



# Vaish College, Bhiwani

(Affiliated to Chaudhary Bansi Lal University, Bhiwani-Haryana)



**Assessment Period: 2018-2023**

## **Supporting Document: 1.3.1**

Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Value, Environment and Sustainability in transacting the curriculum.

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

Subject	Course	Cross-Cutting issues	Topics
Commerce	Environment Science	Environment and Sustainability	1)Understanding environment 2)Natural Resources 3)Sustainable life style 4)Ecosystem 5)Environmental Pollution 6)Social issues and environment
Commerce	Business ethics	Professional ethics,	1)Social responsibility of corporate governance
Commerce	Human Resource Management	Human values	1)Relationship between human Resource management and environment 2) Emerging challenges in HRM 3) Evolution and growth of HRM 4) Human Resource Management in INDIA 5)Recruitment selection and training 6) Wage and wage incentives 7) Essentials of satisfactory wage policy 8) Industrial relation, Industrial unrest, Legal framework for the empowerment of workers
Commerce	Swachh Bharat Bharat	Environment Sustainability	1)Personal hygiene and ways of awareness for Swacchhata. 2) Provide health education. 3) Solid Waste Management. 4) Biodegradable and Non biodegradable. waste. 5) Role of Gram Panchayat IN Swacchhata.
Commerce	Sales force Management	Professional ethics Human values	1)Development and Role of selling in marketing, types of selling. 2)Sales strategies 3) Difference between consumer and organisational buying and consumer buying behaviour 4) Sales techniques: Personal selling, Relationship selling, Direct marketing 5) Internet and IT applications in sales force management
Commerce	Indian Economy and Business environment	Environment and Sustainability Professional (Business ethics)	1)Current Indian Business Environment 2)SWOT/SWOC/ETOP Analysis with special reference to Indian economy, NITI Aayog 3) Balance of trade and Balance of payment 4) Industrial policy monetary policy, fiscal policy 5) Liberalisation, Privatisation, globalisation, International economic institution.
Commerce	Business Communication skills	Human values, Professional ethics	1)Basics of communication 2) Ethical context of communication 3) Component, layout and process of Business communication at workplace 4) Communication skills: reading skills, listening skills, persuasive speaking, Body language and gestures.
Botany	Economic Botany	Environment and sustainability	Plant diversity utilization of plant
	Ecology and evolution and Economic Botany	Environment and sustainability	Population on ecology, ecosystem photosynthesis, Horticulture and environment, use of Biofuel & Biofertilizer, utilization of plant resources, medicinal plant

Principal  
VAISHCOLLEGE  
SHIWANI

Economics	1)Economics Environment of Business 2)Environment and energy management	Human values Professional ethics	1)Economics & legal Environment 2)Swot Analysis 3)Economics reform 4)Industrial polocian 5)Management of Environment 6)Management of energy
Environmental studies	Environmental studies	Environment and sustainability	1) Understanding the enironment Natural Recources. 2) Biodiversity and it's conservation. 3) Environmental issues, management policies and practices.
Zoology	Ecology and Evolution	Environment and sustanability	1) Definition, significance, concept of Habitat and Ecological niche 2) Abiotic factors (light-intesity, quality and duration) temp. Humidity, Topography, biotic factors. 3) Concept, componens, properties and function ecological energetics and energy flow food-chain, food web, trophic structure, ecological pyramids, concept of productivity. 4) Concept of cycles, reservoir pool, gaseous cycles.
Chemistry	Polymers and Chemical Fertilizers	Environment and sustainability	Use of polymers and their degradation, Biodegradable, nonbiodegradable , Use of fertilizers
Hindi	Gender Sensitization and Human Values	Gender Sensitization and Human Values	कहानी का नाम फेसल
			लैलिका मेरे दो पुष्य
			कहानी का उद्देश्य
			लैलिका कहानी के माध्यम से यह बताना चाहती है की किस प्रकार पुरुष प्रधान समाज या पितृ सत्तासंस्कृत को एक फेसल के माध्यम से परिवर्तित करने का प्रयास किया गया है । इस कहानी में लैलिका द्वारा यह दर्शाने की कोशिश की है की सरकार ने जो अधिकार महिलाओं को दिए हैं पुरुष प्रधान समाज उन्हें उन अधिकारों का प्रयोग नहीं करने देता बल्कि उसके अधिकारों पर अपना हक जमाता है ।
			कहानी का नाम
			"भयभीत बीका डेट"
			श्री"
			लैलिक ओम्प्रकाश कलौतिक
			कौतिक विमर्श पर आधारित कहानी है। इस कहानी के माध्यम से लैलिक के दिखाना चाहता है भारतीय समाज में कौतिक का शोषण घटाने का रास्ता दिखाई देती है।
			उपन्यास का नाम कहनुलाम
			लैलिका मरुता गर्ग
			श्री विमर्श पर आधारित।
			MA प्रथम वर्ष के पाठ्यक्रम में शामिल है ।
			सम्कालीन हिंदी कविता
			लैलिक संवेस लैली
			कविता का शीर्षक है
			बच्चे काम पर जा रहे हैं।
Hobby Club	Gardening, Painting, Cooking, Fine Arts		Cooking without fire. Best out of waste etc



# Chaudhary Bansi Lal University, Bhiwani

(Established under Govt of Haryana Act 25 of 2014)

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Ref. No: CBLU/MBA/19/1149

Dated: 02/08/19

**Principal**  
All affiliated Colleges  
CBLU, Bhiwani

**Sub: "Workshop on implementation of Hobby Clubs and open electives in the UG/PG Curriculum."**

Dear Sir,

Greeting from CBLU!

Choice base credit system is being implemented in the University for the PG and UG (B.Com/BBA) programmes from 2019-2020 batch onwards. Correspondingly, Hobby Clubs and open-electives have become an essential component in the PG & UG (B.Com/BBA) programmes. In order to have a better understanding of the course structure and implementation of these components in the curriculum, a workshop has been purposed as per the following:

**Date: August 6, 2019**

**Time: 09:00 -04:30 PM**

You are requested to kindly nominate the main faculty coordinator for club and open elective activities in your college for participation in this workshop. They must report to the CBLU committee room at 09:00AM on August 6, 2019. There is no registration fee for the participants from the affiliated colleges and University teaching Departments. However, no TA/DA will be provided by the university.

Thanks and Regards,

**Dr. Vikas Kumar**  
Dean, FCM



# Workshop Implementation of Hobby Clubs & Open Electives

August 6, 2019

## Programme Schedule

09:00AM: 10:00AM	Registration																																				
10:00AM: 10:10AM	Welcome by the Registrar																																				
10:10AM: 10:30AM	Inaugural address by the Vice-Chancellor																																				
10:30AM: 10:45AM	Briefing on Club by Dean, FCM																																				
10:45AM: 11:00AM	Club Activities by Dr. Satvir Singh																																				
11:00AM: 11:15AM	Tea Break																																				
11:15AM: 13:00AM	Presentation by Club In-charges and General Discussion <table border="1"><thead><tr><th>Sr. No.</th><th>Name</th><th>Club</th></tr></thead><tbody><tr><td>1</td><td>Dr. Geetika</td><td>Outreach</td></tr><tr><td>2</td><td>Mr. Ravinder</td><td>Performing Arts</td></tr><tr><td>3</td><td>Mr. Manjeet</td><td>Sports and Fitness</td></tr><tr><td>4</td><td>Dr. Manju Lata</td><td>IT</td></tr><tr><td>5</td><td>Mr. Abhishek</td><td>Literary</td></tr><tr><td>6</td><td>Mr. V.M Bechain</td><td>Fine Arts</td></tr><tr><td>7</td><td>Dr. Shikha</td><td>Photography and Videography</td></tr><tr><td>8</td><td>Ms. Jaya Bhardwaj</td><td>Gardening and Landscaping</td></tr><tr><td>9</td><td>Mr. Ajay</td><td>Entrepreneurship</td></tr><tr><td>10</td><td>Dr. Uma</td><td>Media</td></tr><tr><td>11</td><td>Dr. Deepak Kumari</td><td>Culinary Skills</td></tr></tbody></table>	Sr. No.	Name	Club	1	Dr. Geetika	Outreach	2	Mr. Ravinder	Performing Arts	3	Mr. Manjeet	Sports and Fitness	4	Dr. Manju Lata	IT	5	Mr. Abhishek	Literary	6	Mr. V.M Bechain	Fine Arts	7	Dr. Shikha	Photography and Videography	8	Ms. Jaya Bhardwaj	Gardening and Landscaping	9	Mr. Ajay	Entrepreneurship	10	Dr. Uma	Media	11	Dr. Deepak Kumari	Culinary Skills
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11	Dr. Deepak Kumari	Culinary Skills																																			
13:00PM-14:00PM	Lunch																																				
14:00PM-14:10PM	Briefing on open elective by Dr. Ravi Prakash																																				
14:10PM-15:00PM	Presentation on open electives by concerned teachers																																				
15:00PM-15:30PM	General Discussion																																				
15:30PM-15:45PM	Tea Break																																				
15:45PM-16:00PM	Closing Remarks by Dean, Academics																																				
16:00PM-16:15PM	Certificate distribution																																				
16:15PM-16:20PM	Vote of Thanks by Dean, Colleges																																				

**Environmental Science**  
**19 BC- 304**

**Time: 3 Hours**

**Theory Paper : 80**  
**Internal marks: 20**

**Note:** - The Examiner shall set nine questions in all covering the whole syllabus. Question No.1 will be compulsory covering all the units and shall carry 8 small questions of 2 marks each. The rest of the eight questions will be set from all the four units. The examiner will set two questions from each unit out of which the candidate shall attempt four questions selecting one question from each unit. All the questions shall carry 16 marks each.

**Course Objective:** Environment is the field of science that studies the interactions of the physical, chemical, and biological components of the environment and also the relationships and effects of these components with the organisms in the environment.

**UNIT-I** Multidisciplinary nature of environmental studies: Definition, scope and importance Need for public awareness; Renewable and non-renewable resources: Forest resources, Water resources, Mineral resources, Food resources, Energy resources, Land resources, Role of an individual in conservation of natural resources, Equitable use of resources for sustainable lifestyles.

**UNIT-II** Ecosystems: Concept of an ecosystem, Structure and function of an ecosystem, Producers, consumers and decomposers, Energy flow in the ecosystem, Ecological succession, Food chains, food webs and ecological pyramids. Introduction, types, characteristic features, structure and function of the following ecosystem: Forest ecosystem, Grassland ecosystem, Desert ecosystem, Aquatic ecosystems.

**UNIT-III** Environmental Pollution: Cause, effects and control measures of - Air pollution, Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution, Nuclear hazards Solid waste Management: Causes, effects and control measures of urban and industrial wastes; Role of an individual in prevention of pollution. Disaster Management: floods, earthquake, cyclone and landslides.

**UNIT-IV** Social Issues and Environment: From Unsustainable to Sustainable development, Water conservation, rain water harvesting, watershed management. Environmental ethics: Issues and possible solutions, Climate change, global warming, acid rain, ozone layer depletion. Human Population and Environment: Population growth, Environment and human health, Role of Information Technology in Environment and human health.

**SUGGESTED READINGS:**(Latest Edition of books will be followed)

1. Joseph Benny, Environmental Studies, Tata McGraw Hill Publishing Company Ltd., New Delhi
2. Kaushik Anubha, C.P. Kaushik, Perspective in Environmental Studies, New Age International (P) Ltd. Publishers
3. Rajagopalan R, Environmental Studies, Oxford University Press, New Delhi
4. Ubaroi, N.K., Environment Management, Excel Books, New Delhi

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*07/07/2020*



B.Com Programme CBCS Department of Commerce, Ch. Bansi Lal University, Bhiwani

**Paper: Business Ethics**  
**19 BC- 406**

**Time: 3 Hours**

**Theory Paper: 80**  
**Internal marks: 20**

**Note:** - The Examiner shall set nine questions in all covering the whole syllabus. Question No.1 will be compulsory covering all the units and shall carry 8 small questions of 2 marks each. The rest of the eight questions will be set from all the four units. The examiner will set two questions from each unit out of which the candidate shall attempt four questions selecting one question from each unit. All the questions shall carry 16 marks each.

**Unit-I**

Business Ethics: meaning, nature and importance in business organizations, Linkages of the Stakeholders relationships, social responsibility and corporate Governance.

**Unit-II**

Emerging business ethics: Issues and institutionalization of business ethics. Ethical decision-making and ethical leadership, Individual values and philosophies, Organizational factors: corporate values and cultures, ethical culture and relationships.

**Unit-III**

Implementing Business Ethics: Developing an effective ethical program, Implementing and auditing ethical program. Business ethics in global economy.

**Unit-IV**

Business Sustainability: Ethical and social responsibility dimensions. Understanding techniques of moral reasoning and argumentations.

**Suggested Reading/s:**

1. Ferrell, O.C. Fraedrich, John, and Ferrell, Linda, "Business Ethics, Ethical Decision Making & Cases", Southwestern Cengage, 8th Edition, Prentice Hall, 2010.
2. Ferrell, O.C. Fraedrich, John, and Ferrell, Linda "Business Ethics: Ethical Decisionmaking and Cases", Southwestern Cengage, 9th Edition, Prentice Hall, 2012.
3. E-book available at- [http://fds.oup.com/www.oup.co.uk/pdf/he/hebuscat11/business\\_ethics\\_&\\_corporate\\_responsibility.pdf](http://fds.oup.com/www.oup.co.uk/pdf/he/hebuscat11/business_ethics_&_corporate_responsibility.pdf).

*Keetelo*  
07/07/2020  
**In-charge**  
**Department of Commerce**

**Indian Economy and Business Environment  
19BC-202**

**Internal Assessment: 20 Marks  
Theory Paper: 80 Marks**

**Time: 3Hrs.**

**Note:** The Examiner shall set nine questions in all covering the whole syllabus. Question No. 1 will be compulsory covering all the units and shall carry 8 small questions of 2 marks each. The rest of the 8 questions will be set from all the four units. The examiner will set 2 questions from each unit out of which the candidate shall attempt four questions selecting one question from each unit. All the questions shall carry 16 marks each.

**Unit – I**

Introduction to Business Environment: Meaning, Elements, Importance of Business Environment, Current Indian Business Environment  
Environmental Analysis: Objectives, Process, Environmental Limitations, SWOT / SWOC, ETOP Analysis with special reference to Indian Industry.

**Unit – II**

Dimensions of Business Environment: National Institution for Transforming India (NITI Aayog), Economic Environment.  
Balance of Trade & Balance of Payment: Definition, Difference between Balance of Trade & Balance of Payment, Uses, Components

**Unit – III**

Problems of Growth: Unemployment, Inflation, Industrial Sickness Regional Imbalances  
Industrial Policy: Meaning, Objectives, History, Industrial Policy for the Growth of Industries (latest)

**Unit- IV**

Economic Policies: Monetary Policy, Fiscal Policy, Liberalization, Privatisation & Globalisation  
International Economic Institutions: International Monetary Fund, World Trade Organisation, World Bank.

***Important Note: The paper should be taught with special reference to Indian Economy.***

**Text Books**

1. Economic Environment of Business (Macro Eco. Analysis), 7/e by H. L. Ahuja, S. Chand Publishing
2. Misra and Puri; Indian Economy; Himalaya Publishing House, New Delhi



**Business Communication Skills**  
**19BC-205**

**Internal Assessment: 20 Marks**  
**Theory Paper: 80 Marks**

**Time: 3 Hours**

**Note:** -The Examiner shall set nine questions in all covering the whole syllabus. Question No.1 will be compulsory covering all the units and shall carry 8 small questions of 2 marks each. The rest of the eight questions will be set from all the four units. The examiner will set two questions from each unit out of which the candidate shall attempt four questions selecting one question from each unit. All the questions shall carry 16 marks each.

**Unit-I**

Introduction: Basics of communication, Seven C's of effective communication, barriers to communication, ethical context of communication.

**Unit-II**

Business Communication at workplace: Letter writing- component, layout and process, E-mail communication, bad news messages, persuasive written communication, memos, notice, agenda and minutes of meeting.

**Unit-III**

Report Writing: Types of business reports, structure of reports, short reports, long reports, abstracts and summaries, proposals.

**Unit-IV**

Communication Skills: Reading skills, listening skills, note making, persuasive speaking. Body language, Gestures.

**Text Book**

*Murphy, Herta A., Herbert W. Hildebrandj and Jane P. Thomas, Effective Business Communication, Tata McGraw Hill, New Delhi.*

**Reference Books:**

1. *Konera Arun, Professional Communication, Tata McGraw Hill, New Delhi.*
2. *McGrath, E. H., Basic Managerial Skills for All, PHI, New Delhi.*
3. *Meenakshi Raman and Parkash Singh, Business Communication, Oxford University Press, New Delhi.*

**Human Resource Management**  
**19 BC- 303**

**Time: 3 Hours**

**Theory Paper : 80**

**Internal marks: 20**

**Note:** - The Examiner shall set nine questions in all covering the whole syllabus. Question No.1 will be compulsory covering all the units and shall carry 8 small questions of 2 marks each. The rest of the eight questions will be set from all the four units. The examiner will set two questions from each unit out of which the candidate shall attempt four questions selecting one question from each unit. All the questions shall carry 16 marks each.

**Unit-I**

An Introduction to Human Resource Management Definition, Importance objectives and scope of Human Resource Management (HRM). Functions of Human Resource Management: - Managerial and Operative Functions .Qualification and Qualities of Human Resource manager in an organization. Evolution and Growth of Human Recourse Management (HRM) in India, Emerging Challenges of HRM – work force diversity, downsizing, work life balance etc.

**Unit-II**

Recruitment Selection and Training, Recruitment: - Meaning, steps in recruitment policy, sources and modes of recruitment, Factors affecting recruitment. Selection: - Meaning, Essentials of Selection Procedure, Stages in Selection Procedure.

Training: - Concept, Need and importance of Training. Methods of Training: - On the job Training + off the job Training, Principles of training, Evaluation off training Programme in India. Job analysis, Job Description and Job specification.

**Unit-III**

Wage and Wage Incentives, Wages: - Meaning, Objective and Theories of wages, Methods of wage Payment: - Time wages and Piece wages methods Concept of wages: - Fair, Minimum and Living wage. Factors determining wage Structure of an organization, Essentials of satisfactory wage policy.

Wage Incentives: - Concept, Need and Importance of Incentives .Special Incentives, Essentials of Ideal Incentives system.

**Unit- IV**

Industrial Relations: - Concept, Importance and Objectives of industrial relations, Contents of industrial relations .Participants of Industrial relation and Recruitment of good Industrial relation Programme.

Industrial Unrest: - Meaning, Forms and Causes of industrial disputes, Impact of Industrial unrest on the Economy, preventive and curative methods and Agencies for Reconciliation of Industrial unrest. Labour courts for disputes in India.

Basic Understanding of Legal framework for the Empowerment of the Workers

**Suggested Reading/s:**

1. *Human Resource Management: Concepts and Issues*, by T.N. Chhabra, Dhanpat Rai & Co. New Delhi.

Kvishu  
07/07/2020  
In-charge  
Department of Commerce  
Ch. Bansi Lal University, Bhiwani

**Swachh Bharat**  
(Open Elective)

**18-UGC-100**

Credits-2

Contact hours per week – 2hrs.

Maximum Marks – 100

Theory/ External Examination -60 Marks

Practical- 20 Marks (Practical by external examiner)

Internal Assessment-20 Marks (Minor Test-10 Marks, Assignment- 5 Marks, Attendance -5 Marks)

Max. Time – 3 hrs

There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of Eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks i.e. 12 Marks.

**Unit – I**

- Explain Swacchhata,
- Ways of awareness for Swachhata
- Personal Hygeine

**Unit – II**

- Health and Health Education
- Balance diet and Sanitation practices

**Unit – III**

- Solid waste management, Segregation, Disposal
- Non-Biodegradable and Biodegradable waste

**Unit – IV**

- Compost pits, Biogas plants
- ways of campaigning
- Role of Gram panchayat in Swachhta

*Kutecho*

*Sanitary*

*Swachh*

**Chaudhary Bansi Lal University Bhiwani**

**B.COM III (6<sup>th</sup> Semester)- Vocational  
Advertising and Sales Promotion**

**Sales Force Management**

**PAPER CODE:19BCVA-605(A)**

**External: 80**

**Time: 3Hrs**

**Internal: 20**

**Note:** Examiner will be required to set NINE questions in all. Question Number 1 will consist of total 8 parts (short-answer type questions) covering the entire syllabus and will carry 16 marks. In addition to the compulsory question there will be four units i.e. Unit-I to Unit-IV. Examiner will set two questions from each Unit of the syllabus and each question will carry 16 marks. Student will be required to attempt FIVE questions in all. Question Number 1 will be compulsory. In addition to compulsory question, student will have to attempt four more questions selecting one question from each Unit.

**UNIT-I**

Development and Role of Selling in Marketing: Background, Types of Selling, The Marketing Concept, Relationship Between Sales and Marketing

**UNIT-II**

Sales Strategies: Sales and Marketing Planning, The Planning Process, Establishing Marketing Plans, The Place of Selling in the Marketing Plan

**UNIT-III**

Consumer and Organizational Buyer Behaviour: Difference between consumer and organizational buying, Consumer Buyer Behaviour, Factors Affecting Consumer Decision Making Process, Factors Affecting Organisational Buyer Behaviour

**UNIT-IV**

Sales Techniques: Personal Selling, Relationship Selling, Direct Marketing, Internet and IT Applications in Sales Force Management

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# SYLLABUS

## CH. BANSI LAL UNIVERSITY, BHIWANI B.A. - 1st Year

Core Course 1B English

Paper Code : 20UENG02

### ENGLISH (LANGUAGE AND LITERATURE-II)

#### Semester -II

Time : 3 Hrs.

Max. Marks : 100 (Theory 80 + Internal 20)

#### Objective :

To initiate the students into the world of literature through value based writings of Indian and English authors. To enhance the grammatical and writing skills of the students.

(The following topics from Prelude : A textbook for college students, Board of Editors, Orient BlackSwan)

#### Unit-I

"The Three Questions"  
"The Chicago Speech"  
"Work Brings Solace"  
"Why is the Sea Blue"

Leo Tolstoy  
Swami Vivekananda  
A.P.J. Abdul Kalam  
G. Venkataraman

#### Unit-II

"Where the Mind is without Fear"  
"Money Madness"  
"Leisure"

Rabindranath Tagore  
D.H. Lawrence  
W.H. Davies

#### Unit-III

The following basic Grammatical Concepts from *A Remedial English Grammar* by F.T. Wood:

- Chapter 2 : Agreement of Verb and Subject
- Chapter 7 : Confusion of Adjective and Adverb
- Chapter 10 : Difficulties with Comparatives and Superlatives
- Chapter 19 : Introductory There
- Chapter 20 : The Infinitive
- Chapter 21 : Anticipatory It with Noun Clauses and Adjective Clauses
- Chapter 22 : The Position of Adverbs
- Chapter 28 : The Use of Correlatives

#### Unit-IV

Facing an Interview, Presentation Skills, C.V./Resume Writing



# SYLLABUS

CH. BANSI LAL UNIVERSITY, BHIWANI

B.A. - 2nd Year

English Core Course 1D

Paper Code : 20UENG04

**ENGLISH (LANGUAGE AND LITERATURE-IV)**

Semester -IV

Time : 3 Hrs.

Max. Marks : 100 (Theory 80 + Internal 20)

**Objective :**

*To enhance the linguistic and literary skills of the students by making them familiar with the important literary works in different genres like modern prose, poetry, basic rules of Phonetics and Writing skills.*

### Unit-I

(The following selections from Short Stories of Yesterday and Today, Edited by Shiv K. Kumar)

Mulk Raj Anand	"The Gold Watch"
Raja Rao	"A Client"
Khushwant Singh	"Karma"
Manohar Malgonkar	"Upper Divison Love"

### Unit-II

The following selections from Fragrances: A Textbook of Poetry and Language Skills.

William Shakespeare	"Sonnet XVIII"
Alexander Pope	"Know Then Thyself"
William Wordsworth	"The World is Too Much with Us"
Sarojini Naidu	"The Bangle Sellers"

### Unit-III

**Basic Phonetics** : Familiarity with English sounds and their phonemic symbols. Transcription of words given in vocabulary section of Fragrances.

### Unit-IV

Composition

1. Precis
2. Unseen Passage for Comprehension
3. Translation





**Chaudhary Bansi Lal University, Bhiwani**  
**B.A. / B.Sc. / B. Com.**  
**Ability Enhancement Compulsory Course**  
**Environmental Studies**

Paper Code: 21EVS100

Max. Marks (Theory): 80

Nomenclature: Environmental Studies

Internal Evaluation (Field Work): 20

**Instruction to the paper setter:**

There will be 9 questions in all divided into 2 sections.

Section -I (10x3=30 marks) :There will be 15 short answer type questions (around 50 words each) covering the entire syllabus out of which students will be required to attempt 10 questions . Each question from this section will carry 3 marks.

Section -II (5x10=50 marks): There will be 8 long answer type questions (One from each unit) out of which students will be required to attempt any 5. Each question from this section will carry 10 marks.

**Instructions for Internal Evaluation of Field Work:**

Attendance:	05 marks*
Report of the Field Work:	10 marks
Viva Voce:	05 marks

\*Division of Marks for Attendance will be as under:

(i)	85% and above	05 marks
(ii)	80% to less than 85%	04 marks
(iii)	75% to less than 80%	03 marks
(iv)	65% to less than 75%	02 marks

**Unit 1**

**The Multidisciplinary nature of environmental studies**

**(2 lectures)**

Definition, scope and importance  
Need for public awareness.

**Unit 2**

**Natural Resources:**

**(8 lectures)**

**Renewable and non-renewable resources:**

*S. K. L.*

Natural resources and associated problems.

- a) **Forest resources:** Use and over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forests and tribal people
- b) **Water resources:** Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams-benefits and problems.
- c) **Mineral resources:** Use and exploitation, environmental effects of extracting and using mineral resources, case studies.
- d) **Food resources:** World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies
- e) **Energy resources:** Growing energy needs, renewable and non renewable energy sources, use of alternate energy sources. Case studies.
- f) **Land resources:** Land as a resource, land degradation, man induced landslides, soil erosion and desertification.
  - Role of an individual in conservation of natural resources.
  - Equitable use of resources for sustainable lifestyles.

### Unit 3

#### Ecosystems

(6 lectures)

- Concept of an ecosystem.
- Structure and function of an ecosystem.
- Producers, consumers and decomposers.
- Energy flow in the ecosystem.
- Ecological succession.
- Food chains, food webs and ecological pyramids.

Introduction, types, characteristic features, structure and function of the following ecosystem:-

- a. Forest ecosystem
- b. Grassland ecosystem
- c. Desert ecosystem
- d. Aquatic ecosystems (ponds, streams, lakes, rivers, oceans, estuaries)

### Unit 4

#### Biodiversity and its conservation

(8 lectures)

S. h h h



- Introduction — Definition: genetic, species and ecosystem diversity.
- Biogeographical classification of India
- Value of biodiversity : consumptive use, productive use, social, ethical, aesthetic and option values
- Biodiversity at global, National and local levels.
- India as a mega-diversity nation
- Hot-spots of biodiversity.
- Threats to biodiversity : habitat loss, poaching of wildlife, man-wildlife conflicts.
- Endangered and endemic species of India
- Conservation of biodiversity : In-situ and Ex-situ conservation of biodiversity.

### Unit 5

#### Environmental Pollution Definition

(8 lectures)

- Causes, effects and control measures of :-
  - a) Air pollution
  - b) Water pollution
  - c) Soil pollution
  - d) Marine pollution
  - e) Noise pollution
  - f) Thermal pollution
  - g) Nuclear hazards
- Solid waste Management: Causes, effects and control measures of urban and industrial wastes.
- Role of an individual in prevention of pollution.
- Pollution case studies.
- Disaster management : floods. earthquake. cyclone and landslides.

### Unit 6

#### Social Issues and the Environment

(7 lectures)

- From Unsustainable to Sustainable development
- Urban problems related to energy
- Water conservation, rain water harvesting, watershed management
- Resettlement and rehabilitation of people ; its problems and concerns. Case studies.
- Environmental ethics : Issues and possible solutions.
- Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case studies.
- Wasteland reclamation.
- Consumerism and waste products.

*S. K. L.*

- Environment Protection Act.
- Air (Prevention and Control of Pollution) Act.
- Water (Prevention and control of Pollution) Act
- Wildlife Protection Act
- Forest Conservation Act
- Issues involved in enforcement of environmental legislation.
- Public awareness.

### Unit 7

#### Human Population and the Environment

(6 lectures)

- Population growth, variation among nations.
- Population explosion — Family Welfare Programme.
- Environment and human health.
- Human Rights.
- Value Education.
- HIV / AIDS.
- Women and Child Welfare.
- Role of Information Technology in Environment and human health.

### Unit 8

#### Field work

(Field work equals to 5 lectures all)

- Visit to a local area to document environmental assets- river/forest/grassland/hill/mountain
- Visit to a local polluted site — Urban / Rural / Industrial / Agricultural
- Study of common plants, insects, birds.
- Study of simple ecosystems-pond, river, hill slopes, etc.

S. H. L.

बी.ए. हिन्दी अनिवार्य  
(सेमेस्टर-चतुर्थ)  
हिन्दी गद्य साहित्य

विषय कोड-20UHND401-C

क्रेडिट : 04  
पूर्णांक : 100  
लिखित : 80  
आन्तरिक मूल्यांकन  
समय : 3 घण्टे

निर्देश :-

1. पहला प्रश्न अनिवार्य है, जिसमें पूरे पाठ्यक्रम से आठ लघुतरी प्रश्न पूछे जाएंगे।  $8 \times 2 = 16$  अंक।
2. दूसरे प्रश्न के अन्तर्गत प्रत्येक इकाई से दो-दो प्रश्न पूछे जाएंगे, जिनमें से एक-एक प्रश्न करना होगा।  $10 \times 4 = 40$  अंक।
3. पाठ्यक्रम में निर्धारित (हिन्दी गद्य साहित्य) आठ रचनाकारों में से पाँच व्याख्याएँ पूछी जाएंगी, जिनमें से तीन व्याख्याएँ -  $8 + 8 + 8 = 24$  अंक।

इकाई-1

- 1.1 जैनेन्द्र कुमार : व्यक्तित्व एवं कृतित्व
- 1.2 उपन्यास : त्यागपत्र-पाठपरक अध्ययन
- 1.3 त्यागपत्र : तात्त्विक समीक्षा

इकाई-2

- 2.1 प्रेमचन्द, जयशंकर प्रसाद, यशपाल एवं उषा प्रियंवदा का व्यक्तित्व एवं कृतित्व
- 2.2 निम्नलिखित कहानियों का पाठपरक अध्ययन
- 2.3 कहानी :  
नमक का दरोगा- प्रेमचन्द  
आकाशदीप - जयशंकर प्रसाद  
परदा- यशपाल  
बापरी- उषा प्रियंवदा
- 2.4 उपर्युक्त कहानियों की तात्त्विक समीक्षा

इकाई-3

- 3.1 रामचन्द्र शुक्ल तथा हजारी प्रसाद द्विवेदी का व्यक्तित्व एवं कृतित्व
- 3.2 निम्नलिखित निबंधों का पाठपरक अध्ययन  
निबंध :  
लोक और प्रीति - रामचन्द्र शुक्ल  
कुटज-हजारी प्रसाद द्विवेदी
- 3.3 उपर्युक्त निबंधों की निबन्ध-कला

इकाई-4

- 4.1 महादेवी वर्मा तथा प्रभा खेतान का व्यक्तित्व एवं कृतित्व
- 4.2 निम्नलिखित लेखों का पाठपरक अध्ययन  
युद्ध और नारी (शृंखला की कड़ियों से) - महादेवी वर्मा  
आधी दुनिया का श्रम और भूमण्डलीकरण-प्रभा खेतान (उपनिवेश में स्त्री से)
- 4.3 उपर्युक्त लेखों की समीक्षा

7



बी.ए. हिन्दी अनिवार्य  
(सेमेस्टर-तृतीय)  
आधुनिक हिन्दी कविता

7

विषय कोड-20UHND301-C

क्रेडिट : 04  
पूर्णांक : 100  
लिखित : 80  
आन्तरिक मूल्यांकन : 20  
समय : 3 घण्टे

निर्देश :-

1. पहला प्रश्न अनिवार्य है। पूरे पाठ्यक्रम से आठ लघुप्रश्न प्रश्न पूछे जाएंगे।  $8 \times 2 = 16$  अंक।
2. दूसरे प्रश्न के अन्तर्गत प्रत्येक इकाई से दो-दो प्रश्न पूछे जाएंगे, जिनमें से एक-एक प्रश्न करना होगा।  $10 \times 4 = 40$  अंक।
3. पाठ्यक्रम में निर्धारित (आधुनिक हिन्दी कविता) आठ कवियों की कविताओं में से पाँच व्याख्याएँ पूछी जाएंगी, जिनमें से तीन व्याख्याएँ करनी होंगी  $8 + 8 + 8 = 24$  अंक।

इकाई-1

- 1.1 भारतेन्दु हरिश्चन्द्र तथा अयोध्यासिंह उपाध्याय 'हरिऔध' का व्यक्तित्व एवं कृतित्व: सामान्य परिचय
- 1.2 भारतेन्दु हरिश्चन्द्र की कविताएँ : निज भाषा उन्नति अहै, प्रेम माधुरी।
- 1.3 अयोध्यासिंह उपाध्याय 'हरिऔध' की कविता : पवनदूती

इकाई-2

- 2.1 मैथिलीशरण गुप्त तथा जयशंकरप्रसाद का व्यक्तित्व एवं कृतित्व : सामान्य परिचय
- 2.2 मैथिलीशरण गुप्त की कविताएँ: यशोधरा महाकाव्य से यशोधरा भाग, भारत-भारती के प्रथम खण्ड से आर्द्र स्त्रियाँ, संदेश यहाँ मैं नहीं स्वर्ग का लाया
- 2.3 जयशंकर प्रसाद की कविताएँ : अन्दा सर्ग, द्विमादि तुंग श्रुंग, बीती विभावरी जगमगी

इकाई-3

- 3.1 सूर्यकान्त त्रिपाठी निराला तथा महादेवी वर्मा का व्यक्तित्व एवं कृतित्व : सामान्य परिचय
- 3.2 सूर्यकान्त त्रिपाठी निराला की कविताएँ : किधवा, वीणा वादिनी, जागो फिर एक बार
- 3.3 महादेवी वर्मा की कविताएँ : कह दे माँ अब क्या देखूँ, कौन तुम मेरे हृदय में, मैं नीर भरी सुख की बदली, ये मुरझाते फूल

इकाई-4

- 4.1 नागार्जुन तथा नरेश मेहता का व्यक्तित्व एवं कृतित्व : सामान्य परिचय
- 4.2 नागार्जुन की कविताएँ : उनको प्रणाम, गुलाबी चुड़ियाँ
- 4.3 नरेश मेहता की कविताएँ : समय देवता, अरण्यानी से वापसी

संदर्भित पुस्तकें

1. डॉ. कैलाश वाजपेयी, आधुनिक हिन्दी कविता में शिल्प, आत्माराम एण्ड सन्स, नई दिल्ली, संस्करण-1963।
2. प्रकाश आतुर, राष्ट्रकवि मैथिलीशरण गुप्त : एक पुनर्मुल्यांकन, राजस्थान साहित्य अकादमी, जयपुर, संस्करण-1987।
3. रामशुमार, आधुनिक हिन्दी कविता का वैचारिक पक्ष, विश्वविद्यालय प्रकाशन, वाराणसी, संस्करण-2000।
4. विश्वनाथ प्रसाद तिवारी, हिन्दी कवित्व के सौ वर्ष, साहित्य अकादमी, नई दिल्ली, संस्करण-2010।
5. डॉ. नंद किशोर गजल, आधुनिक हिन्दी कविता का इतिहास, भारतीय ज्ञानपीठ, नई दिल्ली, संस्करण-2012।
6. लीलाधर संदलोई, कविता के सौ वर्ष, शिल्पायन, नई दिल्ली, संस्करण-2013।
7. संपादक, सदानंद शाही, अयोध्यासिंह उपाध्याय 'हरिऔध', वाणी प्रकाशन, नई दिल्ली, संस्करण-2016।





DSE IIB (Semester VI)  
**ECOLOGY AND EVOLUTION (20UZOO604)**  
 THEORY (Credits 2)

**Max Marks: 100** [80 (Theory) +10 (Internal Assessment) +10 (Field Report)]  
 Time Allotted: 3 hours

Note: Nine questions to be set in all and all the candidates are required to attempt five questions including compulsory question.

1. Question number 1 is compulsory constituting of 8 parts (2 Mark each) covering the entire syllabus.
2. Out of the remaining eight questions (16 marks each), two questions are to be set from each Unit, splitting them in parts. Candidate is required to attempt four questions, selecting one question from each unit.

Unit I

History of ecology, Autecology and synecology, Levels of organization, Laws of limiting factors, Study of biotic and abiotic factors, Unique and group attributes of population: Density, natality, mortality, fecundity, survivorship curves, age ratio, sex ratio, dispersal and dispersion

Unit II

Community characteristics: species richness, dominance, diversity, abundance, vertical stratification, Ecological Niche, Ecotone and edge effect; Ecological succession with one example. Types of ecosystems with one example in detail, Food chain; Detritus and grazing food chains, Food web, Energy flow through the ecosystem, Ecological pyramids

Unit III

Origin of species, Lamarckism, Darwinism, Neo-Darwinism, Evidences of Evolution: Geological time scale, Neutral theory of molecular evolution, Natural selection, Genetic Drift

Unit IV

Population genetics: Hardy-Weinberg Law, Founder's effect, Bottleneck phenomenon; Species concept, Isolating mechanisms, modes of speciation—allopatric, sympatric, Adaptive radiation / macroevolution, Origin and evolution of man and horse.

**SUGGESTED READINGS**

1. Fundamentals of Ecology (5<sup>th</sup> Edition) by W.B. Odum, E.P. Saunders, Toppan Co. Ltd., Tokyo, Japan. (1963 1<sup>st</sup> Edition).
2. Environmental biology and toxicology by P.D. Sharma (2014), Rastogi Publication.
3. Concepts of Ecology by Edward J. Korondy (4<sup>th</sup> Edition) (2017); Prentice Hall of India (Pvt.) Ltd.
4. Ecology: from individuals to ecosystem (4<sup>th</sup> Edition) by Michael Begon, Colen R, Harper 2005.
5. *Organic Evolution* by Veer Bala Rastogi, Published by MEDTECH (2016).
6. *Principles of Systematic Zoology* by E. Mayr and P. D. Ashlock, Tata McGraw Hill Publishing Co. Ltd., New Delhi; 1991.

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**M.Sc.-CHEMISTRY  
SEMESTER-III****22CHE-310: Organic Chemistry Special-III  
Advanced topics in Organic Chemistry**

Maximum Marks: 100  
Theory Examination: 80  
Internal Assessment: 20  
Max. Time: 3 hrs.

**Note:** *There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.*

**Unit-I**

**Green Chemistry I:** Principle of Green chemistry and its applications: Basic Principle and need of green chemistry, Different tools for green synthesis (Elementary idea of green reagent, green solvent, green catalyst) atom economy, Role of biocatalysts in green synthesis – enzyme catalyzed oxidation, reduction and hydrolytic reactions, synthesis involving basic principle of green chemistry-synthesis of adipic acid and BHC synthesis of Ibuprofen. Principles of ultrasound and microwave assisted organic synthesis.

**Unit II**

**Green Chemistry II:** Renewable energy resources: fossil fuels, biomass, solar power, fuel cell; chemical from renewable feedstocks and fatty acid, polymer from renewable resources, some other chemicals from natural resource. Waste management: production, problem and prevention- Introduction, source of waste from chemical industry, waste minimization techniques, onsite waste treatment, design for degradation of DDT & surfactant, polymer recycling.

**Unit III**

**Chromatography:** Types. Ion exchange chromatography, planar chromatography - paper and Thin Layer Chromatography, Stationary and mobile phases, Gas chromatography – Theory, instrumentation and applications. Liquid-liquid partition chromatography, High Performance Liquid Chromatography (HPLC), Reverse phase chromatography, Hyphenated techniques- GCMS and LCMS.

**Unit IV**

**Computational Chemistry:** Introduction, history, approximations to the Schrödinger equation – basic idea of the Hartree–Fock method, electron correlation – post Hartree–Fock methods, density functional theory, computational approaches to solvation, application of these methods in computation of: spectral properties





**M.Sc.-CHEMISTRY**  
**SEMESTER-IV****22CHE-409: Organic Chemistry Special-VI**  
**Chemistry of Natural Products**

Maximum Marks: 100  
Theory Examination: 80  
Internal Assessment: 20  
Max. Time: 3 hrs.

*Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Student will have to attempt one question from each unit. Each question shall carry equal marks.*

**Unit-I**

**Alkaloids:** Definition, nomenclature and physiological action, occurrence, isolation Structure elucidation of alkaloids – a general account; degradation, classification based on nitrogen heterocyclic ring, role of alkaloids in plants. Structure, stereochemistry, synthesis of the following: Ephedrine, (+)-Conine, Nicotine, Quinine, and Reserpine.

**Unit -II**

**Terpenoids:** Classification, general aspects of structure determination of terpenoids, biogenetic isoprene rule. Structure, stereochemistry, synthesis of Geraniol,  $\alpha$ -terpeneol,  $\alpha$ -pinene, camphor.

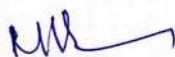
**Carotenoids:** General method of structure elucidation and synthesis of  $\beta$ -carotene, Vitamin A and Abietic acid.

**Unit-III**

**Steroids:** Isolation, nomenclature basic skeleton, Diel's hydrocarbon, stereochemistry, structural elucidation with special reference to Cholesterol, Bile acid and cardiac glycosides. Synthesis of Testosterone from Cholesterol, Synthesis of Progesterone from Cholesterol, Prostaglandins: Introduction, nomenclature and biological role of prostaglandins. Synthesis of PGE<sub>2</sub> and PGF<sub>2</sub> $\alpha$

**Unit -IV**

**Natural Pigments:** Occurrence nomenclature and general methods of structure determinations, isolation and synthesis of Cyanin, Quercetin, Diadzein, and Chrysin. Biosynthesis of Flavonoids: Acetate path way and shikimic acid pathway.





**M.Sc.-CHEMISTRY  
SEMESTER-IV****21ENG100  
Communication Skills****Maximum Marks: 100  
Theory Examination: 80  
Internal Assessment: 20  
Max. Time: 3 hrs.**

*Note: There shall be nine questions in all. Question no. 1 shall be compulsory, consisting of eight short answer type questions covering the entire syllabus. Two questions will be asked from each unit. Students will have to attempt one question from each unit, All questions shall carry equal Marks.*

**Objectives:**

1. To familiarize the students with the nature and importance of communication
2. To orient the students towards theory and practice of Communication Skills
3. To impart knowledge of common courtesies and conversational practices
4. To acquaint the students with positive attributes of personality

**Course Outcomes:**

1. Students should be able to understand the nature and importance of Communication Skills,
2. Students would gain knowledge of common courtesies and conversational practices in various situations.
3. Students would be acquainted with the knowledge of skills necessary for Personality Development
4. Students would be able to demonstrate the skills and knowledge of effective communication.

**Unit-I****Human Communication:**

Verbal and non-verbal communication. Barriers to communication; Seven c's of effective Communication. Types of Communication (Self-communication, interpersonal communication, Small group communication, Mass communication). Preparing for interviews. CV/ Résumé.

**Common Courtesies:**

Introducing Oneself formally and informally. Introducing oneself on social media, Making requests. Asking and giving permission. Offering help, Giving instructions and directions, Art of small talk. Making enquiries, Recommendation.

**Unit-II****Speaking Skills:**

Public speaking- Introduction, Welcome and introductory speech, Vote of thanks speech. Farewell speech, Audience analysis.

**Conversational Practice in Various Situations:**

Quitting and finding jobs. office conversations, conversations about school/ college/ university, the English class

etc. (Students shall develop dialogue-based conversations on the given situations).

### Unit-III

#### Personality Development Skills:

Personal grooming; Assertiveness; Significance of critical thinking; Confidence building; SWOC analysis.

**Group discussion:** Introduction. Opening and summarising group discussion, Some tips for group discussion

### Unit-IV

#### Writing Skills:

Email writing: Guiding principles for composition, Maintaining common etiquette. Correspondence (personal, business); Writing: Tips for developing good writing style, Writing research article, Plagiarism.

#### Professional Presentation:

Preparing PPT's and delivering presentation- Rehearsal. Body language, Handling questions.

#### Suggested Readings:

1. Dutt, P. Kirammai & Rajeevan, G., *A Course in Communication Skills*, Foundation Books, CUP, (2016)
2. M. Ashraf Rizvi, *Effective Technical Communication*, Tata Mc Graw — Hill Publishing Co.
3. Kumar, S.& Lata, P., *English for Effective Communication*, OUP (2016)
4. Mohan, K. & Banerji, M., *Developing Communication Skills*, Trinity Press 2<sup>nd</sup> ed. (2013)
5. Edmond H. Weiss, *Writing Remedies - Practical Exercises for Technical Writing*, University Press (India) Ltd. Hyderabad (2000)



## GENERAL INSTRUCTIONS

### Summer Training

#### **Objective:**

The objective of Summer training is to render the students to work environment in the field of Chemistry at industry, academic institute and research institute. It helps them to learn the latest technologies, skills, methodologies and to build a strong foundation for their career growth. It will provide learning platform to students where they can enhance their ability, skills and become job ready. Particularly, Summer training program will:

- i) enable the students to get important tips from the professionals to gain valuable practical experience.
- ii) test the students' career interest.
- iii) provide the students with in depth knowledge about career field.
- iv) develop the students' job related skills.
- v) enhance relationship between the chemistry department and public as well as private sectors.

#### **Outcome:**

- i) Capability to acquire and apply fundamental principles of chemistry.
- ii) Become master in one's specialization.
- iii) Become updated with all latest changes occurring in particular field.
- iv) Capability and enthusiasm for self-improvement through professional development and lifelong learning.
- v) Awareness of the social, cultural, global and environmental responsibility as a chemist.

### Duration of Summer Training

The Summer/Industrial training will comprise of 3-4 weeks.

### Evaluation of Summer Training

Summer Training will be evaluated as per the Performa mentioned below: -