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**Course Outcome (COs)**

**B.A. Part I – Compulsory Generic Elective (CGE-1): Marathi (Paper -A&B)**

**(June 2018 onwards)**

After studying this course, students:

CO1. Know how to deal with Marathi Language and Literature.

CO2. Understand Marathi tradition, writers and poets.

CO 3. Improve the language competencies of the students.

CO 4. Write Marathi Essays in the prescribed format.

**B.A. Part I – Discipline Specific Core (DSC-): Marathi (Paper – A1 and A13)**

**(June 2018 onwards)**

After studying the course, the students:

CO 1. Develop the knowledge of Marathi Language and Literature.

CO 2. Improve Conversation skills and essential skills in Marathi.

CO 3. Criticize appreciation of film.

CO 4. Know the knowledge of how to write for print media.

**B.A. Part II – Semester No. III**

**Paper No.III (DSC-C1) *Sahityakruti : Kay Danger Wara Sutlay (Natak) & Marathi***

***Bhashik Kaushalya***

After studying the course, the students:

CO 1. Develop the knowledge of Marathi Language and Literature.

CO 2. Improve the knowledge of Marathi Literature especially a Play.

CO 3. Understand different types of Drama

2

CO 4. Know the knowledge of how to write dialogues for drama.

**B. A. Part II – Semester No. III**

**Paper No. IV (DSC-C2) *Kavyagandh & Marathi Bhashik Kaushalya***

After studying the course, the students:

CO 1. Become curious readers of poetry.

CO 2. Improve the knowledge of Marathi Literature especially Poetry.

CO 3. Understand different types of Poetry.

CO 4. Receive the knowledge of various cultures and traditions reflected in poetry.

**B. A. Part II - Semester No. IV**

**Paper No. V (DSC-C25): *Mati, PankhaaniAakash (Autobiography) & Marathi Bhashik Kaushalya***

After studying the course, the students:

CO 1. Develop the knowledge of Marathi Language and Literature.

CO 2. Improve the knowledge of Marathi Literature especially Autobiography.

CO 3. Understand characteristics of Autobiography.

CO 4. Understand the knowledge about Mr. Mule and his literary journey.

**B. A. Part II - Semester No. IV**

**Paper No. VI (DSC-C26): *Jugad (A novel) & Marathi Bhashik Kaushalya***

After studying the course, the students:

CO 1. Develop the knowledge of Marathi Language and Literature.

CO 2. Improve the knowledge of Marathi Literature especially a novel.

CO 3. Understand the A novel as a form of literature.

3

CO 4. Identify major trends and elements of novel and types of novel.

CO5. Receive the knowledge of various cultures and traditions reflected in novel.

### **B. A. Part III – Semester No. V & VI**

#### **Paper No. VII& XII: Kavyashastra**

After studying the course, the students:

CO 1. Develop the knowledge of Kavyashastra.

CO 2. Study Western Poetic tradition and its importance.

CO 3. Understand the salient features & characteristics of Poetry.

CO 4. Know the structure of poetry and process of Poetic creation.

CO 5. Know the major critical concepts, literary movements.

CO 6. Attempt appreciating poetry in a critical way

CO 7. Explain the importance of Literary Writing.

### **B. A. Part III – Semester No. V&VI**

#### **Paper No. VII&XII: *Bhashavidnyanaani Marathi Bhasha***

After studying the course, the students:

CO 1. Develop the knowledge of Bhashavidnyan.

CO 2. Study the correlation between Bhashavidnyan and Marathi language.

CO 3. Understand the salient features & characteristics of Bhashavidnyan.

CO 4. Know the rise, development and evolution of Marathi language.

CO 5. Know the importance of alphabets.

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**B. A. Part III - Semester No. V&VI**

**Paper No. IX &XIV: *Marathi Vagmayacha Ithihas***

After studying the course, the students:

CO 1. Develop the knowledge of Marathi Language and History of Medieval

Marathi Literature.

CO 2. Identify structure & characteristics of Medieval Marathi Literature.

CO 3. Study the background of Medieval Marathi Literature.

CO 4. Understand the genre and importance of Medieval Marathi Literature.

**B. A. Part III – Semester No. V&VI**

**Paper No. X&XV: *MarathiBhasha : Upyojan aani Sarjan***

After studying the course, the students:

CO 1. Develop the knowledge of Marathi Language

CO 2. Study the correlation between formal & informal Marathi language.

CO 3. Study the Marathi language and linguistic skills.

CO 4. Understand the use of reading, writing, and speech in different situations.

CO 5. Write creative and Critical writing through Marathi language.

**B. A. Part III Semester No. V&VI**

**Paper No. XI& XVI: *Vagmay Pravahache Adhyayan: (Gramin Sahitya) & (Dalit Sahitya)***

After studying the course, the students:

CO 1. Develop the knowledge of Marathi Language and Literature.

CO 2. Study the structure and characteristics of Gamin Sahitya.

CO 3. Read different types of masterpieces critically and creatively.

CO 4. Explain literary values and human values.

CO 4. Understand the structure and characteristics of Dalit Sahitya.

**Programme : Bachelor of Arts (B.A.) Hindi**

**B. A. I Paper No. I & II**

**Adhunik Hindi Sahitya**

After studying the course, the students:

CO 1. Develop the knowledge of Hindi Language and Literature.

CO 2. Study the background of Aadhunik Hindi Sahitya.

CO 2. Study the structure and characteristics of Aadhunik Hindi Sahitya.

CO 3. Study the correlation between Aadhunik Sahitya & Madhyayugin Sahitya.

CO 5. Write creative and Critical writing through Hindi language.

**B. A. II Paper No. III & V**

**Asamita Mulak Vimarsh Aur Aadhunik Gadhya Sahitya and Rojgar Parak Hindi**

After studying this course, students:

CO1. Develop the nature, principle and types of Hindi prose literature

CO2. Study and develop the present state of short story and novel in Hindi literature

CO3. Introduce the personalities of Hindi literature.

CO4. Study the great varieties in Hindi language & literature.

CO5. Create interest to work in Hindi language.

CO6. Develop skill related to work education and experience

CO7. Progress in the students to create thinking and imagination capacity

CO8. Develop the skills of listening and writing in the language

### **B. A. II Paper No. IV & VI**

#### **Madhyayugin Evm Adhunik kavya**

After studying this course, students:

CO 1. Develop the knowledge of Hindi Literature especially *Kavya*.

CO 2. Study the background of Madyayugin evm Aadhunik Hindi Kavya.

CO 3. Study the structure and characteristics of Madyayugin evm Aadhunik Hindi Kavya.

CO 4. Study the knowledge of Literary Forms in Saintkavya and Epic.

CO 5. Write creative and Critical writing through Hindi language especially *Kavya*.

### **B. A. III Paper No. VII & XII**

#### **Vidha Vishesh ka Adhyayan**

After studying this course, students:

CO1. Study the background of Hindi novel and biography.

CO2. Inform about Hindi women novelist and Hindi women biographers

CO3. Study the correlation between Dalit women & Dalit society

CO4. Understand the religions emotions in special context Vidha Vishesh ka Adhyayan

CO5. Inculcate human values through Vidha Vishesh ka Adhyayan.

### **B. A. III Paper No. VIII & XIII**

## **Sahitya Shastra**

After studying this course, students:

- CO1. Study various types of Indian and Western Hindi literature.
- CO2. Understand merits and demerits of Hindi poetry
- CO3. Create awareness amongst the students about poetry writing.
- CO4. Write creative and Critical writing through Hindi language especially Sahitrya Shastra.

## **B. A. III Paper No. IX & XIV**

### **Hindi Sahitya ka Itihas**

After studying this course, students:

- CO 1. Understand the origin of Hindi language and its literature.
- CO 2. Understand the development of Hindi literature.
- CO 3. Understand the key concepts in Hindi Sahitya ka Itihas.
- CO 4. Understand the reasons of emergence of Adhunikkal in Hindi literature.
- CO 5. Understand the classification of Hindi literature.
- CO 6. Understand the features of Adikal, Bhakti kal, Ritikal and Adhunikkal, in context of socio - cultural and political condition of that period.

## **B. A. III Paper No. X & XV**

### **Prayojanmulak Hindi**

After studying this course, students:

- CO1. Understand the use of Internet in Prayojanmulak Hindi.
- CO2. Understand the use of multimedia in Hindi Language.
- CO3. Develop knowledge of Hindi Linguistics and Grammar.

CO4. Develop interest in VishvHindi BhashaVikasProcess

CO 5: Understand the importance of each period of Hindi literature.

### **B. A. III Paper No. XI & XVI**

#### **BhashaVidnyanAur Hindi Bhasha**

After studying this course, students:

CO1. Study the various Methods of Bhasha Vidnyan.

CO2. Understand Communication Process and Methods in Hindi.

CO3. Develop the knowledge of Hindi Linguistics and Grammar.

CO4. Create interest in Hindi Bhasha Vikas Process.

### **Course Outcome (COs)**

#### **B.A. Part I – Ability Enhancement Compulsory Course (AECC 1)(CBCS)**

#### **English for Communication (June 2018 onwards)**

After studying this course, students:

CO1. Know how to deal with communication skills.

CO2. Know how to develop Vocabulary.

CO 3. Improve the language competencies of the students.

CO 4. Use English for general purposes in various situations.

CO 5. Develop the skill of making inquiries.

CO 6. Improve the skill of describing objects, persons, places and daily routine.

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#### **B.A. Part I (Discipline Specific Core) (DSC- A3& A15)**

#### **(English Paper –I& II) (Semester – I& II)**

## **Modern Indian Writing in English Translation (CBCS)**

After studying the course, the students:

CO1. Learn Modern Indian Writing in English Translation.

CO2. Explain short story as a form of literature.

CO 3. Improve the language competencies of the students.

CO 4. Interpret short story writers and their stories.

CO 5. Understand characteristics of short stories

## **B. A. Part II, Sem. III & Sem. IV**

### **ABILITY ENHANCEMENT COMPULSORY COURSE (AECC)(CBCS)**

#### **ENGLISH FOR COMMUNICATION**

**(June 2019 Onwards)**

After studying the course, the students:

CO 1. Develop the communication skills in English (oral and written).

CO 2. Improve Conversation skills and essential employability skills.

CO 3. Develop the language and soft skills.

CO 4. Transfer information and interpretation of data.

CO 5. Know how to use English in Banking and Industry sector.

## **B. A. Part II, Sem. III & Sem. IV**

### **Literature and Cinema**

**DSE (CBCS) (June 2019 Onwards)**

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After studying the course, the student:

CO 1. Distinguish the concept of transformation and transposition.

CO 2. Know the difference between Hollywood and Bollywood.

CO 3. Learn modern Poems and plays independently.

CO 4. Understand the literary movements in Modern British Literature.

CO 5. Receive the theory of adaptation and study the adapted literature.

### **B. A. Part II, Sem. III & Sem. IV**

#### **Partition Literature**

#### **DSE (CBCS) (June 2019 Onwards)**

After studying the course, the students:

CO 1. Know the background of partition.

CO 2. Understand the causes and effects of partition.

CO 3. Communal conflicts and violence and impact of partition on society

CO 4. Learn partition literature.

### **B. A. Part III, Sem. V & Sem. VI**

#### **ENGLISH FOR COMMUNICATION Part III**

#### **(Compulsory English)**

After studying the course, the students of Part III at UG:

CO 1. Understand how to face an interview.

CO 2. Help themselves develop their vocabulary.

CO 3. Know how to write correct English.

CO 4. Read comprehension, scientific essays and analyze them.

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CO 5. Draft official letters and know how to reciprocate them

CO 6. Use English for journalism

CO 7. Know how to interact in a Group Discussion

CO 8. Get ecological concerns in literary writings

**B. A. Part III, Sem. V & Sem. VI**

**Paper No. VII & XII Literary Criticism (Special English)**

After studying the course, the students:

CO 1. Differentiate between creative writing and critical writing

CO 2. Identify major trends in literary criticism.

CO3. Know the major critical concepts, literary movements.

CO4. Attempt appreciating poetry in a critical way

**B. A. Part III, Sem. V & Sem. VI**

**Paper No. VIII & XIII Understanding Poetry**

**(Special English)**

After studying the course, the students:

CO 1. Become curious readers of poetry.

CO 2. Receive the knowledge of various cultures and traditions reflected in poetry

CO 3. Classify intellectual and linguistic pleasures received out of poetry

CO4. Acquaint recitation skill and memorize poetical lines.

**B. A. Part III, Sem. V & Sem. VI**

**No. IX & XIV Understanding Drama (Special English)**

12

After studying the course, the student:

CO 1. Understand the Drama as a form of literature

CO 2. Undertake the study of independent playwrights

CO 3. Identify the elements of drama

CO 4. Explain the definition and scope of English Drama

CO 5. Differentiate between Indian and Western Drama

**B. A. Part III, Sem. V & Sem. VI**

**No. X & XV Understanding Novel (Special English)**

After studying the course, the students:

CO 1. Understand the Novel as a form of literature

CO 2. Identify major trends in Post-modern Novel.

CO 3. Identify the elements of Novel and types of Novel

CO 4. Explain the definition and scope of English Novel

CO 5. Receive the knowledge of various cultures and traditions reflected in Novel.

**B. A. Part III, Sem. V & Sem. VI**

**No. XI & XVI The Structure and Function of Modern English**

**(Special English)**

After studying this course, the students:

CO 1. Understand speech mechanism and basic sound in English

CO 2. Identify the word formation processes, clauses and phrases

CO 3. Attempt transcription of given words

CO 4. Know how to mark form and functional labels

13

CO 5. Attempt discourse analysis and identify cohesive devices

**B.Com. Part I – Ability Enhancement Compulsory Course (AECC 1)**

**(Compulsory English) (CBCS)**

**English for Business Communication (June 2018 onwards)**

After studying the course, the students:

- CO1. Gain knowledge about communication skills.
- CO 2. Know how to develop Vocabulary.
- CO 3. Improve the language and business correspondence.
- CO 4. Draft official letters and business correspondence.
- CO 5. Develop the skill of telephonic communication.

### **B. Com. Part II, Sem. III & Sem. IV**

#### **ABILITY ENHANCEMENT COMPULSORY COURSE (AECC)(CBCS)**

##### **English for Business Communication**

**(Compulsory English)(June 2019 Onwards)**

After studying the course, the students:

- CO 1. Develop communication skills in English (oral and written).
- CO 2. Help to enter the job market with confidence.
- CO 3. Encourage the active involvement in Competitive examination.
- CO 4. Facilitate to acquire language skills, employability skills, work effectively and confidently.

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#### **Course Outcome (COs)**

### **B.Sc. Part I – Ability Enhancement Compulsory Course (AECC 1)(CBCS)**

#### **English for Communication (June 2018 onwards)**

After studying this course, students:

- CO1. Know how to deal with communication skills.
- CO 2. Know how to develop Vocabulary.
- CO 3. Improve the language competencies of the students.

CO 4. Use English for general purposes in various situations.

## **HISTORY**

### **B.A.I - Paper No. I/II**

#### **Rise of the Maratha Power & polity**

After studying this course, students:

CO1. Understand of importance of the Maratha History in the 17th Century.

CO2. Study the circumstance at the time of rise of the Maratha took place.

CO3. Understand the political scenario of the Maratha in the 17th Century.

CO4. Understand the policies of Chh. Shivaji Maharaj.

### **B.A. II – Paper No. III/V**

#### **History of Modern Maharashtra**

After studying this course, students:

CO1. Study the background of History of Modern Maharashtra.

CO 2. Understand of importance of the Maratha in Modern Maharashtra.

CO 3. Know the first 60 years span of 20th century (a period of great upheaval in Maharashtra).

15

CO 4. Study the event and changes that look place a lasting impact on the polity, society and economy of the Modern Maharashtra.

### **B.A. II – Paper No. IV/VI**

#### **History of Indian freedom struggle, Part I&II**

After studying this course, students:

CO1. Study the background of History of Indian Freedom Struggle.

CO 2. Understand the history of Indian freedom struggle as a glorious epic of

Indian history.

CO 3. Study the characteristics and importance of Indian freedom struggle.

CO4. Understand the great sacrifices of freedom fighters in Indian freedom struggle.

## **B.A. II IDS**

### **History of Social Reform in India**

**And**

### **History of Social Reform in Maharashtra**

After studying this course, students:

CO1. Study the background of Social Reforms in Maharashtra & India.

CO 2. Understand the importance of movements of social reformers in Maharashtra & India.

CO3. Understand the time span of reform movements in the traditional Maharashtra & India.

CO 4. Develop the values of social justice and equality.

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## **B.A. III Paper No. VII/XII**

### **History of Ancient India.**

After studying this course, students:

CO 1. Perceive various sources of Ancient India.

CO 2. Know the development and achievements of man in the Stone Age.

CO 3. Understand the glory of Indian history in the age of Harppan civilization.

CO 4. Comprehend the history of Vedic period.

CO 5. Understand the philosophy of Jainism and Buddhism.

**B.A. III Paper No. VIII/XIII**

**Political, Socio-Economic**

**And**

**Cultural History of Medieval India.**

After studying this course, students:

CO 1. Understand early difficulties of Medieval India.

CO 2. Know the system of trade and commerce during the period of Medieval India.

CO 3. Understand the nature of village community and the relationship between the different classes of society.

CO 4. Study the Socio-culture system of the Mughal Raj.

CO5. Understand the Political system of the Mughal Raj.

**B.A. III – Paper No. IX/XIV**

**India since Independence- Part I&II**

After studying this course, students:

17

CO 1. Introduce important events in the World History.

CO 2. Study the important events before Independence period.

CO 3. Create awareness about Indian freedom struggle and contribution of the freedom fighters.

CO 4. Know the contribution of the social reform movements.

**B.A. III Paper No. X/XV**

**History of Maharashtra**

After studying this course, students:

CO1. Understand the beginning and growth of nationalist consciousness in Maharashtra.

CO 2. Explain the contribution of Maharashtra to the national movement.

CO 3. Give an account of various movements of the peasants, workers, woman and backward classes.

CO 4. Know the background and events which led to the formation of separate state of Maharashtra.

### **B.A. III Paper No. XI/XVI**

#### **Introduction of Historiography**

**And**

#### **Application of History**

After studying this course, students:

CO1. Study the key concepts in historiography.

CO2. Understand the importance of historiography in present era.

CO 3. Develop application of History in today's scenario.

CO 4. Study various fort visits, theories and projects related to historiography.

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### **ECONOMICS**

#### **B.A.-I: Paper I & II**

#### **DSC (B3) & DSC (B17) - Indian Economy**

After studying this course, students:

CO1. Understand characteristics features of structural changes in Indian Economy.

CO2. Study the nature & impact of new economic reforms on Indian Economy.

CO3. Know the problem of unemployment, poverty, rising economic and social

inequality and problems of regional imbalances in India.

CO4. Evaluate the changing role of agricultural, industrial and service sector and foreign sector in Indian Economy.

CO5. Measure the growth, volume, composition and direction of India's foreign capital inflow since 1991.

## **B.A.II: Sem. III & IV**

### **Paper No.-3 & 5 Macro Economics**

After studying this course, students:

CO1. Identify the basic concepts and theories of Macro Economics.

CO2. Develop awareness about changing Macro Economics Policies and Theories.

CO3. Understand concepts like GDP, GNP, NNP, Per Capital, Disposable income, Per capita income and national income.

CO4. Identify the factors determining gross domestic product, employment, the general level of prices and interest rate.

CO5. Realize the law of markets, consumption function and investment function.

CO6. Judge the role of fiscal policy, monetary policy in developing economy.

CO7. Know features, phases and theories of trade cycle.

CO8. Evaluate types, merits, demerits of taxes.

19

CO8. Comprehend the role of public finance in developing economy.

## **B.A.II: Sem. III&IV**

### **Paper No. – 4 &6 Banks and Financial Markets**

After studying this course, students:

CO1. Understand the Meaning, Function and role of commercial banking.

- CO2. Comprehend the procedure of an account opening, operating and closing.
- CO3. Know the structure, function and role of RBI in economic Development.
- CO4. Judge the progress of financial inclusion.
- CO5. Evaluate the importance, characteristics and components of financial market.
- CO6. Understand the role and types of development bank and non banking financial intermediaries.
- CO7. Realize the banking reforms and Basel Norms I and II.
- CO8. Study recent trends in Indian banking such as E-banking, MRCI clearing, ATMs, Credit card, Debit Card, Travelers cheque, Gift cheque and De-mat account.

## **B.A.II: Paper 1 & II**

### **IDS**

#### **Paper- I Principles of Co-operation: I GE (IDS)**

**&**

#### **Paper- II Co-operative in India II GE (IDS)**

After studying this course, students:

CO1. Understand the Principles of Co-Operation and Co-Operative Movement in India.

20

CO2. Know the Structure, types, functions, problems and remedies agricultural and Non – agricultural Credit Co – operative institution.

CO3. Evaluate the impact of Globalization on co – operative Movement.

CO4. Get basic knowledge of co – operative society and its administration.

CO5. Understand New Economic policy since 1991 and Co - operative Movement.

**B.A. III: Sem. 5 & 6**

**Paper No. – 7 Micro Economics**

**&**

**Paper No. – 12 Market & Pricing**

After studying this course, students:

CO1. Know the decision making of consumers

CO2. Identify the nature of revenue and cost of production.

CO3. Comprehend the demand function and production function.

CO4. Clarify the meaning of marginal, average, total revenue marginal, average and total cost and its implication.

CO5. Create awareness of different market structure.

CO6. Understand pricing in different markets.

**B.A. III: Sem. 5 & 6**

**Paper No. – 8 & 13 Research Methodology (Part I & II)**

After studying this course, students:

CO1. Understand the basic framework of research process and defining various research designs and techniques.

CO2. Identify sources of information for literature review and data collection.

CO3. Discuss the ethical dimensions of conducting applied research & appreciating the components of scholarly writing and evaluating its quality.

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CO4. Know various aspects of Research in Economics.

CO5. Understand various data analysis techniques (Mean, Mode, Median, Range, Standard Deviation, Karl person coefficient of correlation).

CO6. Interpret data and report writing.

**B.A. III: B.A. III: Sem. 5 & 6**

**Paper No. – 9 & 14 History of Economic Thoughts (Part I & II)**

After studying this course, students:

CO1. Study economic thoughts of Classical, Nationalist and Socialist Thinkers.

CO2. Judge the Development of economic thoughts.

CO3. Evaluate the Development of Indian economic thoughts.

CO4. Realize the economic concepts and theories of Neo-classical and Indian thinkers.

**B.A. III: B.A. III: Sem. 5 & 6**

**Paper No. –10 Economic Developments**

**&**

**Paper No. – 15 Economic Planning**

After studying this course, students:

CO1. Understand the concept and aspects of economic Development.

CO2. Know the theories of economic growth &Development.

CO3. Measure the concept and issues of economic planning.

CO4. Discuss the need, types and necessary conditions of economy.

**B.A. III: B.A. III: Sem. 5 & 6**

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**Paper No. – 11 &16 International Economics (Part I & II)**

After studying this course, students:

CO1. Elaborate the importance of International Economics.

CO2. Know the changes in the import-export policies of India, evaluating various types of exchange rates and its merits and demerits.

CO3. Discuss the types and effects of tariffs and quotas.

CO4. Judge the function, merits and demerits of Foreign Capital, and International Corporation (IMF, IBRD, W and SAARC).

CO5. Realize the volume, composition and direction of Balance of trade and Balance of payments.

## **SOCIOLOGY**

### **B.A.-I: Sem. I- Paper I**

#### **Introduction to Sociology**

After studying this course, students:

CO1. Understand the Nature and Scope of Sociology

CO2. Develop basic Sociological concepts in Sociology

CO3. Study Social interaction and social structure

CO4. Study the relation between society and social institution

### **B.A.-I, SEM-II, Paper II**

#### **Applied Sociology (DSC-B16, Sociology-II)**

After studying this course, students:

CO 1. Acquaint Students with basic institutions of Applied Society.

23

CO 2. Understand the functioning of Social institutions and its relations with Mass media.

CO 3. Study the concept and social change in modern society.

CO4. Study the application of society in the context of career opportunities.

## **B.A.II: Paper III**

### **SEM-III**

#### **Social Issues in India**

After studying this course, students:

CO 1. Study the basic social issues in India deals with the real fact of social inequality.

CO 2. Explore the Contemporary Social issues, causes of crime.

CO3. Understand gender discrimination in various institutional contexts.

CO4. Understand the basic concepts of Human Rights and cyber crime

## **B.A.II, SEM-III, Paper IV**

### **Social Movements in India**

After studying this course, students:

CO1. Explain meaning of social movement, its elements and importance.

CO2. Study peasant movement and peasant problems in India.

CO3. Study Dalit movement and Dalit problems in India.

CO4. Know tribal movement and major tribal movement as well as tribal problems in India.

## **B.A.II, SEM-IV, Paper No. V**

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### **Gender and Violence**

After studying this course, students:

CO1. Understand the concepts Gender and Violence.

CO2. Study the concept of domestic violence, dowry and divorce.

CO3. Study nature and majors of the tribal, rural and urban women.

CO4. Study Women's Harassment at workplace.

### **B.A.II, SEM-VI, Paper VI**

#### **Sociology of Health**

After studying this course, students:

CO1. Understand health, illness and medical practice in context with Sociology.

CO2. Understand the major diseases in India especially diabetes, heart diseases and cancer.

CO3. Study the lifestyle and health in India.

CO4. Know the health policies in India.

### **B.A.II, SEM-III, Paper I (I.D.S)**

#### **Social Ecology**

After studying this course, students:

CO1. Understand the importance of Social Ecology

CO2. Create environmental awareness and biodiversity and its conservation.

CO3. . Explain environmental problems, and pollution.

CO4. Study meaning and need of environmental ethics

### **B.A. II, SEM- IV, Paper- II (I.D.S.)**

## **Social Ecology**

After studying this course, students:

- CO1. Understand the importance of Social Ecology
- CO2. Study the role of NGO's in protection of environmental
- CO3. Control and try to ride over the environmental problems.
- CO4. Study meaning, causes and measures to control global warming.

## **GEOGRAPHY**

### **B.A.-I: DSC – I (Paper I)**

#### **Physical Geography**

After studying this course, students:

- CO1. Understand the functioning of Earth & analyze natural and anthropogenic operating factors affects the development of landforms.
- CO2. Distinguish between the mechanisms that control these processes.
- CO3. Assess the roles of structure, stage and time in shaping the landforms, interpret geomorphologic maps and apply the knowledge in geographical research.
- CO4. Explain exposure of climatology.
- CO5. Study knowledge of upper atmospheric conditions and cyclonic features.
- CO 6. Understand the characteristics of climatic regions.

### **B.A.-I : DSC – II (Paper II)**

#### **Human Geography**

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After studying this course, students:

CO1. Exposure of contemporary relevance of cultural landscape

CO2. Study spatial concepts, geographic vocabulary and landscape interpretation to a variety of locations and situations around the globe & in local areas.

CO3. Understand knowledge of space and society of cultural regions

CO4. Understand the settlement pattern and population resource relationship

### **B.A.II: DSC – III (Paper 3)**

#### **Soil Geography**

After studying this course, students:

CO1. Understand soil is key resource for the development of any country.

CO2. Understand the process of soil formation and development as well as soil properties.

CO3. Know classification, characteristics and distribution of soils

CO4. Understand the concepts related to soil degradation and erosion, causes and controlling factors of soil erosion, conservation of soils

### **B.A.II: DSC – IV (Paper 4)**

#### **Resource Geography**

After studying this course, students:

CO1. Study the role of Resource Geography in the present scenario.

CO2. Understand the concept and classification of Resources.

CO3. Understand knowledge of the major resources (water, forest, energy and human) with their distribution, utilization and problems

CO4. Explain the sustainable resource development.

### **B.A.II: DSC – V (Paper No. 5)**

## **Oceanography**

After studying this course, students:

CO1. Describe the major surface and deep currents in the oceans and explain their causes.

CO2. Analyze the movement of tectonic plates, MOR and seduction zone.

CO3. Relate scales and rates of ocean and ocean processes.

CO4. Explain physical and chemical factors affecting the climate in the past, present and future.

## **B.A.II: DSC – VI (Paper 6)**

### **Agricultural Geography**

After studying this course, students:

CO1. Understand the concept and development of Agriculture

CO2. Explain the agriculture and its determinants

CO3. Study Indian and World agriculture regions and systems

CO 4. Understand sound knowledge of agriculture revolutions

## **POLITICAL SCIENCE**

### **B.A.-I: Paper I**

#### **DSC (B4) - Introduction to Political Science**

After studying this course, students:

CO1. Understand the Meaning, nature and scope of political Science

CO2. Get information about various concepts in Political Science.

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CO3. Understand the information about Political Theory, Political Process, Public

Administration and International Politics.

CO4. Get Information about Indian Democracy & its Challenges.

CO5. Know about the problems and challenges in Indian politics.

## **B.A.-I: Paper II**

### **DSC (18) - Indian Constitution**

After studying this course, students:

CO1. Acquire the knowledge about Indian Constitution.

CO2. Identify the causes, impact of British colonial rule

CO3. Know the salient features in making of Indian constitution

CO4. Appreciate the fundamental rights and duties and the directive principle of state policy

CO5. Evaluate the evolution, functioning and consequences of Parliament of India.

## **B.A.II: Paper III**

### **DSC (D7) - Political Process in India**

After studying this course, students:

CO1. Get information about political parties in India.

CO2. Evaluate the evolution, functioning and consequences of political parties in India

CO3. Identify electoral rules and procedure in India effect election outcomes.

CO4. Know about the problems and challenges in Indian politics.

## **B.A.II: Paper IV**

## **DSC (D8) - Indian Political Thought Part I**

After studying this course, students:

CO1. Know features of Indian Political Thought: Kautilya, Mahatma Phule, M.G.Ranade and B.G.Tilak's political thought.

CO2. Take an insight into the following: Saptang Theory of Kautilya, Phules Theory of Balirajya, Tilak's Cultural Nationalism.

CO3. Study of the contribution of political thinkers in independent movements and their need for modern society

## **B.A.II: Paper No. V**

### **DSC (D35) - Local Self Govt. In Maharashtra**

After studying this course, students:

CO1. Understand the contributions of various committees on local government

CO2. Describe the features and provisions of Constitutional Amendment Acts regarding Local Government Institutions.

CO3. Study the significance and role of Grama Sabha in Maharashtra

CO4. Develop leadership at local level.

## **B.A.II: Paper VI**

### **DSC (D36) - Indian Political Thought Part II**

After studying this course, students:

CO1. Know the characteristics of Indian Political Thought: M.K. Gandhi, Jawaharlal Nehru, Dr. B. R. Ambedkar and M. N. Roy's political thought

CO2. Understand Satya, Ahimsa & Satyagraha concept of Mahatma Gandhi.

CO3. Study Nehru's Secularism and Dr. Ambedkar's Parliamentary Democracy.

CO4. Study the contribution of political thinkers in independent movements and their need for modern society.

**Programme: Bachelor of Commerce (B.Com.)**

**COMMERCE**

**B. Com. Part I: Sem. I and II**

**Principles of Business Management: (Compulsory Paper) Paper I & II**

After studying this course, students:

CO1. Understand the management and administrations in the business

CO2. Acquire theories of management by experts to develop managerial role.

CO3. Implement of the functions of management viz. planning, organizing, decision making controlling etc. in the business to achieve the goals of business.

CO4. Learn motivational aspects and the promotional keys by motivation in the business.

CO5. Enhance leadership and the ways of business communication.

**B. Com. Part I: Sem. I and II**

**Financial Accounting: (Compulsory Paper) Paper I & II**

After studying this course, students:

CO1. Understand the financial accounting process in the business.

CO2. Acquire the knowledge of financial accounting.

CO3. Prepare the financial statements practically with accounting principles, conventions and standards.

CO4. Study the role of Chartered Accountants, Company Secretaries, Cost Accountants, Tax consultants' accountant, auditor, tax consultants.

CO5. Participate in different commercial and economic activities

CO6. Enhance qualities through practical accounting system with tally with GST

### **B. Com. Part I: Sem. I and II**

#### **Principles of Marketing: Paper I& II**

After studying this course, students:

CO1. Understand the concept of marketing management to develop marketing skills

CO2. Learn consumer behavior in the business environment through marketing management.

CO3. Gain the implementation of 4Ps in the marketing mix.

CO4. Enhance research qualities, marketing segment, target marketing, positioning in the business after learning marketing aspects.

CO5. Understand service marketing, as expected in the marketing environment.

### **B. Com. Part I: Sem. I and II**

#### **Micro Economics: Paper I & II**

After studying this course, students:

CO1. Know the decision making of consumers

CO2. Identify the nature of revenue and cost of production.

CO3. Comprehend the demand function and production function.

CO4. Realize various production theories.

CO5. Clarify the meaning of marginal, average, total revenue marginal, average and total cost and its implication

CO6. Understand pricing in different markets & judge the factors responsible for pricing

## **B. Com. Part I: Sem. I and II**

### **Insurance Paper I & II**

After studying this course, students:

CO1. Enable to understand meaning, scope, need and characteristics of insurance

CO2. Get information about various procedures of taking life insurance policy.

CO3. Know about the structure, setup and function of life insurance business.

CO4. Know about the various type of insurance.

## **B. Com. Part II: Sem. III and IV**

### **Fundamentals of Entrepreneurship: Paper I & II**

After studying this course, students:

CO1. Understand the concept of entrepreneurship and qualities, functions and role of entrepreneurship in changing environment.

CO2. Understand the obstacles in entrepreneurship in business career.

CO3. Know the entrepreneurship development concept and different institutions for its development.

CO4. Understand the concepts of MSMEs, its importance and MSME policies.

CO5. Understand women entrepreneurship, their problems and remedies to solve the problems as well as getting knowledge of rural entrepreneurship.

CO6. Understand about project report of small scale units to prepare the project report in his business career and also getting insights of stories of successful entrepreneurs such as Tata, Dhirubai Ambani ‘Vargis Kurian, Vitthal Kamat and getting motivated to start the career in business.

## **B. Com. Part II: Sem. III and IV**

### **Corporate Accounting: Paper I & II**

After studying this course, students:

CO1. Understand the issues of shares and debenture with different aspects of market and get the knowledge of how to make an investment in financial securities in the stock market

CO2. Get the knowledge of how to establish a company and to determine the profitability before and after incorporation of the company.

CO3. Receive the knowledge of Tally software for computerized accounting, enabling them to get a job opportunity as an accountant.

CO4. Understand the role of accounting standard in respect of companies and learn the practical issues related.

CO6. Develop ability to understand computer application through Tally and become employable in firms, companies.

CO7. Get ability to demonstrate accounting for issue of debentures and redemption of debentures.

CO9. Simulate practice of preparing financial statements as per the provisions of Indian Companies Act 2013.

## **B. Com. Part II: Sem. III and IV**

### **Macro Economics: Paper I & II**

After studying this course, students:

- CO1. Identify the basic concept and theories of Macro Economics
- CO2. Get awareness about changing Macro Economics Policies and Theories
- CO3. Understand various concepts such as GDP, GNP, NNP, Per Capital, Disposable income, Per capita income and national income.
- CO4. Identify the factors determining gross domestic product, employment, the general level of prices and interest rate.
- CO5. Realize the law of markets, consumption function and investment function.
- CO6. Judge the role of fiscal policy, monetary policy in developing economy.
- CO7. Know features, phases and theories of trade cycle.

## **B. Com. Part II: Sem. III and IV**

### **Money and Financial System**

After studying this course, students:

- CO1. Understand the nature, functions and issues related to money, banking and non banking financial intermediaries and financial system.
- CO2. Know about changing role of banking and financial intermediaries in the process of growth & development.
- CO3. Realize the term structure, role and functions of RBI, NBFIs, Development Banks, Commercial Banks, Money Market, Capital Market and Forex .
- CO4. Get knowledge of the changing paradigms in Indian Banking.

## **B. Com. Part II: Sem. III and IV**

## **Business Statistics**

After studying this course, students:

CO1. Make familiar with statistical tools which are relatively used in business.

CO2. Impart the ability to collect present, analyze and interpret data

CO3. Predict trend values by using list square methods in regression

CO4. Understand how to collect, present, analyze and interpret the data.

## **B.COM. III: SEM V & VI**

### **Modern Management Practices: Paper I& II**

After studying this course, students:

CO1. Understand the modern concepts of management practices about the growing size and complexity of business.

CO2. Understand the concept of strategic management. Getting known with the corporate governance and social responsibility from different areas of social responsibilities

CO3. Understand the new concepts in management.

CO4. Get known with modern management and understanding MBO.

## **B.COM. III: SEM V & VI**

### **Business Regulatory Framework (Paper I& II)**

After studying this course, students:

CO1. Get provided with fundamental information about the Indian Legal System related to the business.

CO2. Get knowledge the laws, functions of the court.

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CO3. Understand the basic principles of law that apply to business organizations

CO4. Study business law in the global context.

CO5. Gain knowledge of legal environment in which a consumer and business operations

### **B.COM. III: SEM V & VI**

#### **Advanced Accountancy (Paper I, II, III & IV)**

After studying this course, students:

CO1. Understand the utility of advanced accountancy, auditing, taxation in practices with accounting software.

CO2. Visit banks, insurance companies etc for better understanding of working and functioning

CO3. Develop their potential and skill for employment opportunities as accountant, auditor and tax consultant in various firms.

CO4. Pursue the master degrees for advanced and professional knowledge.

### **B.COM. III: SEM V & VI**

#### **Business Environment: Paper I& II**

After studying this course, students:

CO1. Understand characteristic features of structural changes in Indian Economy

CO2. Comprehend the nature and impact of new economic reforms on the Indian Economy

CO3. Know the problem of unemployment, poverty, rising economic and social inequality and problems of regional imbalances in India

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CO4. Evaluate the changing role of agricultural, industrial and service sector and

foreign sector in Indian Economy

CO5. Measure the problems and prospects of cottage and small scale industries, and industrial sicknesses

### **B.COM. III: SEM V & VI**

#### **Co -Operative Development: Paper I& II**

After studying this course, students:

CO1. Understand the Principles of Co-Operation and Co-Operative Movement in India.

CO2. Know the Structure, types, functions, problems and remedies agricultural and Non – agricultural Credit Co – operative institution.

CO3. Evaluate the impact of Globalization on co – operative Movement.

CO4. Get basic knowledge of cooperative society and its administration.

CO5. Understand New Economic policy since 1991 and co – operative Movement.

### **PHYSICS**

#### **B.Sc.-I: Paper I, DSC - 1 A Mechanics - I**

After studying this course, students:

CO1. Study the various concepts & basics in Mechanics.

CO2. Recognize the motion of the charged particle in electromagnetic field.

CO3. Describe conservation of energy, work, force, linear momentum and angular momentum

38

CO4. Learn the fundamentals of harmonic oscillator model, including damped and

forced oscillators.

### **B.Sc.-I: Paper II, DSC- 2 A Mechanics-II**

After studying this course, students:

CO1. Comprehend regarding the strength of the solid materials of different size.

CO2. Understand the effect of gravitation on objects and understand the principle of rocket.

CO3. Study the basic concepts in Mechanics.

CO3. Analyze the motion in fluids and express the changes occurring in them in terms of boiling point and freezing point.

### **B.Sc. II: Paper 3 & 4, DSC- B Electricity and Magnetism-I**

**&**

### **DSC- 2B Electricity and Magnetism-II**

After studying this course, students:

CO1. Identify the presence of static electric charges and fields due to static charges.

CO2. Possess adequate knowledge to analyze electrical circuits using faraday's law

CO3. Understand the phenomena and apply the concept of emf wherever suitable

CO4. Distinguish between different types of magnetic materials and different kinds of magnetism manifested in materials.

39

CO5. Know and analyze magnetic properties of a ferromagnetic solid by analyzing

or recording its hysteresis behavior

CO6. Understand vector calculus in three dimensions and derive Gauss theorem, Stoke's theorem.

CO7. Distinguish between magnetic effect of electric current and electromagnetic induction and to apply the related laws in appropriate circumstances

CO8. Demonstrate magnetic field of electric current/ electromagnetic induction through proper understanding

## **CHEMISTRY**

### **B.Sc.-I: Paper I , DSC – 3A Inorganic Chemistry**

After studying this course, students:

CO1. Know the meaning of various terms involved in co-ordination Chemistry

CO2. Understand Werner's formulation of complexes.

CO3. Know the limitations of VBT.

CO4. Know the shapes of d-orbital and degeneracy of d-orbital.

### **B.Sc.-I: Paper II, DSC- 4A Organic Chemistry**

After studying this course, students:

CO1. Study the basics of Organic Chemistry.

CO2. Define organic acids and bases.

CO3. Distinguish between geometrical and optical isomerism.

40

CO4. Understand evidences, reactivity and mechanism of elimination and substitution reactions.

### **B. Sc. I: Paper III, DSC- 3B Physical Chemistry**

After studying this course, students:

CO1. Study the basics of Physical Chemistry.

CO1. Write an expression for rate constant K for third order reaction.

CO2. Solve the numerical problems based on Rate constant.

CO3. Know the meaning of phase, component and degree of freedom.

### **B. Sc. I: Paper IV, DSC- 4B Analytical Chemistry**

After studying this course, students:

CO1. Know the principles of common ion effect and solubility product.

CO2. Study the methods of thermo-gravimetric analysis.

CO3. Understand principles of Spectro - photometric analysis and properties of electromagnetic radiations.

CO4. Study the Voltammetry and Polarography as an analytical tool.

## **MATHEMATICS**

### **B.Sc.-I: Paper I DSC - 5 A Differential Calculus**

After studying this course, students:

CO1. Gain Knowledge of fundamental concepts of real numbers.

CO2. Verify the value of the limit of a function at a point using the definition of the limit

41

CO3. Understand sequence and series.

CO4. Learn to check function is continuous understand the consequences of the

intermediate value theorem for continuous functions.

### **B.Sc.-I: Paper II, DSC- 6A Calculus**

After studying this course, students:

CO1. Understand differentiation and fundamental theorem in differentiation and various rules.

CO2. Know geometrical representation and problem solving on MVT and Rolle's theorem.

CO3. Find extreme values of function.

CO4. Introduce Ordinary Differential Equation.

### **B. Sc. I: Paper III, DSC- 5B Differential Equations**

After studying this course, students:

CO1. Study differential equations in the context of Equations.

CO2. Solve first order differential equations utilizing the standard techniques for separable, exact, linear, homogeneous, or Bernoulli cases.

CO3. Find the complete solution of a non homogeneous differential equation as a linear combination of the complementary function and a particular solution.

CO4. Get the working knowledge of basic application problems described by second order linear differential equations with constant coefficients.

### **B. Sc. I: Paper IV**

### **DSC- 6B Higher Order Ordinary Differential Equations and Partial Differential Equations**

42

After studying this course, students:

CO1. Get familiar with the modeling assumptions and derivations that lead to PDEs.

CO2. Recognize the major classification of PDEs and the qualitative differences between the classes of equations.

CO3. Turn competent in solving linear PDEs using classical solution methods.

CO4. Know the association between the attributes.

## **STATISTICS**

### **B.Sc. – I Paper-I, DSC – 7A - Descriptive Statistics –I**

After studying this course, students:

CO1. Define & use the basic terminology of statistics.

CO2. Classify the data by means of diagrams & graphs.

CO3. Explain the concepts of central tendency, dispersion, skewness, kurtosis & moments.

CO4 .Calculate & interpret the various measures of central tendency, measures of dispersion.

### **B.Sc. – I Paper -II**

#### **DSC – 8A- Elementary Probability Theory**

After studying this course, students:

CO1. Study Elementary Probability theory.

CO2. Use the basic probability rules including additive & multiplicative laws using the terms independent & mutually exclusive events.

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CO3. Translate real world problem into probability models.

CO4. Know random variables of interest in a given scenario.

### **B.sc. Part – I Paper-III**

#### **DSC – 7B -Descriptive Statistics –II**

After studying this course, students:

CO1. Compute & interpret the results of regression for forecasting.

CO2. Compute & interpret the results of correlation analysis.

CO3. Calculate the simple linear regression equation for set of data.

CO4. Acquire knowledge of index numbers.

### **B.Sc. Part – I Paper-IV**

#### **DSC – 8B -Descriptive Probability Distributions**

After studying this course, students:

CO1. Calculate probabilities & derive marginal & conditional Distributions of bivariate random variable.

CO2. Study binomial outcomes & compute probability of getting  $x$  successes in  $N$  trials.

CO3. Identify the type of statistical situation to which different distributions can be applied.

CO4. Apply general properties of expectation.

CO5. Know some standard discrete probability distributions with real life situations.

### **ZOOLOGY**

#### **B.Sc.-I: Paper I, DSC – 15A Animal Diversity-I**

44

After studying this course, students:

- CO1. Understand new concepts and characteristics of Animal Diversity.
- CO2. Describe general taxonomic rules on animal classification.
- CO3. Classify Protista up to phylum using examples from parasitic adaptation
- CO4. Classify Phylum Porifera to Echinodermata with taxonomic keys.
- CO5. Study Phylum Nematode and give examples of pathogenic Nematodes.

### **B.Sc.-I: Paper II**

#### **DSC- 16 A Animal Physiology**

After studying this course, students:

- CO1. Understand basics and characteristics of Animal Physiology.
- CO2 Study the concepts of digestion respiration excretion the functioning of nerves and muscles.
- CO3. Gain fundamental knowledge of animal physiology.
- CO4. Develop skill to execute the roles of a biology teacher or medical lab technicians with training as they have basic fundamentals.

### **B.Sc.-I: Paper III**

#### **DSC- 15B Cell Biology and Evolutionary Biology**

After studying this course, students:

- CO1. Understand the concept and importance of Cell Biology.
- CO2 Structural and functional aspects of basic unit of life i.e. cell concepts.
- CO3 Study the background of Theories of Evolution.
- CO4 Knowledge of eras and evolution of species.

### **B.Sc.-I: Paper IV**

## **DSC- 16B Genetics**

After studying this course, students:

CO1 Understand of basic concepts of genetics, laws of inheritance and central dogma of biology

CO2 Study of genetic basis of evolution, human karyotyping and speciation

CO2 Understand Mendelian and non mendelian inheritance

CO3 Identify the concept behind genetic disorder, gene mutations- various causes associated with inborn errors of metabolism

## **BOTANY**

### **B.Sc.-I: Paper I**

#### **DSC –13A Biodiversity of Microbes, Algae and Fungi**

After studying this course, students:

CO1. Know the structure, pigmentation, food reserves and methods of reproduction of Algae

CO2. Learn about the structure, pigmentation, food reserves and methods of reproduction of Fungi.

CO3. Know about the Economic importance of algae, Fungi

CO4. Learn about structure of Microbes.

### **B.Sc.-I: Paper II**

#### **DSC- 14A Biodiversity of Bryophytes, Pteridophytes, Gymnosperm**

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After studying this course, students:

CO1. Understand new concepts, importance and characteristics of Biodiversity..

CO2. Learn about the general characters and classification by K.R. Sporne, stelar evolution in Pteridophytes, heterospory and origin of seed habit.

CO3. Know about the structure, life history and Economic importance of Gymnosperms.

CO4. Learn about the structure, pigmentation, food reserves and methods of reproduction of Algae

### **B.Sc.-I: Paper III**

#### **DSC –13B Plant Ecology**

After studying this course, students:

CO1. Understand new concepts and characteristics of Plant Ecology.

CO2. Learn the Approaches to the study of Ecology (Autecology, Synecology and Genecology)

CO3. Understand the population & Community Ecology - concept of metapopulational.

CO4. Know about the Principles of Toxicology and types of Toxins, sources, metabolism and Biological monitoring.

### **B.Sc.-I: Paper IV**

#### **DSC –13B Plant Taxonomy**

After studying this course, students:

CO1. Learn the types of classifications- artificial, Natural and phylogenetic.

CO2. Gain knowledge about Botanical Survey of India (BSI).

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CO3. Study on herbarium techniques.

CO4. Learn the taxonomic evidences from molecular, numerical and chemicals.

CO5. Study the economic products with special reference to the Botanical name, family, morphology of useful part and the uses.

## **CERTIFICATE COURSE & DIPLOMA IN FOOD PROCESSING & PRESERVATION**

**(Under UGC Community College Scheme)**

### **CERTIFICATE COURSE:**

#### **Paper FPP101: English for Business Communication**

After studying this course, students:

CO1 Aware of Resume, letters of application, business letters

CO2 Develop News-report writing, Essay writing, paragraph writing, Review, etc

CO3 Explain narration of experience, daily routine

CO4 Apply Interview Techniques in special situations.

#### **Paper FPP 102**

##### **Fundamentals of Food Science**

After studying this course, students:

CO1. Explain the basic principles of different food groups

CO2. Develop principles of food science in practical, real world situations.

CO3. Study the basic principle of sensory analysis

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CO4. Getting Information about preliminary treatments of food

CO5. Students make possible to understand the process of high & low temperature treatments.

CO6. Assess the role of quality parameters for food

### **Paper FPP 103**

#### **Fundamentals of Food Chemistry**

After studying this course, students:

CO1. Use laboratory techniques common to basic & applied food chemistry

CO2. Understand the chemistry underlining the properties & reactions of various food Components.

CO3. Have sufficient knowledge of food chemistry to control reactions in foods.

CO4. Apply the principles behind analytical techniques associated with foods .

CO5. Demonstrate practical proficiency in food analysis laboratory.

### **Paper FPP104**

#### **Food Microbiology**

After studying this course, students:

CO1. Identify important pathogens and spoilage causing microorganisms in food.

CO2. Utilize laboratory techniques to identify microorganisms in food.

CO3. Know the principles involving food preservation via fermentation process.

CO4. Study microbial inactivation, adaptation and environmental factors.

CO5. Detailed exposure of microorganisms used in food industry.

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**CERTIFICATE COURSE & DIPLOMA IN FOOD PROCESSING &  
PRESERVATION**

**(Under UGC Community College Scheme)**

## **DIPLOMA**

### **Paper FPP 201, English for business communication**

After studying this course, students:

CO 1 Write Resumes, letters of application and business letters

CO 2 Develop News-report, Essay, paragraph,, Review, etc

CO 3 Narrate experience, daily routine

CO 4 Follow Interview Techniques

### **Paper FPP 202**

#### **Dairy Technology**

After studying this course, students:

CO1. Understand the chemistry of milk, Major & minor nutrients.

CO2. Study the processing & preservation of milk & Milk products.

CO3. Identify the different adulterants & their effects on milk.

CO4. Get a sound knowledge to start up dairy plant while pursuing the course.

CO5. Know the chemical, Microbial, nutritional & sensory analysis for milk & different milk products.

CO6. Relate the Judging & Grading of milk and milk products

CO7. Understand the specificity of packaging materials for different milk products.

### **Paper FPP 203**

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#### **Bakery & Confectionary**

After studying this course, students:

- CO1. Distinguish the basic difference between bakery & confectionary.
- CO2. Know the properties and functions of the basic ingredients used in bakery & Confectionary.
- CO3. Know the formulation of ingredients used for processing.
- CO4. Understand the scale, mix and mold, proof & bake yeast raised products.
- CO5. Get in depth knowledge of working of machineries used in bakery.
- CO6. Know the various types of confectionaries.
- CO7. Understand the concept of coca processing in detail.

### **Paper FPP 204**

#### **Hygiene & Sanitation**

After studying this course, students:

- CO1. Learn spatial importance of hygiene & Sanitation
- CO2. Establish the relationship between Microorganisms & Sanitation.
- CO3. Enable to understand importance of personal hygiene in food industry.
- CO4. Distinguish between Cleaning, sanitization & Hygiene.
- CO5. Assess the factors threaten about food security
- CO6. Get the deep knowledge about food safety risk
- CO7. Classifies disinfectants & explains their mechanism of actions.

#### **Course Outcomes**

#### **Certificate Course: Beauty & Wellness**

##### **Paper: I**

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#### **Personality Development**

After studying this course, students:

- CO 1. Understand Leadership, Leadership styles, Interpersonal relations

CO 2. Study stress management, Group dynamics & Team building

CO 3. Understand conflict management, causes of conflict, conflict handling.

CO4. Get information about Motivation, Types of motivation and how to motivate employees in salon.

CO 5. Explain personality, its meaning and factors affecting on it.

## **Paper: II**

### **Basic Beauty Care**

After studying this course, students:

CO 1. Get knowledge about Personal hygiene, Personal grooming, Sterilization & Sanitization.

CO 2. Collect information about Eyebrow shaping, Tweezing and Threading

CO 3. Get information about Manicure & Pedicure, its purpose, Hand massage & leg massage step by step.

CO 4. Develop knowledge about Nail, its parts, Nail diseases, Factors affecting on nail growth,

CO 5. Get information about Preparation of wax, Types of wax, Method of applying wax, Contraindications of waxing.

## **Paper: III**

### **Skin Care & Face Makeup**

After studying this course, students:

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CO 1. Get knowledge about Cell, Layers of skin, Types of skin, How to take care of skin in all seasons & Analysis of skin.

CO 2. Get information about Skin cleansing, types of cleansers according to the

skin type, Exfoliating facial - Types of scrubs, techniques of scrubbing.

Natural cleansers f, Deep cleansing machines and its use.

CO 3. Get information about Face mask &homemade face masks.

CO 4. Get Knowledge about Bleach: - types of bleach, its application on face, neck, back hand, Precautions.

CO 5. Get information about Facial bones, Face Muscles, Techniques of facial as per the face muscles, Product selection according to the skin type.

CO 6. Get information about Makeup, Its tools, Party makeup, Oily Makeup, Bridal Makeup.

CO 7. Get knowledge of Machine treatments for skin problems.

## **Beauty & Wellness**

### **Diploma Course**

#### **Paper: I**

#### **Personality Development**

After studying this course, students:

CO 1. Understand Leadership, Leadership styles, Interpersonal relations

CO2. Get information about stress management, Group dynamics, & Team building

CO 3. Understand conflict management, causes of conflict, conflict handling.

CO4. Get information about Motivation, Types of motivation and how to motivate employees in salon.

53

CO 5. Get information about Personality, its meaning and factors affecting on it.

## **Paper: II**

### **Skin Care & Face Makeup**

After studying this course, students:

CO 1. Study about Cell, Layers of skin, Types of skin, How to take care of skin in all seasons & Analysis of skin.

CO 2. Get information about Skin cleansing, types of cleansers according to the skin type, Exfoliating facial - Types of scrubs, techniques of scrubbing.

Natural cleansers f, Deep cleansing machines and its use.

CO 3. Know information about Face mask &homemade face masks.

CO 4. Gain knowledge about Bleach: - types of bleach, its application on face, neck, back, hand, Precautions.

CO 5. Get information about Facial bones, Face Muscles, Techniques of facial as per the face muscles, Product selection according to the skin type.

CO 6. Get information about Makeup, Its tools, Party makeup, Oily Makeup, Bridal Makeup.

CO 7. Get knowledge of Machine treatments for skin problems.

## **Paper: III**

### **Hair Care**

After studying this course, students:

CO1. Study about Hair structure, types of hair, Hair growth cycle, Factors affecting on hair growth, Scalp massage, Shampooing and rinsing.

CO2. Get knowledge about Hair cut – According to the profession, Face shape, Age, Body structure.

CO3. Get knowledge about hair styling- hair texture, Techniques of hair styling.

CO4. Gain information about henna application, dye application.

**Paper: IV**

**SPA Therapy & Food Diet**

After studying this course, students:

CO 1. Get knowledge about anatomy and physiology – basic knowledge about various systems of body.

CO 2. Understand SPA products its treatment and applications.

CO 3. Get knowledge of yoga to get healthy & glowing skin.

CO 4. Know information about skin care in all seasons.