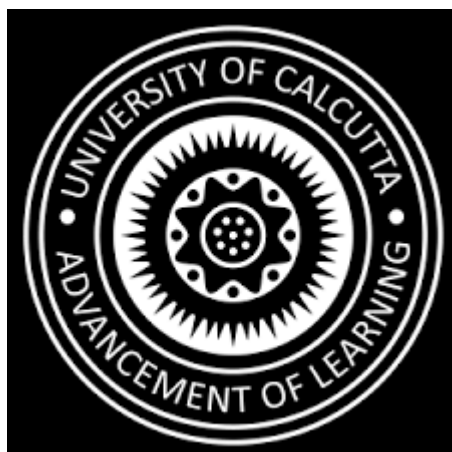


# UNIVERSITY OF CALCUTTA



**SEMESTER WISE FOUR YEARS  
(Under Curriculum & Credit Framework, CCF 2022)**

**B.Voc (Honours) Degree in Hospitality & Tourism**

**Course Structure:**

**(Under Curriculum & Credit Framework-CCF, 2022)**

**(For 1<sup>st</sup> & 2<sup>nd</sup> Semester)**

Semester	Core Paper	Minor (m1 & m2)	IDC	AEC	SEC	CVAC	Total Credit
1 <sup>st</sup> Semester	1x4=4 3TH+1P/TU	1x4=4 (m1) 3TH+1P/TU	1x3=3 2TH+1P/TU	1x2=2 2TH+0P/TU	1x4=4 3TH+1P/TU	2x2=4	21
2 <sup>nd</sup> Semester	1x4=4 3TH+1P/TU	1x4=4 (m1) 3TH+1P/TU	1x3=3 2TH+1P/TU	1x2=2 2TH+0P/TU	1x4=4 3TH+1P/TU	2x2=4	21

## **Category of subjects:**

- 1. Core Vocational Course (CVC): Hospitality & Tourism**
- 2. Skill Enhancement Courses (SEC):** Based on Hospitality & Tourism (Core subject) in first three semesters.
- 3. Minor:** Minor courses will come from two subjects (m1, m2) other than the core vocational subject.
- 4. Inter Disciplinary Course (IDC):** There shall be three IDCs of 3 credits each, other than core and Minor course
- 5. Ability Enhancement Course (AEC):**
  - a) Compulsory English
  - b) MIL/Alternative English  
MIL includes Bengali, Hindi & Urdu
- 6. Common Value Added Course (CVAC):** In the 1st semester, there shall be

one compulsory CVAC in ENVS & one compulsory CVAC in Constitutional Values. In the 2nd semester, there shall be one compulsory CVAC in ENVS & the students shall select the other CVAC from a pool of courses.

## **Detailed Syllabus:**

### **Core Vocational Course (CVC): Hospitality & Tourism**

**YEAR-I**

#### **SEMESTER-I**

#### **CVC-1: Evolution of Tourism & Concept of Modern Tourism in India**

**Total Marks: 100**

**Semester-end Examinations: 75 marks**

**Tutorial-25 marks**

#### **Unit-I:-Concept of Tourism:**

Introduction, Tourism: The Basic Concept, Tourism: Meaning and Definition, The Tourist, Tourism, Recreation, Leisure and Their Inter relationship.

#### **Unit-II:-Motivations for Travel:**

Definition and Role of Motivation, Physical Motivators, Cultural Motivators, Interpersonal Motivators, Status and Prestige Motivators, Classification of Traveller, Concept of Leisure & Business Tourism, Tourism as a Service Industry.

#### **Unit-III:-Tourism: Types, Forms, Products and Attractions:**

Introduction, Forms of Tourism, Nature of Tourism, Characteristics of Tourism, Elements and Characteristics of Tourism Products, Tourism Product System, Differences between Domestic & International Tourism, Distinguish between Tourist & Traveller, Tourist & Excursionist.

#### **Unit-IV:-Modern concept of Indian Tourism:**

Tourism as an Industry, Recent trends Domestic Tourism in India, Factors influencing for the development of Domestic Tourism in India, International tourism trends in India, Tourism in the Modern Period, Types of Tourism in India, Adventure Tourism, Wildlife Tourism, Medical Tourism, Pilgrimage Tourism, Eco Tourism, Cultural Tourism, Wellness Tourism, Business Tourism, Heritage Tourism, Leisure Tourism, Cruise Tourism, Sports Tourism, Educational Tourism.

#### **Suggested Readings:**

- *A.K.Bhatia: International Tourism Management*
- *A.K.Bhatia: Tourism Development – Principles & Practices*
- *K.K.Kamra & M.Chand- Basics of Tourism*
- *P.N.Sethi- Successful Tourism Management*
- *Dr.Shubhada Marathe: Tourism Management*
- *Jagmohan Negi: Tourism & Travel- Concepts & Principles*
- *R.K.Sinha: Growth and Development of Modern Tourism*

#### **Question Pattern (Semester-end Examinations): 75 marks**

**Group-A: Answer three questions out of five questions each carrying 5 Marks:**

3x5=15 Group-B: Answer four questions out of six questions each carrying 15 Marks: 4x15=60

### **Minor-1: Principles and Practice of Management**

**Total Marks: 100**

**Semester-end Examinations: 75  
marks Tutorial-25 marks**

#### **Unit-I: -Introduction:**

Management-definition, importance, functions, levels of management, managerial tasks and skills, Management theories - Classical (Taylor & Fayol), Neo-classical (Elton Mayo & Mary Parker Follet) and Modern School of management (Peter Drucker & Michael Porter) Managerial roles (Mintzberg), Social Responsibility of Management and its significance.

#### **Unit-II: -Planning:**

Meaning, nature, purpose, types, premises, elements of planning and limitations of planning; Strategic planning concept, process and importance, Decision Making - concept, importance; Environment analysis and SWOT analysis [concept and elements].

#### **Unit-III: -Organizing:**

Concept, need, principles, steps in organising, different organization structure [line, staff, functional, project and new organisational structure – basic concepts] Departmentation-need, basis, Delegation of Authority-elements, principles; Centralization and Decentralization of Authority; Span of Management; concept and factors determining span of management.

#### **Unit-IV: -Directing and Leadership:**

Directing: concepts, elements and importance; Leadership: Concept, importance, types, Major theories of Leadership (Likert's system four theory, Blake and Mouton's Managerial Grid theory, Fred Fiedler's situational leadership, Tannenbaum & Schmidt's Behavioural Model, Trait theory of leadership).

#### **Unit-V: -Motivation, Co-ordination and Control:**

Motivation: Concept, steps, importance, Motivation theories: Maslow's Need-Hierarchy theory, Herzberg's Two factor theory and McGregor's theory of X and Y; Coordination: concepts, importance, principles; Control: concepts, importance and Managerial tools of control.

#### **Suggested Readings:**

- Kaul, V.K., *Business Management*, Vikash
- Koontz & Weirich, *Essentials of Management*, TMH
- Principles of Management, Meenakshi Gupta, PHI
- Stoner & Freeman, *Management*, PHI
- Drucker, P.F., *Managing Challenges for the 21st Century*, Butterworth, Oxford
- Mitra, J.K., *Principles of Management*, Oxford
- Debnath S.K, & Dutta S.P., *Principles and Practice of Management*, Tee Dee Pub. (P) Ltd.
- Kaul Vijay Kumar, *Business Management*, Vikas Publishing House

#### **Question Pattern (Semester-end Examinations): 75 marks**

**Group-A: Answer three questions out of five questions each carrying 5 Marks:**

3x5=15 Group-B: Answer four questions out of six questions each carrying 15 Marks: 4x15=60

## **IDC-1: Microeconomics**

**Total Marks: 75**

**Semester-end Examinations: 50 marks**  
Tutorial-25 marks

### **Unit-I: -Introduction:**

Definition of Microeconomics, Macroeconomics--positive and normative economics—  
Basic concepts--scarcity and choice--Production Possibility Curve--Central Problem of  
the Economy--concept of slope

### **Unit-II:-Theory of Demand and Supply:**

- (A) Demand and Supply--Concepts of Demand-derived demand--Demand function--  
Determinants of demand -- Law of Demand & its expectations--Movement along  
the Demand curve and shift of the Demand curve-- Concepts of Supply and Supply  
function--Law of Supply --Movement along the supply curve and shift of the  
supply curve--Market equilibrium and Determination of price--Effect of change in  
the Demand and Supply on Equilibrium price
- (B) Elasticity of Demand and Supply-- Price elasticity of demand --Determinants and  
Measurement of price elasticity--Relationship between slope and price elasticity of  
demand--Income elasticity of demand--Cross price Elasticity of Demand --  
Elasticity of Supply

### **Unit-III:-Theory of Consumer Behaviour:**

Concept of Utility and Marginal utility--The Law of Diminishing marginal Utility--  
Cardinal Utility Theory-Concept and significance of Consumer Surplus--Consumer's  
Equilibrium in case of single and two commodities--Concept of Ordinal utility theory--  
Indifference curve and its properties-- Marginal Rate of Substitution--Budget Line and  
Budget equation--Consumer's Equilibrium.

### **Unit-IV: -Theory of Production and Cost:**

Concept of Production Function--Fixed and Variable inputs--Short run and Long run--  
Relation among Total, Average and Marginal Product--Law of Variable Proportion--  
Return to Scale--Isoquants, Isocosts and Producer's equilibrium (Graphical Explanation) --  
Concepts of Economic Cost and Opportunity Cost--Short Run and Long run Cost  
Functions--Relation among Average Cost, Average Variable Cost and Marginal Cost--  
Long run Average Cost Curve from Short Run Average Cost curves.

### **Unit-V: -Revenue and Market:**

Definition and different forms of Market--Revenue under Different Market Structure--  
Relation among Total Revenue, Average revenue and Marginal Revenue--Perfect  
Competition and Monopoly--Features, Equilibrium of the firm (Short Run and Long Run)  
--Short run supply curve of a firm under perfect competition--Price discrimination under  
monopoly--concepts and conditions.

### **Suggested Readings:**

- *Microeconomics, Mukherjee sampat, Mukherjee Mallinath & Ghosh Amitava, PHI*
- *Pindyck R and Rubinfeld D.L, Micro Economics, Pearson*
- *Gould & Ferguson, Micro Economic Theory*
- *Mankiw.N.G., Principles of Microeconomics, Cengage*

- Dasgupta P and Khan P, *Microeconomics and Statistics*, Elegant Publication
- Bhattacharyya S, *Microeconomics and Indian Economics*, Oxford University Press
- Majumdar D and Banerjee A, *Microeconomics and Statistics*, ABS Publishing House
- Dwivedi, D.N., *Managerial Economics*, Vikash Publications
- Sarkhel J, Salim S and Dutta S, *Microeconomics and Statistics*, Book Syndicate
- De Bipul, *Microeconomics*, Tee Dee Publications (P) Ltd. (Bengali & English Version)
- Jana Diparna, *Microeconomics I*, Law Point

### **AEC-1:COMPULSORY ENGLISH**

**TotalMarks:50**  
**Semester-end Examinations: 50**  
**marksTutorial-NA**

#### Unit-I: -Poetry:

- LORD TENNYSON, BREAK BREAKBREAK
- THOMAS HARDY: AFTERWARDS
- RABINDRANATH TAGORE: WHERE THE MIND IS WITHOUT FEAR

#### Unit-II:-Prose:

- R.K. NARAYAN: OUT OF BUSINESS
- PREM CHAND: THE CHILD
- MARTIN LUTHER KING, JR: I HAVE A DREAM

### **SEC-1:Food Production Foundation-I**

**TotalMarks:100**  
**Semester-end Examinations: 75**  
**marksTutorial-25 marks**

#### Unit-I: -Hierarchy Area Of Department And Kitchen:

Classical Brigade - Modern staffing in various category hotels – Roles of executive chef  
 - Duties and responsibilities of various chefs - Co-operation with other departments.

#### Unit-II:-Aims & Objects of Cooking Food:

Aims and objectives of cooking food - Various textures - Various consistencies -  
 Techniques used in pre-preparation - Techniques used in preparation.

#### Unit-III:-Basic Principles Of Food Production - I:

Vegetable And Fruit Cookery: Introduction – classification of vegetables - Pigments and colour changes - Effects of heat on vegetables - Cuts of vegetables - Classification of fruits - Uses of fruit in cookery - Salads and salad dressings, Stocks: Definition of stock - Types of stock - Preparation of stock - Recipes - Storage of stocks - Uses of stocks - Care and precautions, Sauces: Classification of sauces - Recipes for mother sauces - Storage & precautions.

#### Unit-IV: -Methods of Cooking Food:

Methods: Roasting, Grilling, Frying, Baking, Broiling, Poaching, Boiling - Principles of each of the above - Care and precautions to be taken - Selection of food for each type of cooking.

#### Unit-V: -Soups:

Classification with examples - Basic recipes of Consommé with 10 Garnishes.

#### Suggested Readings:

- *Accompaniments & Garnishes from waiter; Communicate: Fuller J. Barrie & Jenkins*
- *Cooking Essentials for the New Professional Chef*
- *Food Production Operations: Parvinder S Bali, Oxford University Press*
- *Larder Chef By M J Leto & W K H Bode Publisher: Butterworth-Heinemann*
- *Modern Cookery (Vol- I) By Philip E. Thangam, Publisher: Orient Longman*
- *Practical Cookery By Kinton & Cessarani*
- *Practical Professional Cookery By Kauffman & Cracknell*
- *Professional Cooking by Wayne Gislen, Publisher Le Cordon Bleu*
- *Purchasing Selection and Procurement for the Hospitality Industry By Andrew Hale Feinstein and John M. Stefanelli*
- *The Professional Chef: Le Rol A. Polson*
- *Theory of Catering By Kinton & Cessarani*
- *Theory of Cookery By K Arora, Publisher: Frank Brothers*

#### Question Pattern (Semester-end Examinations): 75 marks

**Group-A: Answer three questions out of five questions each carrying 5 Marks:**

**3x5=15 Group-B: Answer four questions out of six questions each carrying 15 Marks: 4x15=60**

### **CVAC-1: Fundamentals of Environment**

**Total Marks: 50**

**Semester-end Examinations: 50  
marks Tutorial-NA**

#### Unit-I: -Introduction to environmental studies:

- Multidisciplinary nature of environmental studies
- Scope and importance
- Concept of sustainability, sustainable development, and sustainability goals
- Low carbon lifestyle: Mission LIFE

#### Unit-II: -Ecology and Ecosystems:

- Concept of ecology, ecosystem, and ecosystem services
- Structure and function of ecosystem
- Energy flow in an ecosystem's
- Ecological pyramid
- Food chain and food web (Terrestrial and aquatic ecosystems)
- Basic concept of population and community ecology
- Ecological succession

#### Unit-III: -Natural Resources:

- Concept of renewable and non-renewable resources

- Land resources and land use change; land degradation, soil erosion and desertification.
- Forest resources: importance" Deforestation- causes. consequences, and remedial measures
- Water: use and over-exploitation of surface and ground water, floods, droughts, conflicts over water (international & inter-state).
- Energy resources: Environmental impacts of energy generation, use of alternative and nonconventional energy sources. Green energy.
- Natural resource accounting

Unit-IV: -Biodiversity and Conservation:

- Levels of biological diversity: genetic, species and ecosystem diversity
- Biogeographic zones of India, Biodiversity hot spots, Endemism, India as a mega diversity nation
- Threats to biodiversity. IUCN threat categories
- In-situ and Ex-situ conservation of biodiversity, protected area network
- Role of indigenous communities in biodiversity conservation, Peoples Biodiversity Register, Bioprospecting and Biopiracy

Unit-V: -Environmental Pollution:

- Environmental pollution: concepts and types,
- Air, water, soil. noise and marine pollution- causes, effects and controls
- Concept of hazards waste and human health risks
- Solid waste management: Control measures of municipal, biomedical and e-waste.
- Climate change. global warming, ozone layer depletion, acid rain and their impacts on human communities and agriculture

**CVAC-2:Constitutional Values and Fundamental Duties**

**TotalMarks:50**  
**Semester-end Examinations: 50**  
**marksTutorial-NA**

Course Objectives:

- To enrich students with knowledge and relevance of the Indian Constitution.
- To develop awareness about values of basic tents and Duties.
- To inculcate a sense of Constitutionalism.

Learning outcomes:

- To understand the Constitution and its relevance.
- To appreciate the values and goals embedded in the Constitution.
- To recognise the importance of Fundamental Duties enshrined in the Constitution.

Module I:

- Concept of renewable and non-renewable resources
- Land resources and land use change; land degradation, soil erosion and desertification.
- Forest resources: importance" Deforestation- causes. consequences, and remedial

measures

- Water: use and over-exploitation of surface and ground water, floods, droughts, conflicts over water (international & inter-state).
- Energy resources: Environmental impacts of energy generation, use of alternative and nonconventional energy sources. Green energy.
- Natural resource accounting

#### Module II:

1. The Constitution of India and Constitutionalism. Constitutional Values--- Justice, Liberty, Equality, Fraternity
2. Fundamental Rights; Rule of Law; Separation of Powers
3. Sovereignty, Socialism, Secularism, Democracy, Republic

#### Unit-V: -Environmental Pollution:

4. Fundamental Duties: emergence; value and significance.
5. Article 51: enumerated Duties.
6. Legal status of Fundamental Duties. Limitations.

#### Suggested Readings:

- *D. D. Basu, et al., Introduction to the Constitution of India (latest edition)*
- *G. C. Hiregowder et. al.: The Indian Constitution--- An Introduction.*
- *S.K. Chaube: The Making and Working of the Indian Constitution*
- *M. P. Singh, V.N. Shukla: Constitution of India.*
- *Sudhir Krishnaswamy: Democracy and Constitutionalism in India*



## **SEMESTER-II**

### **CVC-2:Tourism Components & Impacts**

**TotalMarks:100**  
**Semester-end Examinations: 75**  
**marksTutorial-25 marks**

#### **Unit-I:-Components of Tourism:**

Components of Tourism, concept of Infrastructure & importance for the development of a tourist destination.

#### **Unit-II:-Economic Impact:**

Tourism Impacts-Economic Impact- Employment, Tax Revenue, GDP, Foreign Exchange Earnings, Multiplier Effect.

#### **Unit-III:-Socio & Cultural Impact:**

Socio-Cultural Impact- Tourist-host relationship, Demonstration effect, Attitude, Cultural Authenticity.

#### **Unit-IV:-Environmental & Political Impact:**

Environmental & Political Impact- Environmental Pollution and minimize its effect on destination, Political disturbances and its impact on tourism.

#### **SuggestedReadings:**

- *A.K.Bhatia: Tourism Development – Principles & Practices*
- *Jagmohan Negi- Tourism & Travel : Concepts & Principles*
- *S. Mukhopadhyay, Tourism Economics*
- *A.K.Bhatia: International Tourism Management*
- *K.K.Kamra&M.Chand-Basics of Tourism*
- *S.N. Mishra &S.K .Sadual, Basics of Tourism Management*

#### **QuestionPattern(Semester-endExaminations):75marks**

**Group-A:Answer three questions out of five questions each carrying 5 Marks:**

**3x5=15Group-B:Answerfourquestionsoutofsixquestionseachcarrying15Marks:4x15=60**

### **Minor-2: Marketing Management and Human Resource Management**

**TotalMarks:100**  
**Semester-end Examinations: 75**  
**marksTutorial-25 marks**

#### **Module-IMarketing Management**

**(TheoryMarks:40)**

Unit-I: -Introduction:

Meaning of market, Objectives and Importance of Marketing; Societal Marketing concept, Selling vs. Marketing; Marketing mix [concepts, components], Marketing environment: concept, importance, and components.

Unit-II: -Market Segmentation:

Market segmentation: concept, importance and bases; Product differentiation vs. market segmentation.

Unit-III: -Product:

Concept and importance, Product classifications; Concept of product mix; Branding-Concept, packaging and labelling; Product life-cycle [concept], New Product Development Process.

Unit-IV: -Pricing and Distribution:

Pricing [Meaning, objectives, Significance and methods] Factors affecting price of a product. Pricing policies and strategies, Distribution Channels - meaning and importance; Types of distribution channels.

Unit-V: -Promotion and Recent developments in marketing:

Promotion: Nature and importance of promotion; Types of promotion: advertising, personal selling, publicity & sales promotion, Recent developments in marketing: Social Marketing, online marketing, direct marketing, services marketing, green marketing, Rural marketing; Consumerism.

**Module-II Human Resource Management**

**(Theory Marks:35)**

Unit-I: -Nature and Scope:

Concept and meaning of HR, Understanding the Nature and Scope of HRM, Functions and importance of HRM.

Unit-II: -Human Resource Planning:

Market segmentation: concept, importance and bases; Product differentiation vs. market segmentation.

Unit-III: -Recruitment and Selection:

Training and Development Meaning and purpose of training, Benefits of training to organization and employees –Training methods.

Unit-IV: -Training and Development:

Training and Development Meaning and purpose of training, Benefits of training to organization and employees –Training methods.

Unit-V: -Job Evaluation and Performance Appraisal:

Job evaluation- objectives, scope, Job analysis, Job description, Job Specification-basic concept and significance, Performance Appraisal-Concept.

Suggested Readings:

- Kotler, P., *Marketing Management*, Pearson
- Ramaswamy and Namakumari, *Marketing Management*, McMillan

- *Marketing Management, Govindarajan, M., PHI*
- *Principles of Marketing, Kapoor, N., PHI*
- *Bhagwati, Pillai, Marketing Management, S.Chand*
- *Verma, Duggal, Haldar & Sarkar, Principles of Marketing, Oxford*
- *Samanta, S R, Human Resource Management, PHI*
- *Mahajan, Reeta, Human Resource Management, Vikash*
- *Haldar & Sarkar, Human Resource Management, Oxford*
- *Sinha, Sekhar & Bala, Human Resource Management, Cengage*
- *Jyothi & Venkatesh, Human Resource Management, Oxford*
- *Praharaj & Praharaj, Principle of Marketing and Human Resource Management, Tee Dee Pub (P) Ltd. (Bengali & English Version)*
- *Ghosh Sudipta & Joshi Lalit Kumar, Marketing Management and Human Resource Management, Law Point*

**QuestionPattern(Semester-endExaminations):75marks**

**Group-A: Answer three questions out of five questions each carrying 5 Marks:**

**3x5=15 Group-B: Answer four questions out of six questions each carrying 15 Marks: 4x15=60**

**IDC-2: Macroeconomics**

**Total Marks: 75**

**Semester-end Examinations: 50  
marks Tutorial-25 marks**

**Unit-I: -Basic Concepts:**

Macroeconomics, Concepts, Scope, macroeconomic variables, objectives, Differences with microeconomics.

**Unit-II: -National Income:**

National income accounting, Concepts and measurement of GDP, GNP, NNP, NDP, PI, DPI, Circular flow of income (2 sectors & 3 sectors economy), Real and Nominal GDP and GDP Deflator.

**Unit-III: -Determination of equilibrium income in Simple Keynesian Model:**

Theory of Income determination- Simple Keynesian model; Consumption, Saving, Investment functions; National Income determination; Investment multiplier, Government expenditure multiplier (Graphical Analysis), Tax multiplier and Balanced budget multiplier (concepts).

**Unit-IV: -Money and inflation:**

Concept of demand for money and supply of money, Measures of supply of money, High powered money, money multiplier, Concept of Inflation, Demand pull and Cost push Inflation. Inflationary gap. Monetary and fiscal measures to control inflation.

**Unit-V: -Public Finance:**

Government budget-meaning and components, Classifications of receipts –revenue and capital receipts; Classification of expenditure-revenue and capital expenditure. Measures of Government Deficit-Revenue deficit, Fiscal deficit, Primary deficit.

**Suggested Readings:**

- Branson W.H. *Macro Economic Theory and Policy*,
- Dornbusch, Fischer & Startz, *Macroeconomics*, TMH
- Samuelson & Nordhaus, *Macroeconomics*, McGraw Hill
- Ghosh C & Ghosh A., *Macroeconomics*, PHI
- Parchure, S., *Macroeconomics*, PHI
- Bhattacharyya S and Das I, *Macroeconomics and Advanced Business Mathematics*, , Oxford University Press
- Majumdar D and Chatterjee N, *Macroeconomics and Advanced Business Mathematics*, ABS Publishing House
- Dasgupta P and Chakraborty G, *Samashtigoto Orthoneeti o uchhotoro Banijyik Gonit*, Dey Book Concern
- De Bipul, *Macroeconomics*, Tee Dee Publications (P) Ltd. (Bengali & English Version)

### **AEC-2:COMPULSORY ENGLISH**

**Total Marks:50**  
**Semester-end Examinations: 50**  
**marks Tutorial-NA**

#### Unit-I: -Poetry:

- WILLIAM WORDSWORTH: LUCY GRAY
- ELIZABETH BARRET BROWNING: HOW DO I LOVE THEE
- WILFRED OWEN: ANTHEM FOR DOOMED YOUTH

#### Unit-II:-Prose:

- O. HENRY: THE LAST LEAF
- RUSKIN BOND: THE THIEF'S STORY
- RABINDRANATH TAGORE: RAM MOHAN ROY

### **SEC-2:Food Production Foundation-II**

**Total Marks:100**  
**Semester-end Examinations: 75**  
**marks Tutorial-25 marks**

#### Unit-I: -Soups:

Basic recipes other than consommé with menu examples : Broths, Bouillon, Puree, Cream, Veloute, Chowder, Bisque etc. - Garnishes and accompaniments - International soups.

#### Unit-II:-Sauces & Gravies:

Difference between sauce and gravy - Derivatives of mother sauces - Contemporary & Proprietary.

#### Unit-III:-Meat Cookery:

Introduction to meat cookery - Cuts of beef/veal - Cuts of lamb/mutton - Cuts of pork - Variety meats (offals) - Poultry (With menu examples of each).

#### Unit-IV: -Fish Cookery:

Introduction to fish cookery - Classification of fish with examples - Cuts of fish with menu

examples - Selection of fish and shell fish - Cooking of fish (effects of heat).

#### Unit-V: -Pastry, Flour and Simple Bread:

Pastry: Short crust, Laminated, Choux, Hot water/Rough puff - Recipes and methods of preparation - Differences - Uses of each pastry - Care to be taken while preparing pastry - Role of each ingredient - Temperature of baking pastry, Flour: Structure of wheat - Types of Wheat - Types of Flour - Processing of Wheat – Flour - Uses of Flour in Food Production - Cooking of Flour (Starch), Simple Bread: Principles of bread making - Simple yeast breads - Role of each ingredient in bread making - Baking temperature and its importance.

#### Suggested Readings:

- *Accompaniments & Garnishes from waiter; Communicate: Fuller J. Barrie & Jenkins*
- *Cooking Essentials for the New Professional Chef*
- *Food Production Operations: Parvinder S Bali, Oxford University Press*
- *Larder Chef By M J Leto & W K H Bode Publisher: Butterworth- Heinemann*
- *Modern Cookery (Vol- I) By Philip E. Thangam, Publisher: Orient Longman*
- *Practical Cookery By Kinton & Cessarani*
- *Practical Professional Cookery By Kauffman & Cracknell*
- *Professional Cooking by Wayne Gislen, Publisher Le Cordon Bleu*
- *Purchasing Selection and Procurement for the Hospitality Industry By Andrew Hale Feinstein and John M. Stefanelli*
- *The Professional Chef: Le Rol A. Polsom*
- *Theory of Catering By Kinton & Cessarani*
- *Theory of Cookery By K Arora, Publisher: Frank Brothers*

#### Question Pattern (Semester-end Examinations): 75 marks

**Group-A: Answer three questions out of five questions each carrying 5 Marks:**

**3x5=15 Group-B: Answer four questions out of six questions each carrying 15 Marks: 4x15=60**

### **CVAC-3: Environmental Education**

**Total Marks: 50**

**Semester-end Examinations: 50**

**marks Tutorial-NA**

#### Unit-I: -Environmental Education:

- Concept, definition, and significance of environmental education
- Genesis of environmental education. Tbilisi Declaration 1977
- Philosophy of environmental education
- Environmental awareness vis a vis environmental education

#### Unit-II: -Rules and regulations of environment:

- Necessity of rules and regulations, different types of rules and regulations, mistakes in implementing of environmental rules, problems in implementing environmental rules.
- Environment Laws in India: Wildlife (Protection) Act; Forest (Conservation) Act;
- Water (Prevention and control of Pollution) Act; Air (Prevention & Control of Pollution) Act; Environment Protection Act; Biodiversity Act.
- International agreements: Montreal Protocol, Kyoto protocol and climate negotiations; Convention on Biological Diversity (CBD).

Unit-III:-Human Communities and the Environment:

- Human population growth: Impacts on environment. human health. and welfare.
- Concept of Resettlement and rehabilitation.
- Environmental movements: Bishnois. Chipko. Silent valley. Big dam movements.
- Environmental ethics: Types. ecofeminism, role of cultures in environmental conservation.

Unit-IV: -Disaster Awareness:

- Fundamentals of hazard. disaster. risk and vulnerability
- Disaster classification, Natural Disasters-floods, earthquake, cyclones, tsunami and landslides; Manmade Disaster.
- Case Studies: Minamata disaster, Bhopal gas disaster, Fukushima nuclear disaster. Kedarnath flood, Cyclone Aila, COVID- 19
- Disaster management, Disaster warning systems

Unit-V: -Role of environmental education in protecting environment:

- Lifelong learning procedure. Pedagogy in environmental education; Formal and informal environmental education (Exhibition, role playing ability, quiz, debate, field trip, demonstration, project, poster presentation, seminar, eco-club)
- Role of NGOs and government institutions
- Role of information technology and mass media: Print, Electronic and social media

Suggested Readings:

- Reference: Das. S., (2023) *Environmental education*, Sanjib Prakasan, Kolkata

.....

