

# SYLLABUS

MANONMANIAM SUNDARANAR UNIVERSITY, TIRUNELVELI-12

UG COURSES – AFFILIATED COLLEGES

## B.Com

(Choice Based Credit System)

(with effect from the academic year 2021-2022 onwards)

Semester-I				
Part	Subject Status	Subject Title	Subject Code	Credit
I	Language	Tamil/other language	C1TL11 / C1MY51	4
II	Language	Communicative English – I	C2EN11	4
III	Major core I	Financial Accounting – I	CMCO11	4
	Major Core 2	Business Organisation & Management	CMCO12	4
	Add on Major (compulsory)	Professional English for Commerce & Management – I	CPCM11	4
	Allied-I	Business Economics	CACO11	3
IV	Common	Environmental Studies	CEVS11	2



**Total Marks: 100 Internal Exam: 25 marks + External Exam: 75 marks**

**A. Scheme for internal Assessment:**

Maximum marks for written test: **20 marks**

**3 internal tests**, each of **1 hour** duration shall be conducted every semester.

To the average of the **best two** written examinations must be added the marks scored in. The **assignment** for 5 marks.

The break up for internal assessment shall be:

Written test- 20 marks; Assignment -5 marks Total - 25 marks

**B. Scheme of External Examination**

**3 hrs.** examination at the end of the semester

A – Part : 1 mark question two - from each unit

B – Part : 5 marks question one - from each unit

C – Part : 8 marks question one - from each unit

➤ **Conversion of Marks into Grade Points and Letter Grades**

S.No	Marks	Letter Grade	Grade point (GP)	Performance
1	90-100	O	10	Outstanding
2	80-89	A+	9	Excellent
3	70-79	A	8	Very Good
4	60-69	B+	7	Good
5	50-59	B	6	Above Average
6	40-49	C	5	Pass
7	0-39	RA	-	Reappear
8	0	AA	-	Absent

➤ **Cumulative Grade Point Average (CGPA)**

$$CGPA = \frac{\Sigma (GP \times C)}{\Sigma C}$$

- **GP** = Grade point, **C** = Credit
- CGPA is calculated only for Part-III courses
- CGPA for a semester is awarded on cumulative basis

➤ **Classification**

- First Class with Distinction :  $CGPA \geq 7.5^*$
- First Class :  $CGPA \geq 6.0$
- Second Class :  $CGPA \geq 5.0$  and  $< 6.0$
- Third Class :  $CGPA < 5.0$



முதலாம் பருவம்

பாடத்திட்டப்பதிப்பு -2021-2022

## பகுதி – ஒன்று – பொதுத்தமிழ் - முதல் தாள்

### Unit:1

செய்யுள்

தமிழ்த்தாய் வாழ்த்து முதல் நாட்டுப்புறப்பாடல்கள் வரை

பல்கலைக்கழக வெளியிடு,

அனுசித்ரா பப்ளிகேஷன்ஸ், சென்னை-33.

தொலைபேசிஎண் : 044-24743719,

Email : [anuchitrapublications@gmail.com](mailto:anuchitrapublications@gmail.com)

### Unit:2

இலக்கணம் : எழுத்து இலக்கணம்

1. எழுத்தின் விளக்கம்
2. எழுத்தின் வகைகள் - முதல் எழுத்துக்கள், சார்பு எழுத்துக்கள்
3. வினா எழுத்துக்கள், சுட்டெழுத்துக்கள்
4. வல்லினம் மிகும் இடங்கள், வல்லினம் மிகா இடங்கள்
5. ஒலிப்பு மாறுபாடுகளும் பொருள் வேறுபாடுகளும்

### Unit:3

உரைநடை

இலக்கியச்சாரல் - தொகுப்பாசிரியர் முனைவர் ச.அருள்மணி

பிரிசாட் பப்ளிகேஷன்ஸ், சென்னை – 3

### Unit:4

சிறுகதை

நவரத்தினக்கதைகள் - தொகுப்பாசிரியர் முனைவர் சு.நயினார்

அறிவுப்பதிப்பகம்(பி)லிட்., சென்னை –14, தொலைபேசி எண் : 044-28482441

### Unit:5

இலக்கிய வரலாறு

1. புதுக்கவிதையின் தோற்றமும் வளர்ச்சியும்
2. சிறுகதையின் தோற்றமும் வளர்ச்சியும்
3. நாவலின் தோற்றமும் வளர்ச்சியும்
4. நாடகத்தின் தோற்றமும் வளர்ச்சியும்
5. நாட்டுப்புறப்பாடல்களின் தோற்றமும் வளர்ச்சியும்



## **PART-1 MALAYALAM**

### **Course Structure under Choice Based Credit System (CBCS) For the Academic Year 2021-2022 onwards**

For B.Com., BCA, B.Sc. Computer Science, B.Sc. Electronics, BBA and other Job Oriented Courses, Part-1 Language will be in the first two semesters only. In that case they are supposed to study Paper-III & Paper-IV only. Other B.A. & B.Sc. Degree Course Students should study all four papers. Each paper shall divide into five units having one or two poems / prose works / parts / chapters etc for detailed study. In addition to these lessons, the teachers should brief about the Origin and History of the Literary Movements, Disciplines, Theories of Classical and Modern Theatre, Print & Visual Media.

The present Board of Studies in Malayalam is strictly adhered to the directions put forwarded by UGC & TANSCHHE Govt. of Tamilnadu. Presently the language learning is closely associated with Print and Visual Media. The learner must be aware about the practicality of the language in the present scenario. That is why in the last semester media literature and art of advertising is included. The new curriculum is designed on par with the Part-1 Malayalam Syllabus of other major Universities in Kerala. The Course Structure is 75% equal in compared with other Universities

#### **OBJECTIVE OF THE STUDY**

The study of early days of Malayalam poetry, origin from Pattu movement to contemporary poetry should be introduced. The aim is to develop general knowledge about Malayalam poetry. To Develop ability to appreciate poetry and critical analysis. By understanding the history of poetry and its growth over time, one can understand the various levels associated with poetical studies and criticism.



## PART-1 MALAYALAM for UG Courses

### THIRD SEMESTER

#### PAPER - III

A1MY31 - ദൃശ്യകലാസാഹിത്യം (Drusyakalasaahithyam)- Classical and Modern Theatre / Cinema Literature

#### OBJECTIVE OF THE STUDY

In the present scenario Visual arts especially, Cinema is influenced a lot. It gives lot of job opportunity also. Inclusion of Drama and Cinema in this semester will create interest among the students to opt for future endeavours. It helps to know more about the visual arts sensitivities and enable them to appreciate the art forms very well. To achieve these it is necessary to create a general awareness among the students to Visual Arts and their literary Genres. We need to convince the students about the specific factors of art forms that are changing from time to time and their relevance. To enable them to understand the general nature of a Film Script, Screen Play and the transition of a story/short-story/Novel/an idea into a film.

#### UNIT - 1- Thullal- A Satirical Classical Visual Art Form

##### തുള്ളൽ

തുള്ളൽപ്രസ്ഥാനം - ചരിത്രം - സാമൂഹ്യമാറ്റങ്ങൾ - ആക്ഷേപഹാസ്യം - ജനകീയത - പ്രധാനപ്പെട്ട തുള്ളലുകൾ - ഇവയുടെ പരിചയം

#### FOR DETAILED STUDY

1. കഞ്ചൻ നമ്പ്യാർ - ഘോഷയാത്ര  
(ലൈംഗികതയെ സൂക്ഷ്മമായി നോക്കി...  
...പണ്ടേക്കാൾ പല വികൃതപൗരസ്ത്യമുണ്ടിപ്പോൾ മമ കൗരവവീര)

#### UNIT - 2-KADHAKALI- A Classical Visual Art Form

##### കഥകളി

ചരിത്രം - കാക്കാരിശ്ശി നാടകം - പൊറട്ട് നാടകം - ചവിട്ടു നാടകം - തെയ്യം - എന്നിവയെ പരിചയപ്പെടുത്തുക - സംസ്കാരം - സാമൂഹ്യപ്രാധാന്യം - പുതിയ കാലത്തെ മാറ്റങ്ങൾ - സാങ്കേതിക കാര്യങ്ങൾ - അഭിനയരീതികൾ - വേഷം

#### FOR DETAILED STUDY

2. നളചരിതം ആട്ടക്കഥ നാലാം ദിവസം (പ്രൊ. ആർ. രാജരാജവർമ്മയുടെ കാന്താരതാരകം)  
ഉണ്ണായിവാരിയർ  
ആദ്യത്തെ ആറു രംഗങ്ങൾ

### UNIT - 3- Translation of a Sanskrit Drama

നാടകം (സംസ്കൃത നാടക വിവർത്തനം)  
നാടകവുമായി ബന്ധപ്പെട്ട വിവർത്തനചരിത്രം - ആദ്യകാലത്തെ വിവർത്തനങ്ങളുടെ പ്രത്യേകതകൾ - സംസ്കൃതനാടകവുമായി ബന്ധപ്പെട്ട സങ്കേതങ്ങൾ - നാടകാസ്വാദനവുമായി ബന്ധപ്പെട്ട ചുറ്റുപാടുകൾ - സാമൂഹ്യാവസ്ഥ - പ്രാധാന്യം

FOR DETAILED STUDY

3. മലയാളശാകുന്തളം - നാലാമങ്കം - വിവർത്തനം ഏ. ആർ. രാജരാജവർമ്മ

### UNIT - 4- A Modern Drama in Malayalam

നാടകം (മലയാള നാടകം)  
മലയാളനാടകചരിത്രം - പ്രധാനപ്പെട്ട നാടകചാര്യന്മാർ - ആദ്യകാലത്തെ പ്രവർത്തനങ്ങൾ - അരങ്ങം നാടകസാഹിത്യവും -പ്രധാനപ്പെട്ട നാടകങ്ങൾ - സാമൂഹ്യ മാറ്റങ്ങൾ - രാഷ്ട്രീയചരിത്രം - പ്രവർത്തനങ്ങൾ - നാടകത്തിന്റെ സമകാലികാവസ്ഥ - രേഖീയോ തുടങ്ങിയ മാധ്യമങ്ങൾ - പ്രൊഫഷണൽ നാടകങ്ങൾ - അമേച്വർ നാടകങ്ങൾ

FOR DETAILED STUDY

4. സി. എൻ. ശ്രീകണ്ഠൻനായർ - കാഞ്ചനസീത  
ആദ്യത്തെ രണ്ട് രംഗം

### UNIT - 5- Cinema

സിനിമ  
സിനിമയുടെ ചരിത്രം - ആദ്യകാലം - ഓരോ ഘട്ടത്തിലെയും വികാസം - സിനിമാ പഠനം - സിദ്ധാന്തങ്ങൾ - മലയാള സിനിമ - ആദ്യകാലത്തെ സിനിമ - ശബ്ദചിത്രം - നിശ്ശബ്ദചിത്രം - ദൃശ്യഭാഷ - സംവിധാനം - തിരക്കഥയിൽ നിന്ന് സിനിമയിലേക്കുള്ള വികാസം

FOR DETAILED STUDY

5. അടൂർ ഗോപാലകൃഷ്ണൻ - മതിലുകൾ

### REFERENCE BOOKS

കൈരളിയുടെ കഥ - പ്രൊഫ. എൻ. കൃഷ്ണപിള്ള  
നളചരിത്രം ആട്ടക്കഥ - കാന്താരതാരകം - ഏ. ആർ. രാജരാജവർമ്മ  
ഉയരുന്ന യവനിക - സി. ജെ. തോമസ്  
മലയാളനാടകസാഹിത്യചരിത്രം - ഡോ. വയലാ വാസുദേവൻ പിള്ള  
മലയാളനാടകസാഹിത്യചരിത്രം - ജി. ശങ്കരപ്പിള്ള

സിനിമയുടെ വ്യാകരണം - ഡോ. ടി. ജിതേഷ്  
 തിരക്കഥാരചന - കലയും സിദ്ധാന്തവും - ജോസ്. കെ. മാണവൽ  
 കഥയും തിരക്കഥയും - ആർ. വി. എം. ദിവാകരൻ  
 നാടോടി വിജ്ഞാനീയം - എം. വി. വിഷ്ണുനമ്പൂതിരി  
 മലയാള സംഗീതനാടകചരിത്രം - കെ. ശ്രീകുമാർ  
 ചവിട്ടുനാടകം - സെബിനാനാഥി  
 കേരളത്തിലെ നാടോടി നാടകങ്ങൾ - ഡോ. എസ്. കെ. നായർ  
 ഫോക്ലോർ - രാഘവൻ പയ്യന്നൂർ  
 നാട്ടരങ്ങ് - ജി. ഓർഗ്ഗവൻ പിള്ള  
 കഞ്ചൻനമ്പ്യാരും അദ്ദേഹത്തിന്റെ കൃതികളും - വി. എസ്. ശർമ്മ

## PART II ENGLISH

### Unit I

1. Listening and Speaking
  - a. Introducing self and others
  - b. Listening for specific information
  - c. Pronunciation (without phonetic symbols)
    - i. Essentials of pronunciation
    - ii. American and British
    - iii. pronunciation
2. Reading and Writing
  - a. Reading short articles – newspaper reports / fact based articles
    - I. Skimming and scanning
    - II. Diction and tone
    - III. Identifying topic sentences
  - b. Reading aloud: Reading an article/report
  - c. Journal (Diary) Writing
3. Study Skills - 1
  - a. Using dictionaries, encyclopaedias, Thesaurus
4. Grammar in Context:
 

Naming and Describing

  - Nouns & Pronouns
  - Adjectives

### Unit II

1. Listening and Speaking
  - a. Listening with a Purpose
  - b. Effective Listening
  - c. Tonal Variation
  - d. Listening for Information
  - e. Asking for Information
  - f. Giving Information
2. Reading and Writing
  1. a. Strategies of Reading:
 

Skimming and Scanning
  - b. Types of Reading :
 

Extensive and Intensive Reading
  - c. Reading a prose passage
  - d. Reading a poem
  - e. Reading a short story
3. Paragraphs: Structure and Types
  - a. What is a Paragraph?
  - b. Paragraph structure
  - c. Topic Sentence
  - d. Unity





- e. Coherence
- f. Connections between Ideas: Using Transitional words and expressions
- g. Types of Paragraphs
- 3. Study Skills II:
  - Using the Internet as a Resource
    - a. Online search
    - b. Know the keyword
    - c. Refine your search
    - d. Guidelines for using the Resources
    - e. e-learning resources of Government of India
    - f. Terms to know
- 4. Grammar in Context
  - Involving Action-I
    - a. Verbs
    - b. Concord

### Unit III

- 1. Listening and Speaking
  - a. Giving and following instructions
  - b. Asking for and giving directions
  - c. Continuing discussions with connecting ideas
- 2. Reading and writing
  - a. Reading feature articles (from newspapers and magazines)
  - b. Reading to identify point of view and perspective (opinion pieces, editorials etc.)
  - c. Descriptive writing – writing a short descriptive essay of two to three paragraphs.
- 3. Grammar in Context:
  - Involving Action – II
    - a. Verbals - Gerund, Participle, Infinitive
    - b. Modals

### Unit IV

- 1. Listening and Speaking
  - a. Giving and responding to opinions
- 2. Reading and writing
  - a. Note taking
  - b. Narrative writing – writing narrative essays of two to three paragraphs
- 3. Grammar in Context:
  - Tense
    - a. Present
    - b. Past
    - c. Future



## Unit V

1. Listening and Speaking
  - a. Participating in a Group Discussion
2. Reading and writing
  - a. Reading diagrammatic information – interpretations maps, graphs and pie charts
  - b. Writing short essays using the language of comparison and contrast
3. Grammar in Context:  
Voice (showing the relationship between Tense and Voice)



**B. COM (I SEMESTER) – UNDER CBCS  
PART III – MAJOR CORE -1**

**FINANCIAL ACCOUNTING –I**

**Objectives**

- To acquire conceptual knowledge of financial accounting.
- To impart skills for recording various kinds of business transactions.

**Unit I**

Accounting – Definition – Branches of Accounting – Functions of Accounting –Advantages – Limitations –Book keeping – Difference between Book keeping and Accounting –Users of Accounting information – Accounting Principles – Concepts and Conventions –Accounts and classification – Double entry system of Accounting – Journal – Ledger –Subsidiary Books – Trial balance – Final Accounts

**Unit II**

Bank Reconciliation Statement –Rectification of Errors – Suspense Account.

**Unit III**

Bills of Exchange- Essentials – Accounting Treatment – Renewal of the Bill – Noting Charges – Retiring the Bill – Insolvency – Accommodation Bill - Average Due Date – Account Current.

**Unit IV**

Depreciation – Meaning – Causes – Types – Straight Line Method – Written Down Value Method – Annuity Method – Insurance Claims – Loss of Stock – Loss of Profit.

**Unit V**

Single Entry system – Meaning – Salient Features – Defects – Statement of Affairs Method – Conversion Method – Difference between Single entry and Double entry System – Self Balancing Ledger – Sectional Balancing System.

**Text & Reference Books**

1. S.P.Jain & K.L.Narang, Advanced Accountancy, Kalyani Publishers, New Delhi.
2. R.L.Gupta and M.Radhaswamy, Advanced Accountancy, Sultan Chand & Sons, New Delhi.
2. M.C.Shukla and T.S.Grewal, Advanced Accountancy, Sultan Chand & Co.,



New Delhi.

3. Dr.M.A. Arulanandam&K.S.Raman, Advanced Accountancy, Himalaya Publishing House, Mumbai.
4. T.S.Reddy& A. Murthy, Advanced Accountancy, Margham Publications, Chennai.
6. R.S.N.Pillai, Bagavathi&S.Uma, Fundamentals of Advanced Accounting, S.Chand & Company Ltd., New Delhi.



## **PART III – MAJOR CORE -2**

# **BUSINESS ORGANISATION AND MANAGEMENT**

### **Objectives**

- To understand business and its role in society.
- To enable the student to undertake business activities.
- To familiarise the students with concepts and principles of management.
- To impart knowledge on the functions of management among the students

### **Unit I:**

#### **Business Enterprises**

Forms of Business Organisation: Sole Proprietorship, Joint Hindu Family Firm, Partnership firm, Joint Stock Company, Cooperative society; Limited Liability Partnership; Choice of Form of Organisation. Government - Business Interface; Rationale and Forms of Public Enterprises - International Business - Multinational Corporations

### **Unit II:**

#### **Foundation of Indian Business**

Manufacturing and service sectors; Small and medium enterprises; Problems and government Policy - India's experience of liberalisation and globalisation - Technological innovations and skill development - „Make in India“ Movement - Social responsibility and ethics Emerging opportunities in business; Franchising, Outsourcing, and E-commerce

### **Unit III:**

#### **Introduction to management**

Meaning and definition of management-Functions of management- Managerial skills-Levels of management-Roles of manager-Management as a science or art-contributions to management by F.W.Taylor, Henry Fayol, Elton Mayo and Peter.F.Drucker.

### **Unit IV:**

#### **Management and Organisation**

The Process of Management: Planning; Decision-making; Strategy Formulation. Organizing: Basic Considerations; Departmentation – Functional, Project, Matrix and Network; Delegation and Decentralisation of Authority; Groups and Teams



## **Unit V:**

### **Leadership, Motivation and Control**

Leadership: Concept and Styles; Trait and Situational Theory of Leadership. Motivation: Concept and Importance; Maslow Need Hierarchy Theory; Herzberg Two Factors Theory. Communication: Process and Barriers; Coordination – Importance; Control: Concept and Process.

### **Suggested Readings:**

1. Kaul, V.K., Business Organisation and Management, Pearson Education, New Delhi
2. Chhabra, T.N., Business Organisation and Management, Sun India Publications, New Delhi,
3. Gupta CB, Modern Business Organisation, Mayur Paperbacks, New Delhi
4. Koontz and Weihrich, Essentials of Management, McGraw Hill Education.



## **PART III – ADD ON MAJOR -1**

# **PROFESSIONAL ENGLISH FOR COMMERCE & MANAGEMENT – I**

### **UNIT 1:**

#### **COMMUNICATION**

**Listening:** Listening to audio text and answering questions - Listening to Instructions

**Speaking:** Pair work and small group work

**Reading:** Comprehension passages –Differentiate between facts and opinion

**Writing:** Developing a story with pictures.

**Vocabulary:** Register specific - Incorporated into the LSRW tasks

### **UNIT 2:**

#### **DESCRIPTION**

**Listening:** Listening to process description.-Drawing a flow chart.

**Speaking:** Role play (formal context)

**Reading:** Skimming/Scanning- Reading passages on products, equipment and gadgets.

**Writing:** Process Description –Compare and Contrast Paragraph-Sentence Definition and Extended definition- Free Writing.

**Vocabulary:** Register specific -Incorporated into the LSRW tasks.

### **UNIT 3:**

#### **NEGOTIATION STRATEGIES**

**Listening:** Listening to interviews of specialists / Inventors in fields (Subject specific)

**Speaking:** Brainstorming (Mind mapping), Small group discussions (Subject- Specific)

**Reading:** Longer Reading text.

**Writing:** Essay writing (250 words)

**Vocabulary:** Register specific - Incorporated into the LSRW tasks

### **UNIT 4:**

#### **PRESENTATION SKILLS**

**Listening:** Listening to lectures.

**Speaking:** Short talks.

**Reading:** Reading Comprehension passages



**Writing:** Writing Recommendations Interpreting Visuals inputs

**Vocabulary:** Register specific - Incorporated into the LSRW tasks

## **UNIT 5:**

### **CRITICAL THINKING SKILLS**

**Listening:** Listening comprehension- Listening for information.

**Speaking:** Making presentations (with PPT- practice).

**Reading:** Comprehension passages –Note making.

(Comprehension: Motivational article on Professional Competence, Professional Ethics and Life Skills)

**Writing:** Problem and Solution essay– Creative writing –Summary writing

**Vocabulary:** Register specific - Incorporated into the LSRW tasks

### **References:**

1. Shiv Khera – You Can Win
2. Robin Sharma – The Monk Who Sold His Ferrari
3. A.P.J. Abdul Kalam – Ignited Minds - Wings of Fire
4. Richard Back – Jonathan Livingston Seagull
5. Med Serif – How to Manage Yourself





## PART III – ALLIED -1

# BUSINESS ECONOMICS

### Objectives

- To identify the role of supply and demand in a market economy
- To enhance knowledge on recent economic trends

### Unit I

Introduction of Economics and Business Economics: Meaning, Nature and Significance of Economics – subject matter of Economics – Meaning, Nature and Significance of business Economics – Role of business economics in decision making – Role and responsibilities of a business economist.

### Unit II

Consumption and Demand analysis: Business significance of Consumption and Demand – Demand determinants – Law of demand and demand curves – Types of demand – Concept of elasticity – Methods of measuring price elasticity of demand – Relationship between price elasticity and sales revenue.

### Unit III

Production Analysis: Factors of production and their characteristics – Production possibility curves – Concepts of total product, Average product and Marginal product – Fixed and variable factors – Classical and Modern approaches to the law of variable proportions – Law of returns to scale and Economies and diseconomies of scale.

### Unit IV

Supply and Cost analysis: Supply – Factors affecting supply – Law of supply – Elasticity of supply and types of elasticity of supply – Cost of production – Concepts of Cost– Sunk cost and future cost, direct cost and indirect cost – Cost curves – Total, Average, Marginal cost curves – Relationship of MC to AC – Fixed and variable cost curves.

### Unit V

Price and output decisions in various market forms: Role of Time in determining the value of products – Equilibrium conditions of a firm and Industry under various market forms – Price and output determination in a Perfect Market – Price and output determination in an Imperfect Market with specific reference to



Monopoly, Monopolistic competition and Oligopoly.

**Text & Reference Books**

1. Chaturvedi. D.D., Gupta. S.L. and Sumitra. A.L., Business Economics-Test and cases, Galgotia publishing company, New Delhi, 2001.
2. Manab Adhkary, Business Economics (2nd Edition), Excel Books, New Delhi, 2002.
3. Samuelson. B.A., Economics, Tale MC Graw Hill, New Delhi, 1976.



## **SYLLABUS FOR ENVIRONMENTAL STUDIES**

FOR UNDERGRADUATE COURSES

PART IV-COMPULSORY PAPER

### **UNIT I:**

#### **THE MULTIDISCIPLINARY NATURE OF ENVIRONMENTAL STUDIES**

Definition, scope and importance Natural resources and associated problems:

- a) Forest resources: Use and over-exploitation, deforestation, timber extraction, dams and their effects on forests and tribal people.
- b) Water resources: Use and over-utilization of surface and ground water, floods, drought, dams-benefits and problems, water conservation and watershed management.
- c) Mineral resources: Use and exploitation, environmental effects.
- d) Food resources: World food problems, changes, effects of modern agriculture, fertilizer-pesticide problems.
- e) Energy resources: Growing energy needs, renewables and non-renewable energy sources, alternate energy sources.
- f) Land resources: Land as a resource, land degradation, man-induced landslides, soil erosion and desertification.
- g) Role of an individual in conservation of natural resources.
- h) Equitable use of resources for sustainable lifestyles.

### **UNIT II:**

#### **ECOSYSTEMS**

- a) Forest Ecosystem
- b) Grassland Ecosystem
- c) Desert ecosystem
- d) Aquatic Ecosystem (Ponds rivers, oceans, estuaries)  
Food Chains, Food Webs and Ecological Pyramids Energy flow in the ecosystem  
Ecological succession

### **UNIT III :**

#### **BIODIVERSITY AND ITS CONSERVATION**

Introduction Definition: Genetic, species and ecosystem diversity. Bio geographical classification of India Values of Biodiversity  
Biodiversity at global, national and local levels India as a mega-diversity nation  
Hot-Spots of biodiversity Threats to biodiversity  
Endangered and endemic species of India  
Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity.



#### **UNIT IV:**

#### **ENVIRONMENTAL POLLUTION**

Definition- Causes, effects and control measures of:-

- a) Air Pollution
- b) Water Pollution
- c) Soil Pollution
- d) Marine Pollution
- e) Noise Pollution.
- f) Thermal Pollution

Solid Waste Management

Disaster Management: Floods, earthquake, cyclone and landslides.

#### **UNIT V:**

#### **SOCIAL ISSUES AND THE ENVIRONMENT**

Climatic change, global warming, acid rain, ozone depletion.

Wasteland reclamation

Consumerism and Waste products, use and through plastics

Environment Protection Act

Air (Prevention and Control of Pollution Act

Water (Prevention and Control of Pollution) Act

Wildlife Protection Act

Forest Conservation Act

Population Explosion — Family Welfare Programme

Human Rights

#### **REFERENCES:**

1. Vijayalakshmi, G. S., A. G. Murugesan and N. Sukumaran.2006. Basics of Environmental Science, Manonmaniam Sundaranar University Publications, Tirunelveli, pp.160
2. Agarwal. K. C.2001.Environmental Biology, Nidi Publications Limited, Bikaner.
3. A.K. De.1999. Environmental Chemistry, Wiley Eastern Limited, India.
4. Jadhav, H. and Bhosale,V.M.1995. Environmental Protection and Laws, Himalaya Publishing House, Delhi. pp284.
5. Odum, E.P.1971. Fundamentals of Ecology, W.B.Saunders Co.,USA.pp.574.

