topic-01-Introduction -Economic Goals of Firms- 1. Profit Maximization,2. Shareholders Wealth Maximization,3. Management Reward Maximization,4. Growth of the firm,5. Sales maximization,6. Long run survival,b) Non-Economic goals,1. Political power, Prestige,2. Social responsibility and welfare 3. Goodwill of employees
113- 123	F.Y.B.Com.	Business Economics (2019)		Topic-01-Sem-II) Pricing Under Imperfect Market Conditions -1. Meaning of Imperfect Competition 2. Monopoly: Features and Equilibrium, Price Discrimination, 3. Monopolistic Competition- Features and Equilibrium.
2113	SYBCom	Business Communication		Methods and Channels of communication, soft Skills, Job application Letter.

2123	SYBCom	Corporate Accounting	Amalgamation , absorption, Computerise accounting
2133	SYBCom	Business Economics(Micro)	Topic-04-Value of Money- 1 Cash Balance approach – Cambridge Equation - Pigou, Marshall, Keynes etc. Topic-08-Public Finance- 1. Types of Taxation,2. Principles of Taxation 3. Effects of Taxation etc.
2143	SYBCom	Principle and Functions of Business Management	Marketing Management- Social Culture
2153	SYBCom	Elements of Company Law	Duties And Responsibilities Of Directors, Promoters, Company Secretary In Formation And Incorporation Of Company, E-filing, DIN, KMP
2213	SYBCom	Business Administration-I	Liabilities, Duties And Responsibilities Of Partners , Role of Government in Promotion
2143	SYBCom	Principle and Functions of Business Management	Characteristic of Professional Management , Need, Process, Levels, Challenges, and Managerial Skills, Management Thoughts
3123	TYBCom	Advanced Accounting	Preparation of Banking Final accounts
3143	TYBCom	International Economics	Topic-08-Factor Mobility and Foreign Trade Policy Foreign Capital –1. Meaning of Foreign Direct Investment and Foreign Institutional Investments 2. Motives and effects of International Labour Migration 3.India's Foreign Trade Policy since 1991 Features, Trends and Evaluation
3153	TYBCom	Auditing and Taxation	Duties And Responsibilities Of Company Auditor , I T Authorities

3413	TYBCom	Business Administration III	Functions of Finance Manager, Production Manager
3481	TYBCom	Marketing management II	recent Trends in Social Marketing, Case study of Global Marketing


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ENGLISH DEPARTMENT



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

List regarding course content that deals with the following issue (UG: B.A. & B.Com.)

Programme	Course Code	Course/ Subject	Gender	Environment & Sustainability	Human Values	Professional Ethics	NAME of Faculty & Signature
B.A.- F.Y.B.A.	1017	Compulsory English	Unit 1- Karma Unit 3- The Gift of Magi	Unit 8- The Eyes are not Here	Unit 4- Karma Unit 7- Prospects of Democracy in India	Communication Skills	Ghorpade S.B.
B.A.- F.Y.B.A.	1337	Optional English	1) Sonnet 29- William Shakespeare 2) The Romance of Busy Broker- O' Henry 3) The Marriage is a Private Affair- Chinua Achebe	A Day's Wait- Ernest Hemingway	A Lesson My Father Taught Me- A.P.J. Abdul Kalam The Swan Song- Anton Chekhov	Toasted English- R.K. Narayan	Ghorpade S.B.
B.Com.- F.Y.B.Com.	1113	Compulsory English	5. A Devoted Son- Anita Desai	2. Water: The Elixir for Life- C.V. Raman	1. The Power of Prayer- Kalam 6. The Harp of India- Derozio 7. The Soul's Prayer- Sarojini Naidu	3. A Talk on Advertising- Herman Wouk	Ghorpade S.B.

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UNIVERSITY OF PUNE

Revised Course Structure of English

S. Y. B. A. Compulsory English (w. e. f- 2014- 2015)

(1) Objectives

1. To develop competence among the students for self-learning
2. To familiarize students with excellent pieces of prose and poetry in English so that they realize the beauty and communicative power of English
3. To develop students' interest in reading literary pieces
4. To expose them to native cultural experiences and situations in order to develop humane values and social awareness
5. To develop overall linguistic competence and communicative skills of the students

(2) Course Content

Prescribed Text: *Literary Landscapes* (Ed. Board of Editors, Orient Blackswan)

Literature Components

1. Playing the English Gentleman- Mohandas Karamchand Gandhi
2. The Homecoming- Rabindranath Tagore
3. A Letter by Hazlitt to His Son- William Hazlitt
4. Freedom of the Press- Shashi Tharoor
5. A Cup of Tea- Katherine Mansfield
6. The Last Leaf- William Sydney Porter
7. Kalpana Chawla
8. My Lost Dollar- Stephen Leacock
9. The Quality of Mercy- William Shakespeare
10. The Village Schoolmaster- Oliver Goldsmith
11. The Solitary Reaper- William Wordsworth
12. O Captain! My Captain!- Walt Whitman
13. Laugh and Be Merry- John Masefield
14. Still I Rise- Maya Angelou
15. Another Woman- Imtiaz Dharker
16. My Grandmother's House- Kamala Suraiyya Das

14. The Ballad of Father Gilligan – W. B. Yeats
15. If - Rudyard Kipling
16. A Psalm of Life- Henry Wadsworth Longfellow

Language Components

1. Transformation of Sentences :

Declarative Sentences
Interrogative Sentences
Imperative Sentences
Exclamatory Sentences

2. An Introduction to Communication Skills:

Defining Communication
The Process of Communication
Verbal and Non-verbal Communication
Tips for Effective Communication

2. Presentation skills:

Kinds of Presentations
Structuring Content
Visual Aids
The Language of Presentations
Making a Presentation

4. Introduction to Soft Skills :

Leadership Skills
Teamwork Skills
Time Management
Goal Setting
Stress Management
Positive Attitude


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Revised Course Structure of English T. Y. B. A. Compulsory English (w. e. f- 2015- 2016)

(1) Objectives

1. To introduce students to the best uses of language in literature.
2. To familiarize students with the communicative power of English
3. To enable students to become competent users of English in real life situations
4. To expose students to varied cultural experiences through literature
5. To contribute to their overall personality development by improving their communicative and soft skills

(2) Course Content

Prescribed Text: *Literary Pinnacles* (Ed. Board of Editors, Orient Blackswan)

Literature Components

Prose Section:

1. Uncle Podger hangs a picture- *Jerome K. Jerome*
2. How Wealth Accumulates and Men Decay – G. B Shaw
3. Retrieved Information/Jimmy Valentine – Saki
4. How Much Land does a Man Need – *Leo Tolstoy*
5. On the Rule of the Road-*A. G. Gardiner*
6. Pleasures of Ignorance – Robert Lynd
7. The Selfish Giant – Oscar Wilde
8. The Diamond Necklace – Guy de Maupassant

Poetry Section:

9. All the World is a Stage - *William Shakespeare*
10. La Belle Dame Sans Merci – *John Keats*
11. Charge of the Light Brigade – *Alfred, Lord Tennyson*
12. How Much Do I Love Thee – *Elizabeth Browning*
13. Afterwards - Thomas Hardy


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COMMERCE DEPARTMENT



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

List regarding course content that deals with the following issues (UG :B.A,B.Com,B.Sc.)

Cours code	Program name	Course subject	Gender	Environment & Sustainability	Human Values	Professional Ethics	Name of the faculty & Signature
1133	F.Y.B.Com.	Business Economics (2013)			Topic-02-Demand Analysis- Consumer Behaviour1. Marginal Utility Approach- Limitation,2. Indifference Curve Analysis etc.	Topic-01- Introduction- Economic Goals of Firms- 1. Profit Maximization,2. Shareholders Wealth Maximization,3. Management Reward Maximization,4. Growth of the firm,5. Sales maximization,6. Long run survival,b) Non-Economic goals,1. Political power, Prestige,2. Social responsibility and	Dr. S. A. Patil <i>Patil</i>

						welfare 3. Goodwill of employees	
2113	SYBCom	Business Communication-1	Soft Skills, Interview Skills , Grooming Manners and Etiquettes, Group Discussions, Social Media Network	Cultural Barriers, Linguistic Barriers, Psychological Barriers	Grooming Manners and Etiquettes , Internal and Other Correspondence	Methods and Channels of communication, soft Skills, Job application Letter	
2143	SYBCom	Principle and Functions of Business Management	Recruitment- Sources and Methods of Recruitment, Leadership		Organisation and Staffing-Principles, authority and Responsibilities. Delegation of authority, CSR, Business Ethics, Change Management	Marketing Management- Social Culture	
2153	SYBCom	Elements of Company Law	Key Managerial Personnel- Appointment Rules Regarding Women Director	Corporate Social responsibilities, Legal Provisions as per New company Act-2013	Forfeiture, Surrender and Transfer of Shares, Articles of association	Duties And Responsibilities Of Directors, Promoters, Company Secretary In Formation And Incorporation Of Company, E-filing, DIN, KMP	



Nadkhal



2213	SYBCom	Business Administration -I	Legal Aspects – Licensing, registration, Filling Return of Women.	Business Environment- Affecting Factors, Environmental Forces	Measures of Productivity, ISO- 9000, ISO- 14000, Quality Circles	Liabilities, Duties And Responsibilities Partners , Role of Government in Promotion	
2123	SYBCom	Corporate Accounting - I		Accounting standards 5,6,10,14,21 , Computerised Accounts	Company Liquidation and Internal Reconstruction	Amalgamation , absorption, Computerise accounting	<i>JWTW</i>
2283	SYBCom	Marketing Management -I		Marketing Environment, Green Marketing			
2143	S Y B Com	Principle and Functions of Business Management -		Work Environment ,Leadership styles, Motivation Theories		Characteristic of Professional Management , Need, Process, Levels, Challenges, and Managerial Skills, Management Thoughts	
2777	SYB.Com	Environmental Awareness		Pollution, Biodiversity, Ecology, Population and Sustainable Development			
3113	TYBCom	Business Regulatory Framework		consumer Protection Act 1986, sales of Goods Act			

				operation Regional Co-operation – 1.European Union (E.U),2.South Asian Association for Regional co-operation (SAARC),3.South American Preferential Trading Arrangement(SAPTA) 4.North Atlantic free Trade Agreement (NAFTA) 5.BRICS – Introduction & Functions etc		Foreign Trade Policy Foreign Capital –1. Meaning of Foreign Direct Investment and Foreign Institutional Investments 2. Motives and effects of International Labour Migration 3.India's Foreign Trade Policy since 1991 Features, Trends and Evaluation	
2133	SYBCom	Business Economics(Micro)			Topic-08-Public Finance-01. Principle of Maximum Social advantage-Dr. Dalton's Approach.	Topic-04-Value of Money-1 Cash Balance approach – Cambridge Equation - Pigou, Marshall, Keynes etc. Topic-08-Public Finance-1. Types of Taxation,2.	Dr. S. A. Pati <i>Pati</i>





						Principles of Taxation 3. Effects of Taxation etc.	
233-243	S.Y.B.Com.	Business Economics (2019)			Topic-04-(SEM-III) Consumption, Saving and Investment: 1. Keynes's Psychological Law of Consumption.		Dr. S. A. Patil <i>Patil</i>
3123	TYBCom	Advanced Accounting	Preparation of Banking Final accounts			Preparation of Banking Final accounts	
3143	TYBCom	Indian Global Economics and Development				Topic-08-Factor Mobility and Foreign Trade Policy Foreign Capital -1. Meaning of Foreign Direct Investment and Foreign Institutional Investments 2. Motives and effects of	

						International Labour Migration 3. India's Foreign Trade Policy since 1991 Features, Trends and Evaluation	
3153	TYBCom	Auditing and Taxation				Duties And Responsibilities Of Company Auditor, I T Authorities	<i>Radhika</i>
3413	TYBCom	Business Administration III				Functions of Finance Manager, Production Manager	<i>Radhika</i>
3481	TYBCom	Business Administration II				recent Trends in Social Marketing, Case study of Global Marketing	<i>SVTU</i>

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**Compulsory Paper -
Business Economics (Micro)**

Subject Name :-

Term I

1. INTRODUCTION.

1.1 Meaning, Nature and Scope of Business Economics- (Micro)

1.2 Difference between Micro and Macro Economics.

1.3 Tools for Analysis

a. Functional Relationships

b. Schedules

c. Graphs

d. Equations

1.4 Goals of firms

a) Economic Goals of Firms

1. Profit Maximization

2. Shareholders Wealth Maximization

3. Management Reward Maximization

4. Growth of the firm

5. Sales maximization

6. Long run survival

b) Non-Economic goals

1. Political power, Prestige

2. Social responsibility and welfare

3. Goodwill of employees

2. DEMAND ANALYSIS

2.1 Elasticity of Demand, Types of Elasticity, Price Elasticity, Income Elasticity and Cross Elasticity.

2.2 Consumer Behaviour

a) Marginal Utility Approach

- Limitations

b) Indifference Curve Analysis

- Concept

- Characteristics

- Consumer Equilibrium

2.3 Demand Forecasting and Estimation

a) Meaning and objectives of Demand Forecasting

b) Methods of Demand Forecasting

c) Descriptive Analysis of

i) Direct Methods

- 1) Consumer Survey

- 2) Expert opinion

- 3) Simulating market situation

- 4) Controlled Market Experiments

ii) Indirect Methods

- 1) Simple correlation

- 2) Trend Projections

3. PRODUCTION AND COST ANALYSIS

3.1 Production Function – Meaning

3.2 Law of Variable Proportions - The Three Stages

3.3 Law of Returns to Scale - The Three Stages

3.4 Economies and Diseconomies of Scale – Internal and External

3.5 Cost Analysis – Types of Costs

a) Types of Costs

- 1) Total cost

- 2) Average Cost

- 3) Marginal Cost

- 4) Opportunity cost

b) Behaviour of Cost Curves

1) In the Short Run

2) In the Long Run

Term II

4. REVENUE BEHAVIOUR

4.1 Meaning and Importance of Revenue Concepts

4.2 Total Revenue (TR), Average Revenue (AR)

Marginal Revenue (MR).

4.3 Relationship between Total Revenue, Average Revenue and Marginal Revenue

5. PRICING UNDER VARIOUS MARKET CONDITIONS

5.1 Perfect Competition – Features and equilibrium

5.2 Monopoly – Features and equilibrium, Price Discrimination

5.3 Monopolistic competition - Features and equilibrium

5.4 Oligopoly – Features

6. FACTOR PRICING

6.1 Marginal Productivity theory of Distribution.

6.2 Rent

a) Theories of Rent

i) Ricardian Theory of Rent

ii) Modern Theory of Rent

6.3 WAGES -

i) Backward sloping Supply curve
of Labour.

ii) Collective Bargaining & Trade Unions

6.4 INTEREST -

a) Theories of Interest –

i) Loanable Fund Theory of Interest

ii) Keynes Liquidity Preference Theory of Interest

6.5 PROFIT -

a) Theories of Profit –

i) Dynamic Theory of Profits

ii) Innovation Theory of Profit

iii) Risk and Uncertainty Theory of Profit

S.Y. B.Com.
Compulsory Paper
Subject Name :- Business Communication.
Course Code :- 201.

Objectives of the Course:

1. To understand the concept, process and importance of communication.
2. To develop awareness regarding new trends in business communication.
3. To provide knowledge of various media of communication.
4. To develop business communication skills through the application and exercises.

Medium of Instruction : English

Unit No.	TERM: I	Periods
1	Introduction of Business Communication: Introduction, Meaning, Definition, Features, Process of Communication, Principles, Importance, Barriers to Communication & Remedies.	12
2	Methods and Channels of Communication: Methods of Communication-Merits and Demerits&Channels of Communication in the Organisation and their Types, Merits & Demerits	10
3	Soft Skills: Meaning, Definition, Importance of Soft Skills Elements of Soft Skills: <ol style="list-style-type: none"> 1) Grooming Manners and Etiquettes 2) Effective Speaking 3) Interview Skills 4) Listening 5) Group Discussion 6) Oral Presentation 	16
4	Business Letters: Meaning, Importance, Qualities or Essentials, Physical Appearance, and Layout of Business Letter	10
	Total Periods	48
	TERM: II	
5	Types and Drafting of Business Letters: <ol style="list-style-type: none"> 1) Enquiry Letters 2) Replies to Enquiry Letters 3) Order Letters 4) Credit and Status Enquiries 5) Sales Letters 6) Complaint Letters 7) Collection Letters 8) Circular Letters 	16
6	Job Application Letters: Meaning, Types & Drafting of Job Application Letters, Bio-Data/Resume	08

	/Curriculum Vitae	
7	Internal and other Correspondence: 1) Office Memo (Memorandums) 2) Office Orders 3) Office Circulars 4) Form Memos or Letters 5) Press Releases	12
8	New Technologies in Business Communication: Internet: Email, Websites, Electronic Clearance System, Writing a Blog Social Media Network: Twitter, Facebook, LinkedIn, YouTube, Cellular Phone, WhatsApp Voice Mail Short Messaging Services Video Conferencing Mobile	12
	Total Periods	48

Recommended Books:

1. Asha Kaul (1999), "Business Communication", Prentice Hall of India, New Delhi.
2. Chaturvedi P. D. & Chaturvedi Mukesh (2012), "Managerial Communication", Pearson, Delhi.
3. Madhukar R. K. (2005), "Business Communication", Vikas Publishing House Pvt. Ltd., New Delhi.
4. Mamoria C. B. & Gankar S. V. (2008), "Personnel Management", Himalaya Publishing House, Mumbai.
5. Nawal Mallika (2012), "Business Communication", Cengage Learning, Delhi.
6. Rajendra Pal & Korlahalli (2007), "Essentials of Business Communication", Sultan Chand & Sons, New Delhi.
7. Sharma R. C. & Krishan Mohan, "Business Correspondence & Report Writing", Tata McGraw Hill Publishing Co. Ltd.
8. Sinha K. K. (2003), "Business Communication", Galgotia Publishing Company, New Delhi.
9. Sinha K. K. (2008), "Business Communication", Galgotia Publishing Company, New Delhi.
10. Vasishth Neeru & Rajput Namita (2006), "Business Communication", Kitab Mahal, Allahabad.

Assessment Pattern

Internal Assessment (Term End Examination)	:	20 Marks
Practical Examination	:	20 Marks
Annual Examination	:	60 Marks
Total Marks	:	<u>100 Marks</u>

S.Y. B.Com.
Compulsory Paper
Subject Name :- Corporate Accounting
Course Code :- 202

Objectives:-

To enable the students to develop awareness about Corporate Accounting in conformity with the provisions of Companies Act and Accounting as per Indian Accounting Standards.

1. To make aware the students about the conceptual aspect of corporate accounting
2. To enable the students to develop skills for Computerized Accounting
3. To enable the students to develop skills about accounting standards

Term - I

Unit	Topic and Contents	No. of Lectures
1.	Accounting Standards:- Detailed Study of Accounting Standards 5, 6, 10, 14, 21 with Practical Examples numerical case studies, Application nature.	08
2.	Company Final Accounts:- Preparation of Final Accounts- Forms and contents as per Provisions of Companies Act (As Amendment upto the beginning of the relevant academic year) As per Revised Schedule- VI	14
3.	Company Liquidation Accounts:- Meaning of Liquidation- Modes of winding up - (a) Preparation of Liquidator final statement of Account (b) Preparation of Statement of Affairs and Deficiency Account.	12
4.	Computerized Accounting Practices:- Conceptual background - (a) Inventory Accounting (b) Payroll Accounting (c) MIS Reports including Demonstration and Hands Experience.	14
Total		48

Term - II

Unit	Topic and Contents	No. of Lectures
5.	Accounting for Amalgamation, Absorption and External Reconstruction of Companies:- Meaning- Vendor and Purchasing Companies- Purchase Consideration- Accounting entries- and Preparation of Balance Sheet after Amalgamation, Absorption and External Reconstruction.	14
6.	Accounting for Internal Reconstruction:- Meaning- Alteration of Share Capital, Reduction of Share Capital-Accounting Entries and preparation of Balance Sheet After Internal Reconstruction	10
7.	Holding Company Account:-	14

S.Y. B.Com.
Compulsory Paper
Subject Name -: Business Economics (Macro)
Course Code -: 203

Objectives:

1. The objective of the course is to familiarize the students the basic concept of Macro Economics and application.
2. To Study the behavior of the economy as a whole.
3. To Study the relationship among broad aggregates.
4. To apply economic reasoning to problems of the economy.

Term – I		
Sr. No	Topic	No. of Lectures
UNIT- 1	<u>Basic Concepts of macro Economics</u> 1.1 Meaning of Macro Economics 1.2 Nature and Scope of Macro Economics 1.3 Significance and limitations of Macro Economics 1.4 Difference between Micro and Macro Economics	08
UNIT- 2	<u>National Income</u> 2.1 Meaning & Importance of National Income 2.2 Concept - a) Gross National Product (GNP) b) Net National Product (NNP) c) Income at Factor cost or National Income at Factor Prices d) Per Capita Income e) Personal Income (PI) f) Disposable Income(DI) 2.3 Measurement of National Income – Circular Flow of Income-Two sector model 2.4 Difficulties in Measurement of National Income	14
UNIT- 3	<u>Money</u> 3.1 Meaning and functions of Money 3.2 Demand for Money – Classical and Keynesian Approach 3.3 Supply of Money a) Role of Central Bank – Credit Control- Quantitative and Qualitative b) Reserve Bank of India's New Money Measures 3.4 Role of Commercial Banks – Process of Multiple Credit Creation and its limitations	12
UNIT- 4	<u>Value of Money</u> 4.1 Meaning & Concept of Value of Money 4.2 Quantity Theory of Money 4.3 Cash Balance approach – Cambridge Equation - Pigou, Marshall, Keynes 4.4 Milton Friedman's Approach 4.5 Difference between Quantity Theory and Cash Balance Approach.	14

	Theory	
	Term - II	
UNIT- 5	<u>Inflation and Deflation</u> 5.1 <u>Inflation and Deflation</u> – Meaning, Causes and effects 5.2 Demand Pull and cost Push inflation 5.3 Inflationary Gap 5.4 Philips Curve – Supply side Economics 5.5 Stagflation	10
UNIT- 6	<u>Trade Cycle -</u> 6.1 Meaning, Definition and features of Trade Cycle 6.2 <u>Phases of Trade Cycle</u> 6.3 Policy for control of Trade Cycle – Monetary and Fiscal Measures	12
UNIT- 7	<u>Theories of Output and Employment</u> 7.1 Classical Theories of Employment – Says , Pigoue , Fisher 7.2 Keynesian Criticism on Classical Theories of Employment 7.3 Keynesian Theory of Employment	12
UNIT-8	<u>Public Finance</u> 8.1 Meaning, Nature and Scope of Public Finance 8.2 <u>Principle of Maximum Social advantage-Dr. Dalton's Approach</u> 8.3 <u>Public Revenue and Expenditure</u> 8.4 Types of Taxation 8.5 Principles of Taxation 8.6 <u>Effects of Taxation</u> 8.7 Causes of increasing Public Expenditure	14

Basic Reading List

1. Ackey, G (1976) Macro Economics Theory and Policy, Macmillan Publishing Company, New York
2. Ahuja H. L. (2002) Macroeconomics Theory and Policy, Chand and Co. Ltd New Delhi.
3. D'souza Errol (2008) Macroeconomics : Person Publication, New Delhi.
4. Gupta S.B. (1994) Monetary Economics, S. Chand and Co. Delhi
5. Jingan M.L. (2002) Macro Economic Theory, Vrinda Publication, Delhi
6. Vaish M. C. (2002) Macro Economic Theory, Vikas Publishing House, N. Delhi
7. Shapiro E (1996) Macro Economic Analysis; Galgotia Publication, New Delhi

ADDITIONAL READING LIST

1. Dillard, D. (1960), The Economics of John Maynard Keynes, Crossby Lockwood and Sons, London.
2. Day A.C.L. (1960) Outline of Monetary Economics, Oxford University Press, Oxford
3. Higgins, B. (1963), Economic Development: Principles, Problems and Policies, Central Book Depot, Allahbad.
4. Keynes, J.M. (1936), The General Theory of Employment, Interest and Money, Macmillan, London.
5. Kindleberger, C.P. (1958), Economic Development, McGraw-Hill Book Company, New York.
6. Lucas, R. (1981), Studies in Business Cycle Theory, MIT Press, Cambridge, Massachusetts.

S.Y. B.Com.
Compulsory Paper
Subject Name :- Business Management
Course Code :- 204

Objective:

1. To provide basic knowledge & understanding about business management concept.
2. To provide an understanding about various functions of management.

UNIT NO	CHAPTER	PERIODS
	TERM-I	
Unit -I	OVERVIEW OF MANAGEMENT Meaning, Definition, Management: Is it Science, Art or profession? Characteristics of Professional Management. The need of Management Study. Process of Management, Level Of Management, Managerial Skills, Challenges before management , Brief Review of Management Thought with reference to FW Taylor & Henry Fayol	12
Unit -II	PLANNING & DECISION MAKING. Planning-Meaning, Definition, Nature, Importance, Forms, Types Of Planning, Steps in Planning, Limitations Of Planning. Forecasting-Meaning & Techniques. Decision Making- Meaning, Types Of Decisions & Steps In Decision Making.	12
Unit III	ORGANIZATION & STAFFING Meaning, Process & Principles, Departmentalization, Organization Structure, Authority and Responsibility, Delegation of authority, Difficulties in delegation of Authority, Centralization verses Decentralization, Team Work. Staffing-Meaning, Need & Importance of Staffing, Recruitment-Sources and Methods of Recruitment.	12
Unit IV	DIRECTION & COMMUNICATION Direction- Meaning, Elements, Principles, Techniques & importance., Communication-Meaning, Types, Process of Communication & importance of effective Communication. Barriers to Communication.	12
	Total	48
	TERM-II	
UNIT-V	MOTIVATION Meaning, importance, Theories of motivation, Maslow's Need Hierarchy Theory, Herzberg's Two factors Theory, Douglas Mc Gregor's Theory of X & Y & Ouchi Theory Z. McClelland's Theory.	12
UNIT-VI	LEADERSHIP Meaning, Importance, Qualities & Functions of a Leader, Leadership Styles for Effective Management .Contribution of Mahatma Gandhi, Dr. Babasaheb Ambedkar & Pandit Jawaharlal Neharu	12

Unit- VII	CO-ORDINATION AND CONTROL Meaning and Need , Techniques of establishing Co-ordination, difficulties in establishing co-ordination, Control-Need, steps in the process of control & Techniques.	12
Unit-VIII	RECENT TRENDS IN BUSINESS MANAGEMENT Business Ethics, Corporate Social Responsibility, Corporate Governance, Disaster Management, Management of Change	12
	Total	48

Recommended Books:

1. Principles of Management - Koontz & O'Donnel
2. The Management Process - R S Davar
3. Essentials of Management - Koontz & O' Donnel Tralel McGraw Hill Publishing House
4. Business Administration - Mritunjoy Banerjee
5. Principles & Practice - T N Chhabra, Dhanapat Rai & Co.of Management.
6. Management – LM .Prasad.
7. Super Highway: Bill Gates Foundation
8. Makers of Modern India - NBT Publishers
9. Indian Business leaders

S.Y. B.Com.
Compulsory Paper
Subject Name -: Elements of Company Law.
Course Code -: 205

Objectives:

- 1) To impart students with the knowledge of fundamentals of Company Law.
- 2) To update the knowledge of provisions of the Companies Act of 2013.
- 3) To apprise the students of new concepts involving in company law regime.
- 4) To acquaint the students with the duties and responsibilities of Key Managerial Personnel.
- 5) To impart students the provisions and procedures under company law.

Term – I		
Sr. No.	Topic	Lectures
Unit 1	Introduction to the New Act & Concept of Companies: 1.1. Background and Salient Features of the Act of 2013, Overview of the changes introduced by the Act of 2013; 1.2. Nature and types of Companies, Definitions and important features of a Company- Distinction between a company and a partnership - Lifting or Piercing the Corporate Veil 1.3. Types of Companies based on various criteria including one man company, dormant company, sick and small company, associate company. 1.4. Distinction between private and public company (Advantages, Disadvantages and privileges of both the companies) - Conversion of a private company into a public company - Conversion of a public company into a private company.	13
Unit 2	Formation and Incorporation of a Company: 2.1. Stages in the Formation and Incorporation. 2.1.1. Promotion: Meaning of the term 'Promoter' / Promoter Group - Legal Position of Promoters, Pre-incorporation contracts. 2.1.2. Registration/ Incorporation of a company : - Procedure, Documents to be filed with ROC. Certificate of Incorporation- Effects of Certificate of Registration. 2.1.3. Floatation/ Raising of capital. 2.1.4. Commencement of business.	8
Unit 3	Documents relating to Incorporation and Raising of Capital: 3.1 Memorandum of Association: Meaning and importance- Form and contents- Alteration of memorandum. 3.2 Articles of Association: Meaning- Relationship of and distinction between Memorandum of association and Articles of association- Contents and form of Articles- Alteration of articles- Doctrine of constructive notice- Doctrine of Indoor Management. 3.3 Prospectus: Meaning and Definition- Contents- Abridged form of	07

	prospectus- Statutory requirements in relation to prospectus- Deemed prospectus- Shelf prospectus - Statement in lieu of prospectus- Mis-statement in a prospectus and Liabilities for Mis-statement.	
Unit 4	Capital of the Company 4.1 Various Modes for Raising of Share Capital including private placement, public issue, rights issue, bonus shares. 4.2 ESOS, Sweat Equity Shares, Buy-back of shares. 4.3 Allotment of Shares: Meaning- - Statutory provisions for allotment, improper and irregular allotment- Consequences of irregular allotment. 4.4 Calls On Shares: Meaning- Requisites of a valid call, Calls in advance 4.5 Share Certificates: Meaning, Provisions regarding issue of share certificates - Duplicate Share Certificate. 4.6 Share Capital - Meaning, Structure (Kinds) - Concept of Securities - Definition, Nature and Kinds of Shares.	14
Unit 5	Forfeiture, Surrender & Transfer of Shares 5.1 Forfeiture and Surrender of Shares: Meaning of forfeiture of shares: - Conditions/Rules of valid forfeiture- Effect of forfeiture- Re-issue of forfeited shares- Annulment of forfeiture- 5.2 Surrender of shares 5.3 Transfer and transmission of shares - meaning and procedure distinction between transfer and transmission 5.4 Nomination of shares	6
Term - II		
Sr. No.	TOPIC	Lectures
Unit 6	E-Governance and E-Filing: 6.1 Introduction- Meaning of E-Governance 6.2 Advantages of E-Governance, 6.3 Basic understanding of MCA Portal 6.4 E-filing (Ss. 397 to 402), DIN-Directors Identification Number (Ss. 153-159)	06
Unit 7	Management of Company: 7.1 Board of Directors: Definition, Powers, Restrictions, Prohibition on Board. (Ss. 179 to 183) 7.2 Director: Meaning and Legal position of directors. 7.3 Types of Directors - Types including Executive, Non-Executive, Independent, Additional, Alternate, Interested, Nominee Director, Related Party Transactions (Ss. 188) 7.4 Appointment of Directors, Qualifications and Disqualifications. 7.5 Powers, Duties, Liabilities of Directors, Remedies for Breach of Duties. 7.6 Loans to Directors (S. 185), Remuneration of Directors	10
Unit 8	Key Managerial Personnel (KMP) 8.1 Meaning, Definition and Appointments of Managing Director.	10

S.Y. B.Com.
Business Administration Special Paper I
Subject Name -: Business Administration
Course Code -: 206 – A.

Objectives:

1. To provide basic knowledge about various forms of business organizations
2. To acquaint the students about business environment and its implications thereon.
3. To aware them with the recent trends in business

UNIT NO	CHAPTER	PERIODS
TERM-I		
UNIT-I	BUSINESS ADMINISTRATION CONCEPTS Business - Definition, Characteristics, scope & Objectives of business- Economic& Social perspectives , Commerce- Meaning, Concept. Trade & Aids to trade- Meaning & Definition of the Terms: Administration, Management and Organization. Functions of Administration	12
UNIT-II	FORMS OF BUSINESS ORGANIZATION Sole Proprietorship, Partnership Firm, Limited Liability Partnership, Joint Ventures, Joint Stock Company, Co-operative Society- features, Merits & Limitations. Non Profit joint Stock Company under section 25 of the Companies Act Suitability of a form of organization- Factors determining the suitability of form of Organisation	12
UNIT III	BUSINESS ENVIRONMENT Meaning, Constituents of business environment-Economic, International, Social, Legal, Cultural, Educational, Political, Technological & Natural. Interaction of business & environmental forces. Social Responsibilities	12
UNIT IV	BUSINESS PROMOTION Business Unit- Promotion: Concept of promotion, stages in business promotion, Factors affecting location & Size, Present trends in location, size of business unit. Role of Govt in the promotion of SEZ	12
Total		48
TERM-II		
UNIT- V	LEGAL ASPECTS Compliance of legal requirements in promoting business unit, Licensing, Registration, Filing returns & other documents. Important legal provisions governing promotion & establishment of unit.	12
UNIT-VI	PRODUCTIVITY Meaning, Importance & measurement of productivity. Factors affecting productivity, techniques, Measures to boost productivity, Role of National Productivity Council- Product Quality Control ISO-9000, 14000, Quality Circles	12
UNIT-VII	RECENT TRENDS IN BUSINESS MANAGEMENT Liberalisation, Privatization, Globalization -meaning, concept -implications & consequences, SEZ, BPO, KPO and LPO .Public Private Partnership .MKCL	12

S.Y. B.Com.
Marketing Management Special Paper I
Subject Name -: Marketing Management.
Course Code -: 206 – H.

Objectives:-

- To orient the students recent trends in marketing management
- To create awareness about marketing of eco friendly products in the society through students
- To inculcate knowledge of various aspects of marketing management through practical approach
- To acquaint the students with the use of E-Commerce in competitive environment
- To help the students understand the influences of marketing management on consumer behavior

FIRST TERM

Unit No.	Unit Details	Lectures
1.	Elements of Marketing Management: Meaning, Nature and Scope of Marketing Management - Components of Marketing Management - Marketing Management Philosophy - Marketing Characteristics in Indian context - Marketing Management process - Marketing Planning.	16
2.	Current Marketing Environment in India : A) with special reference to Liberalization, Globalization and Privatization-economic environment- demographic- technological - natural - political - socio cultural. B) Change in market practices- global marketing- case studies	10
3.	Marketing Communications – Meaning, Definition and objectives - Marketing Communication Mix- Traditional Media-New Age Media-Marketing Communication through product cues – Different forms of appeal for communication.	12
4.	Services Marketing :- Unique features of Services - classification of services – Growth of Services: The global and the Indian scene- new generation services – tasks involved in services marketing.	10

SECOND TERM

Unit No.	Unit Details	Lectures
5.	E- Marketing:- Meaning, Definition and utility of e-marketing. Advantages, limitations and challenges before e – marketing. Online and Offline marketing, Present status of e-marketing in India, Scope for e -marketing in Indian scenario – online marketing strategies	14
6.	Rural Marketing:- Introduction – basic features – contemporary rural marketing environment-problems, challenges and marketing strategies – present status of rural marketing in India.	12
7.	Green Marketing:- Meaning, Definition and Importance - Role of Marketing Manager in Green Marketing- Marketing mix of green marketing – principles of success of green	12

	products – case studies.	
8.	Consumer Behavior and Buying decision process: Definition- consumer behavior and marketing – factors influencing consumer behavior and buying decision- various buying motives – stages involved in buying decision	10

Suggested references Books

1. Marketing Management – Philip Kotler
2. Marketing Management – Rajan Saxena (Latest Edition)
3. Marketing Management, Indian context – global prespective -Ramaswami Namakumari
4. Marketing Management – Pankaj Madan & Hemraj Verma Amit Mittal
5. Marketing Management (Text and Cases) - Rajagopal
6. Marketing Concepts and Cases – Michael J. Etzel, Bruce J. Walkar, Willam J. Stanton, Ajay Pandit
7. Introduction to e- Commerce- Nidhi Dhawan
8. Electronic Commerce –Bharat Bhaskar
9. Retailing and E-tailing - S.L.Gupta, Mittal & Nayyar
10. E- Commerce: Fundamentals and Applications- Henry Chan, Lee
11. Marketing in the new global order: challenges and opportunities –Tapan Panda and Navin Donthu

	<ul style="list-style-type: none"> Formation. Legality. Recognition. <p>(Chapter 4.Sec.11-13 of I T Act,2000 relating to attribution, acknowledgement, dispatch of E-Records)</p> <ul style="list-style-type: none"> Digital Signatures –Meaning & functions, Digital Signature certificates [Sections 35-39] Legal issues involved in E-Contracts. 	
Term II		
5	The Consumer Protection Act, 1986 <ul style="list-style-type: none"> Salient features of the C.P. Act. Definitions-Consumer, Complainant, Services, Defect & Deficiency, Complainant, unfair trade practice, restrictive trade practice. Consumer Protection Councils. Procedure to file complaint & Procedure to deal with complaint & Reliefs available to consumer.(Sec.12 to14) Consumer Disputes Redressal Agencies. (Composition, Jurisdiction, Powers and Functions.) 	12
6	Intellectual Property Rights : (IPRs) <ul style="list-style-type: none"> WIPO: Brief summary of objectives, organs, programmes& activities of WIPO.TRIPS: As an agreement to protect IPR-Objectives & categories of IPR covered by TRIPS. Definition and conceptual understanding of following IPRs under the relevant Indian current statutes. Patent: Definition & concept, Rights & obligation of Patentee, its term. Copyright: Characteristics & subject matter of copyright, Author & his Rights, term. Trademark: Characteristics, functions, illustrations, various marks, term, internet domain name- Rights of trademark holder. Design: Importance, characteristics, Rights of design holder. Geographical Indications, Confidential Information & Trade Secrets, Traditional knowledge—Meaning & scope of these IPRs. 	16
7	Negotiable Instruments Act, 1881: <ul style="list-style-type: none"> Concept of Negotiable Instruments: Characteristics, Meaning Important relevant definitions under the Act Definitions, Essentials of promissory note, bill of exchange and cheque. Distinction between these instruments. Crossing of cheques – It's meaning and types. Holder and holder in due course, Privileges of holder in due course. Negotiation, endorsement, kinds of endorsement. Liabilities of parties to negotiable instruments. Dishonour of N. I., kinds, law relating to notice of dishonour. Dishonour of cheques. 	14
8	Arbitration & Conciliation: <ul style="list-style-type: none"> Concept of Arbitration & Conciliation. Definition & Essentials of Arbitration Agreement. 	06

T.Y. B.Com.
Compulsory Paper
Subject Name :- Advanced Accounting.
Course Code :- 302

Objectives:-

- ❖ To impart the knowledge of various accounting concepts
- ❖ To instill the knowledge about accounting procedures, methods and techniques.
- ❖ To acquaint them with practical approach to accounts writing by using software package.

TERM - I

Unit No.	Topic and Contents	No. of Lectures
1.	Accounting Standards & Financial Reporting (Introduction to IFRS-Fair Value Accounting):- Brief Review of Indian Accounting Standard :- AS- 3, AS-7, AS-12, AS-15 AS-17 to AS-25 simple practical examples of application nature.	12
2.	Final Accounts of Banking Companies :- * Introduction of Banking Company - Legal Provisions - Non Performing Assets (NPA) - Reserve Fund - Acceptance, Endorsements & Other Obligations - Bills for Collection - Rebate on Bills Discounted - Provision for Bad and Doubtful Debts - Preparation of Final Accounts in vertical form as per Banking Regulation Act 1949. * Introduction to Core Banking System.	12
3.	Insurance Claim Accounts :- A. Claim for Loss of Stock - Introduction - Procedure for Calculation - Average Clause - Treatment of abnormal items of goods - Under & Overvaluation of Stock. B. Claim for Loss of Profit - Introduction - Indemnity under policy - Some important terms - Procedure for ascertaining claims. C. Claim for Loss of Fixed Assets - Introduction - Some important terms - Procedure for ascertaining claims.	12
4.	Final Accounts of Co-operative Societies :- a. Credit Co-operative Societies :- b. Consumer Co-operative Societies :- Meaning - Allocation of Profit as per Maharashtra State Co-operative Societies Act. Preparation of Final Accounts of Credit Co-operative Societies and Consumer Co-operative Societies.	12
TOTAL		48
TERM - II		
5.	Computerized accounting practices:- A. VAT & VAT Report B. Service Tax C. Central Value Added Tax D. Income Tax - Tax Deducted at Source (TDS) Including entries with the help of Accounting Software. (Demonstration and Hands Experience.)	12
6.	Branch Accounts :- Stock and Debtors System :- Introduction - Types of Branches - Goods supplied at Cost & Invoice Price.	12

T.Y. B.Com.
Compulsory Paper
Subject Name :: International Economics
Course Code :: 303 (B)

Objectives :

- 1) To study the theories of International Trade.
- 2) To highlight the trends and challenges faced by nations in a challenging global environment.

TERM-I

TERM-I			
Unit No.	Topic	Lectures	
1	Introduction	12	
	1.1		Meaning and Scope of International Economics.
	1.2		Importance of International Trade
	1.3		Domestic Trade Vs International Trade
	1.4		Role of International Trade in Economic Growth
2	Theories of International Trade	12	
	2.1		Theory of absolute cost advantage
	2.2		Theory of comparative cost advantage
	2.3		Theory of factor endowment (Heckscher-ohlin Theory, Leontief Paradox)
	2.4		Intra Industrial Trade
3	Terms of Trade	12	
	3.1		Concept of Terms of Trade A) Gross Barter Terms of Trade B) Net Barter Terms of Trade C) Income Terms of Trade and Trade Policy D) Single Factorial Terms of Trade E) Double Factorial Terms of Trade
	3.2		Factors affecting on Terms of Trade
	3.3		Free Trade Policy – Meaning, Arguments for and against
	3.4		Protection Policy – Meaning, Arguments for and against
	4		Regional and International Economic Co-operation
4.1		Regional Co-operation – European Union (E.U)	
4.2		South Asian Association for Regional co-operation (SAARC)	
4.3		Concept of Trade Blocks and Economic Integration	
4.3.1		South American Preferential Trading Arrangement (SAPTA)	
4.3.2		North Atlantic free Trade Agreement (NAFTA)	
4.4		BRICS – Introduction & Functions	
TERM – II			
5	Balance of Payment	12	
	5.1		Concept of Balance of Trade and Balance of Payments
	5.2		Balance of Payment on current Account and Capital Account
	5.3		Measures to correct disequilibrium of Balance of Payment
	5.4		Causes of disequilibrium of Balance of Payment

Unit No.	Topic	Lectures
5.5	Convertibility of Rupee on Current and Capital Account.	
6	Foreign Exchange Rate	12
6.1	Meaning of Foreign exchange rate	
6.2	Fixed v/s flexible exchange rate	
6.3	Theories of Exchange Rate	
6.3.1	Purchasing Power Parity Theory	
6.3.2	Balance of Payments Theory	
7	Foreign Exchange Market	12
7.1	Structure of foreign exchange market	
7.2	Management of Foreign Exchange -inflow and outflow of foreign capital.	
7.3	Euro Dollar Market – Nature and Scope	
7.4	Advantages & Disadvantages of Foreign Exchange Market.	
8	Factor Mobility and Foreign Trade Policy	12
8.1	Foreign Capital – Meaning of Foreign Direct Investment and Foreign Institutional Investments	
8.2	Role of Multi National Corporations (MNC's)	
8.3	Motives and effects of International Labour Migration	
8.4	India's Foreign Trade Policy since 1991 Features, Trends and Evaluation.	

Recommended Books :

- 1) Dr.D.M.Mithani – International Economics (Himalaya Publishing house ltd)
- 2) Z.M.Jhingan : International Economics (Vrinda Publication)
- 3) Dr.Mrs.Nirmal Bhalerao & S.S.M.Desai – International Economics (Himalaya Publishing house ltd)
- 4) Deminic Salvatove – International Economics
- 5) Francis Cherulliom - International Economics (Prentice hall)
- 6) L.M.Bhole – Financial Institutions Markets (Tata McGraw Hill)
- 7) H.R.Macharaju – International Financial Markets and India (Wheeler Publication)
- 8) RBI Report on Currency Finance

Magazines / Journals , Reports, Websites

T.Y. B.Com.
Compulsory Paper
Subject Name :- Auditing & Taxation
Course Code :- 304

Objectives :- The Study of Various Components of this course will enable the students:

1. To acquaint themselves about the concept and principles of Auditing, Audit process, Assurance Standards, Tax Audit, and Audit of computerized Systems.
2. To get knowledge about preparation of Audit report.
3. To understand the basic concepts and to acquire knowledge about Computation of Income, Submission of Income Tax Return, Advance Tax, and Tax deducted at Source, Tax Collection Authorities under the Income Tax Act, 1961.

Term I Section
Section- I Auditing

Unit No.	Topic	Lectures
1.	Introduction to Principles of Auditing and Audit Process. Definition, Nature-objects-Advantages of Auditing-Types of errors and frauds Various Classes of Audit. Audit programme, Audit Note Book, Working Papers, Internal Control-Internal Check-Internal Audit	12
2.	Checking, Vouching and Audit Report Test checking-Vouching of Cash Book-Verification and Valuation of Assets and Liabilities. Qualified and Clean Audit Report-Audit Certificate-Difference between Audit Report and Audit Certificate. Auditing and Assurance Standards. (AAS- 1,2,3,4,5,28,29)	12
3.	Company Auditor Qualification, Disqualifications, Appointment, Removal, Rights, Duties and liabilities.	08
4.	Tax Audit Definition of Accountant-Scope of Auditor's Role under Income Tax Act Compulsory Tax Audit- Certification for Claiming exemptions- Selective Tax Audit Tax Consultancy and Representation- Proforma of Computerized Systems.	08
5.	Audit of Computerized Systems Auditing in an EDP environment-planning an audit in a computer Environment - problems encountered in an EDP environment-General EDP Control - EDP Application Control- System Development- Data transfer- Audit practice in relation to computerized systems-Computer Assisted Audit Techniques (Factors and Preparation of CAAT)	08
	Total	48

Term II
Section - II Income Tax

Unit No.	Topic	Lectures
1.	Important Concepts and Definitions under Income Tax Act-1961. Income, Person, Assessee, Assessment year, Previous year, Agricultural Income, Exempted Income, Residential Status of an Assessee, PAN, TAN	08

T.Y. B.Com.
Business Administration Special Paper II
Subject Name :- Business Administration
Course Code :- 305 – a.

Objective :-

To acquaint the students with basic concepts & functions of HRD and nature of Marketing functions of a business enterprise.

Term I :- Human Resource Development.

Unit No.	Content	Lectures
1.	Human Resource function 1.1 Meaning, Objectives of Human Resource Function, Difference between H.R.M. and H.R.D. 1.2 Organization, Scope and functions of Human Resource Department in Modern Business. 1.3 Human Resource Planning – Nature and Scope, Job analysis - Job description - Job specification. 1.4 Emerging Concept of H.R.D. – Quality Circles –Kaizen - Voluntary Retirement Schemes.	14
2.	Recruitment and Training 2.1 Methods or sources of Recruitment of manpower, Role of Recruitment Agencies- Selection Process. 2.2 Types of Interviews- Interview Techniques. 2.3 Objectives and importance of Training and Development. 2.4 Types and Methods of Training Programmes.	10
3.	Employee Career and Succession planning 3.1 Aims and objectives of career planning. 3.2 Career Planning Process – Career Planning Structure. 3.3 Succession Planning - Meaning Need and importance. 3.4 Types of Career Opportunities A) Public Sector:- State and Local Government level - Personnel officer, Purchasing officer, secretary, Director of Administration Accountant etc. B) Private sector:- Marketing and Sales, Production and Material Management, Financial sector, Management as a profession, Insurance Industry, Accounting and Management Information System.	12
4.	Performance Appraisal Management. 4.1 Concept and Importance. 4.2 Performance Appraisal Process. 4.3 Methods and Techniques. 4.4 Merits and limitations of performance appraisal.	12
Total		48

Term II :- Marketing Functions.

Unit No.	Content	Lectures
1.	Introduction 1.1 Meaning and scope of Marketing. 1.2 Objectives of Marketing.	10

	1.3 Classification of marketing, 1.4 Functions of Marketing.	
2.	Marketing Mix 2.1 Meaning and Importance of Product, Product mix, product life cycle. New product development- Types of new product, Branding, Packaging, Labeling. 2.2 Price – Meaning, Factors affecting Pricing Decisions, Methods of Pricing. 2.3 Place – Functions of distribution channels, Types of distribution channels, Impact of technology on Distribution. 2.4 Promotion – Meaning of sales promotion, Importance, Methods and New techniques of sales promotion.	13
3.	Advertising 3.1 Advertising- Meaning, Scope, Importance, Role of advertising in modern business, Criticism on Advertising practices. 3.2 Advertising media – Different medias of advertising, Selection of advertising media. 3.3 Ethics in advertising- Ethics and appeals in Advertising, Advertising Standards Council of India. 3.4 Future of advertising – Advertising in depression and crisis, Employment opportunities in advertising field.	13
4.	Modern Marketing Trends 4.1 Global marketing – Meaning, Scope, Importance, International marketing Challenges and Problems. 4.2 Marketing Research- Meaning, Scope and Methods of Marketing research. 4.3 Retailing- Meaning, New Trends in Marketing, Direct Marketing, Malls, Franchising. 4.4 Recent Trends in Marketing- i) E-Marketing ii) Telemarketing iii) Internet Marketing iv) M-Marketing.	12
	Total	48

Recommended Books	
1.	Personnel and Human Resource Management – A M Sharm(Himalaya Publishing House)
2.	Personnel Management and Industrial Relations- R S Davar (Vikas Publishing House)
3.	Human Resource Development and Management- Biswanath Ghosh (Vikas Publishing House)
4.	Personnel Management – C.B. Mamaria, S V Gankar (Himalaya Publishing House)
5.	Human Resource Management – AShwathappa
6.	Basics of Marketing- Cannon
7.	Marketing Management, Philips, Kotler
8.	Marketing – Gandhi
9.	Principles of Marketing – Sherlekar S.A.
10.	International Marketing- P. Saravanavel (Himalaya Publishing House)
11.	Modern Marketing Management- R.S. Davar

T.Y. B.Com.
Business Administration Special Paper III
Subject Name :- Business Administration
Course Code :- 306 - a.

Objective :-

To acquaint the students with the basic concepts in finance and production functions of a business enterprise.

Term I

Unit No.	Finance	Lectures
	content	
1	Finance :- 1.1 Money and Finance, Need, Nature and Importance of Finance. 1.2 Finance Functions, Objectives of Financial Management, Functions of Finance Manager. 1.3 Financial need of a modern business organization.	10
2	Financial Planning :- 2.1 Meaning, Nature and characteristics of financial planning. Scope, Importance, Advantages, Limitations, of Financial Planning. 2.2 Steps in financial planning. 2.3 Methods of estimating financial requirements.	12
3	Capitalization and Capital Structure :- 3.1 Capitalization - Concept, Factors governing capitalization, over and under capitalization - Causes and effects, Fair Capitalization. <i>Globalisation</i> 3.2 Capital Structure- Meaning, Concept and Principles of capital structure, Factors influencing the pattern of capital structure. 3.3 Trading on equity- Concepts and effects.	12
4	Management of Capital :- 4.1 Types of capital- Fixed capital and working capital, owned and borrowed capital, Short and Long term Capital. 4.2 Need, Importance, Factors governing fixed and working capital requirement. 4.3 Sources of capital - Shares, Debentures, Public Deposits, Ploughing back of profits, Loans from Bank and Financial Institutions, Trade creditors, Installment credit etc.	14
	Total	48

Term II

(Production, Operations Functions)

Unit No.	Production, Operations Functions	Lectures
	content	
1	Production management Functions :- 1.1 Meaning, Definition, Functions of Production Management, Responsibilities of Production manager. 1.2 Production Planning - Objectives, Importance, levels of planning. 1.3 Routing & Scheduling - Meaning, Route Sheets, Scheduling, Master and sequential scheduling, scheduling devices.	14

	1.4 Production control- Definition and meaning, Necessity, objectives, factors and techniques of production control	
2	Plant Location and Plant Layout 2.1 Introduction, importance, factors responsible for plant location. 2.2 Plant Layout- Meaning, Definition, Importance of good layout, factors relevant for choice of layout, Line, Process and Product layout. 2.3 Plant Layout - Advantages, disadvantages and techniques.	10
3	Inventory management 3.1 Inventory management -Introduction, methods, and Norms. 3.2 EOQ, Use of Computers in Inventory Management, 3.3 Material Requisition Planning (MRP) , Just In Time (JIT),ABC Analysis.	10
4	Material Handling and supply chain management 4.1 Meaning, function of material handling, principles of material handling. 4.2 Common material handling devices fork lift truck, platform truck, straddle carrier, chain hoist, roller and belt conveyor, bridge crane, crawler crane. 4.3 Supply chain management- Theory, Principles, Implications, Factors affecting supply chain management. <i>change management</i>	14
	Total	48

Recommended Books	
1.	Fundamentals of Business Finance- Dr. R. M. Shrivastav
2.	Corporate Finance- S C Kuchhal
3.	Industrial Finance- M C Kuchhal
4.	Corporate Finance- Dr. P V Kulkarni
5.	Financial Management- Dr. Prasanna Chandra
6.	Production, Operations Management - Dr.B.S. Goel (Pragati Prakashan Meerut)
7.	Operations Management- Norman Gaither, Greg Frazier (Sengage Learning)
8.	Production Management - Chunawalla

T.Y. B.Com.
Marketing Management Special Paper II
Subject Name -: Marketing Management.
Course Code -: 305 – h.

Objectives of the Paper

- I. To understand the concept and functioning of marketing planning and sales management
- II. To know marketing strategies and organization
- III. To inform various facets of marketing with regulatory aspects
- IV. To understand marketing in globalize scenario

First Term

Unit I

Marketing Planning and Sales Forecasting

Meaning of Marketing Planning
Importance of Marketing Planning
Types of Marketing Plan
Elements of a Marketing Plan
Process of Preparing a Marketing Plan
Meaning of Sales Forecast, Sales Budgets and Sales Quota
Sales Forecasting Methods
Forecasting Techniques
(12 Periods)

Unit 2

Social Marketing:

Meaning and Objectives of Social Marketing
Social Responsibility of Marketing Manager
Impact of Marketing on Society and Other Business
Social Criticism of Marketing
Recent Trends in Social Marketing
(16 Periods)

Unit 3

Marketing Organisations

Meaning of Marketing Organisation
Changing role of Marketing Organisation
Factors affecting on Marketing Organisation
Essentials of an effective Marketing Organisation
Types of Marketing Organisation
(10 Periods)

Unit 4

Marketing Strategies

Concept of Strategy
Characteristics of Strategy
Meaning of Marketing Strategy
Competitive Marketing Strategies

Competitive Strategies in Global Environment

Benchmarking – A total for effective Marketing Strategy – meaning, process and advantages of Benchmarking
(10 Periods)

Second Term

Unit 5

Agricultural marketing

Meaning of Agriculture Marketing

Types of Agri-Products

Features of Agri-Products

Types of Markets – Defects of Agri- marketing and remedies

Marketing Intelligence System and Agriculture Marketing

Distinction between manufacture goods marketing and Agriculture goods marketing

(14 Periods)

Unit 6

International Marketing

Meaning, nature, need and importance of International Marketing

International Marketing Vs Domestic Marketing

Problems and Challenges in International Marketing

Mode of entry in International Market

Scope of International Marketing

(12 Periods)

Unit 7

Marketing Regulations

Importance of Marketing Regulations in Marketing.

Relevance and importance of following Acts in the Context Marketing Management

Consumer Protection Acts, 1986

Trade Mark Acts, 1999

Competition Acts, 2002

Indian Patent (amendment) Acts, 2005

Bureau of Indian Standards Act

(12 Periods)

Unit 8

Globalization and Marketing

Meaning of Globalization

Features of Globalization

Marketing in 21st Century

Impact of Globalization on marketing

Benefits and limitation of Globalization

Case study related to Global Marketing

(10 Periods)

Recommended:

Books:

T.Y. B.Com. w.e.f. 2015-16

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T.Y. B.Com.
Marketing Management Special Paper III
Subject Name :- Marketing Management.
Course Code :- 306 - h.

Objectives of the Paper

1. To know detailing of Marketing Research
2. To understand the role Brand and Distribution Management in marketing
3. To inform about Marketing and Economic Development
4. To Know of the importance of control on marketing activities

First Term

Unit 1

Advertising I

a) Fundamentals of Advertising

1. Conceptual framework, Nature, Scope and Functions of Advertising
2. Role of Advertising in Modern Business
3. Advertising – Objectives – Types, Benefits and Limitations
4. Ethics in Advertising

b) Advertising Media

1. Definitions – Classifications and Characteristics of Different Media
 2. Comparative Study of Advertising Media
 3. Selection of Media-Factors Affecting Selection of Media
 4. Media Mix-Geographical selective-Media Scheduling
 5. E-Advertising
- (14 periods)

Unit 2

Advertising II

Appeals and Approaches in Advertisement

1. Introduction- Different Appeals and their Significance
 2. Advertising Message
 3. Direct and Indirect Appeal
 4. Relation between Advertising Appeal and Buying Motive
 5. Positive and Negative Emotional Approaches
- (12 periods)

Unit 3

Brand management

- a) Introduction of Branding
 - b) Brand identity
 - c) Advertising and Branding
 - d) Brand Extension
 - e) Identity Sources – symbols, logos, trademarks
- (10 Periods)

Unit 4

Industrial Marketing

- a) Introduction to Industrial Marketing
 - b) Types of Industrial Goods
 - c) Difference between Industrial and Consumer Marketing
 - d) Purchasing practices of Industrial customers
- (12 Periods)

Second Term

Unit 5

Marketing Research

- a) Meaning, nature and scope of Marketing Research
 - b) Marketing Research process
 - c) Types of Research
 - d) Types of Data
 - e) Types of Questionnaire
- (14 Periods)

Unit 6

Distribution Management

- a) Warehousing and Transport decisions
 - b) Logistics – meaning, nature
 - c) Logistics Function
 - d) Warehousing – need, functions
 - e) Transportation – modes, factors affecting transportation costs
- (10 Periods)

Unit 7

Target Marketing

- a) Meaning, nature, importance
 - b) Market Targeting
 - c) Selection of Target Segment
 - d) Targeting Strategies
- (10 Periods)

Unit 8

Marketing Control

- a) Meaning, objectives of Marketing Control
 - b) Benefits of Marketing Control: - essential of an effective Marketing Control System
 - c) Techniques of Marketing Control
 - d) Process of Marketing Control
 - e) Marketing Audit – meaning, characteristics, objectives, process of Marketing Audit
- (14 Periods)

ECONOMICS

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

List regarding course content that deals with the following issues (UG :B.A,B.Com,B.Sc.)



Course code	programme	Course subject	Sub title	Gender	Environment & Sustainability	Human Values	Professional Ethics	Name of the faculty & Signature
23153-24153	S.Y.B.A.	Economics (G2) (2019)	Financial System		Topic-04-(Sem-IV)Recent Developments in Indian Financial Sector- 1.Objectives and Outcomes of Changing Landscape of Banking Sector in India.		Topic-04-(Sem-III) Important Financial Institutions- 1. Stock Markets: NSE and BSE: Meaning & Functions.2. Non-Banking Financial Intermediaries: Meaning and Functions. Topic-05-(Sem-III) Banking in India- 1. Commercial Banks (Public Sector Banks, Private Sector Banks, Foreign Banks): Management.	



							Organization and Functions. Topic-04-(Sem-IV) Recent Developments in Indian Financial Sector-1.Risk Management in Banking Sector.	
2157	S.Y.B.A.	Economics (G2) (2013)	Modern Banking	.			Topic-06-New Technology in Banking-6.1 E-Banking – Need and Importance	
2158	S.Y.B.A.	Economics (Spl-I) (2013)	Micro Economics	.		Topic-07-Welfare Economics-1 Social Welfare Function.2. Pigovian Welfare Economics.3. Thought of Amartya Sen on Welfare Economics.	Topic-05-Market Structure-Perfect Competition, Monopoly, Monopolistic Competition-Concept-Characteristics, price determination.	
2159	S.Y.B.A.	Economics (Spl-II) (2013)	Macro Economics			Topic-04-Consumption and Investment-1.Psychological Law of Consumption	Topic-05-Value of Money-1. Cash balance approach	Dr. S. A. Patil <i>P. J. Patil</i>
23151-24151	S.Y.B.A.	Economics (Spl-I) (2019)	Micro Economics			Topic-04-(Sem-IV)1. Introduction to Welfare Economics Welfare Economics: Definition	Topic-05-(Sem-IV)Factor Pricing-1.Profit: Risk and	<i>P. J. Patil</i>

						and Meaning,2. Pigovian Welfare Economics 3.Thought of Amartya Sen on Welfare Economics	Uncertainty Theory. Innovation Theory	
23152-24152	S.Y.B.A.	Economics (Spl-II) (2019)	Macro Economics			Topic-04-(Sem-III) Consumption and Investment- 1.Psychological Law of Consumption,2.Factors Influencing Consumption Function.	Topic-01-(Sem-IV)-Money-1.Cash Balance Approach.	Dr. S A Patil <i>Patil</i>



Rachhav
Principal
Art's, Com. & Sci. College
Rajaramnagar, Tal. Dindori (Nashik)

University of Pune

Board of Studies in Economics

S.Y.BA. Economics Revised Syllabus (*NEW*)

From - 2014-15

Code No.	Title of the paper
G.2	Modern Banking
S. 1	Micro Economics
S. 2	Macro Economics

Revised Syllabus Sub- Committee.

Sr. no	Name	Designation
1	Dr. Suhas Avhad	Chairman
2	Dr.Nilesh Dangat	Co-ordinator
3	Dr.Rajendra Shinde	Member
4	Dr.Sudhakar Pagar	Member
5	Dr. R.K. Datir	Member
6	Dr. R.G Rasal	Member
7	Dr. R.G. Kolhe	Member

University of Pune
S.Y.B.A. Economics Revised Syllabus
G-2, Modern Banking
From : June – 2014

PREAMBLE

To create the awareness among the students of Modern Banking System. Banking constitutes important components towards understanding of economics. Clear understanding of the operations of banking their interaction with the rest of the economy is essential to realize how monetary forces operate through a multitude of channels- market, non-market, institutions and among others, the state.

First Term

Chapter No.	Title of the Chapter	Lectures
1	Evolution of Modern Banking 1.1 Meaning & Definition of Bank. 1.2 Banking in Europe, USA & Asia. 1.3 Evolution of Banking in India. 1.4 Structure of Indian Banking System	12
2	Functions of Commercial Banks 2.1 Primary Functions-Accepting Deposits, Granting Loans & Advances. 2.2 Secondary Functions-Agency Functions, General Utility Functions 2.3 Methods of Remittances.	12
3	Principles of Commercial Banks 3.1 Liquidity, Profitability and Safety- Meaning & Concept. 3.2 Multiple Credit Creation-Process & Limitations. 3.3 Components of Balance Sheet of Commercial Banks	12

4	Operation & Types of Accounts 4.1 Opening and operating of Deposit Account. 4.2 Closure and Transfer of Accounts 4.3 Types of Account Holders - Individual & Institutional 4.4 No Frills Account, Escrow Account	12
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Second Term

5	Negotiable Instruments 5.1 Promissory Note, Bill of Exchange and Cheque - meaning, Definition & Characteristics 5.2 Types of Cheque – Bearer, Order & Crossed 5.3 Types of Crossing- General & Special 5.4 Endorsement- Definition, Types & Effects	12
6	New Technology in Banking 6.1 E-Banking – Need and Importance 6.2 Meaning, concept and operation of - 6.2.1 Automated Teller machine- ATM 6.2.2 Credit Card 6.2.3 Debit Card 6.2.4 Tele Banking 6.2.5 Mobile Banking 6.2.6 Net Banking 6.2.7 Society for worldwide Interbank Financial Telecommunication 6.2.8 Core Banking 6.2.9 RTGS	12
7	Reserve Bank of India 7.1 Functions 7.2 Money Measures- M0, M1, M2, M3, M4 7.3 Monetary policy- Meaning & objectives	12

	7.4 Instruments of Credit Control	
8	Co- operative banking in India 8.1 Structure of Co-operative banking in India 8.2 97 th Constitutional Amendment in co-operative law 8.3 NABARD- objectives, Functions & working 8.4 Challenges before co-operative Banking	12

BASIC READING LIST

- Day, A.C.L. (1960), Outline of Monetary Economics, Oxford University Press, Oxford.
- De Kock, M.H. (1960), Central Banking, Staples Press, London.
- Due, J.F. (1963), Government Finance, Irwin, Homewood.
- Government of India, Economic Survey (Annual), New Delhi.
- Halm, G.N. (1955), Monetary Theory, Asia Publishing House, New Delhi.
- Harris, C.L. (1961), Money and Banking, Allyn and Bacon, London.
- Laliwala, J.I. (1984), The Theory of Inflation, Vani Educational Book, New Delhi.
- Mishra, S.S. (1981), Money, Inflation and Economic Growth, Oxford & IBH Publishing Company, New Delhi.
- Reserve Bank of India (1983), The Reserve Bank of India: Functions and Working, Bombay.
- Reserve Bank of India, Report on Trend and Progress of Banking in India.
- Reserve Bank of India, Report on Currency and Finance (Annual).
- Datir R.K. (2011), Bhartatil Bank Vayvasay Aani Sahakar, Nirali Prakashan, Pune.
- Rajesh R., Sivaganasithi (2009), Banking Theory – Law & Practice, The Mc Graw – Hill Companies, New Delhi.
- Datir , Lomate, Ushir (2012), Bank Vayvasaychi Multatve, Nirali Prakashan, Pune.
- Annual Report – NABARD -2012-13.
- Parameswaran R. (2010), Indian Banking, S. Chand & Company, New Delhi.

University of Pune
S.Y.B.A. Economics Revised Syllabus
S-1, Micro Economics
From : June – 2014

Preamble

As a foundation course, in this Paper, student is expected to understand the behavior of an economic agent, namely, a consumer, a producer, a factor owner and the price fluctuation in a market. The chapter incorporated in this Paper deal with the nature and scope of economics, the theory of consumer behavior, analysis of production function and equilibrium of a producer, the price formation in different markets structures and the equilibrium of a firm and industry. In addition, the principles of factor pricing and commodity pricing as also the problems of investment and welfare economics have been included.

First Term

Chapter No.	Title of the Chapter	Lectures
1	Introduction 1.1 Micro Economics – Meaning, Nature Scope, importance & limitations., 1.2 Basic Economic Problems. 1.3 Tools of Economic Analysis – Functional relationships, Schedules, Graphs & Equations. 1.4 Variable – Dependent and Independent variable- Exogenous & Endogenous.	10
2	Demand Analysis 2.1 Utility – Meaning, Concept & Assumptions 2.2 Cardinal Utility- Law of Diminishing Marginal Utility. 2.3 Ordinal Utility – Indifference curve - Concept and Properties, Consumer Equilibrium 2.4 Demand- concept & law 2.5 Elasticity of Demand 2.5.1 Price Elasticity-Definition, Types, Determinants, Importance. 2.5.2 Income Elasticity - Types & Importance, 2.5.3 Cross Elasticity- concept	18

3	Supply Analysis 3.1 Meaning, Concept & Determinates. 3.2 Law of Supply. 3.3 Elasticity of Supply.	08
4	Theory of Production 4.1 Production function. 4.2 The law of Variable Proportions. 4.3 Law of returns to scale. 4.4 Revenue concept-Total, Average & Marginal Revenue. 4.5 Cost concepts : Fixed & Variable Cost, Opportunity cost, Average & Marginal cost, Total cost.	12

Second Term

5	Market Structure 5.1 Meaning & Classification 5.2 Perfect Competition: Concept- Characteristics, price determination in short run and long run, equilibrium of the firm and industry 5.3 Monopoly - Concept, Characteristics and short and long run Equilibrium. Price discrimination 5.4 Monopolistic Competition : Concept, Characteristics, short & long run Equilibrium, Selling cost- concept 5.5 Oligopoly – Concept, Characteristics 5.6 Duopoly – Concept, Characteristics	20
6	Factor Pricing 6.1 The Marginal Productivity Theory of Distribution. 6.2 Rent – Ricardian Theory of Rent, Modern Theory of Rent, Quasi Rent 6.3 Wages –Modern Theory of Wages, Collective Bargaining , Supply curve of Labour	20

	6.4 Interest- Loanable Funds Theory , Keynesian Liquidity preference theory 6.5 Profit – Risk and Uncertainty Theory , Innovation Theory	
7	Welfare Economics 7.1 Definition and meaning 7.2 Social Welfare Function. 7.3 Pigovian Welfare Economics 7.4 Thought of Amartya Sen on Welfare Economics.	08

Basic Reading List

- Bach. G.L. (1977), Economics, Prentice Hall of India, New Delhi.
- Gauld. J.P. and Edward P.L. (1996), Microeconomic Theory, Richard. Irwin, Homewood.
- Henderson J. and R.E. Quandt (1980), Microeconomic Theory : A Mathematical Approach, McGraw Hill, New Delhi.
- Heathfield and Wibe (1987), An Introduction to Cost and Production Functions, Macmillan, London.
- Koutsoyiannis, A. (1990) Modern Microeconomics, Macmillan.
- Lipsey, R.G. and K.A. Chrystal (1999) Principles of Economics (9th Edition), Oxford University Press, Oxford.
- Mansfield, E. (1997) Microeconomics (9th Edition), W.W. Norton and Company, New York.
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- D.N. Dwivedi, Micro Economic Theory and Applications, Pearson education.
- G.S. Maddala And Ellen, Micro Economics Theory and Application, Tata McGraw Hill.
- R.K. Datir & Other, Sukshma Arthashastra, Nirali Prakashan, Pune.
- Jhingan M.L., Micro Economic Theory, Virinda Publication, Delhi.

University of Pune
S.Y.B.A. Economics Revised Syllabus
S-2, Macro Economics
From : June 2014

PREAMBLE

On account of the growing influence and involvement of the State in economic fields, macroeconomics has become a major area of economic analysis in terms of theoretical, empirical as well as policy-making issues. Macroeconomics has an extensive, substantive as well as methodological content. It deals with the functioning of the economy as a whole, the objective of the course is to familiarize the students the basic concept of Macro Economics and application. Macro economics has an extensive, substantive as well as methodological content. It deals with the functioning of the economy as a whole, including how the economy's total output of goods and services and employment of resources is determined and what causes these totals to fluctuate. The Paper entitled MacroeconomicsI is designed to make an undergraduate student aware of the basic theoretical framework underlying the field of macroeconomics.

First Term

Chapter No.	Title of the Chapter	Lectures
1	Introduction 1.1 Meaning, Nature, Scope, Importance and Limitation of Macroeconomics 1.2 Difference between Micro and Macro Economics	08
2	National Income 2.1 Concepts: National Income, Gross National Product, Net National Product, Per Capita Income , Disposable Income. 2.2 Importance of National Income. 2.3 Methods of National Income Measurement 2.4 Difficulties in Measurement of National Income 2.5 Circular Flow of National Income	14

3	Theory of Employment 3.1 Say's Law of Market 3.2 Classical Theory of Employment 3.3 Criticism by Keynes on Classical Theory 3.4 Keynesian Theory of Employment	12
4	Consumption and Investment 4.1 Meaning of Consumption Function 4.2 Average and Marginal Propensity to Consume 4.3 Psychological Law of Consumption 4.4 Factors influencing Consumption Function 4.5 Saving- concept & Function 4.6 Investment- Meaning & Types 4.7 Investment Multiplier- Concept and Limitations 4.8 Principle of Acceleration - Concept	14

Second Term

5	Value of Money 5.1 Money- Definition and Functions 5.2 Quantity Theory of Money 5.3 Cash balance approach	12
6	Inflation and Deflation: 6.1 Inflation - Meaning and Causes 6.2 Demand Pull and Cost Push Inflation 6.3 Effects of Inflation 6.4 Measures to control Inflation 6.5 Deflation- Meaning, Causes and Consequences	12
7	Business Cycles 7.1 Meaning and Features of Business Cycle 7.2 Phases of Business Cycle 7.3 Causes and Effects of Business Cycle. 7.4 Control of Business Cycles- Monetary and Fiscal Controls	12

8	Macroeconomic Objectives and Policies 8.1 Macroeconomic Objectives 8.2 Monetary Policy- Meaning and Definitions, Instruments, Advantages and Limitations 8.3 Fiscal Policy- Meaning and Definitions, Instruments and Advantages	12
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Basic Reading List

- Ackey, G (1976) Macro Economics Theory and Policy, Macmillan Publishing Company, New York
- Ahuja H. L. (2002) Macroeconomics Theory and Policy, Chand and Co. Ltd New Delhi.
- D'souza Errol (2008) Macroeconomics : Person Publication, New Delhi.
- Gupta S.B. (1994) Monetary Economics, S. Chand and Co. Delhi
- Jingan M.L. (2002) Macro Economic Theory, Vrinda Publication, Delhi
- Vaish M. C. (2002) Macro Economic Theory, Vikas Publishing House, N. Delhi
- Shapiro E (1996) Macro Economic Analysis; Galgotia Publication, New Delhi



ADDITIONAL READING LIST

- Dillard, D. (1960), The Economics of John Maynard Keynes, Crossby Lockwood and Sons, London.
- Day A.C.L. (1960) Outline of Monetary Economics, Oxford University Press, Oxford
- Higgins, B. (1963), Economic Development: Principles, Problems and Policies, Central Book Depot, Allahbad.
- Keynes, J.M. (1936), The General Theory of Employment, Interest and Money, Macmillan, London.
- Kindleberger, C.P. (1958), Economic Development, McGraw-Hill Book Company, New York.
- Datir, Lomate, Ushir (2012), Sthul Arthashastra, Nirali Prakashan, Pune.
- Lucas, R. (1981), Studies in Business Cycle Theory, MIT Press, Cambridge, Massachusetts.

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

List regarding course content that deals with the following issues (UG :B.A,B.Com,B.Sc.)



Course code	programme	Course subject	Sub title	Gender	Environment & Sustainability	Human Values	Professional Ethics	Name of the faculty & Signature
3157	TYBA	Economics G3	Economic Development & Planning	Topic-03-Constraints on Development Process-1.Population Explosion .	. Topic-03-Constraints on Development Process-1.Vicious Circle of Poverty2.Population Explosion etc	Topic-03-Constraints on Development Process-1.Socio-Cultural Constraints		
3158	T.Y.B.A	Economics (Spl-III) (2013)	International Economics		Topic-08-Regional and International Co-operation-Nature and Functions of-1.South Asian Association for Regional Co-operation (SAARC),2.Brazil, Russia, India, China and South Africa		Topic 7-Export Promotion measures -1. Export promotion - Contribution of SEZ 2. Role of multinational corporations in India.3. FEMA-	Dr. S. A. Patil 

					(BRICS),3.European Economic Community (EEC		provisions and impact etc.	
3159	TYBA	Economics S4	Public Finance	Topic-05- Budget -1. Gender Budget.			Topic 7-Centre- State Financial Relationship- 1.Constitutional Provisions,2 Role and Working of finance Commission,3. Recommendation of 13th and 14th finance Commission etc	Dr. S. A. Patil <u>Patil</u>

Radhika
Principal
Art's, Com. & Sci. College
Bajaramnagar, Tal. Dindori (Nashik)

G.3 Economic Development & Planning

(From June 2015)

Revised Syllabus

PREAMBLE:

The Study of Economic Development has gained importance because of staid interest of the developing countries in uplifting their economic conditions by restructuring their economics to acquire greater diversity, efficiency and equity in consonance with their priorities. While few success stories can be counted, many have grappled with chronic problems of narrow economic base, inefficiency and low standard of living. For this and other reasons, there have been many approaches to economic development. In recent times, besides hard core economic prescriptions to development, concern hitherto relegated to background, like education, health, sanitation and infrastructural development, have found place of pride in explaining the preference of various economies incorporated in this paper are devoted to the theories of economic development, approaches to economic development, social and institutional aspects of development, constraints on development process, macro economic policies, role of foreign capital and economic planning etc. in developing countries.

Section I

Lectures

- | | |
|---|-----------|
| 1. Economic Development and Growth | 10 |
| 1.1 Meaning of Economic Development and Growth | |
| 1.2 Indicators of Economic Growth | |
| 1.3 Indicators of Economic Development | |
| 1.4 Differences between Economic Development & Growth | |
| 2. Developing Countries | 14 |
| 2.1 Concept- Developed, Developing Countries | |
| 2.2 Characteristics of Developing Countries | |
| 2.2.1 Economic Characteristics | |
| 2.2.2 Demographic Characteristics | |
| 2.2.3 Technological Characteristics | |
| 2.2.4 Socio - Cultural Characteristics | |
| 2.2.5 Other Characteristics | |
| 3. Constraints on Development Process | 12 |
| 3.1 Vicious Circle of Poverty | |
| 3.2 Population Explosion | |
| 3.3 Low Productivity of Agriculture | |

3.4 Scarcity of Capital	
3.5 Inappropriate Technology	
3.6 Socio- Cultural Constraints	
3.7 Political and Administrative Constraints	
3.8 External Bottleneck	
4. Theories of Economic Development	12
4.1 Classical Theories- Adam Smith, Ricardo & Malthus	
4.2 Karl Mark's Theory of Economic Development	
4.3 Schumpeterian Theory of Economic Development	

Section II

5. Approaches to Economic Development	10
5.1 Big Push Theory	
5.2 Balanced Growth	
5.3 Imbalanced Growth	
6. Foreign Capital and Development	14
6.1 Meaning & Role of Foreign Capital in Economic Development	
6.2 Problems of Foreign Capital	
6.3 Private Foreign Investment- Types & Role	
6.4 Public Foreign Investment-Types	
6.5 Foreign Aid- Tide and Untied	
7. Macro Economic Policy	12
7.1 Monetary Policy- Objectives, Instruments and Limitations	
7.2 Fiscal Policy- Objectives, Instruments and Limitations	
7.3 Fiscal Policy in Cyclical Fluctuations	
8. Economic Planning	
8.1 Meaning & Definition	
8.2 Need of Planning	
8.3 Objective of Economic Planning- Economic, Social and Political	
8.4 Inclusive Growth Approach & 11 th five year plan	
8.5 National Institution for Transforming India Aayog (NITI AYOG)	

Basic Reading List

- Adelman, I. (1961) Theories of Economic Growth and Development, Stanford University Press, Stanford.
- Behrman, S. and T.N Srinivrsan, (1995) Handbook of Development Economic, Vol. 1 to 3, Elsevire, Amsterdam,

Savitribai Phule Pune University
T.Y. B.A. Economics
Special Paper III
S.3 International Economics

(From June 2015)

Revised Syllabus

PREAMBLE

This course provides the students a thorough understanding and deep knowledge about the basic principles that tend to govern the free flow of trade in goods and services at the global level. The contents of the Paper spread over various modules, lay stress both on theory and applied nature of the subject that have registered rapid changes during the last decade. Besides this, the contents prepare the students to know the impact of free trade and tariffs on the different sectors of the economy as well as at the macro level. The students would also be well trained about the rationale of recent changes in the export import policies of India. This paper has become relatively more relevant from the policy point of view under the present waves of globalization and liberalization both in the North and in the South.

Section I	No of Lectures
1. Introduction	12
1.1 International economics- meaning, Scope & Importance	
1.2 Inter-regional and international trade	
1.3 Importance of International Trade	
2.Theories of International Trade	12
2.1 Theory of absolute cost advantage and comparative cost advantage	
2.2 Heckscher-Ohlin theory	
2.3 Leontief's paradox, Rybczynski theorem, Intra-Industry Trade	
3. Gains from Trade	12
3.1 Measurement of gains, static and dynamic gains	
3.2 Terms of trade – Importance, types and determinants	
3.3 Causes of unfavorable terms of trade to developing countries.	
4. Balance of Payments	12
4.1 Balance of trade and Balance of payments- Concepts and components	
4.2 Equilibrium and disequilibrium in balance of payments; causes and consequences	
4.3 Measures to correct deficit in the balance of payments	
Section II	
5. Trade policy & Exchange Rate	12
5.1 Free trade policy - case for and against	
5.2 Protection Policy – case for and against	
5.3 Types of tariffs and quotas	
5.4 Exchange rates-Fixed and flexible	

6. India's Foreign Trade and Policy	12
6.1 Growth of India's foreign trade	
6.2 Changes in the composition and direction of foreign trade since 2000-2001	
6.3 Foreign Trade policy 2015-2020.	
6.4 India and WTO	
7. Export Promotion measures	12
7.1 Export promotion - Contribution of SEZ	
7.2 Role of multinational corporations in India.	
7.3 FEMA-provisions and impact	
7.4 Convertibility of Indian rupee	
8. Regional and International Co-operation	12
Nature and Functions of-	
8.1 South Asian Association for Regional Co-operation (SAARC)	
8.2 Brazil, Russia, India, China and South Africa (BRICS)	
8.3 European Economic Community (EEC)	

BASIC READING LIST

1. Kenan, P.B. (1994), The International Economy, Cambridge University Press, London.
2. Kindlberger, C.P. (1973), International Economics, R.D. Irwin, Homewood.
3. Krugman, P.R. and M. Obstfeld (1994), International Economics : Theory and Policy, Glenview, Foresman.
4. Salvatore, D.L. (1997), International Economics, Prentice-Hall, Upper Saddle River, N.J.
5. Sodersten, Bo (1991), International Economics, Macmillan Press Ltd., London.
6. International Economics , M.L. Jhingan

ADDITIONAL READING LIST

1. Bhagwati, J. (Ed.) (1981), International Trade, Selected Readings, Cambridge University Press, Mass.
2. Greenaway, D. (1983), International Trade Policy, Macmillan Publishers Ltd., London.
3. Joshi V. and I.M.D. Little (1998), India's Economic Reforms, 1999-2001, Oxford University Press, Delhi.
4. Panchmukhi, V.R. (1978), Trade Policies of India : A Quantitative Analysis, Concept Publishing Company, New Delhi.
5. Patel, S.J. (1995), Indian Economy Towards the 21st Century, University Press Ltd., India.
6. Misra and Puri, Indian Economy, Himalaya Publishing House
7. Dangat Nilesh (2015), 'International Economics' Success Publication, Pune.
8. Gite T.G. (2015), 'International Economics' (Marathi Edition), Success Publication, Pune.

Savitribai Phule Pune University

**T.Y. B.A. Economics
Special Paper IV
S 4. Public Finance**

(From June 2015)

Revised Syllabus

PREAMBLE

Role and functions of the Government in an economy has been changing with the Passas of time. The term 'Public Finance' has traditionally been applied to the package of those policies and operations which involve the use of tax and expenditure measures while budgetary policy is an important part to understand the basic problems of use of resources, distribution of Income, etc. There are vast array of fiscal institutions -tax systems, expenditure programs budgetary procedures, stabilization instruments, debt issues, levels of government, etc., which Raise a spectrum of issues arising from the operation of these institutions. Further, the existence of externalities, concern for adjustment in the distribution of income and wealth, etc. require political processes for their solution in a manner which combines individual freedom and justice.

Section I	No of Lectures
1 Public Finance	10
1.1 The role of Government in an economy	
1.2 Meaning, Nature, Scope and Importance of Public Finance	
1.3 Private Finance and Public Finance	
1.4 Principle of Maximum Social Advantage- Dr. Dalton	
2. Public Expenditure	12
2.1 Meaning and Principle of Public Expenditure	
2.2 Classification of Public Expenditure	
2.3 Trends of Public Expenditure in India.	
2.4 Causes of increase in Public Expenditure	
2.5 Effects of Public Expenditure	
3. Public Revenue	14
3.1 Sources of Public Revenue	
3.2 Meaning and Objectives of Taxation	
3.3 Principles of taxation- Benefit approach, Ability to pay	
3.4 Concepts- Impact of Tax, incidence of Tax, Shifting of Tax and Taxable Capacity	
3.5 Indian Tax Structure- Direct and Indirect tax, Progressive, proportional and Regressive	
4. Public Debt	12
4.1 Meaning and types of Public Debt	
4.2 Sources of internal and external Public Debt	
4.3 Effects of Public Debt	
4.4 Methods of repayment	

Section II

5. Budget	12
5.1 Meaning, nature and objectives of Budget	
5.2 Types of Budget – Revenue, Capital, Surplus, Deficit and Balance Budget	
5.3 Preparation of Indian Central Budget	
5.4 Gender Budget	
6. Deficit Financing	12
6.1 Meaning, Objectives	
6.2 Need, Process and Causes	
6.3 Trends in India Deficit finance since 2001	
6.4 Effects of Deficit Financing	
7. Centre-State Financial Relationship	12
7.1 Constitutional Provisions	
7.2 Role and Working of finance Commission	
7.3 Recommendation of 13th and 14th finance Commission	
7.4 Centre- State Conflict	
8. Fiscal Policy	12
8.1 Meaning, Role and Objectives of Fiscal Policy	
8.2 Review of Indian Fiscal Policy since 2001	
8.3 Fiscal Policy in developing economy	
8.4 Limitations of Fiscal policy	

BASIC READING LIST

1. Jha R., (1998) Modern Public Economics, Routledge London
2. Bhargava P.K., (1984) some Aspects of Indian Public Finance, Uppal Publishing House New Delhi.
3. Government of India (1985) Long Term Fiscal Policy, New Delhi.
4. Government of India (1992) Reports of the tax Reforms committee- interim and Final, (chairman: Raja J. Chelliah).
5. Srivastava, D.K., (Ed) (2000) Fiscal Federalism in India, Har-Anand Publication, Ltd. New Delhi.
6. Datt R., (2001), second Generation Economics Reforms in India, Deep and Deep Publications, New Delhi
7. Bhatia H.L. (1984) Public Finance, Vikas Publishing House Pvt.Ltd. New Delhi

ADDITIONAL READING LIST:-

1. Musgrave and Musgrave, (1989) Public Finance in Theory and Practice Mc Graw- Hill International Edition
2. Tyagi B.P., (1992-93), Public Finance, jai Prakash Nath Co. Meerat, U.P.
3. Datta / Sundaram (2009), Indian Economy S.Chand And Co. Ltd New Delhi.
4. Rasal Rajendra (2015), 'Public Finance'(Marathi Edition), Success Publication, Pune

MARATHI

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

List regarding course content that deals with the following issues (UG :B.A,B.Com,B.Sc.)

programme	Course code	Course subject	Gender	Environment & Sustainability	Human Valuse	Professional Ethies	Name of the faculty & Signature
S.Y.B.A	2027	Marathi G2	शायतनाखंड कले यांच्या आत्मचरित पर लेखनातून स्त्री पुरुष समानतेचा संदेश दिला जातो.		डॉ. बाळासाहेब आंबेडकर यांच्या चरित्रातून नव सामाजिक, धार्मिक मानवता, वैद्यकी आयुष्याची परंपरा जातो.	सर्व प्रकारांच्या मध्यास्तातून व्यक्तिमत्त्व विकासाचा कोणत्या प्राप्त होताव.	
S.Y.B.A	2028	Marathi S1	'भ्रमरावाट' या आत्मचरिततून आदिवासी जीवनातील पुरुष-स्त्री समानतेचा संदेश होतो.		'शरंग दांग' या कदंबरीतून मनवता, वैद्यकी समलिंगीतेचा या गावामध्ये संदेश मिळतो.		
S.Y.B.A	2029	Marathi S2	मराठी वाङ्मय इतिहासातून प्रवाचनकार व साहित्यिकांचा स्त्रीवर्गावरील कोणत्या व्यक्ती सहानुता आहे.		कथा कविता नव कदंबरी व. राहिल्या प्रकाशनातून संस्कृ- तीने सततदुनारीकता व्यक्त होते. मानव तावादी ह्याकात व्यक्त होतो.		



External Examiner

Internal Examiner

Principal
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Rajaramnagar, Tal. Dindori (Nashik)

३. पाठ्यपुस्तक

तास : २४

गुण ३०

जीवनवेध

संपादक : प्रा. डॉ. स्नेहल तावरे

प्रा. डॉ. शिरीष लांडगे

द्वितीय सत्र

एकूणतास: ४८

गुण : ६०

१) व्यावहारिक मराठी

तास : १२

गुण १५

१ सारांश लेखन

५

२ पारिभाषिक संज्ञा

१०

२) 'आत्मचरित्र' या साहित्यप्रकाराची तात्त्विक मीमांसा

तास : १२

गुण १५

१ आत्मचरित्र : संकल्पना

२ आत्मचरित्र व आत्मकथन : साम्य-भेद

३ आत्मचरित्र : साहित्यप्रकाराची वाटचाल

३) पाठ्यपुस्तक

तास : २४

गुण ३०

माझी जडणघडण

संपादक : प्रा. डॉ. स्नेहल तावरे

प्राचार्य डॉ. उज्ज्वला देवरे

University Of Pune, S. Y. B. A. Marathi Syllabus (From 2014)

3

द्वितीय वर्ष कला (S. Y. B. A.)

पहिले सत्र

विषयाचे नाव

आधुनिक मराठी साहित्य : प्रकाशवाटा [DSE 1 A (3)]

अभ्यासक्रमाची उद्दिष्टे :

१. आत्मचरित्र या साहित्यप्रकाराचे स्वरूप, संकल्पना समजावून घेणे.
२. आत्मचरित्र या साहित्यप्रकाराच्या प्रेरणा आणि वाटचाल यांची ओळख करून घेणे.
३. ललित गद्यातील अन्य साहित्यप्रकारांच्या तुलनेत आत्मचरित्राचे वेगळेपण समजावून घेणे.
४. नेमलेल्या या आत्मचरित्राचे आकलन, आस्वाद आणि विश्लेषण करणे.

घटक	तपशील	श्रेयांक	तासिका
१	आत्मचरित्र : संकल्पना, स्वरूप; प्रेरणा आणि वाटचाल ललित गद्यातील अन्य साहित्यप्रकारांच्या तुलनेत आत्मचरित्राचे वेगळेपण	१	१५
२	अभ्यासपुस्तक प्रकाशवाटा - डॉ. प्रकाश आमटे समकालीन प्रकाशन, पुणे	२	३०

संदर्भ ग्रंथ:

१. चरित्र - आत्मचरित्र, अ. म. जोशी
२. चरित्र - आत्मचरित्र, सदा कऱ्हाडे
३. आत्मचरित्र मीमांसा, आनंद यादव
४. मराठीतील आत्मचरित्रपर लेखन, ऊषा हस्तक
५. मराठी वाङ्मय कोश, खंड ४, संपादक, विजया राजाध्यक्ष
६. आत्मचरित्र, मराठी विश्वकोश, खंड २
७. २० व्या शतकातील मराठी आत्मचरित्र, उषा हस्तक

द्वितीय वर्ष कला (S. Y. B. A.)

नियमित अभ्यासक्रम

पहिले सत्र

विषयाचे नाव

भाषिक कौशल्यविकास आणि आधुनिक मराठी साहित्यप्रकार : कादंबरी [CC - 1 C (3)]

अभ्यासक्रमाची उद्दिष्टे :

१. कादंबरी या साहित्यप्रकाराचे स्वरूप, घटक, प्रकार आणि वाटचाल समजून घेणे.
२. नेमलेल्या कादंबरीचे आकलन, आस्वाद आणि विश्लेषण करणे.
३. भाषिक कौशल्यविकास करणे.

घटक		तपशील	श्रेयांक	तासिका
१	अ	१ संगणक आणि मोबाईलवर युनिकोडमधून मराठी मुद्रण. २ कळफलक प्रकार : इनस्क्रिप्ट, फोनेटिक ३ मराठी टंकलेखन आणि युनिकोडचा वापर : गुगल इनपुट, मायक्रोसॉफ्ट इनपुट व इतर साधने	१	१५
	ब	१ कादंबरी : स्वरूप आणि घटक २ कादंबरी : प्रकार आणि वाटचाल		
२		अभ्यासपुस्तक रारंग ढांग – प्रभाकर पेंढारकर मौज प्रकाशन गृह, मुंबई	२	३०

संदर्भ ग्रंथ :

१. साहित्य अध्यापन आणि प्रकार, संपादक श्री. पु. भागवत आणि इतर.
२. आधुनिक मराठी वाङ्मयाचा इतिहास, खंड ४, ५, ६, संपादक रा. श्री. जोग.
३. आधुनिक मराठी वाङ्मयाचा इतिहास, अ. ना. देशपांडे
४. मराठी कादंबरी : समाजशास्त्रीय समीक्षा, डॉ. रवींद्र ठाकूर
५. मराठी कादंबरीतील प्रादेशिकता, डॉ. भास्कर शेळके
६. मराठी ग्रामीण कादंबरी, डॉ. रवींद्र ठाकूर
७. मराठी कादंबरीचे पहिले शतक, कुसुमावती देशपांडे
८. कादंबरी आणि मराठी कादंबरी, उषा हस्तक
९. मराठी कादंबरी आस्वादयात्रा, संपादक विजया राजाध्यक्ष
१०. मराठी कादंबरी : तंत्र आणि विकास, प्रा. वा. बापट, ना. वा. गोडबोले
११. मराठी प्रादेशिक कादंबरी : तंत्र आणि स्वरूप, डॉ. मदन कुलकर्णी
१२. मराठी कादंबरी : चिंतन आणि समीक्षा, डॉ. चंद्रकांत बांदिवडेकर
१३. कादंबरी : सार आणि विस्तार, डॉ. महेंद्र कदम

- २ या कालखंडातील साहित्य निर्मिती मागील प्रेरणा आणि प्रवृत्ती.
- ३ या कालखंडातील निबंध, कविता, कथा, कादंबरी, नाटक, चरित्र, आत्मचरित्र या निवडक वाङ्मयप्रकारांचा स्थूल आढावा.

द्वितीय सत्र

अर्वाचीन मराठी वाङ्मयाचा इतिहास (इ. स. १९२१ ते १९६०)

एकूणतास: ४८

सत्रांत परीक्षा गुण: ६०

१) कालखंड : इ.स. १९२१ ते १९४५

तास : १२

गुण ३०

- १ या कालखंडातील सामाजिक, धार्मिक, राजकीय, सांस्कृतिक आणि वाङ्मयीन पार्श्वभूमी.
- २ या कालखंडातील साहित्यनिर्मिती मागील प्रेरणा आणि प्रवृत्ती.
- ३ या कालखंडातील निबंध, कविता, कथा, कादंबरी, नाटक, चरित्र, आत्मचरित्र, ललितगद्य इ. या निवडक वाङ्मयप्रकारांचा स्थूल आढावा.

२) कालखंड : इ.स. १९४६ ते १९६०

तास : १२

गुण ३०

- १ या कालखंडातील सामाजिक, धार्मिक, राजकीय, सांस्कृतिक आणि वाङ्मयीन पार्श्वभूमी.
- २ या कालखंडातील साहित्य निर्मिती मागील प्रेरणा आणि प्रवृत्ती.
- ३ या कालखंडातील निबंध, कविता, कथा, कादंबरी, नाटक, चरित्र, आत्मचरित्र, ललितगद्य इ. या निवडक वाङ्मयप्रकारांचा स्थूल आढावा.

संदर्भ ग्रंथ

- १ मराठी वाङ्मयाचा इतिहास खंड ४, ५, ६, म.सा.प. पुणे.
- २ अर्वाचीन मराठी गद्याची पूर्वपीठिका- गं.बा. सरदार
- ३ महाराष्ट्र जीवन खंड १ व खंड २ गं. बा. सरदार

University Of Pune, S. Y. B. A. Marathi Syllabus (From 2014)

19

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

List regarding course content that deals with the following issues (UG :B.A,B.Com,B.Sc.)

programme	Course code	Course subject	Gender	Environment & Sustainability	Human Valuse	Professional Ethies	Name of the faculty & Signature
T.Y.B.A	3027	Marathi G3		'प्रवासवर्णि' या साहित्य प्रकारातून परिसरातील नैसर्गिक पर्यावरणाची ओळख होते.	सामाजिक बांधिलकी भाषा प्रेम सर्वधर्म समभाव या गोष्टींचा संदेश मिळतो.	'देश विदेश' यातून परदेशी नात्यांमधील व्यक्तिमत्त्व विकास ग्रंथपरीक्षे शांततेने वृत्तपत्रात प्रसिद्ध करण्यात येतो.	
T.Y.B.A	3028	Marathi S3	साहित्याची सामाजिकता या प्रकारातून व भाषा प्रेम यांच्या सिद्धांतांमधील सर्वधर्म समभाव वगैरे यांचा आदर्श होतो.		सामाजिक बांधिलकी संस्कृती परंपरा संभ्यता या मानवी मूल्यंचा विचार होतो.		
T.Y.B.A	3029	Marathi S4	भाषेतील लिंगभावाची जाणीव निर्माण होते.		सामाजिक भाषा विज्ञानाद्वारे भाषेक सहसंवेद्य स्वरूप देणे व सामाजिक सल्लोखा निर्माण होतो.		

External Examiner

Examiner



Principal
Art's, Com. & Sci. College
Rajaramnagar, Tal. Dindori (Nashik)

घटक क — निबंधसंग्रह

गुण — ३०
तासिका — २४

‘विचारधारा’ — संपा— डॉ. स्नेहल तावरे
डॉ. भास्कर शेळके

तृतीय वर्ष कला (T.Y.B.A)

मराठी (सामान्यस्तर पेपर — ३)

द्वितीय सत्र

एकूण तासिका— ४८

घटक अ — प्रवासवर्णन : तात्त्विक विवेचन

गुण — १५
तासिका — १२

- प्रवासवर्णन या साहित्यप्रकाराचे स्वरूप व व्याख्या
- इतर साहित्यप्रकारांच्या तुलनेत प्रवासवर्णनाचे वेगळेपण
- प्रवासवर्णन या साहित्य प्रकारामागील प्रेरणा व प्रयोजने

घटक ब — प्रवासवर्णन साहित्यप्रकाराची वैशिष्ट्ये, व्याप्ती आणि वाटचाल

गुण — १५
तासिका — १२

घटक क — प्रवासवर्णनसंग्रह

गुण — ३०
तासिका — २४

‘देशविदेश’ — संपा— डॉ. स्नेहल तावरे

डॉ. अशोक शिंदे
डॉ. अरुण कोळेकर

२) शैशववृत्ती ३) अनुभव समृद्धी ४) विद्वत्ता ५) लेखकाचा जीवनविषयक दृष्टिकोण. ६) लेखकाचा साहित्यविषयक दृष्टिकोण.

४. साहित्याची भाषा:—

- १) व्यवहारभाषा, शास्त्रीय साहित्याची भाषा व साहित्याची भाषा यांच्यातील भेद.
- २) शब्दार्थाचा वक्रव्यापार
- ३) भाषेचे नादरूप
- ४) अलंकार
- ५) रूपक
- ६) प्रतिमा
- ७) प्रतीक
- ८) प्राक्कथा
- ९) शैली विचार — १) लेखक तशी शैली २) आशय तशी शैली ३) साहित्यप्रकार तशी शैली.

द्वितीय सत्र

एकूण तासिका— ४८

५. साहित्याचा आस्वाद:—

- १) आस्वाद मगणजे काय ?
- २) आस्वाद प्रक्रिया
- ३) आस्वादकाला आवश्यक असणारे गुण
- ४) आस्वादातील अडथळे

६. साहित्याची सामाजिकता:—

- १) साहित्य आणि समाज यांचे परस्परसंबंध
- २) लेखकाची सामाजिकता

३) भाषेची सामाजिकता

४) कलात्मक अनुभवातील सामाजिकता

५) वाचकाची सामाजिकता

६) साहित्यातील सामाजिकतेला वैश्विक रूप प्राप्त होते काय?

७) बांधीलकीची संकल्पना व साहित्यिकाची बांधीलकी.

७. साहित्यिक अभिरुची

१) अभिरुची म्हणजे काय?

२) अभिरुची आणि सौंदर्यदृष्टी.

३) अभिरुची आणि औचित्य.

४) अभिरुची भिन्नतेची कारणे.

५) अभिरुची नियत करणारे घटक — सांस्कृतिक पर्यावरण, आर्थिक पर्यावरण, वाङ्मयीन पर्यावरण.

८. साहित्यप्रकाराची संकल्पना:—

१) साहित्याच्या वर्गीकरणाची शक्याशक्यता

२) साहित्याच्या वर्गीकरणाची आवश्यकता

३) साहित्याच्या वर्गीकरणाची तत्वे— माध्यमभिन्नता, प्रस्तुतीकरणाची पद्धती, प्रस्तुतीकर्त्याचा दृष्टिकोण व प्रस्तुतीकरणाचा काळ

४) साहित्याचे ठळक प्रकार — कथा, कादंबरी, काव्य, नाटक.

संदर्भ साहित्य

१) साहित्यविचार — डॉ. अ. वा. कुलकर्णी

२) साहित्यविचार (संपा.) डॉ. द.दि.पुंडे, डॉ.स्नेहल तावरे

३) काव्यशास्त्र प्रदीप — डॉ. स.रा.गाडगीळ

४) वाङ्मयीन शैली आणि तंत्र — म.द.हातकणंगलेकर,

५) साहित्यविचार — भालचंद्र खांडेकर

द्वितीय सत्र

एकूण तासिका- ४८

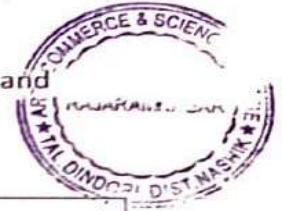
५. वाक्यविचार — वाक्यविन्यास संकल्पना आणि मराठीतील वाक्यविन्यास व्यवस्था, वाक्याचे घटक
६. अर्थविचार — अर्थविन्यास व मराठीतील त्याचे स्वरूप, अर्थ ही संकल्पना, अर्थाचे विविध प्रकार
७. ऐतिहासिक भाषाभ्यासपद्धती — सर विल्यम जोन्स यांचा सिद्धांत — ऐतिहासिक भाषाविज्ञानाचे स्वरूप — कार्य, भाषाकुलाची संकल्पना — भाषांचे वर्गीकरण — जगातील प्रमुख भाषाकुले — इंडो युरोपियन भाषाकुल — आर्य भाषाकुल व मराठी भाषा — होन्ले यांचा अंतर् बहिर् वर्तुळ सिद्धांत.
८. मराठी भाषेची उत्पत्ती :- मराठी भाषेची उत्पत्ती व त्यासंबंधीची साधने — मराठी भाषेच्या उत्पत्ती संबंधी विविध सिद्धांत — वैद्य-गुणे वाद, मराठीचे कालिक भेद

POLITICAL SCIENCE

Internal Examiner

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

List regarding course content that deals with the following issues (UG :B.A,B.Com,B.Sc.)



programme	Course code	Course subject	Gender	Environment & Sustainability	Human Value	Professional Ethics	Name of the faculty & Signature
S.Y.B.A	2167	Politics G2	Unit-5 Liberty and Equality of opportunity	Unit-8 Right and Justice - Meaning, nature and Type, dimension and impact	Unit-4 Right and Justice - meaning, nature and dimension	Unit-3 Power & Authority - meaning, nature, importance and forms.	
S.Y.B.A	2168	Politics S1	Unit-1 Plato's views on Justice & communism	Unit-8 a) Rousseau's view on Human nature b) Social contract	1) Plato 2) Aristotle 3) J.S. mill	Unit-4 J.S. mill's views on representative Government & state	
S.Y.B.A	2169	Politics S2	b) Political Participation - meaning, nature, level, agency of recruitment	Unit-4 Political Socialisation process.	Unit-2 Intellectual Foundation of Political Sociology - woman's blueber	Unit-3 Political Culture.	

External Examiner

Principal
Art's, Com. & Sci. College
Rajaramnagar, Tal. Dindori (Nashik)

University of Pune
S.Y.B.A Political Science

G-2 General Paper

POLITICAL THEORY & CONCEPTS

(80-20 Pattern to be implemented from 2014-2015)

Course Objectives:

This is an introductory paper to the concepts, ideas and theories in political theory. It seeks to explain the evolution and usage of these concepts, ideas and theories with reference to individual thinkers both historically and analytically. The different ideological standpoints with regard to various concepts and theories are to be critically explained with the purpose of highlighting the differences in their perspectives and in order to understand their continuity and change. Furthermore there is a need to emphasize the continuing relevance of these concepts today and explain how an idea and theory of yesteryears gains prominence in contemporary political theory.

Term-I

Unit: 1 - Introducing Political Theory

- a) Definitions, Nature & Scope
- b) Traditions of Political Theory: Liberal & Conservative

Unit: 2 - State

- a) Definitions Meaning and Elements
- b) Perspectives on State (Liberal, Marxist)

Unit: 3 - Power & Authority (Professional Ethics)

- a) Conceptions of Power, Power as Exploitation, Authority, Hegemony, Foucault on Power
- b) Authority: Meaning, Nature & its forms

Unit-4 - Right and Justice (Human Values)

- a) Meaning, Nature & Kinds of Rights
- b) Dimensions of Justice (Social, Economic Political)

Term-II

Unit: 5 – Liberty and Equality (Gender)

- a) Liberty: Meaning, Nature, Classification: Negative & Positive Liberty
- b) Equality: Meaning, Nature, Types of Equality: Equality OF Opportunity; political Equality, Affirmative Action

Unit: 6 – Democracy

- a) The Concept of Democracy, Direct Participatory & Liberal Democracy
- b) Perspectives on Democracy, Merits and demerits

Unit: 7 – Sovereignty

- a) Meaning & Characteristics of sovereignty
- b) Theory of Popular Sovereignty

Unit 8: Globalisation (Environment & sustainability)

- a) Definition, Meaning
- b) Impact of Globalisation

Readings:

Lodhi Kaniz Fatema, Political Theory

Chavan Shankar Political Theory , Pratima Prakshan ,Pune.

Benke Suvarna, Rajkiya Siddhant, Prashant Publication, Jalgaon

Bhargava Rajeev & Ashok Acharya (eds), Political Theory: An Introduction. Pearson Longman, 2008. (English Medium)

Bhargava Rajeev & Ashok Acharya (eds), Political Theory: An Introduction. Pearson Longman, 2008. (Marathi Medium)

Gaubha O.P, An Introduction to Political Theory, New Delhi, Macmillan, 1981.

Sir E. Barker, Principles of Social and Political Theory, Calcutta, Oxford University Press, 1976.

N. P. Barry, Introduction to Modern Political Theory, London, Macmillan, 1995.

S. Benhabib and D. Cornell, Feminism as Critique, Cambridge, Polity Press, 1987. Political Science 7

S. I. Benn and R. S. Peters, Social Principles and the Democratic State, London, George & Allen, 1959. A. Brecht, Political Theory: The Foundations of

Twentieth Century Political Thought, Bombay, The Times of India Press, 1965.

M. Carnoy, The State and Political Theory, Princeton NJ, Princeton University Press, 1984.

University of Pune
S.Y.B.A Political Science
Special Paper-I
WESTERN POLITICAL THOUGHT

(80-20 Pattern to be implemented from 2014-2015)

Course Objectives:

This paper studies the classical tradition in political theory from Plato to Marx with the view to understand how the great Masters explained and analyzed political events and problems of their time and prescribed solutions. The texts are to be interpreted both in the historical and philosophical perspectives to understand the universality of the enterprise of political theorizing. The limitations of the classical tradition, namely its neglect of women's concerns and issues and the non-European world are critically examined. The legacy of the thinkers is explained with the view to establish the continuity and change within the Western political tradition.

<u>Term-I</u>	Weight age
<u>Unit: 1 - Plato</u> (Gender) (Human Values)	12
a) Ideal State & Philosopher King	
b) Views on Education	
c) Views on Justice & Communism	
<u>Unit: 2 - Aristotle</u> (Human Values)	12
a) Views on State	
b) Views on Property, Views on Slavery	
c) Views on Revolution	
<u>Unit: 3 - Machiavelli</u>	12
a) Views on Human Nature	
b) Views on Religion & Morality	
c) Theory of Statecraft	
<u>Unit: 4 - J.S.Mil</u> (Human Values) (Professional Ethics) ¹²	
a) Views on Utilitarianism	
b) Views on Liberty	
c) Views on Representative Government & State	
<u>Term-II</u>	12
<u>Unit: 5 - Karl Marx</u>	
a) Historical Materialism	
b) Theory of Class & Struggle	
c) Theory of State & Revolution	
<u>Unit: 6 - Hobbes</u>	12
a) State of Nature	
b) Views on Human Nature	
c) Theory of Social Contract	

Unit: 7 – John Locke	12
a) Theory of Social Contract	
b) Views on natural Rights	
c) Views on civil society & State	
Unit: 8 - Rousseau (Environment & sustainability)	12
a) State of Nature & Views on Human Nature	
b) Theory of General Will	
c) Theory of Social Contract	

Readings:

- Shefali Jha, Western Political Thought from Plato to Marx, Pearson, 2012
- Biran R. N., Western Political Thought from Socrates to the Age of Ideology, Pearson 2008.
- Garde D.K., 1977, Western Political Thought, Rane Pub.Pune (**Marathi Book**).
- Sakalkar E. & Ashok Jain, 1990, Western Political Thought, Sheth Pub.Pune (**Marathi Book**).
- Deo Vijay, Sharad Gosavi & Sanjoyt Apte, 2012, Western Political Thought, Diamond Pub. Pune (**Marathi Book**)
- A. Ashcraft, Revolutionary Politics and Locke's Two Treatises of Government, London, Allen and Unwin, 1986.
- A. Avineri, The Social and Political Thought of K. Marx, New Delhi, S. Chand and Co., 1979.
- , The Politics of Aristotle, translated with introduction, notes and appendix, Oxford, Oxford University Press, 1995.
- K. C. Brown (ed.), Hobbes' Studies, Cambridge Massachusetts, Harvard University Press, 1965.
- F. Chabod, Machiavelli and the Renaissance, translated by D. Moore, New York, Harper and Row, 1958.
- A. Cobban, Rousseau and the Modern State, London, Unwin University Books, 1964.
- J. Coleman, A History of Political Thought: From Ancient Greece to Early Christianity, London, Blackwell, 2000.
- L. Colletti, From Rousseau to Lenin: Studies in Ideology and Society, translated by D. Germino, Modern Western Political Thought: Machiavelli to Marx, Chicago, University of Chicago Press, 1972.
- G. Klosko, The Development of Plato's Thought, London, Methuen, 1986.
- H. J. Laski, Political Thought from Locke to Bentham, Oxford, Oxford University Press, 1920.
- P. Laslett, John Locke's Two Treatises of Government, Cambridge, Cambridge University Press, 1960.
- R. B. Levinson, In Defense of Plato, Cambridge Massachusetts, Harvard University Press, 1953.
- D. McLellan, Karl Marx: The First 100 Years, London, Fontana, 1983.
- K. R. Minogue, Hobbes' Leviathan, New York, Everyman's Library 1977.
- S. Mukherjee and S. Ramaswamy, A History of Political Thought: Plato to Marx, New Delhi, Prentice Hall, 1999.
- R. G. Mulgan, Aristotle's Political Theory: An Introduction for Students of Political Theory, Oxford, The Clarendon Press, 1977.
- M. Oakeshott, Hobbes on Civil Association, Oxford, Basil Blackwell, 1975.

University of Pune
S.Y.B.A Political Science
Special Paper-II

POLITICAL SOCIOLOGY

(80-20 Pattern to be implemented from 2014-2015)

Section I

1. Definition, Nature and Scope of Political Sociology

2. Intellectual Foundation of Political Sociology (Human Values)

a) Marx b) Max Weber c) Behavioral Approach

3. Political Culture (Professional Ethics)

a) Meaning and Nature

b) Types of Political Culture

4. Political Socialization (Environment & sustainability)

a) Process and Agencies of Socialization

Section II

5. Political Ideology

a) Meaning and Nature

6. Political Participation (Gender)

a) Meaning and Nature

b) Levels of Participation

c) Agencies of Recruitment

7. Legitimacy and Influence

a) Meaning and Nature

b) Types

8. Political Change, Political Development.

a. Meaning and Nature

b. Types of Political Change

c) Concept of Political Development

Readings

1. Awari Vilas, Devare Suresh Adhunik Rajakiya Vishleshan, Dimond pune.
2. Chavan Shankar Rajkiya Tatvapranali, Pratima Pub. Pune.
3. Rush M. and P. Althof : An Introduction to Political Sociology, Flecher, London.
4. Varma S. P.: Modern Political Theory, Vikas Publication, New Delhi.
5. Bottomere T. B. : Political Sociology, B1 Publication, Bombay.

.3.1 Institution integrates cross-cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum.

List regarding course content that deals with the following issues (UG :B.A,B.Com,B.Sc.)

programme	Course code	Course subject	Gender	Environment & Sustainability	Human Value	Professional Ethics	Name of the faculty & Signature
T.Y.B.A	3167	Politics G3	Unit-8 Feminism - meaning, nature scope, type relevance	Unit-5 Marxism - Historical materialism surplus value view of state	Unit-7 Gandhism Truth Non- violence view of development	Unit-2 Nationalism Meaning- nature scope elements etc.	<u>SB. Borate</u>
T.Y.B.A	3168	Politics S3		Unit-4 Governance. E-governance Good Governance	Unit-5 Bureaucracy people orient- ation.	Unit-5 Bureaucracy. 4) Governance good governance	<u>SB. Borate</u>
T.Y.B.A	3169	Politics S4	Unit-8 Issues in Int. politics Human Right	Unit-7 Disarmament 5) security 8) Issues in Int Politics- Terrori- sm Environment	Unit- Politics a) Theory of Ideology 8) Issues - Human Rights	3) Power a) Diplomacy - Meaning Types & Challenges.	<u>SB. Borate</u>

Radhar
Principal
Art's, Com. & Sci. College
Rajaramnagar, Tal. Dindori (Nashik)

SYLLABUS FOR TYBA POLITICAL SCIENCE (G-3)

POLITICAL IDEOLOGIES

Course Rationale:

This paper studies the role of different political ideologies and their impact in politics. Each ideology is critically studied in its historical context. In course of its evolution and development, the different streams and subtle nuances within each ideology, the changes and continuities in its doctrine and its relevance to contemporary times are highlighted. The close link between an idea and its actual realization in public policy needs to be explained as well. The philosophical basis of the ideologies is emphasized with special emphasis on key thinkers and their theoretical formulations. The legacy of all the major ideologies is to be critically assessed.

SECTION-I

UNIT-I: - Ideology

08

- a) Origin, Meaning, Definition
- b) Nature and Scope

UNIT-II: - Nationalism (Professional Ethics)

14

- a) Meaning, Definitions and Elements
- b) Progressive and Reactionary
- c) Internationalism

UNIT-III: - Democratic Socialism

14

- a) Meaning, Nature and Features
- b) Achievements and Limitations
- c) Types : Fabianism, Syndicalism, Guild Socialism

UNIT-IV: - Fascism

12

- a) Factors responsible for the rise of Fascism
- b) Principles
- c) Corporate State

SECTION-II

UNIT-V: - Marxism (Environment & sustainability)

12

- a) Historical Materialism
- b) Theory of Surplus Value
- c) Marxian State

UNIT-VI: - Phule-Ambekarism

12

- a) Equality
- b) Religion
- c) Democracy

UNIT-VII: - Gandhism (Human Values)

12

- a) Truth and Non-Violence
- b) Theory of Satyagraha
- c) Gram Swaraj

UNIT-VIII: - Feminism (Gender)

12

- a) Meaning and Nature
- b) Liberal Feminism
- c) Feminism in India : Caste, Patriarchy, Women's Representation

Readings:

- L. P. Baradat, Political Ideologies: Their Origins and Impact, Englewood Cliffs NJ, Prentice Hall, 1989.
———, The Liberal Tradition in China, Hong Kong and New York, Chinese University of Hong Kong Press, 1983.
D. Bell, The End of Ideology, New York, The Free Press, 1960.
R. N. Berki, Socialism, London, John Dent and Sons, 1975.
Sir I. Berlin, "Nationalism: Past Neglect and Present Power" in H. Hardy (ed.) Against the Current, Oxford, Oxford University Press, 1981.
J. Bondurant, Conquest of Violence: the Gandhian Philosophy of Conflict, Berkeley, University of California Press, 1965.
R. M. Christenson, et al., Ideologies and Modern Politics, London, Thomas Nelson and Sons, 1971.
P. Gay, The Dilemma of Democratic Socialism: Eduard Bernstein's challenge to Marx, New York, Columbia University Press, 1952.
E. Gellner, Nations and Nationalism, Oxford, Blackwell, 1983. Political Science 76 J. Gray, Liberalism, Minneapolis, University of Minnesota Press, 1986.
J. Gray, Liberalisms: Essays in Political Philosophy, London, Routledge, 1989.
D. Ingersoll and R.K. Mathews, The Philosophic Roots of Modern Ideologies: Liberalism, Communism and Fascism, Englewood Cliffs NJ, Prentice Hall, 1991.
R. N. Iyer, The Moral and Political Thought of Mahatma Gandhi, New York, Oxford University Press, 1973.
M. Kitchen, Fascism, London, Dent, 1979.
D. J. Manning, Liberalism, London, John Dent and Sons, 1976.
H. C. Mansfield, The Spirit of Liberalism, Cambridge, Harvard University Press. Political Science 77
D. McLellan, Marxism after Marx, London, Macmillan, 1975.
———, On Nationality, Oxford, The Clarendon Press, 1995.
Dr. Lodhi Kaniz Fatma Niyaz Ahmed, Modern Political Ideologies, Success Publication, Pune, 2015.
Dr. Benke Suvana, Political Theory (Marathi), Peasant Publication, Jalgaon, 2014.
Dr. Chavan Shankar, Modern Political Ideology (Marathi), Pratima Prakashan, Pune.
Dr. Devare P.D., & Dr. D.S. Nikumbh, Modern Political Ideologies (Marathi), Prashant Publication, Jalgaon, 2008.
Dr. Date Sunil & Dr. Dhobale Ramesh, Political Ideologies (Marathi), Vidya Book Publishers, Aurangabad, 2009.
Dr. Rathi Shubhangi, Modern Political Ideologies (Marathi), Atharva Publication, Jalgaon, 2014.
Kulkarni A.N., Modern Political Ideologies, Vidya Prakashan Nagpur, 2014

OR

SYLLABUS FOR TYBA POLITICAL SCIENCE (S-3)

PUBLIC ADMINISTRATION

Course Rationale:

This paper is an introductory course in Public Administration. The essence of Public Administration lies in its effectiveness in translating the governing philosophy into programmes, policies and activities and making it a part of community living. The paper covers personnel public administration in its historical context thereby proceeding to highlight several of its categories, which have developed administrative salience and capabilities to deal with the process of change. The recent developments and particularly the emergence of New Public Administrations are incorporated within the larger paradigm of democratic legitimacy. The importance of legislative and judicial control over administration is also highlighted

SECTION-I

UNIT-I: - Public Administration 12

- a) Meaning
- b) Nature
- c) Scope and Significance

UNIT-II: - New Public Administration 12

- a) Evolution
- b) Salient Features
- c) Goals

UNIT III:- Approaches to Public Administration. 12

- a) Traditional Approach
- b) Behavioral Approach
- c) System Approach

UNIT-IV: - Governance (Environment & sustainability) 12

- a) Idea of Good Governance (Professional Ethics)
- b) E-Governance
- c) Public Private Partnership

SECTION-II

UNIT-V:- Bureaucracy (Human Values) (Professional Ethics) 12

- a) Meaning and Definitions
- b) Administrative Reforms

UNIT-VI: - Personnel Administration 12

- a) Recruitment
- b) Training
- c) Promotion

UNIT-VII: - Budget 12

- a) Meaning and types
- b) Budgetary Process in India

SYLLABUS FOR TYBA POLITICAL SCIENCE (S-4)

INTERNATIONAL POLITICS

Course Rationale:

This paper deals with concepts and dimensions of international relations and makes an analysis of different theories highlighting the major debates and differences within the different theoretical paradigms. The dominant theories of power and the question of equity and justice, the different aspects of balance of power leading to the present situation of a unipolar world are included. It highlights various aspects of conflict and conflict resolution, collective security and in the specificity of the long period of the post Second World War phase of the Cold War, of Détente and Deterrence leading to theories of rough parity in armaments.

SECTION-I:

UNIT I :- International Politics (Human Values) 12

- a) Nature and Scope
- b) Theories of Idealism and Realism

UNIT II :- Approaches to the Study of International Relations 12

- a) Power Approach
- b) Decision Making Approach
- c) System Approach

UNIT III :- Power (Professional Ethics) 12

- a) Meaning
- b) Elements
- c) Changing Nature of the National Power

UNIT IV :- Balance of Power 12

- a) Meaning and Nature
- b) Characteristics
- c) Changing Nature of the Balance of Power

SECTION -II

UNIT V :- Security (Environment & sustainability) 12

- a) Meaning and definition
- b) Regional Security
- c) Collective Security

UNIT VI :- Diplomacy (Professional Ethics) 12

- a) Meaning
- b) Types of Diplomacy
- c) Challenges To Diplomacy

UNIT VII :- Disarmament (Environment & sustainability) 12

- a) Meaning and Nature
- b) Types of Disarmament
- c) Issues and Challenges

UNIT VIII :- Issues in International Politics (Gender) (Environment & sustainability) (Human Values)

- a) Human Rights - Its variations and Measures
- b) Terrorism - Causes and Consciousness

Readings:

- D. A. Baldwin (ed.), Neo-realism and Neo-liberalism, New York, Columbia University Press, 1993. (ed.), Paradoxes of Power, New York, Basil Blackwell, 1989.
- J. C. Bennett (ed.), Nuclear Weapons and the Conflict of Conscience, New York, Charles Scribner's Sons, 1962.
- D.G. Brennan (ed.), Arms Control, Disarmament and National Security, New York, George Braziller, 1961.
- H. Bull, The Control of the Arms Race, New York, Praeger, 1961.
- K von Clausewitz, War, Politics and Power: Selections, Chicago, Henry Regnery Company, 1962.
- W. D. Coplin, Introduction to International Politics, Chicago, Markham, 1971
- K. Deutsch, The Analysis of International Relations, Englewood Cliffs NJ, Prentice Hall, 1967. J. E. Dougherty, How to think about Arms Control and Disarmament, New York, Alfred A. Knopf, 1962
- R. L. Pfaltzfraff, Jr., Contending Theories of International Relations, Philadelphia, J.B. Lippincott Co., 1970.
- W. Epstein, Disarmament: 25 years of Effort, Toronto, Canadian Institute of International Affairs, 1971.
- The Last Chance: Nuclear Proliferation and Arms Control, New York, The Free Press, 1976.
- R. A. Falk, Law, Morality and War in the Contemporary World, New York, Frederick A Praegar, 1963
- H. W. Forbes, The Strategy of Disarmament, Washington DC, Public Affairs Press, 1962.
- J. Galtung, The True Worlds: A Transnational Perspective, New York, The Free Press, 1980.
- F. I. Greenstein and N. W. Polsby, Theory of International Relations, Reading Massachusetts, Addison-Wesley, 1979.
- K.J. Holsti, Why Nations Realign, London, Allen and Unwin, 1982.
- , The Dividing Discipline, Boston, Allen and Unwin, 1985.
- , Peace and War: Armed Conflicts and International Order 1648-1989, Cambridge, Cambridge University Press, 1991.
- A. Hurrell, "Collective Security and International Order Revisited" International Relations, Vol. II, No.1, April.
- R. O. Keohane, After Hegemony: Cooperation and Discord in the World Political Economy, Princeton NJ, Princeton, University Press, 1984.
- (ed.), Neo-realism and Its Critics, New York, Columbia University Press, 1986.
- , International Institutions and State Power, Boulder Colorado, Westview Press, 1989. ———
- and E. Ostrom (eds.), Local Commons and Global Interdependence: Heterogeneity and Co-operation in Two Domains, London, Sage, 1994.
- S. D. Krasner (ed.), International Regimes, Ithaca NY, Cornell University Press, 1983.
- Political Science 23 H. D. Lasswell, World Politics and Personal Insecurity, New York, McGraw-Hill Book Company, 1953.
- H. J. Morgenthau, Politics Among Nations, 6th edition, revised by K. W. Thompson, New York, Alfred Knopf, 1985.
- J. A. Vasquez, The Power of Power Politics, London, Frances Pinter, 1983.

SOCIOLOGY DEPARTMENT



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

List regarding course content that deals with the following issues (UG :B.A,B.Com,B.Sc.)

programme	Course code	Course subject	Gender	Environment & Sustainability	Human Value	Professional Ethics	Name of the faculty & Signature
F.Y.B.A	12371	G1-1 sociology	Unit-1 Social Institution				
S.Y.B.A	24373	G12 sociology.		Populations.		Unit-1 Theories and Perspective	
T.Y.B.A	3377	G13 sociology.	2. Major forms and changing profile of crime in India.	3. Recent Trends and prevention of crimes.	Human Rights		


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F. Y. B. A. SOCIOLOGY (June 2019-

20)

(CBCS pattern to be implemented from 2019-2020) G-1 General Paper

Total Credits : 03

Semester – I **Introduction to Sociology Objectives:**

1. To understand the social context of emergence of Sociology.
2. To introduce basic sociological concepts and subject matter and perspectives of Sociology
3. To familiarize students with new avenues in Sociology.

I. Emergence of Sociology as a Discipline. (16)

- a. Emergence of Sociology - Western and Non-Western background, Enlightenment (French and industrial Revolution)
- b. Definitions, Nature (Scientific and Humanist) and subject matter of Sociology.
- c. Sociological Imagination: Beyond Commonsense
- d. Diverse fields and career opportunities in Sociology.

II. Basic Concepts in Sociology. (12)

- a. Society: Definitions, Characteristics and Changing Types of Society (Gathering and Hunting, Agriculture, Industrial and Neo Liberal).
- b. Groups, associations and Social Networks – Concepts and Characteristics

III. Culture, Inequality and Social Exclusion (20)

- a. Culture -Definition, Characteristics, Aspects.
- b. Types of Culture –Folk, Mass, Popular, Subculture, Counter Culture.
- c. Ethnocentrism, Xenophobia, Multiculturalism and hybridization
- d. Social stratification and Social Inequality – Concept and Bases (caste, class, gender, ethnicity and age)
- e. Social Exclusion – Meaning and Dimensions (Economic, Political, Occupational and Cultural)

Semester - II

Sociology: Social Institutions and Change

Objectives:

1. To acquaint students with basic institutions of Society with its newer dimensions.
2. To develop critical understanding of the functioning of social institutions.

3. To acquaint students with the concept and current versions of social change.

I. Social Institutions -I (18)

- a. Family and kinship, Marriage – meaning, forms and changing trends. (Singlehood, cohabitation, Mixed Family, Gay- Lesbian Marriages).
- b. Polity: Meaning Forms. (Monarchy, Democracy, Totalitarianism, Authoritarianism, Neo-liberal state)
- c. Economy: Meaning, History and Models. (Capitalism, Socialism, Mixed Economy, Neo liberal)

II. Social Institutions -II (18)

- a. Religion: Meaning, Forms, Secularization
- b. Education – Meaning, Forms (Formal , Non-formal and Role), Challenges in Higher Education
- c. Media – Meaning, Types (Print, Electronic, Social Media and Role) Relevance of Mass Media in Contemporary Society

III. Social Change (12)

- a. Social change : Concept and Characteristics
- b. Technology, State, Civil Society and Social movement.
- c. Modernization, Development and Globalization

Society in India: Understanding Issues

Semester III

Unit I: Social Problems-Concept and Approaches

15

1. Concept, Definitions and Characteristics and consequence of Social Issues
2. Approaches to social problems – structural functional, conflict, interactionist, recent trends

Unit II: Issues related to Structural, Ethnic and religious dissonance

15

- 1 Caste Inequality and Discrimination – Meaning, Nature, types and Causes
- 2 Issues of Religious minorities: Nature and Causes (religious fundamentalism, and intolerance. etc.)

Unit III: Gender Inequality and Discrimination

15

1. Aspects of gender inequality and discrimination – Economic, Cultural, Political, Familial.
2. Violence against women – Domestic and sexual violence- Causes and Consequences
Sex selective abortion and Human Trafficking– Causes and Nature

Special -2 Society in India: Core Issues

Semester IV

Objectives:

1. To acquaint the students to the changing nature of social Issues in India
2. To encourage students to think critically about the constructions of social issues

Unit I: Developmental: Idea and Issues

(15)

1. Development – meaning
2. Issues of Development – (growing inequality and displacement of Indigenous People, and environmental degradation)- Causes and Consequences
- 3 Poverty (Rural and Urban) – Meaning, Nature and Causes

Unit II: Issues of Youth and Senior Citizens.

(12)

1. Issues of Youth – unemployment, education, sexuality, drug abuse and suicide.
2. Issues of the Aged – Economic, social, psychological and Related to health

Unit III: Dealing with social Issues

(18)

1. Role of Sociology (Critical analysis and dissemination) and Social Work (social action)
2. Role of State: Policies, Planning and Legislations (Take any single issues to explain)
3. Role of Civil Society Organizations (social auditing, advocacy, mobilizing, empowering and enabling good governance, justice and democracy)

G-2 Introduction to Population and Society

Semester – III

Unit I- Introduction, theories and perspectives related to population studies (20)

A) Introduction:

1. Population Studies – Meaning, Scope and Importance
2. Evolution of Population Studies - Micro Demography to Macro Demography. B)

Theories and perspectives:

Malthusian theory

Demographic Transition theory

Marxist Thoughts on Population

Feminist perspective on demography (it was there in earlier version)

Unit II – Sources of population data (15)

1. Census – definition and importance
2. Registration of vital events (birth, death, marriage, adoption, divorce)- meaning and importance
3. Recent trends in collection of population data – Adhar (Unique Identification Data), NPR, NRC and CAA and the debate around them

Unit III - Population and Development (10)

1. Population as a constraint on and a resource for development
2. Relationship between population and poverty

General -2 Population and Indian Society

Semester IV

Unit-I Population Growth, Distribution and Population dynamics in India (20)

1. Growth of population since 1901
2. Nature and characteristics of Indian population (Age, Sex, Missing Girl child, Education, Literacy, Religion)
3. Fertility - Definition and factors (Biological, Physiological, Social, Economic and Cultural)
4. Mortality - (Mortality, Infant Mortality, Maternal Mortality, Sex Selective Abortions) Definition and factors
5. Migration - Definition, Causes, Types and Consequences
6. Socio-cultural factors of population dynamics- gender, religion, education, caste, class and tribe

Unit II-- Population policy in India (16)

1. Population policy and Role of state
2. Population policy in India- Pre- and post-independence

(i) Family planning – 1961; ii) Family welfare 1977; iii) National Population Policy 2000 and development thereafter)

Unit III- Legislative measures to enhance the quality and quantity of population in India (12)

1. Ban on sex determination and sex-selective abortions
2. PCPNDT
3. National Rural Health Mission

Semester IV

Unit I- Vulnerable sections of society: Women and Transgender (15 Lectures)

1. Discrimination and Issues of women : Property, employment, violence, health, representation and issues of LGBTQ
2. Civil Society and Important legislation for women in India: PCPNDT, reservations, Vishakha law, Law against Trafficking, Adopted in 2019.
3. Amendment in Section 377, the Transgender Persons (Protection of Rights) Act, 2019

Unit II- Vulnerable sections of society: Workers (15 Lectures)

1. Neoliberalism and Issues of workers in India- unemployment, casualisation, migrant labour, child labour, devaluation of labour laws, impact of Corona pandemic
2. Constitutional rights articles 14-16, and Art 41-43A
3. Important legislation and provisions for Workers: The Factories Act, 1948, The Payment of Wages Act, 1936 and other important acts, Unorganized Workers Social Security Act, 2008, Pradhan Mantri Suraksha Bima Yojna

Unit III- Vulnerable sections of society: Minorities (15 Lectures)

1. Challenges and Issues of Minorities in India, Discrimination, issues of freedom identity and Citizenship (CAA and NRC), human rights, , Pseudo Nationalism, Xenophobia
2. Article 29-30, Article 347 and 350, National Commission for Minorities (NCM) 3. Future of India towards a Just Society

General -3 Crime and Society Semester V

Unit –I: Concept and approaches to Crime

(15)

1. Crime: Definition, Characteristics and Causes of Crime (social, economic, political and cultural.)
2. Approaches to Crime: Functionalist perspective: Emile Durkheim (Crime as inevitable), Interactionist perspective: Howard Becker (Labelling theory), Marxist perspective: William Chambliss (Capitalism and crime) and Neo-Marxist perspective: Ian Taylor, Paul Walten and Jock Young (The new criminology)

Unit –II: Major Forms and Changing Profile of Crime in India(15)

1. Crimes against SCs, STs and DTNTs, Crimes against Women, Juvenile delinquency and crimes against children: Meaning, features and causes
2. White collar crime, Cybercrime: Meaning features and causes.

Unit –III: Recent Trends and Prevention of Crime

(15)

1. Criminalization of politics, Environmental crimes, Terrorism: Meaning, features and causes
2. Prevention of Crime: Punishment, Prison and alternative imprisonment (Open prison, Probation, Parole), Rehabilitation of prisoners, Crime and the role of media

General -3: Introduction to Human Rights and Social Justice

SEM- VI

Objectives

1. To enhance the knowledge, understanding and awareness of students about human rights and social justice
2. To develop skills related to protection of human rights and ensuring of social justice
3. To promote respect for all through knowledge of human rights

Unit I: Basic Concepts in Human Rights and Social Justice (18)

1. Human Rights – Definition, Meaning and Characteristics
2. Social Justice - Meaning, Types and Principles (Equity, Participation, Diversity and Human rights)
3. Significance of Human Rights and Social Justice
4. Universal Declaration of Human Rights-Significance and Preamble

Unit II: Constitution, Human Rights and Social Justice in Indian Context (15)

1. Preamble to the Constitution of India
2. Human rights in Indian Constitution
3. Social Justice in the Context of Caste, Gender, Age, and Sexual Group)
(Justice to the aged and children) in India
4. Human Rights and Minorities in India

Unit III: Emerging Issues of Human Rights and Social Justice (12)

1. Right to Information
2. Right to Privacy: Social Media and UID (Aadhar Card)
3. Right to Healthcare and Public Health
4. Rights of Differently Able

GEOGRAPHY



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

List regarding course content that deals with the following issues (UG :B.A,B.Com,B.Sc.)

programme	Course code	Course subject	Gender	Environment & Sustainability	Human Values	Professional Ethics	Name of the faculty & Signature
F.Y.B.A	1207	Geography-G1		Soil degradation water management	International movement	Weyner's Fifth Theory	<i>[Signature]</i>
S.Y.B.A	2207	Geography-G2	Atmospheric moisture.	Global climate			<i>[Signature]</i>
T.Y.B.A	3707	Geography-G3	Energy Resources.	Biodiversity sustainable Development of Agriculture	Poly house & Agriculture		<i>[Signature]</i>

[Signature]
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1.3.1 Institution integrates cross-cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum.

List regarding course content that deals with the following issues (UG :B.A,B.Com,B.Sc.)

programme	Course code	Course subject	Gender	Environment & Sustainability	Human Value	Professional Ethics	Name of the faculty & Signature
F.Y.B.A	110(A)	Physical Geography	factor affecting distribution of Population.	1) Heat Balance 2) Hydrological cycle 3) Agricultural Problems.	Field visit.	Theory of demographic transition.	
	110(B)	Human Geography					
S.Y.B.A	210(A)	Environmental Geography (I)	Environmental Disaster (Swine Flu) Novel Corona (Covid-19)	1) Biodiversity & Its conservation 2) Environmental Disaster 3) Environmental Pollution 4) Environmental Problems. 5) Environmental Policies	Kyoto Protocol Environmental Planning & Management.	Approach to study of environmental Geography.	
	210(B)	Environmental Geography (II)					
T.Y.B.A							

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UNIVERSITY OF PUNE
F.Y.B.A.
Gg- 110 -Elements of Geomorphology (G-1)
Revised Syllabus (from June, 2013)

Objectives:

- I. 1. To introduce the students to the basic concepts in Geomorphology.
- II. To introduce latest concept in Geomorphology
- III. To acquaint the students with the utility and application of Geomorphology in different regions and environment.
- IV. To make the students aware of the need of protection and conservation of different landforms

Section I			
Unit No.	Unit	Sub Unit	No. of periods
1	Introduction to Geomorphology	a. Introduction to Physical Geography and its branches b. Geomorphology- Definition, Nature and Scope	8
2	Fundamental Concepts of The Earth	a. The Earth Size, Shape, Radius, Circumference, Parallels of Latitudes and Meridians of Longitudes. b. Time: Local time and Standard time, Time Zone and International Date Line.	6
3	The Earth	a. The earth – its Interior, Composition & Structure b. Origin of Continents and Ocean basin i. Wegener's Continental Drift Theory ii. Theory of Plate Tectonics- iii. Theory of Sea Floor Spreading	5 6
4	Rocks	a. Rock- Definition and origin. b. Type of Rocks- Igneous, Sedimentary and Metamorphic rocks	5 5
5	Crustal Movements	a. Internal Movements- Definition, Causes b. Classification of Movements i. Slow movements- Folding and Faulting ii. Rapid movements – Volcanism and Earthquakes	5 5

Section II				5
6	Weathering	a. Definition of Weathering, b. Type of Weathering- Mechanical, Chemical, biological and Anthropogenic weathering c. Hydrological cycle		6
7	Agents of Erosions and Depositions	Landforms created by following agents a. Rivers. b. Sea-waves.		6
8	Mass Wasting	Concept – Type – Soil Creep, Landslides, Debris flows, Avalanches, Mud Flow		8
9	Slopes	Meaning & Definition of slopes, Types and slope segments Concave, Convex, Terraced, Rectilinear		6
10	Applications of Geomorphology	a. Human Activity: i. Settlement ii. Transport iii. Landuse iv. Mining v. Resource Evaluation		6
		b. Environmental Hazards & Assessment: i. Landslides ii. Tsunami iii. Soils Degradation iv. Floods		5
		c. Watershed Management:		4
		d. Field Visit (Not more than two days) for observations and identification of landforms.		4

Gg 210: Elements of Climatology and Oceanography (G2)

Objectives:

1. To introduce the students to the basic principles and concepts in Climatology and Oceanography.
2. To acquaint the students with the applications of Climatology and Oceanography in different areas and environment.
3. To make the students aware of the Planet Earth and thereby to enrich the student's knowledge.

Section I - Climatology			
No.	Unit	Sub Units	Periods
1	Introduction to Climatology and Atmosphere	1. Definition, nature and scope 2. Importance of Climatology in modern times. 3. Weather and climate, elements of weather and climate 4. Composition and structure of the atmosphere	10
2	Insolation	1. Heat budget of the Earth. 2. Factors affecting horizontal distribution of temperature. 3. Inversion of temperature, lapse rate and its types. 4. Global warming.	8
3	Atmospheric Pressure and Wind System	1. Vertical and horizontal distribution of pressure. 2. Formation of pressure belts and their relation with winds. 3. Concept of pressure gradient. 4. Type of winds- planetary winds, periodic winds (Monsoon winds), local winds - land and sea breezes, mountain and valley winds. 5. El Niño and La Niña	10
4	Atmospheric Moisture and Precipitation	1. Sources of moisture, methods to express humidity of the air- absolute and relative humidity. 2. Forms of precipitation- rain, snow, dew, hail and fog. 3. Types of clouds- high, medium low clouds.	10
5	Atmospheric Disturbances	1. Cyclones- tropical and temperate and associated weather conditions. 2. Anticyclones and associated weather conditions.	7

Section II – Oceanography			
6	Oceanography	1. Definition, nature and scope. 2. Relevance of Oceanography on earth	8
7	Submarine Relief	1. General idea of ocean relief. 2. Relief of Atlantic, Pacific and Indian oceans.	8
8	Properties of Ocean Water	1. Properties of ocean water- temperature, density. 2. Salinity- meaning and causes. 3. Salinity of oceans, seas, and lakes with examples.	10
9	Movements of Ocean Water	1. Waves- Characteristics of sea waves, tsunamis. 2. Ocean currents- meaning, causes, types. 3. Ocean currents of Atlantic, Pacific and Indian Oceans 4. Effects of ocean currents. 5. Tides- meaning, causes, types. 6. Equilibrium theory of tides.	12
10	Coastal Environment Coastal	1. Significance of Coastal Environment. 2. Oceans as Storehouse of Resources for the future	7

Reference Books:

- Critchfield, H.J., 1997. General Climatology, Prentice Hall of India Pvt. Ltd, New Delhi.
Dasgupta, A. and Kapoor, A.N., Principles of Physical Geography.
Grald, S., General Oceanography.
Tirewartha, G., Introduction to Weather and Climate.
King, C.A.M., Oceanography for Geographers.
Lake, P., Physical Geography.
Lutgens, F.K. and Tarbuck, E.J., 2007. The Atmosphere, Pearson Prentice Hall,
Pirie, R.G., Oceanography (Contemporary).
Ross, D.A., 1988. Introduction to Oceanography. Prentice Hall, New Jersey.
Sharma, R.C. and Vatel. M.,- Oceanography for Geographers.
Strahler, A.A. and Strahler, A. N., 2002. Physical Geography: Science and Systems of the Human Environment, John Wiley and Sons, INC.
Strahler, A.H. and Strahler, A. N., 1992. Modern Physical Geography, John Wiley and Sons, Inc.
Strahler, A.N., 1965. Introduction to Physical Geography, John Wiley and Sons, INC.
Ahirrao, W.R., Alizad, S.S. and Dhapte, C.S., 1998. Climatology and Oceanography, Nirali Prakashan, Pune.
Bhagvat Arvind and Karlekar Shrikant : Prakrutik Bhuvvidnyan
Datye and Datye : Sugam Prakrutik Bhuvvidyan.

Various websites of internet.

Savitribai Phule Pune University, Pune
T.Y.B.A
Gg.: 310 Regional Geography of India (G-3)
June 2015

Objective :-

1. To acquaint the students with geography of our Nation.
2. To make the student aware of the magnitude of problems and Prospects at National level.
3. To help the students to understand the inter relationship between the subject and the society.
4. To help the students to understand the recent trends in regional studies.

SECTION - I

Sr. No.	Topic	Sup Topic	Learning Points	Periods
1	Introduction	Location, Extent and Geopolitical Significance	1. Historical Background 2. Location and Extent 3. Relationship with Neighboring Countries 4. Geopolitical Importance of Indian Ocean.	10
2	Physiography	Major Physiographic Regions and their Importance	1. The Northern Mountains 2. The North Indian Plains 3. The Peninsular Plateau 4. The Coastal low lands 5. The Islands	12
3	Drainage	Drainage System of India The Himalayan River System The Peninsular River System	1. The Indus, The Ganga, The Brahmaputra 2. East Flowing Rivers- Mahanadi, Godavari, Krishna, Kaveri. 3. West Flowing Rivers- Narmada, Tapi, Mahi 4. Rivers of the Sahyadri - Amba & Damanganga	12
4	Climate	Characteristics, Origin and Mechanism of Monsoon, Various Seasons	1. Characteristics of Indian Climate 2. Role of Various Controlling Factors on Climate of India 3. Monsoon: Origin and Mechanism 4. Various Seasons and Weather Associated with them	11

SECTION - II

5	Soils and Natural Vegetation	Types and Distribution	Types of Soils and its Distribution Soil Degradation and Conservation Types of Natural Vegetation and its Distribution	12
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6	Minerals and Energy Resources	Mineral Resources Energy Resources	Deforestation and Conservation 1. Mineral Resources & its distribution Iron ore, Manganese, Bauxite, Copper 2. Energy Resources- a) Major Conventional & its Distribution Coal, Mineral Oil, Natural Gas b) Non-conventional - Hydroelectricity, Solar energy, Wind energy, Biogas, Atomic energy	12
7	Agriculture	Significance and Recent Trends in Agriculture	1. Significance of Agriculture in Indian Economy 2. Green Revolution 3. White Revolution 4. Blue Revolution 5. Livestock Resources, 6. Tissue Culture & Horticulture 7. Poly House and Agriculture	11
8	Planning and Development	Regional Planning and development	1. Concept, Objectives, Need, Nature of Regional Planning 2. Experience of Regional Planning in India 3. Regional Development of Maharashtra	10

Suggested Readings:

1. Aher A.B., Chaodhari A. P & Chaodhari Archana. Regional Geography of India Prashant Publication Jalgaon 2015
2. Deshpande C.D: India-A Regional Interpretation Northern Book Centre, New Delhi.1992.
3. Farmer, B.H.: An Introduction to South Asia. Methuen, London, 1983.
4. Govt. of India: India - Reference Annual, 2001 Pub. Div, New Delhi, 2001.
5. Govt. of India: National Atlas of India, NATMO Publication, Calcutta.
6. Govt. of India: The Gazetteer of India. Vol I & III Publication Division, New Delhi, 1965.
7. Learmonth, A.T.A. et.al(ed.) : Man and Land of South Asia Concept, New Delhi.
8. Mitra, A.: Levels of Regional Development India Census of India, Vol I, Part I-A (i) and (ii) New Delhi, 1967.
9. Routray, J.K.: Geography of Regional Disparity Asian Institute of Technology, Bangkok, 1993.
10. Shafi, M: Geography of South Asia, McMillan & Co., Calcutta, 2000.
11. Singh, R.L.(ed.): India: A Regional Geography. National Geographical Society. India, Varanasi, 1971.
12. Spate, O.H.K. and Learmonth, A.T.A.; India and Pakistan - Land, People and Economy Methuen & Co., London, 1967.
13. P. G. Saptarshi, J. C. More, V. R. Ugale & A. H. Musmade :A Geographical Region of India : Diamond Publication (2009) (Marathi)
14. Patil S. G., Suryawanshi R. S., Pacharne S., Choudhar A. H. : Economic Geography, Atharav Prakashan, Pune. (2014) (Marathi).
15. Aher A. B., Arekar R.: Commercial Geography, Atharav Prakashan, Pune. (2013) (Marathi).
16. Datt & Sunderm: Indian Economy (2014)

Details of Syllabus:**Semester I
Physical Geography**

Sr. No	Topic	Sub Topics	Teaching Hours	Total Credits
1.	Introduction to Physical Geography	1) Definitions of Physical Geography 2) Nature and scope of Physical Geography 3) Branches of Physical Geography 4) Introduction about the Earth system (Lithosphere, Atmosphere, Hydrosphere and Biosphere)	12	03
2	Lithosphere	1) Interior of the earth 2) Wegner's Continental Drift Theory 3) Davis Concept of Cycle of erosion	12	
3	Atmosphere	1) Structure of the atmosphere 2) Heat Balance 3) Pressure belts and wind system 4) Forms and types of Precipitation	12	
4	Hydrosphere	1) Hydrological cycle 2) General structure of ocean floor 3) Waves and Tides 4) Field Visit (Not more than one day) for observations geographical places and landforms.	12	

Reference Books

- 1) Clyton K., (1986), Earth Crust, AdusBook, London.
- 2) Davis W. M., (1909), Geographical Essay, Ginnia Co.
- 3) Dayal P., (1996), Text Book of Geomorphology, Shukla Book Depot, Patna.
- 4) Kale V.S. and Gupta A., (2015), Introduction of Geomorphology, University Press, PVT Kolkata.
- 5) Kale V.S. and Gupta A., (2001), Elements of Geomorphology, Oxford Univ. Press.
- 6) Monkhouse, (1951), Principle of Physical Geography, McGraw Hill Pub – New York.
- 7) Pitty A. F., (1974), Introduction to Geomorphology, Methuen London.
- 8) Singh Savindra. (2000), Physical Geography, Prayag Pustak Bhavan, 20-A, University Road, Allahabad – 211002.
- 9) Steers J. A., (1964), The Unstable Earth Some Recent Views in Geography, Kalyani Publishers, New Delhi.
- 10) Swaroop Shanti, (2006), Physical Geography, King Books, Nai Sarak, Delhi – 110006.
- 11) Wooldridge S. W. and Morgan R. S., (1959), The Physical Basis of Geography and Outline of Geomorphology, Longman Green and Co. London.
- 12) More, Pagar & Thorat, (2014), Elements of Climatology & Oceanography, (Marathi), Atharv Publication, Pune
- 12) S MUKHERJEE, UNDERSTANDING PHYSICAL GEOGRAPHY, ORIENT BLACKSWAN (PVT) LTD

Semester II**DSE (Discipline Specific Elective) - II Geography**
Human Geography

Sr. No	Topic	Sub Topics	Teaching Hours	Credits
1.	Introduction to Human Geography	1) Definitions of Human Geography 2) Nature and scope of Human Geography 3) Branches and importance of Human Geography	12	03
2	Population	1) Factors affecting on distribution of population 2) Theory of demographic transition 3) Composition of Indian population (Gender and literacy)	12	
3	Settlements	1) Types and pattern of rural Settlements 2) Urbanisation in India 3) Urbanisation in Maharashtra	12	
4	Agriculture	1) Types of Agriculture 2) Factors affecting on Agriculture activity 3) Problems of Indian agriculture	12	

Reference Books

1. Chandna, R.C. (2010) Population Geography, Kalyani Publisher.
2. Hassan, M.I. (2005) Population Geography, Rawat Publications, Jaipur
3. Daniel, P.A. and Hopkinson, M.F. (1989) The Geography of Settlement, Oliver & Boyd, London.
4. Musmade Arjun, Sonawane Amit and Jyotiram More, Population & Settlement Geography, (2015), Diamond Publication Pune.
5. Jyotiram More and Musmade Arjun (2015) Regional Geography of India .Diamond Publication Pune.
6. Johnston R; Gregory D, Pratt G. et al. (2008) The Dictionary of Human Geography, Blackwell Publication.
7. Jordan-Bychkov et al. (2006) The Human Mosaic: A Thematic Introduction to Cultural Geography. W. H. Freeman and Company, New York.
8. Kaushik, S.D. (2010) Manavi Bhugol, Rastogi Publication, Meerut.
9. Maurya, S.D. (2012) Manav Bhugol, Sharda Pustak Bhawan. Allahabad.
10. Sudepta Adhikari (2016) Orient Blackswan PVT, New Delhi.
12. Sumitra Ghosh (2015), Introduction of Settlement Geography. Orient Blackswan PVT Kolkata.
13. Ghosh B.N. : Fundamentals of Population Geography
14. Hussin M. : Human Geography 1994
15. Money D.S. : Human Geography

S.Y.B.A. Geography (G2) Syllabus for Semester III**Name of Subject: Environment Geography- I, Subject Code: Gg.210 (A)****Objectives:**

1. To create the awareness about dynamic environment among the student.
2. To acquaint the students with fundamental concepts of environment geography for development in different areas.
3. The students should be able to integrate various factors of Environment and dynamic aspect of Environmental geography.
4. To make aware the students about the problems of environment, their utilization and conservation in the view of sustainable development

Sr. No.	Topic	Sub Topics	Teaching Hours	Total Credits
1	Introduction to Environmental Geography	1. Definition, Nature and scope of Environmental Geography. 2. Types of Environment 3. Importance of Environmental Geography 4. Approaches to study of environmental Geography	12	03
2	Ecosystem	1. Meaning, concept and definition of ecosystem. 2. Structure (Biotic and Abiotic factors) and food chain, Tropic Level, food web, energy flow 3. Types of ecosystem a) Equatorial Forest and b) Pond Ecosystem	12	
3	Biodiversity and its conservation	1. Concept of biodiversity 2. Economic value and potential of biodiversity 3. Loss of biodiversity and hotspots in India 4. Conservation of biodiversity	12	
4	Environmental Pollution	1. Concept of Pollution 2. Air pollution-Causes, effects and control measures 3. Water pollution-Causes, effects and control measures 4. Soil pollution-Causes, effects and control measures	12	

Reference Book:

1. Miller G.T., 2004, Environmental Science Working with the Earth, Thomson Books Cole, Singapore
2. Saxena H.M., 2017, Environmental Geography(Ed III), Rawat Publications, Jaipur
3. Odum E.P. et al.2005, Fundamentals of Ecology, Ceneage Learning, India

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4. Sharma P.D.2015, Ecology and Environment, Rastogi Publications, Meerut
5. Kormondy, Edward J, 2012, Concept of Ecology, PHI Learning Pvt.Ltd, New Delhi
6. Singh R.B.(Eds) 2009, Biogeography and Biodiversity, Rawat Publications, Jaipur
7. Singh S.Prayag, 1997, Environment Geography, Pustak Bhawan, Allahabad
8. Chandana R.C.2002, Environmental Geography, Kalyani Publication, Ludhiana
9. Goudie A, 2001, The Nature of The Environment, Blackwell, Oxford
10. Gholap T. N., 2000, Environment Science, Nishikant Publications, Pune. (Marathi)
11. Choudhar A.H., & et. al., 2014, Disaster Management, Atharva Publication, Pune. (Marathi)
12. Musmade A. H., More J. C. 2014, Geography of Disaster Management, Diamond Publication, Pune. (Marathi)
13. Saptarshi P. G., More J. C., Ugale V. R., 2009, Geography and Natural Hazards, Diamond Publishing, Pune. (Marathi)

S.Y.B.A. Geography (G2) Syllabus for Semester IV

Name of Subject: Environment Geography- II, Subject Code: Gg.210 (B)

Objectives:

1. To create awareness about dynamic environment among the students.
2. To acquaint students with the fundamental concepts of Environment Geography.
3. To acquaint students about the past, presents and future utility and potentials of natural resources.
4. To make aware students about the problems of environment, its utilization and conservation in the view of sustainable development.

Sr. No.	Topic	Sub Topics	Teaching Hours	Total Credits
1	Environmental Disaster	1. Meaning and concepts of environmental disaster 2. Classification of Disaster 3. Natural Disaster a) Earthquake b) Flood 4. Biological Disaster a) Swine flu b) Novel Corona (COVID-19)	12	03

CBSE: 2020-21		S.Y.B.A.	Geography	
2	Environmental Problems	1. Global Warming and climate change 2. Ozone Depletion 3. Acid rain 4. Over use of chemical fertilizers, pesticides and insecticides	12	
3	Environmental Planning and Management	1. Need of Planning and Management 2. Micro, macro and meso level Planning and Management with reference to India 3. Environmental impact assessment	12	
4	Environmental Policies	1. Introduction of environmental policies 2. Environmental education in India 3. Kyoto Protocol	12	

Reference Book:

1. Miller G.T., 2004, Environmental Science Working with the Earth, Thomson Books Cole, Singapore
2. Saxena H.M., 2017, Environmental Geography, (III ED) Rawat Publications, Jaipur
3. Odum E.P. et al. 2005, Fundamentals of Ecology, Cengage Learning, India
4. Sharma P.D. 2015, Ecology and Environment, Rastogi Publications, Meerut
5. Kormondy, Edward J, 2012, Concept of Ecology, PHI Learning Pvt. Ltd, New Delhi
6. Singh R.B. (Eds) 2009, Biogeography and Biodiversity, Rawat Publications, Jaipur
7. Singh S, Prayag, 1997, Environment Geography, Pustak Bhawan, Allahabad
8. Chandana R.C. 2002, Environmental Geography, Kalyani Publication, Ludhiana
9. Goudie A, 2001, The Nature of The Environment, Blackwell, Oxford
10. Gholap T. N., 2000, Environment Science, Nishikant Publications, Pune. (Marathi)
11. Choudhar A.H., & et. al., 2014, Disaster Management, Atharv Publication, Pune. (Marathi)
12. Musmade A. H., More J. C. 2014, Geography of Disaster Management, Diamond Publication, Pune. (Marathi)
13. Saptarshi P. G., More J. C., Ugale V. R., 2009, Geography and Natural Hazards, Diamond Publishing, Pune. (Marathi)

HISTORY

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

List regarding course content that deals with the following issues (UG :B.A,B.Com,B.Sc.)

programme	Course code	Course subject	Gender	Environment & Sustainability	Human Values	Professional Ethics	Name of the faculty & Signature
F.Y.B.A	11171	HISTORY G1	Unit-4 Emergence of the meharjanpad as.	Unit-2 Harappan Culture	Unit-3 Vedic culture, Religious Practices, Jainism and Buddhism	b) Art, crafts & Technology.	AETS EP
S.Y.B.A		HISTORY G2	Unit-I Central Asia, contacts and the Shungy Satvahan.			Unit-2 b) Economics...	AETS EP
T.Y.B.A	36174	HISTORY G3	Unit-2 Regionalisation of princely states. Indo-Sri-Lanka	Integration of princely states.	Unit-1 Domestic Policy Hindi code Bill	Economic Policy. space Research.	AETS EP



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F.Y.B.A. HISTORY

Under the Faculty of Humanities

Total Credits: 03

Semester-I Early India: From Prehistory to the Age of the Mauryas

Objectives:

The history of Early India is a crucial part of Indian history. It is a base for understanding the entire Indian history. The course is aimed at helping the student to understand the history of early India from the prehistoric times to the age of the Mauryas. It attempts to highlight the factors and forces behind the rise, growth and spread of civilization and culture of India along with the dynastic history. It also attempts to help the students to understand the contribution of Early Indians to polity, art, literature, philosophy, religion and science and technology. It also aims to foster the spirit of enquiry among the students by studying the major developments in early Indian history.

Unit I: Early India: Sources and Prehistory

[12]

- (a) Importance of Early History
- (b) Sources and Tools of historical reconstruction – Archaeology (Material remains), Epigraphy (Inscriptions), Numismatics (Coins), Literary Sources, Foreign Accounts
- (c) Palaeolithic, Mesolithic, Neolithic and Chalcolithic Cultures: A Brief Review

Unit II: Harappan Culture: Bronze Age Civilization

[12]

- (a) Geographical Extent, Town Planning, Trade, Religious Practices
- (b) Art, Crafts and Technology: Pottery, Seals, Beads, Images, Terracotta Figurines, Metalurgy, Script and Decline

Unit III: Vedic Culture, Religious Protest: Jainism and Buddhism

[12]

- (a) Vedic and Later Vedic Culture: Original home, Tribal Polity, Social Divisions, Rituals and Philosophy
- (b) Jainism and Buddhism: Causes of Origin, Doctrines, Contributions and Importance

Semester-II

Early India: Post Mauryan Age to the Rashtrakutas

Objectives:

The history of India after the Mauryas is very important to understand the developments in early India after the Mauryas, which finally led to the transition to medieval India. The course is aimed at introducing the students to the developments in different parts of India through a brief study of regional kingdoms up to the tenth century C.E. It attempts to highlight the consequences of the foreign invasions, particularly on the polity, economy, society and art and architecture. The attempt is also to instill the spirit of enquiry among the students.

Unit I: Central Asian Contacts and the Age of the Shung-Satvahanas [12]

- (a) The Indo-Greeks, The Shakas, The Parthians, The Kushanas: Economy, Society, Religion and Culture
- (b) The Age of Shung-Satvahanas: Polity and Administration, Society, Economy, Culture

Unit II: Early History of South India [12]

- (a) Period of Sangam Literature – Society and Culture, early polities
- (b) Economy: Towns, Trade and Crafts

Unit III: North India: Gupta and Harshvardhan [12]

- (a) The Gupta Empire – Brief Political History, Administration, Society, Trade, Science and Technology
- (b) Harshvardhan: Administration, Religion, Education

Unit IV: Regional Kingdoms: A Brief History [12]

- (a) The Chalukyas, Pallavas, Pandya - Struggle for Supremacy over Peninsular India
- (b) Rashtrakutas, Palas, Parmaras- Tripartite Struggle
- (c) Literature, Religion, Art and Architecture

Savitribai Phule Pune University, Pune
Proposed syllabus in History for TYBA (Credit system)
From the Academic Year 2021-22
Under the Faculty of Humanities
Core Course 4 (3 Credit)
Semester VI: Course Title: - India After Independence- (1947-1991)

Objectives:

1. To make the students aware about the making of Contemporary India and events that panned out in the Post-Independence Era.
- 2.To make the students aware of the Multi-Dimensionality of Modern India.
- 3.To highlight the ideas, institutions, forces and movements that contributed to the shaping of Indian Modernity.
- 4.To acquaint the students with various Interpretative and Analytical perspectives.

Course Outcomes:

1. It will enable students to develop an overall understanding of the Contemporary India.
2. To increase the spirit of healthy Nationalism, Democratic Values and Secularism among the students.
3. Students will understand various aspects of India's domestic and foreign policies that shaped Post-Independence India.

Pedagogy: Lectures / Visual Presentation / Critical Analysis / Assignments / Test/ e-learning

Unit I: Challenges after Independence

13

- a) Consequences of Partition
- b) Integration of Princely states- Kashmir, Junagadh, Hyderabad
- c) Liberation of Portuguese and French Colonies- Goa, Pondicherry, Chandranagore
- d) Indian Constitution – Salient Features
- e) Linguistic Reorganization of States

Unit II: India's Foreign Policy

10

- a) Non Aligned Movement
- b) Indo-Pak Relations, Conflicts and the birth of Bangladesh
- c) Indo-Sino Relations, Conflicts and Panchsheel
- d) Indo-Sri Lanka Relations

Unit III: Domestic Policy

- a) Hindu Code Bill: Nature and Impact
- b) Emergency: Background, Nature and Impact
- c) Space Research

Unit IV: Economic Policy

- a) Mixed Economy and Five Year Plans
- b) Industrial Development
- c) Nationalization of Banks - First Demonetization
- d) Privatization, Liberalization and Globalization: Brief Introduction

SCIENCE DEPARTMENT



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

List regarding course content that deals with the following issues (UG :B.A,B.Com,B.Sc.)

programme	Course code	Course subject	Gender	Environment & Sustainability	Human Value	Professional Ethics	Name of the faculty & Signature
BO121	F.Y.B.Sc	Plant life & Utilization			Topic 3- Utilization and economics importance of Angiosperms - In food, fodder, fibers horticulture and medicines		<i>Rajeshwar</i>

Bo241	S.Y.B.Sc	Plant Anatomy & Embryology	Topic 7- Plant Embryology Topic 10- Pollination & Fertilization				
CH-508	T.Y.B.Sc	Chemistry of Biomolecules		Topic 1 - Introduction to molecular logic of life			<i>Chuck</i>
CH 511	T.Y.B.Sc	Environmental chemistry		Topic -4 – Water Pollution & treatment methods			<i>Chuck</i>
Zo232	S.Y.B.Sc	Applied Zoology I			Agricultural pests and their control		<i>Chuck</i>
Ch-510(A)	T.Y.B.Sc	Medical chemistry			Topic 3-Drugs for infection Diseases		<i>Chuck</i>



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SEMESTER-I: PAPER-I

BO-111: PLANT LIFE AND UTILIZATION I (30 Lectures)

CREDIT-I 15 Lectures (15 Hours)

1. INTRODUCTION

3 L

General outline of plant kingdom (Lower Cryptogams: ThallophytesAlgae, Fungi & Lichens; Higher Cryptogams: Bryophytes and

Pteridophytes; Phanerogams: Gymnosperms and AngiospermsDicotyledons and Monocotyledons). Distinguishing characters of these

groups and mention few common examples from each.

2. ALGAE.

9 L

2.1: Introduction

2.2: General Characters

2.3: Classification (Bold and Wynne 1978) up to classes with reasons

2.4: Life Cycle of Spirogyra w.r.t. Habit, Habitat, Structure of thallus, structure

of typical cell, Reproduction- Vegetative, Asexual and Sexual, systematic

position with reasons

2.5: Utilization of Algae in Biofuel Industry, Agriculture, Pharmaceuticals,

Food and Fodder

3. LICHENS

3 L

3.1: Introduction

3.2: General Characters

3.3: Nature of Association, forms- Crustose, Foliose and Fruticose.

3.4: Utilization of lichens.

CREDIT-II 15 Lectures (15 Hours)

4. FUNGI

9 L

4.1: Introduction

4.2: General Characters

4.3: Classification (Ainsworth, 1973)

4.4: Life Cycle of Mushroom- Agaricus bisporus w.r.t. Habit, Habitat, Structure

of thallus, Structure of Sporocarp, Structure of Gill, Reproduction- Asexual

and sexual, Systematic position.

4.5: Utilization of Fungi in Industry, Agriculture, Food and Pharmaceuticals.

5. BRYOPHYTES

6 L

5.1: Introduction

5.2: General Characters

5.3: Classification (G.M. Smith 1955)

5.4: Life Cycle of Riccia w.r.t. Habit, habitat, external and internal structure of thallus, Reproduction- vegetative, asexual and sexual- Structure of sex organs, fertilization, structure of mature sporophyte, structure of spore, systematic position with reasons.

5.5: Utilization: Bryophytes as ecological indicators, agriculture, fuel, industry and medicine.

(Development of sex organs not expected for all the above mentioned life cycles)

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SEMESTER-I: PAPER-II

BO-112: PLANT MORPHOLOGY AND ANATOMY

(30 Lectures)

CREDIT-I 15 Lectures

(15 hours)

1. MORPHOLOGY:

2 L

1.1: Introduction, definition, descriptive and interpretative morphology.

1.2: Importance in identification, nomenclature, classification, phylogeny and Plant breeding.

2. MORPHOLOGY OF REPRODUCTIVE PARTS:

2.1: INFLORESCENCE:

3 L

2.1.1 Introduction and definition

2.1.2 Types:

a) Racemose -Raceme, Spike, Spadix, Corymb, Umbel, Catkin and Capitulum.

b) Cymose -Solitary, Monochasial- Helicoid and scorpioid; Dichasial and Polychasial.

c) Special types -Verticillaster, Cyathium and Hypanthodium.

2.1.3 Significance

2.2: FLOWER:

7 L

2.2.1 Introduction and definition

2.2.2 Parts of a typical flower: Bract, Pedicel, Thalamus- forms, Perianth- Calyx and Corolla, Androecium and Gynoecium.

2.2.3 Symmetry: Actinomorphic and zygomorphic, Sexuality- Unisexual and bisexual, Insertion of floral whorls on thalamus- Hypogyny, Epigyny and perigyny, Merous condition-Trimerous, tetramerous and pentamerous.

2.2.4 Floral whorls:

a) Calyx: Nature- Polysepalous, Gamosepalous; Aestivation- types, Modifications of Calyx- Pappus, Petaloid and Spurred.

- b) Corolla: Forms of Corollai) Polypetalous- Cruciform and Papilionaceous.
- ii) Gamopetalous- Infundibuliform, Bilabiate, Tubular and Campanulate.
- iii) Aestivation- types and significance.
- c) Perianth: Nature- Polytepalous, Gamotepalous.
- d) Androecium: Structure of typical stamen, Variations- cohesion and adhesion.
- e) Gynoecium: Structure of typical carpel, number, position, cohesion and adhesion; placentation- types and significance.

2.3: FRUITS:

3 L

2.3.1 Introduction and definition

2.3.2 Types of fruits:

- a) Simple: Indehiscent - Achene, Cypsela, Nut and Caryopsis.
Dehiscent - Legume, Follicle and Capsule,
- b) Fleshy: Drupe, Berry, Hesperidium and Pepo.
- c) Aggregate: Etaerio of Berries and Etaerio of Follicles.
- d) Multiple fruits: Syconus and Sorosis.

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CREDIT- II 15 Lectures (15 Hours)

3. ANATOMY:

2 L

3.1 Introduction and definition

3.2 Importance in Taxonomy, Physiology, Ecological interpretations, Pharmacongnosy and Wood identification.

4. TYPES OF TISSUES:

8 L

Outline with brief description, simple and complex tissues.

4.1: Meristmatic tissues: Meristem, characters and types based on origin, position and plane of division, functions.

4.2: Permanent tissues: Simple tissues - parenchyma, collenchymas, chlrenchyma and sclerenchyma.

4.3: Complex/Vascular tissues: Components of xylem and phloem, types of vascular bundles and functions.

4.4: Epidermal tissues: Epidermis, structure of typical stomata, trichomes, motor cells; functions.

5. INTERNAL ORGANIZATION OF PRIMARY PLANT BODY:

5 L

5.1: Internal structure of dicotyledon and monocotyledon root.

5.2: Internal structure of dicotyledon and monocotyledon stem.

5.3: Internal structure of dicotyledon and monocotyledon leaf.

SEMESTER IV**S.Y.B.Sc. Botany CBCS Pattern
(Semester IV, Paper I) 2020-2021****BO 241: Plant Anatomy and Embryology- 2 Credits (30 Lectures)****Credit-I Plant anatomy:****(15 Lectures)****1. Introduction****2L**

1.1 Definition

1.2 Scope of plant anatomy

2. Epidermal tissue system**3L**

2.1 Structure, types and functions of epidermis

2.2 Structure, types and functions of Stomata

2.3 Epidermal outgrowths- non-glandular and glandular

2.4 Motor cells

3. Mechanical tissue system**3L**

3.1 Principles involved in distribution of mechanical tissues with one example each

a) Inflexibility,

b) Incompressibility,

c) Inextensibility and

d) Shearing stress

3.2 Vascular tissue system: Structure and function of xylem, phloem and cambium

4. Normal secondary growth**3L**

4.1 Introduction

4.2 Normal secondary growth in dicotyledonous stem

4.3 Development of annual rings, periderm, bark, tyloses and lenticel

5. Anomalous secondary growth**4L**

5.1 Introduction

5.2 Causes of anomalous secondary growth

5.3 Anomalous secondary growth in:

a) Dicotyledonous stem (*Bignonia*),b) Dicotyledonous root (*Raphanus*),c) Monocotyledonous stem (*Dracaena*)**Credit-II Plant Embryology****(15 Lectures)****7. Introduction****1L**

7.1 Definition and scope of plant embryology

8. Microsporangium and male gametophyte**4L**

8.1 Structure of tetrasporangiate anther

8.2 Types of tapetum

8.3 Sporogenous tissue

8.4 Microsporogenesis: process and its types

8.5 Types of microspore tetrad

8.6 Male gametophyte: structure and development of male gametophyte

9 Megasporangium and female gametophyte	4L
9.1 Structure	
9.2 Types of ovules	
9.3 Types of megaspore tetrads	
9.4 Female gametophyte: structure of typical embryo sac	
9.5 Types of embryo sacs – monosporic, bisporic and tetrasporic	
10. Pollination and Fertilization:	3L
10.1 Introduction and definition	
10.2 Types of pollination	
10.3 Germination of pollen grain	
10.4 Entry of pollen tube- porogamy, mesogamy and chalazogamy	
10.5 Double fertilization and its significance.	
11. Endosperm and embryo	3L
11.1 Endosperm: Types – nuclear, helobial and cellular.	
11.2 Structure of Dicotyledonous and Monocotyledonous embryo.	

Course Title - Applied Zoology I

Course Code - ZO - 232

Semester III

2 Credits - 30 lectures

1) Sericulture:

16

- 1.1 An introduction to Sericulture, Study of different types of silk moths, their distribution, Taxonomic position and varieties of silk produced in India : Mulberry, Tassar, Eri and Muga silk moths. 02
- 1.2 External Morphology and life cycle of *Bombyxmori*. 02
- 1.3 Cultivation of mulberry :
 - a) Varieties for cultivation,
 - b) Rain fed and irrigated mulberry cultivation- Fertilizer schedule, Pruning methods and leaf yield. 02
- 1.4 Harvesting of mulberry : a) Leaf plucking, b) Branch cutting, c) Whole shoot cutting. 01
- 1.5 Silk worm rearing :
 - a) Varieties for rearing,
 - b) Rearing house,
 - c) Rearing techniques,
 - d) Important diseases and pests. 03
- 1.6 Preparation of cocoons for marketing. 01
- 1.7 Post harvest processing of cocoons :
 - a) Stiffling, sorting, storage, deflossing and riddling,
 - b) Cocoon cooking, reeling equipment and rereeling, washing and polishing. 03
- 1.8 Biotechnological and biomedical applications of silk. 02

2) Agricultural Pests and their control:

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- 2.1 An introduction to Agricultural Pests, types of pests (agricultural, store grain, veterinary). 01
- 2.1 Major insect pests of agricultural importance (Marks of identification, life cycle, nature of damage and control measures). 06
 - a) Jowar stem borer,
 - b) Red cotton bug,
 - c) Brinjal fruit borer,
 - d) Mango stem borer,
 - e) Blister beetle,
 - f) Rice weevil,

g) Pulse beetle,	
h) Tick.	
2.3 Non insect pests: Rats, Crabs, Snails, and Squirrels	01
2.4 Pest control practices in brief: Cultural control, Physical control,	
Mechanical control, Chemical control, Biological control,	
Pheromonal control, Autocidal control and Concept of IPM in brief.	04
2.5 Plant protection appliances: Shoulder type Rotary duster, Knapsack sprayer,	
Cynogas Pump.	02

DSEC-III: CH-508: Chemistry of Biomolecules**[Credit -2, 36 L]**

Chapter No.	Title of Topic/Chapter	No. of lecture
1	Introduction to molecular logic of life	03
2	Carbohydrates	07
3	Lipids	06
4	Amino acids and Proteins	08
5	Enzymes	06
6	Hormones	06
Total		36

1. Introduction to molecular logic of life.**(3L)**

Unicellular and multicellular organisms, prokaryotes and eukaryotes. List of cell organelles and its functions. Molecules that constitute the organisation of cell and its organelles. types of bonds in biomolecules

2. Carbohydrates**(7L)**

Introduction, classification of carbohydrates, their structures and biological significance. Concept of anomers, epimers, reducing and non-reducing sugars, mutarotation, inversion. Reactions of glucose with acid, base, phenyl hydrazine, oxidizing agents, reducing agents and its significance, Glycosidic bonds.

3. Lipids**(6L)**

Introduction, classification of lipids, their structures and biological significance. Reactions of Lipids-Saponification Hydrolysis, emulsification, oxidation. Concept of saponification number, acid number, iodine number and their significance. Rancidity. Types of Lipoproteins and their significance. Blood group substances.

4. Amino acids and Proteins**(8L)**

Amino acids: classification of amino acids. Concept of ampholytes, isoelectric pH, zwitter ions, titration curve of glycine. Reactions of amino acid with Ninhydrin, Sanger's, Dansyl chloride, Dabsyl chloride and Edmann's reagents and their significance. Peptide bond and its features.
Proteins: Classification based on function, nutrition and composition. Structural organization of proteins- primary, secondary, tertiary and quaternary structures.

5. Enzymes**(6L)**

Classification of enzymes. Features of active site. ES complex formation, Enzyme specificity, Factors affecting enzyme activity. Basics of Enzyme kinetics. MM and LB equation and

Significance of K_m . Types of Enzyme inhibitions. Concept of Conjugated enzymes- Holoenzyme, Apoenzyme, prosthetic groups. Coenzymes of vitamins. Industrial applications of enzymes.

6. Hormones

(6L)

Introduction to endocrine glands and their hormones. Biochemical nature of hormones, Mechanism of action of lipophilic and hydrophilic hormones.

CH-510 (A) : Introduction to Medicinal Chemistry

Chapter No.	Title	Number of Lectures
1	An Introduction to Drugs, their Action and Immunobiologicals	08
2	Bio-physicochemical Properties in Drug Action and Design	08
3	Drugs for Infectious Diseases	12
4	Drugs for Non -infectious Diseases	08
Total		36

1. An Introduction to Drugs, their Action and Immunobiologicals (8L)

A. Introduction, Need of new drugs, Historical background of drug discovery and design, Sources of drugs, Classification of drugs, Introduction to drug action

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(Ref.1 Pages 37-53, Ref.2 Pages 4-11, Ref.4 Pages 4-9)

B. Immunobiologicals: Vaccines: Introduction, Methods of vaccine production: Inactivated pathogens, Live/Attenuated Pathogens and Cellular Antigen from a pathogen, SARS-CoV-19

(Ref.3 Pages 165-168, Ref.9, Ref.10)

2. Bio-physicochemical Properties in Drug Action and Design (8L)

Introduction, Acidity/Basicity, Solubility, Ionization, Hydrophobic and hydrophilic properties, Lipinski Rule, **Terminology in Medicinal Chemistry:** Pharmacology, Pharmacophore, Pharmacodynamics, Pharmacokinetics, metabolites, antimetabolites and therapeutic index. Importance of stereochemistry in drug action (Example: Ibuprofen), Concept of rational drug design: Structure activity relationship, Drug-receptor understanding

(Ref.1 Pages 57-75, 95-96 Ref.2 Pages 189-274, 384-392, Ref.4 Pages 29-61)

3. Drugs for Infectious Diseases (12L)

Introduction, Structures, Mode of Action and Applications:

A. Antimicrobial Agents: Classification on i) Type of action: Bacteriostatic and Bactericidal ii) Source (Natural, Synthetic and Semisynthetic) iii) Spectrum of activity: Narrow and Broad Spectrum iv) Chemical structure: β -lactams (Penicillin), Macrolides (Azithromycin), Sulphonamides (Sulfadiazine), and Tetracyclins (Chlortetracycline)

B. Anti-fungal and anti-viral agents: Example: Amphotericin-B, Acyclovir

(Ref.1 Pages 131-157, Ref.2 Pages 413-472, Ref.3 Pages 258-308, Ref.4 Pages 191-228)

4. Drugs for Non-infectious diseases (8L)

Introduction, Structures, Mode of Action, and Applications:

A. i) Anti-inflammatory and Analgesic Agents: Example: Aspirin, Paracetamol, and Ibuprofen, **ii) Psychoactive Agents:** Sedatives and Hypnotics: Example: Benzodiazepines,

B. Metallo drugs as Chemotherapeutic Agents: Examples: Aluminium based antacids, Salvarsan, Cis Platin, and Transition Metal Complexes

CH-510 (B) : Polymer Chemistry

Chapter No	Topic	Number of lectures
1	Introduction and history of polymeric materials	6
2	Polymerization Chemistry	12
3	Molecular weight of Polymers	6
4	Important Polymers	12
Total		36

1. Introduction and history of polymeric materials: (6 L)

Brief history, Basic terms- monomer, polymer, polymerisation, degree of polymerisation, functionality. Different schemes of classification of polymers, polymer nomenclature, molecular forces and chemical bonding in polymers, glass transition temperature of polymer.

Ref. 1: Pages 1-20, 150

Ref. 2: Pages 1-16

Ref. 5, 7 & 8 Relevant Pages

2. Polymerization Chemistry (12 L)

Classification of polymerization processes, mechanism of- step growth, radical chain growth, ionic chain (both cationic and anionic) and coordination polymerizations. Polymerization techniques-bulk, solution, suspension, emulsion and interfacial condensation.

Ref. 1: Pages 20-58, 71-79

Ref. 2: Pages 25-32, 49-56, 82-86, 88-94, 126-132

Ref. 3 & 4 Relevant Pages

3. Molecular weight of Polymers (6 L)

Average molecular weight of polymer, Number average molecular weight (M_n), Weight average molecular weight (M_w), Number average molecular weight by end group analysis, Viscosity average molecular weight by viscometric method, Molecular weight distribution and its significance, polydispersity index.

Ref. 1: Pages 86-98, 402-409

Ref. 2 & 4: Relevant Pages

4. Important Polymers: (12 L)

Brief introduction to preparation, structure, properties and application of the following polymers: polyethylene, polystyrene, polyvinyl chloride, polyvinyl alcohol, polymethyl methacrylate, polytetrafluoroethylene, polyamides, polyesters, phenol formaldehyde resins (Bakelite, Novolac), silicone polymers, polyisoprene, conducting Polymers.

SEC-II: CH-511: Skills Enhancing Course-II**[Credit -2, 36 L]****Choose one out of the two options, A and B.****CH-511 (A) : Environmental Chemistry**

Chapter No.	Title of Topic/Chapter	No. of lecture
1	Concepts and Scope of Environmental Chemistry	06
2	Hydrosphere and Water Pollution	10
3	Analytical Techniques in water Analysis	10
4	Water pollution and treatment methods	10
Total		36

1: Concepts and Scope of Environmental Chemistry**(06L)**

Introduction, Environmental Pollution and Classification, Units of concentration, Segments of Environment, Biogeochemical cycles of C, N, P, S and O system

Reference: 1, 2, 3

Aims and objectives: -Students should know:

- Importance and conservation of environment.
- Importance of biogeochemical cycles

2: Hydrosphere and Water Pollution**(10L)**

Water resources, Hydrological Cycle: stages of hydrological cycle and chemical composition of water bodies, Microbially mediated aquatic reactions, Classification of water pollutants

Organic and Inorganic pollutants, Sewage and Domestic waste, Sediments, Detergents, Pesticides, Eutrophication, Sampling and monitoring water quality parameters: pH, D.O. (Winkler Method), COD, TOC, Total hardness, free chlorine.

Reference: 1 Page no -47-62,

Aims and Objectives:- Students should know:

- Water resources
- Hydrological Cycle
- Organic and inorganic pollutants
- Water quality parameters

3. Analytical Techniques in water Analysis**(10 L)**

Water quality parameters and standards, domestic water quality parameters, surface water, sampling, preservation, Monitoring techniques and methodology (pH, conductance, DO, ammonia, nitrate and nitrite, Cl, F, CN, Sulfide, sulphate, phosphate, total hardness, boron, metals and metalloids- As, Cd,

Cr, Cu, Fe, Pb, Mn, Hg (Exclude polarographic and AAS methods), COD, BOD, TOC, phenols, pesticides, surfactants, tannis and lignins, E. Coli, Case studies of water pollution.

Ref-1: 225-278

4. Water pollution and treatment methods

(10 L)

Water pollutants, Eutrophication, Waste water treatment (domestic waste water, aerobic treatment, anaerobic treatment, upflow aerobic sludge bed, industrial waste water treatment, drinking water supplies, Trace elements in water, chemical speciation (Cu, Pb, Hg, As, Se, Cr)

Ref-1: 167-225

Reference-1: Environmental Chemistry – A. K. De, Third Edition (Wiley)

Additional References:

1. Environmental Chemistry – A. K. De, 5th Edition (New age international publishers)
2. Environmental Chemistry – A. K. Bhagi and C. R. Chatwal (Himalaya Publishing House)
3. Environmental Chemistry – H. Kaur 2nd Edition 2007, Pragati Prakashan, Meerut, India
4. Environmental Chemistry – J. W. Moore and E. A. Moore (Academic Press, New York)
5. Basic Concepts of Analytical Chemistry: S. M. Khopkar, Wiley Eastern (1995)

CH-511 (B) : Cheminformatics

Chapter No.	Title of Topic/Chapter	No. of lecture
1	Introduction to Cheminformatics	02
2	Representation of Molecules and Chemical Reactions	10
3	Searching Chemical Structures	06
4	Applications of Cheminformatics	18
Total		36

1. Introduction to Cheminformatics

[02L]

- 1.1. History and progression of cheminformatics
- 1.2. Significance of cheminformatics
- 1.3. Prospects of cheminformatics and Molecular Modelling

Learning Outcomes:

1. Students should understand the significance of cheminformatics in the modern practices of chemical science
2. Students should learn the necessity of cheminformatics in chemical science

Ref. 2. (Page no. 4-11 and relevant pages)

2. Representation of Molecules and Chemical Reactions:

[10L]

- 2.1. Nomenclature

- 2.2. Different types of notations
- 2.3. Canonical representation of chemical structure, SMILES notation
- 2.4. 2D representation of chemical structure; Graph Theory, Connection tables and linear notations, Matrix representations
- 2.5. 3D chemical structure representation and molecular structure file formats; Molfiles, Sdfiles and Pdbfiles
- 2.6. 3D molecular structure visualization
- 2.7. Chemical Libraries (Pubchem, ChEMBL, DrugBank and Zinc) and online Available cheminformatics toolkits
- 2.8. Molecular properties calculations; electronic effects, Reaction classification

Learning Outcomes:

1. Students should learn the basic concepts about these representation methods.
2. Students should understand the significance of different representation methods for their specific applications.
3. Students should be able to identify these representation methods with understanding.
4. Students should be able to read these representation methods for basic examples.

Ref. 1. (Page no. 1-74, 183-201 and relevant pages)

Ref. 2. (Page no. 15-51, 92-96, 169-197 and relevant pages)

3. Searching Chemical Structures:**[06L]**

- 3.1. Basic ideas about the Full structure search, Sub-structure search
- 3.2. Basics of similarity and diversity search; Tanimoto, Dice, Cosine coefficient and Euclidean distance
- 3.3. Basics of three dimensional search methods
- 3.4. Basics of computation of physical and chemical data and structure descriptors.

Learning Outcomes:

1. Students should learn the basic concepts of referencing
2. Students should understand the significance of structural data in the process of referencing
3. Students should be able to correlate the necessity of input methods and the expected outcomes for the set of chemicals
4. Students should be able to understand data interpretation using these methods for basic or representative molecules.

Ref. 1. (Page no. 141-158 and relevant pages)

Ref. 2. (Page no. 291-313, 320-431 and relevant pages)

Ref. 3. (Page no. 39-50, 317-371 and relevant pages)

4: Applications of Cheminformatics:

[18 L]

- 4.1. Prediction of Properties of Compounds: Linear Free Energy Relations; Quantitative Structure-Property Relations; Descriptor Analysis; Model Building; Modeling Toxicity
- 4.2. Predictive Methods for Organic Spectral Data Simulation: Spectra prediction methods and tools, open source and propriety tools, spectra viewer programs, Structure-Spectra correlations
- 4.3. Introduction to computer aided drug design: Computer Assisted Synthesis Design; Target Identification and Validation; Lead Finding and Optimization; Combinatorial library design, Virtual screening, Molecular docking and Molecular Dynamics simulation. Pharmacophore modeling; Ligand-Based and Structure Based virtual screening, Drug likeness properties, Protein Ligand Interaction Profile (PLIP) analysis and its application in drug discovery process
- 4.4. Machine Learning Methods in Cheminformatics
- 4.5. Introduction to Cheminformatics Softwares: Basic operational principle and applications of MarvinSketch, Discovery Studio, Gaussian, GOLD, Schrodinger, Expert protein Analysis System (Expasy) online server