

Class- BCA 1ST Semester
Subject- General English
Session: 2020-21

Max. Marks: 75
 Theory: 65
 Int. Asst.: 10

Topic	Teaching Points	Specific Objectives	Methods/Approaches/Techniques	Resources & Links
Prose Essays & Short Stories Essays: 1. Prayer 2. My Childhood 3. John Fitzgerald Stories: 1. The Tell-Tale Heart 2. The Model Millionaire	a) About the Author b) Introduction of the characters/main issues involved c) General overview of the lesson d) Interpretation of the individual lines of the lesson e) Explanation of the difficult words f) Discussion of various themes/incidents/characters/main issues	a) To provide the students a detailed overview of the lesson b) To encourage the students to participate in class-room discussion thereby enabling them to express their own understanding of the main issues/themes/incidents/characters c) To motivate the students to critically analyze the lesson	Online interactive lecture, Examples, Use of Google classroom, Discussion	1. Singh Harbhajan. <i>Colours of Expression</i> . Publication Bureau Panjab University Chandigarh, 2016.
Poetry Section 1. Sigh No More, Ladies 2. On the Morning of Christ's Nativity 3. When I Consider Life 4. On Receipt of My Mother's Picture 5. Lord Ullin's Daughter 6. Lucy	a) About the poet b) Interpretation of the individual lines c) Explanation of the difficult words d) Theme or central idea	a) To provide the students a detailed overview of the poems b) To encourage the students to participate in class-room discussion thereby enabling them to express their own understanding of the poem c) To motivate the students to critically analyze the poem		

<p>Grammar:</p> <ol style="list-style-type: none"> 1. Word Formation & their use in sentences 2. Use of textual words & idioms in sentences 3. Translation 4. Official, Business & Letters to the Editors 	<ol style="list-style-type: none"> a) Formation of nouns, verbs, adjectives, adverbs b) Explaining meaning of different words, idioms and idiomatic phrases and their usage c) Tenses: Rules & method of identification d) Types and format of different types of letters 	<p>Main objective is to enhance the students' knowledge of words and their meanings. It will also enhance their writing skills as they will come to know how to form sentences effectively and how to effectively draft different kinds of letters.</p>	<p>Online interactive lecture, Examples, Use of Google classroom, Discussion</p>	<ol style="list-style-type: none"> 1. Wren & Martin, <i>High School English Grammar & Composition</i>. S.Chand, 2004.
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Class- BCA 2ND Semester
Subject- General English
Session: 2020-21

Max. Marks: 75
 Theory: 65
 Int. Asst.: 10

Topic	Teaching Points	Specific Objectives	Methods/Approaches/Techniques	Resources & Links
Prose Essays & Short Stories Essays: 1. Tight Corners 2. Last Expedition Stories: 1. The Prize Poem 2. The Stolen Bacillus 3. Accident	a) About the Author b) Introduction of the characters/main issues involved c) General overview of the lesson d) Interpretation of the individual lines of the lesson e) Explanation of the difficult words f) Discussion of various themes/incidents/characters/main issues	a) To provide the students a detailed overview of the lesson b) To encourage the students to participate in class-room discussion thereby enabling them to express their own understanding of the main issues/themes/incidents/characters c) To motivate the students to critically analyze the lesson	Class-room teaching with examples, discussion	1. Singh Harbhajan. <i>Colours of Expression</i> . Publication Bureau Panjab University Chandigarh, 2016.
Poetry Section 1. All for Love 2. Sorrow 3. To One Who Has Been Long in City Pent 4. The Charge of the Light Brigade 5. Animals	a) About the poet b) Interpretation of the individual lines c) Explanation of the difficult words d) Theme or central idea	a) To provide the students a detailed overview of the poems b) To encourage the students to participate in class-room discussion thereby enabling them to express their own understanding of the poem c) To motivate the students to critically analyze the poem		

<p>Grammar:</p> <ol style="list-style-type: none"> 1. Paragraph Writing (Descriptive & Narrative) 2. Use of textual words & idioms in sentences 3. Translation 4. Transformation of all types 	<ol style="list-style-type: none"> a) Discussion of a wide range of topics for paragraph writing & telling students how to write them. b) Explaining meaning of different words, idioms and idiomatic phrases and their usage c) Tenses: Rules & method of identification d) Rules for transformation of sentences 	<p>Main objective is to enhance the students' knowledge of words and their meanings. It will also enhance their writing skills as they will come to know how to form a variety of sentences effectively.</p>	<p>Class-room teaching with examples, discussion</p>	<ol style="list-style-type: none"> 1. Wren & Martin, <i>High School English Grammar & Composition</i>. S.Chand, 2004.
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SANATAN DHARMA

COLLEGE HOSHIARPUR

DEPARTMENT OF COMPUTER APPLICATION

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Class	Bachelor of Computer Application(1st Semester)
Subject Code and Name	Fundamentals of Mathematical Statistics- (BCA-16-102)
Time	45 min
Internal /External Marks	10/65

Topic	Teaching Points	Objectives	Methods and Techniques	Resources & Links
Basic Statistics	Types of Statistics, Different Statistical Techniques, Steps in Statistical Investigation, Uses and Limitations of statistics, Collection of Data: Sources of collecting primary and Secondary Data, Limitations of Secondary Data, Criteria of evaluating secondary data, Organization of data, Graphs of Grouped Frequency Distribution, Tabulation of Data, Parts of Table	To teach the students the basic techniques Statistical Methods. After completing this course students will be able to solve various Financial, Scientific and Engineering fields' problems.	1. Chalk Talk 2. Assignments 3. weekly Test 4. Class Teaching with examples	1. Gupta S.C, Kapoor V.K.: Fundamentals of mathematical Statistics, Sultan Chand & Sons.
Measures of Central Tendency	Measures of Central Tendency (statistical averages or averages):			
Arithmetic Mean	Methods of calculating Simple Arithmetic Mean, Arithmetic Mean in case of Individual Series, Discrete series and continuous series, Weighted Arithmetic Mean, Combined Arithmetic Mean.			
Geometric Mean:	Methods of calculating Simple Geometric Mean, Geometric Mean in case of Individual Series, Discrete series and continuous series, Weighted Geometric Mean, Combined Geometric Mean.			
Harmonic Mean	Simple Harmonic Mean ,Methods of calculating Simple Harmonic Mean, Harmonic Mean in case of Individual, Discrete series a			



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Class	Bachelor of Computer Application(First Semester)
Subject Code and Name	Computer Fundamentals and Computing Software(BCA-16-103)
Time	45 min
Internal /External Marks	10/65

Objectives: The objective of this course is to familiarize students with complete Fundamentals and the carriers commonly used computing software.

Unit No	Topics	Content
I	<ul style="list-style-type: none">• Computer Appreciation• Computer Memory• Types of Software	<p>In the First topic Computer Appreciation, we discuss the topics related with the fundamental of computer like define computer, feature and application of computer, types of computer, basic structure of Computer.</p> <p>In second topic Computer memory, we discuss representation of information, the various types of Memory unit, Various input/output devices of computer</p> <p>In the third topic Software, we discuss what are software, various types of software, Programming language and their types</p>
II	<ul style="list-style-type: none">• Operating System using DOS• GUI using Windows	<p>In this section we discuss two things first one is operating system and second Types of Operating system (DOS and GUI) .we also discuss various DOS Command and windows anatomy.</p>
III	<ul style="list-style-type: none">• Word Processing software	<p>In this section we study any one word processing software like MS word, MS-Office write etc. We discuss the various feature and function of word processing software like formatting the document ,working with template, how to create table, working with master pages and Index etc.</p>
IV	<ul style="list-style-type: none">• Spreadsheet Software• Presentation Software	<p>In first section we discuss the Spreadsheet software, where we learn how to create sheets and formatting the various spreadsheet with the help of their inbuilt</p>



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		and customized feature. We also discuss some topics related with security. In second section we discuss Presentation software.in which we learn how to create presentation and customized the presentation
References Books and Various web resources		
1.	Teaching Methodology	Participative Teaching, collaborative teaching, Group discussion, Blackboard, presentations, teaching with examples.
2.	Books	Computer Fundamental Rajaraman Computer Fundamental" P.K.Sinha Discovering Computer Fundamental: Shelly Cashman Microsoft office 2016: Microsoft Press Libre Office Manual
3.	Web Recourses	Microsoft Virtual Academy Spoken Tutorials



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Class	Bachelor of Computer Application(1st Semester)
Subject Code and Name	Problem solving through C (BCA-16-104)
Time	45 min
Internal /External Marks	10/65

Objectives: The objective of this course is to familiarize students with complete programming concepts using C language.

Unit No	Topics	Objectives
I	Programming Process: Fundamentals of C Languages:	In the First topic Programming process, we discuss the topics related with the fundamental of computer programming like In second topic Computer memory, we discuss representation of information, the various types of Memory unit, Various input/output devices of computer Steps in developing of a program, Data Flow Diagram, Decision Table, Algorithm development, Flowchart, Pseudo Code, Testing and Debugging. In this section we discuss the various topics like History of C, Character Set, Identifiers and Keywords, Constants, Types of C Constants, Rules for Constructing Integer, Real and character Constants, Variables, Data Types, rules for constructing variables
II	Decision Control Structure: Loop Control Structure: Case Control Structure: Functions:	In this section we discuss the various Decision making with IF-statement, IF-Else and Nested IF Else, The else if Clause with various suitable examples. While and do-while, for loop and Nested for loop, Decision using switch, go to statement Different types of functions, their respective advantages, storage classes
III	Arrays	1. Define, describe, and explain the array data structure.



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	<p>Pointers:</p> <p>Dynamic Memory Allocation:</p>	<ol style="list-style-type: none"> 2. Use arrays to store, sort, and search lists and tables of values. 3. Declare an array. 4. Initialize an array. 5. Reference (read/write to) individual elements of an array. 6. Describe basic sorting techniques. 7. Implement basic sorting techniques. 8. Declare multiple subscript arrays. 9. Describe and implement basic search techniques. 10. Manipulate multiple subscript arrays. 11. Pass arrays as parameters to functions. <p>Student will understand how they can access memory using concept of pointers and how memory is allocated dynamically at run time.</p>
IV	<p>String Manipulation in C:</p> <p>Structures and Unions:</p> <p>Files in C:</p>	<p>Declaring and Initializing string variables, Reading and writing strings, String Handling functions (strlen(), strcpy(), strcmp(), strcat()).</p> <p>The students will understand how to solve real-time type problems using structure and union.</p> <p>The students will be able to understand different file streams and to store their data in files and comparative advantages of files.</p>
References Books and Various web resources		
1.	Teaching Methodology	Participative Teaching, collaborative teaching, Group discussion, Blackboard, presentations, teaching with examples.
2.	Books	Let Us C:Yashwant Kanitkar Programming in C: Balaguruswami Programming in C:
3.	Web Recourses	Spoken Tutorials, slide share