

Part A – Introduction			
Subject	Business Administration		
Semester	II		
Name of the Course	Business Statistics		
Course Code	B23-BBA-201		
Course Type: (CC/MCC/MDC/CC- M/DSEC/VOC/DSE/PC/AEC/VAC)	CC-A2		
Level of the course (As per Annexure-I)	Foundation-Level		
Pre-requisite for the course (if any)	None		
Course Learning Outcomes (CLO):	<p>After completing this course, the learner will be able to:</p> <ol style="list-style-type: none"> 1. Understand the meaning of the statistics and data in everyday life and its presentation for business decision making. 2. Understand distinctive features and characteristics of data with the help of descriptive and summary statistical measures. 3. Understand and analyses the departure from statistical normality of data for better business decision making. 4. Understand the significance of sampling in the statistical data collection and applications in business decision making. <p>5*.</p>		
Credits	Theory	Practical	Total
	4	0	4
Contact Hours	60	0	60
Max. Marks: 100 Internal Assessment Marks: 30 End Term Exam Marks: 70		Time: 3 Hours	

Part B- Contents of the Course		
<u>Instructions for Paper- Setter</u>		
<p>The Paper-Setter shall set <i>nine</i> questions in all and the question paper shall be divided into two parts. Part 'A' shall comprise <i>four</i> short answer type questions from the whole of the syllabus carrying 3.5 marks each, which shall be compulsory. Part 'B' shall comprise <i>eight</i> questions (<i>two</i> questions from each unit) carrying 14 marks each and the student will be required to attempt <i>four</i> questions selecting <i>one</i> question from each unit.</p>		
Unit	Topics	Contact Hours
I	Business Statistics: Introduction, Scope, Functions, Importance, Limitations; Distrust of Statistics; Collection of Primary and Secondary data; Types of Statistical Methods; Data Analysis and Interpretation; Graph: Characteristics, Types, Merits and Demerits.	15
II	Measures of Central Tendency: Meaning, Types; Arithmetic Mean; Geometric Mean; Harmonic Mean; Quadratic Mean; Moving Average; Progressive Average; Relation between Mean, Median and mode.	15
III	Measures of Dispersion and Skewness: Absolute and Relative measures of Dispersion range, Quartile deviation, Mean and Standard Deviation; Difference between Skewness and Dispersion, Empirical relation among various measures of Dispersion, Moments and Kurtosis.	15
IV	Sampling: Introduction, Census versus Sample, Errors in Sampling, Types of sampling, Judging reliability of sample; Index numbers: Introduction, Types of Index Numbers, Methods of constructing Index numbers, uses of Index numbers; Time Series analysis: Components and Seasonality analysis.	15
V*		
Suggested Evaluation Methods		
Internal Assessment: > Theory ● Class Participation: 5 ● Seminar/presentation/assignment/quiz/class test etc.: 10 ● Mid-Term Exam: 15 > Practicum ● Class Participation: ● Seminar/Demonstration/Viva-voce/Lab records etc.: ● Mid-Term Exam:		End Term Examination: 70

Part C-Learning Resources

Recommended Books/e-resources/LMS:

1. D. N Elhance, Veena Elhance & BM Aggarwal. *Fundamentals of Statistics*. Kitab Mahal.
2. T.N Srivastava and Shailaja Rego. *Statistics for Management*. McGraw Hill.
3. S.C Gupta. *Fundamental of Statistics*. Himalaya Publishing House.
4. Levine & Rubin. *Statistics for Management*. Pearson Publication.
5. S.P Gupta. *Statistical Methods*. Sultan Chand & Sons.

Part A – Introduction			
Subject	Business Administration		
Semester	II		
Name of the Course	Managerial Economics		
Course Code	B23-BBA-202		
Course Type: (CC/MCC/MDC/CC- M/DSEC/VOC/DSE/PC/AEC/VAC)	CC-B2		
Level of the course (As per Annexure-I)	Foundation-Level		
Pre-requisite for the course (if any)	None		
Course Learning Outcomes (CLO):	<p>After completing this course, the learner will be able to:</p> <ol style="list-style-type: none"> 1. Understand the nature and scope of managerial economics and identify the role of economics in decision making. 2. Understand theory of demand, law of demand and cardinal utility analysis. 3. Understand theory of production, costs, and revenue function. 4. Understand theory of firm and market organization including determination of price under different market conditions. <hr/> <p>5*.</p>		
Credits	Theory	Practical	Total
	4	0	4
Contact Hours	60	0	60
Max. Marks: 100 Internal Assessment Marks: 30 End Term Exam Marks: 70		Time: 3 Hours	

Part B- Contents of the Course		
<u>Instructions for Paper- Setter</u>		
<p>The Paper-Setter shall set <i>nine</i> questions in all and the question paper shall be divided into two parts. Part 'A' shall comprise <i>four</i> short answer type questions from the whole of the syllabus carrying 3.5 marks each, which shall be compulsory. Part 'B' shall comprise <i>eight</i> questions (<i>two</i> questions from each unit) carrying 14 marks each and the student will be required to attempt <i>four</i> questions selecting <i>one</i> question from each unit.</p>		
Unit	Topics	Contact Hours
I	Managerial Economics: Meaning, Nature and Scope. Objectives of the firm, Equilibrium, Utility, Opportunity cost, Marginal and Incremental Principles.	15
II	Theory of Demand: Nature of demand for a product, individual demand, market demand, determinants of demand, Law of demand, Elasticity of demand and its determinants; Theory of Consumer Behavior: Cardinal utility analysis, Indifference curve analysis, applications of Indifference curves.	15
III	Theory of Production and Costs: The concept of Production function, production with one and two variable inputs, theory of Cost in short run and long run, Revenue function.	15
IV	Theory of firm and market organization: Pricing under Perfect Competition, Pricing under Monopoly, Price Discrimination, Pricing under Monopolistic Competition, Selling cost, Pricing under Oligopoly.	15
V*		
Suggested Evaluation Methods		
Internal Assessment: > Theory ● Class Participation: 5 ● Seminar/presentation/assignment/quiz/class test etc.: 10 ● Mid-Term Exam: 15 > Practicum ● Class Participation: ● Seminar/Demonstration/Viva-voce/Lab records etc.: ● Mid-Term Exam:		End Term Examination: 70

Part C-Learning Resources

Recommended Books/e-resources/LMS:

1. Koutsoyiannis, A.: *Modern Microeconomics*; Palgrave Macmillan.
2. Varshney, R. L. and Maheshwari, K. L.: *Managerial Economics*; Sultan Chand & Sons.
3. Mote, V., Paul, S., and Gupta, G.: *Managerial Economics*; McGraw Hill Education.

*Applicable for courses having practical component.

Part A – Introduction			
Subject	Business Administration		
Semester	II		
Name of the Course	Organisational Behaviour		
Course Code	B23-BBA-203		
Course Type: (CC/MCC/MDC/CC- M/DSEC/VOC/DSE/PC/AEC/VAC)	CC-C2		
Level of the course (As per Annexure-I)	Foundation-Level		
Pre-requisite for the course (if any)	None		
Course Learning Outcomes (CLO):	After completing this course, the learner will be able to: 1. Understand the Nature, Evolution of Organisational Behaviour. 2. Understand the process of group formation and role of Groups at workplace. 3. Discover and Understand the concept of Motivation and Leadership theories 4. Comprehend the latest changes happening in the field of Organisational Behaviour. _____ 5*.		
Credits	Theory	Practical	Total
	4	0	4
Contact Hours	60	0	60
Max. Marks: 100 Internal Assessment Marks: 30 End Term Exam Marks: 70		Time: 3 Hours	

Part B- Contents of the Course		
<u>Instructions for Paper- Setter</u>		
<p>The Paper-Setter shall set <i>nine</i> questions in all and the question paper shall be divided into two parts. Part 'A' shall comprise <i>four</i> short answer type questions from the whole of the syllabus carrying 3.5 marks each, which shall be compulsory. Part 'B' shall comprise <i>eight</i> questions (<i>two</i> questions from each unit) carrying 14 marks each and the student will be required to attempt <i>four</i> questions selecting <i>one</i> question from each unit.</p>		
Unit	Topics	Contact Hours
I	Organizational Behaviour: Definition, Fundamental concepts of OB, Historical Background.	15
II	Motivation: Definition, Importance, Motives, Characteristics, Content Theories of Motivation Morale - Definition and relationship with productivity - Morale Indicators.	15
III	Theories of Leadership -Trait Theory, Behavioural theories, Contingency Theories, Transactional Theories and Transformational Leadership Theory.	15
IV	Group Dynamics and Team building: Concept of Group & Team. Theories of Group Formation – Types of Groups. Importance of Team building at workplace.	15
V*		
Suggested Evaluation Methods		
Internal Assessment: > Theory ● Class Participation: 5 ● Seminar/presentation/assignment/quiz/class test etc.: 10 ● Mid-Term Exam: 15 > Practicum ● Class Participation: ● Seminar/Demonstration/Viva-voce/Lab records etc.: ● Mid-Term Exam:		End Term Examination: 70

Part C-Learning Resources

Recommended Books/e-resources/LMS:

1. Robbins, S. P. and Sanghi. *Organizational Behaviour*. Pearson Education.
2. Robbins, S. P. and Judge T. A. Vohra; *Organisational Behaviour*. Pearson Education.

*Applicable for courses having practical component.

Part A - Introduction			
Subject	Business Administration		
Semester	II		
Name of the Course	Business Mathematics-II		
Course Code	B23-BBA-204		
Course Type: (CC/MCC/MDC/CC- M/DSEC/VOC/DSE/PC/AEC/VAC)	CC-M2		
Level of the course (As per Annexure-I)	Foundation-Level		
Pre-requisite for the course (if any)	None		
Course Learning Outcomes (CLO):	After completing this course, the learner will be able to: 5. Understand the application of Average, Ratio and Proportion, Percentage, Profit and Loss, Commission, Discount, Broke of Matrixrage in business organisation. 6. Understand simple interest and compound interest and annuities. 7. Understand indices & logarithms. 8. Understand aapplications of linear programming in solving business problems. 5*.		
Credits	Theory	Practical	Total
	2	0	2
Contact Hours	30	0	30
Max. Marks: 50 Internal Assessment Marks: 15 End Term Exam Marks: 35		Time: 3 Hours	

Part B- Contents of the Course

Instructions for Paper- Setter

The Paper-Setter shall set *nine* questions in all and the question paper shall be divided into two parts. **Part 'A'** shall comprise *four* short answer type questions from the whole of the syllabus carrying 1.75 marks each, which shall be compulsory. **Part 'B'** shall comprise *eight* questions (*two* questions from each unit) carrying 7 marks each and the student will be required to attempt *four* questions selecting *one* question from each unit.

Unit	Topics	Contact Hours
I	Average, Ratio and Proportion, Percentage, Profit and Loss, Commission, Discount, Broke of Matrixrage.	8
II	Simple interest and compound interest. Annuities: Types of annuities, Present value and amount of an annuity (including the case of continuous compounding), Valuation of simple loans and debentures, Problems related to sinking funds.	8
III	Indices & logarithms, arithmetic and geometric progressions and their business applications; sum of first n natural numbers, sum of squares and cubes of first n natural numbers.	7
IV	Linear Programming: Formulation of linear programming problems (LPP) and their solution by graphical and simplex methods. Applications of linear programming in solving business problems.	7
V*		

Suggested Evaluation Methods

Internal Assessment: <ul style="list-style-type: none">> Theory<ul style="list-style-type: none">● Class Participation: 4● Seminar/presentation/assignment/quiz/class test etc.: 4● Mid-Term Exam: 7> Practicum<ul style="list-style-type: none">● Class Participation:● Seminar/Demonstration/Viva-voce/Lab records etc.:● Mid-Term Exam:	End Term Examination: 35
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Part C-Learning Resources

Recommended Books/e-resources/LMS:

8. E. Don and J. Lerner (2009). Schaum's outline of Basic Business Mathematics (2nd Edition). McGraw Hill.
9. L.N.Paul (2002). Linear Programming: an introductory analysis. Tata Mcgraw Hill. New.

*Applicable for courses having practical component.

Part A – Introduction			
Subject	Business Administration		
Semester	II		
Name of the Course	Business Communication		
Course Code	B23-SEC-214		
Course Type: (CC/MCC/MDC/CC- M/DSEC/VOC/DSE/PC/AEC/VAC)	SEC-2		
Level of the course (As per Annexure-I)	Foundation-Level		
Pre-requisite for the course (if any)	None		
Course Learning Outcomes (CLO):	<p>After completing this course, the learner will be able to:</p> <ol style="list-style-type: none"> 1. To define and outline all four business communication skills i.e. reading, writing, speaking and listening 2. To apply and demonstrate the gathered knowledge about the business communication regarding both inter and intra organizational situations 3. To distinguish and examine the necessary techniques and skills that help them in communicating effectively for handling organizational issues. 4. To design and develop their methods and ways in transmitting information within and outside the organizations in the most effective manner. 5*. 		
Credits	Theory	Practical	Total
	3	0	3
Contact Hours	45	0	45
Max. Marks: 75 Internal Assessment Marks: 25 End Term Exam Marks: 50		Time: 3 Hours	

Part B- Contents of the Course		
<u>Instructions for Paper- Setter</u>		
<p>The Paper-Setter shall set <i>nine</i> questions in all and the question paper shall be divided into two parts. Part 'A' shall comprise <i>four</i> short answer type questions from the whole of the syllabus carrying 2.5 marks each, which shall be compulsory. Part 'B' shall comprise <i>eight</i> questions (<i>two</i> questions from each unit) carrying 10 marks each and the student will be required to attempt <i>four</i> questions selecting <i>one</i> question from each unit.</p>		
Unit	Topics	Contact Hours
I	Introduction to the Communication: Meaning, Nature, scope and Process of communication, Importance of Effective Business Communication, Objectives of Business Communication, Types/Pattern of Business Communication; Media/Channels of Business Communication; Barriers to Business Communication.	12
II	Written Communication- (a) Business Letter Writing, (b) Business Report Writing: Importance, Need, Types, Techniques, Language, Structure, Planning and Drafting Written Communication; Preparing Official Communication, Circular, Notification, Amendment, Press Communiqué, DO letter, Telegram.	11
III	Oral Communication: Interviewing-Art of effective interviewing, Types of Interviewing, Techniques of Interviewing, Qualities of Interviewer and Interviewee, Planning of Interviewing, Process of Interviewing. Communicating within groups.	11
IV	Audio visual Communication: Role of Audio-Visual Communication, Channels of Audio-Visual Communication, Importance of Body language in non-verbal communication; Role of Public Relation in Business Communication	11
V*		
Suggested Evaluation Methods		
Internal Assessment: > Theory ● Class Participation: 05 ● Seminar/presentation/assignment/quiz/class test etc.: 07 ● Mid-Term Exam: 13 > Practicum ● Class Participation: ● Seminar/Demonstration/Viva-voce/Lab records etc.: ● Mid-Term Exam:		End Term Examination: 50

Part C-Learning Resources

Recommended Books/e-resources/LMS:

1. Murty, C.V.S., Rai, Urmila and S.M. Rai, Business Communication, Himalaya Publishing House, Mumbai.
2. Koneru, Arun, Professional Communication, Tata McGraw Hill, New Delhi.
3. Monipally, M.M., Business Communication Strategies, Tata McGraw Hill, New Delhi.

**DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS
KURUKSHETRA UNIVERSITY, KURUKSHETRA**

Session:2023-24			
Part A-Introduction			
Subject	BCA		
Semester	II		
Name of the Course	Introduction to Web Technologies		
Course Code	B23-CAP-202 (Common with B23-CAI-202, B23-CDS-202, B23-CTS-202)		
Course Type: (CC/MCC/MDC /CC- M/DSEC/VOC/DSE/PC/AEC/ VAC)	CC		
Level of the course (As per Annexure-I)	100-199		
Pre-requisite for the course (if any)			
Course Learning Outcomes (CLO):	<p>After completing this course, the learner will be able to:</p> <ol style="list-style-type: none"> 1. learn the basics of web development. 2. understand different types of web pages and web sites. 3. implement HTML and CSS for web page designing. 4. Understand the design of web crawlers and search engines. <hr/> <p>5*. to implement the programs based on various concepts of web development.</p>		
Credits	Theory	Practical	Total
	3	1	4
Contact Hours	3	2	5
Max. Marks: 100(70(T)+30(P))		Time: 3Hrs.(T), 3Hrs.(P)	
Internal Assessment Marks: 30(20(T)+10(P))			
End Term Exam Marks: 70(50(T)+20(P))			
Part B-Content of the Course			
<u>Instructions for Paper-Setter</u>			
<p>Examiner will set a total of nine questions. Out of which first question will be compulsory. Remaining eight questions will be set from four units selecting two questions from each unit. Examination will be of three-hour duration. All questions will carry equal marks. First question will comprise of short answer type questions covering entire syllabus. Candidate will have to attempt five questions in all, selecting one question from each unit. First question will be compulsory. Practicum will be evaluated by an external and an internal examiner. Examination will be of</p>			

three-hour duration.		
Unit	Topics	Contact Hours
I	Introduction to Internet and World Wide Web (WWW); Evolution and History of World Wide Web, Web Pages and Contents, Web Clients, Web Servers, Web Browsers; Hypertext Transfer Protocol, URLs; Searching, Search Engines and Search Tools. Web Publishing: Hosting website; Internet Service Provider; Planning and designing website; Web Graphics Design, Steps For Developing website	10
II	Creating a Website and Introduction to Mark up Languages (HTML and DHTML), HTML Document Features & Fundamentals, HTML Elements, Creating Links; Headers; Text styles; Text Structuring; Text colour and Background; Formatting text; Page layouts, Images; Ordered and Unordered lists; Inserting Graphics; Table Creation and Layouts; Frame Creation and Layouts; Working with Forms and Menus; Working with Radio Buttons; Check Boxes; Text Boxes, HTML5	10
III	Introduction to CSS (Cascading Style Sheets): Features, Core Syntax, Types, Style Sheets and HTML, Style Rule Cascading and Inheritance, Text Properties, CSS Box Model, Normal Flow Box Layout, Positioning, and other useful Style Properties; Features of CSS3.	10
IV	The Nature of JavaScript: Evolution of Scripting Languages, JavaScript-Definition, Programming for Non-Programmers, Introduction to Client-Side Programming, Enhancing HTML Documents with JavaScript. Static and Dynamic web pages	10
V*	Practicum: Students are advised to do laboratory/practical practice not limited to, but including the following types of problems: <ul style="list-style-type: none"> • Create a web page using ordered list and unordered list. • Design a web page to show your institute with hyperlinks. • Create your resume on HTML page. • Create a web page divide the web page into four frames. In one frame create three links that will display different HTML forms in the remaining three frames respectively. • Create a web page to show the record of the college in the form of a table. • Write a HTML code to add internal CSS on a webpage • Design a blog-style personal website. 	25

	<ul style="list-style-type: none"> • Design a web page to display your college with hyperlinks. • Write a JavaScript function to calculate the sum of two numbers. • Write a JavaScript program to find the maximum number in an array. • Write a JavaScript function to check if a given string is a palindrome (reads the same forwards and backward). • Write a CSS file and attach it to any 3 HTML webpages. • Use Div and span in a page and color two words with the same colors. • Using HTML, CSS create a styled checkbox with animation on state change • Design a web page that is like a compose page of e-mail. It should have: <ul style="list-style-type: none"> a) Text boxes for To, CC, and BCC respectively. b) Text field for the message. c) Send button. d) Option for selecting a file for attachment • After clicking the send button a new page should open with the display message “Message has been sent”. 	
Suggested Evaluation Methods		
<p>Internal Assessment:</p> <ul style="list-style-type: none"> ➤ Theory <ul style="list-style-type: none"> • Class Participation: 5 • Seminar/presentation/assignment/quiz/class test etc.: 5 • Mid-Term Exam: 10 ➤ Practicum <ul style="list-style-type: none"> • Class Participation: 5 • Seminar/Demonstration/Viva-voce/Lab record setc.: 5 • Mid-Term Exam: NA 	<p>End-Term Examination: A three-hour exam for both theory and practicum.</p> <p>End Term Exam Marks: 70(50(T)+20(P))</p>	
Part C-Learning Resources		
<p>Recommended Books/e-resources/LMS:</p> <ul style="list-style-type: none"> • Raj Kamal, Internet and Web Technologies, Tata McGraw-Hill. • Ramesh Bangia, Multimedia and Web Technology, Firewall Media. • Thomas A. Powell, Web Design: The Complete Reference, Tata McGraw-Hill • Wendy Willard, HTML Beginners Guide, Tata McGraw-Hill. • Deitel and Goldberg, Internet and World Wide Web, How to Program, PHI • David Flanagan, JavaScript: The Definitive Guide: The Definitive Guide. • Kogent Learning, Web Technologies: HTML, JavaScript, PHP, Java, JSP, XML, AJAX – Black Book, Wiley India Pvt. Ltd. 		

*Applicable for courses having practical components.

English
Semester-II

Nomenclature of the Course: **English Language and Communication Skills: Level 2**

Course Code: **B23-AEC-211**

Course Type: **AEC-2**

Level of the Course: **100-199**

Credits: 2 (Theory 2)

Total Marks: 50

End Term Exam Marks: 35

Internal Assessment Marks: 15

Exam Time: 3 Hrs.

Workload: Theory 2 hours

Course Learning Outcomes

After the successful completion of the course, the student will be able to:

E201.1. The students will be introduced to the phonetics and syllables in English.

E201.2. They will learn various components of speaking skills and their use in communication.

E201.3. They will learn the practical use of punctuation and capitalization.

E201.4. They will have the comprehensive knowledge of tenses.

Contents of the Course:

Unit I: Sounds in English Language

Phonetic symbols and their understanding through a dictionary (Oxford Advanced Learner's Dictionary)

Transcribing one and two syllable words in English

(*For Blind Students: Develop a story from the given prompt or idea)

Unit II: Developing Fluency in Speaking Skills

Speech Making: Expository Speech, Argumentative Speech

Dialogues, Role Plays and Group Discussions

Unit III: Proper use of Punctuation and Capitalization

Unit IV: Introduction to Tenses

Suggested Readings:

Fraleigh, Douglas M., and Joseph S. Tuman. *Speak Up: An Illustrated Guide to Public Speaking*. Macmillan, 2011.

Lucas, Stephen. *The Art of Public Speaking*. McGraw-Hill, 2008.

Murphy, Raymond. *English Grammar in Use with Answers*. Cambridge UP, 2002.

Instructions to the Paper Setters:

1. Question No 1 will be compulsory and will have 7 parts based on all the four Units and the students will be required to attempt all the 7.
2. Question No 2 and 3 will be set on Unit-I covering the entire Unit. Students will be required to attempt any one.
3. Question No 4 and 5 will be set on Unit-II covering the entire Unit. Students will be required to attempt any one.
4. Question No 6 and 7 will be set on Unit-III covering the entire Unit. Students will be required to attempt any one.
5. Question No. 8 and 9 will be based on Unit-IV having 7 parts each covering the entire Unit. Students will be required to attempt any one of these

Evaluation of Internal Assessment

Internal Assessment (Theory) will be based on the following components.

i.	Class Participation	4 Marks
ii.	Seminar/Presentation/Assignments/ Quiz/Class Test etc.	4 Marks
iii.	Mid-Term Exam	7 Marks
	Total	15 Marks

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VAC 2 B23-VAC-201

Session: 2023-24			
Part A - Introduction			
Subject	Environmental Science		
Semester	I/ II		
Name of the Course	Environmental Studies		
Course Code	B23-VAC-201		
Course Type: (CC/MCC/MDC/CC-M/DSEC /VOC/DSE/PC/AEC/VAC)	VAC		
Level of the course (As per Annexure-I)	100-199		
Pre-requisite for the course (if any)	NA		
Course Learning Outcomes (CLO):	After completing this course, the learner will be able to: <ol style="list-style-type: none"> 1. Understand the concept of environmental studies, sustainable development and ecosystem. 2. Learn about the various natural resources and about biodiversity and its conservation. 3. Know about the types of pollution, solid waste management, global environmental issues and environmental laws. 4. Understand the concept of population growth and its impacts on environment and disaster management. 		
Credits	Theory	Practical	Total
	2	NA	2
Contact Hours	2	NA	2
Max. Marks: 50 Internal Assessment Marks: 15 End Term Exam Marks: 35		Time: 3 hours	

Part B- Contents of the Course

Instructions for Paper- Setter

Total number of questions set will be nine. Questions no. 1 is compulsory covering the entire syllabus. Two questions will be set from each unit. Students have to attempt five questions in all, selecting one question from each unit including the compulsory question. Each question is of 7 marks. All questions carry equal marks. Final theory exam time allowed will be of 3 hours.

Unit	Topics	Contact Hours
I	<p>Introduction to environmental studies: Multidisciplinary nature of environmental studies; Scope and importance; Concept of sustainability and sustainable development.</p> <p>Ecosystems: Definition, structure and function of ecosystem; Energy flow in an ecosystem: food chains, food webs, Major ecosystems types: Forest ecosystem, Grassland ecosystem, Desert ecosystem and Aquatic ecosystem (lakes, rivers, oceans).</p>	6
II	<p>Natural resources: Renewable and Non- renewable Resources Land resources: Land degradation and soil erosion. Forest resources: Importance of forests, deforestation: causes and impacts on environment. Water resources: Use and over- exploitation of surface and ground water. Energy resources: Renewable and non- renewable energy sources.</p> <p>Biodiversity and Conservation: Definition and its types, Endangered and endemic species of India. Threats to biodiversity: Habitat loss, poaching of wildlife, man-wildlife conflicts, biological invasions; Conservation biodiversity: <i>In-situ</i> and <i>Ex-situ</i> conservation of biodiversity. Ecosystem and biodiversity services: Ecological, economic, social, ethical, aesthetic and informational values.</p>	9

III	<p>Environmental pollution Environmental pollution: types, causes, effects and controls; Air, water, soil and noise pollution. Solid waste management: Sources, methods of disposal: Landfill, incineration and composting. Climate change, global warming, ozone layer depletion, acid rain and impacts on human communities and agriculture. Environmental Policies & Practices Environmental laws: Environment (Protection) Act, 1986, Air (Prevention & Control of Pollution) Act, 1981, Water (Prevention and control of Pollution) Act, 1974.</p>	8
IV	<p>Human Communities and the Environment: Human population growth: Impacts on environment, human health and welfare. Resettlement and rehabilitation of project affected person. Disaster management: floods, earthquake, cyclones, landslides and drought. Environmental ethics: Role of Indian and other religions and cultures in environmental conservation.</p>	7
Suggested Evaluation Methods		
<p style="text-align: center;">Internal Assessment:15 marks</p> <p>➤ Theory</p> <ul style="list-style-type: none"> • Class Participation: 4 marks • Seminar/presentation/assignment/quiz/class test etc.: 4marks • Mid-Term Exam: 7 marks 		<p style="text-align: center;">End Term Examination: Theory: 35 marks (Written exam)</p>
Part C-Learning Resources		
<p style="text-align: center;">Recommended Books/e-resources/LMS:</p> <ol style="list-style-type: none"> 1. Kaushik, A & Kaushik, C.P. 2022. Perspectives in Environmental Studies. New Age International Pvt Ltd, New Delhi. 2. Bharucha, E. 2021. A Textbook of Environmental Studies for Undergraduate Courses, Orient Blackswan Pvt Ltd. 3. Goswami, P., Mandal, J. & Singh, S. 2022. A Textbook on Environmental Studies, Ashok book stall, Assam. 4. Joshi, P.C. & Joshi, N. 2009. A Text Book of Environmental Science. APH Publishing Corporation. 5. Basu, M. & Xavier Savarimuthu, S.J. 2017. Fundamentals of Environmental Studies. Cambridge University Press. 6. Singh, R.P. & Islam, Z. 2012. Environmental Studies. Concept Publishing Company. 		