



SANATAN DHARMA

COLLEGE HOSHIARPUR

DEPARTMENT OF COMPUTER APPLICATION

Contact: 01882-249968
Website: www.sdcollegehsp.net
Email: sdcollegehsp@gmail.com

Class	Bachelor of Computer Application(2nd Semester)
Subject Code and Name	English (Compulsory)-B ,(BCA-16-201)
Time	45 min
Internal /External Marks	10/65

January – February

Objectives

To make the students familiar with the following:

- Definition and features of language in general.
- Role of language in human development.
- Meaning of mother tongue/local language, national language, global language, dialect, pidgin, creole, etc.
- History and scope of English language.
- English language in India.
- Brief overview of literature in general.
- Brief introduction to poetry and prose.
- Grammar and composition: transformation of words and paragraph writing.

Learning outcomes

Students will be able to:

- Define the meaning and scope of language.
- Explain the meaning of mother tongue/local language, national language, global language, dialect, pidgin, creole, etc.
- Elucidate the history and scope of English language in India and the world.
- Define what is the meaning of literature, poetry and prose.
- Write paragraphs and transform words.

Detail of Unit Plan:

Topics	Teaching points	Specific objectives	Methods, Approaches and techniques	Resources & Links
a) Language and literature b) Poetry	Language and literature: Definition,	a) To make the students familiar	Classroom teaching, reading and writing.	Singh Harbhajan. <i>Colours of</i>



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c) Essay e) Short Story f) Grammar	features, scope, types of language. Introduction to English language and literature in general. Poetry: All for Love, Sorrow, To One Who has been long in City Pent Essay: Tight corners Short Story: The Prize Poem Grammar: Paragraph writing, transformation	with language and literature. b) To make the students understand the selected poems, essays and short stories. c) To make the students understand the selected grammar topics.	<i>Expression.</i> Publication Bureau Panjab University Chandigarh, 2016. Hudson, WH. <i>An Outline History of English Literature.</i> G. Bell & Sons, 1913. Wren & Martin, <i>High School English Grammar & Composition.</i> S.Chand, 2004.
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Question Bank:

1. In the poem *All for Love* the poet says man's all actions are motivated by the need to seek appreciation from his beloved. Discuss.
2. What are the three different kinds of the poet's reactions to sorrow and suffering in the poem *Sorrow*?
3. Discuss the title of the poem *To One Who Has Been Long in City Pent*.
4. Discuss the title and theme of the prose *Tight Corners*.
5. Discuss the significance of the title *The Prize-Poem*.
6. Grammar based questions.

March

Objectives

To make the students familiar with the following:

- Critical appreciation of poetry, short stories and essays.
- Literature in India.



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- Brief introduction to Indian English literature.
- Grammar and Composition: text-based idioms and phrases.
- Brief introduction to and practice of translation.
- Practice of spoken English.

Learning outcomes

Students will be able to:

- Understand critical appreciation of poetry and prose.
- Explicate the scope of literature in India.
- Elucidate briefly Indian English literature.
- Use text-based idioms and phrases.
- Practise spoken English.

Detail of Unit Plan:

Topics	Teaching points	Specific objectives	Methods, Approaches and techniques	Resources & Links
a) Critical appreciation b) Poetry c) Essay e) Short Story f) Grammar	Critical appreciation of poetry, short stories and essays. Poetry: The Charge of the Light Brigade, Animals Essay: Last Expedition. Short Story: The Stolen Bacillus Grammar: Use of textual words and idioms, translation.	a) To make the students practise critical appreciation of poetry, short stories and essays. b) To make the students understand the selected poems, essays and short stories. c) To make the students practise the selected grammar topics and translation d) To make the students practise spoken English	Classroom teaching, reading, writing, practice. Class tests.	Singh Harbhajan. <i>Colours of Expression</i> . Publication Bureau Panjab University Chandigarh, 2016. Hudson, WH. <i>An Outline History of English Literature</i> . G. Bell & Sons, 1913. Wren & Martin, <i>High School English Grammar & Composition</i> . S.Chand, 2004.



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Question Bank:

1. Discuss how and what the Light Brigade had to suffer owing to a mistake of their senior official in the poem *The Charge of the Light Brigade*.
2. How does the poet compare the animal's life to human's life?
3. How is the scientist unburdened of the problem created by the Anarchist in the story *The Stolen Bacillus*?
4. Describe the elements of pathos, solemnity and grandeur in the prose *The Last Expedition*.
5. Grammar based questions.

April - May

Objectives

To make the students familiar with the following:

- Definition and features of communication.
- Practice of English speaking and listening skills.
- Practice of translation.
- Proverbs, Idioms, Phrases, One word substitution.
- Practice of text-based vocabulary.
- Class Tests.

Learning outcomes

Students will be able to:

- Define the meaning and features of communication.
- Talk about selected topics and understand listening to simple English.
- Translate simple and compound sentences.
- Learn to use proverbs, idioms, phrases, one word substitutions.

Detail of Unit Plan:

Topics	Teaching points	Specific objectives	Methods, Approaches and techniques	Resources & Links
a) Communication b) Short Story c) Revision	Communication: Definition and features	a) To make the students understand the definition and	Classroom teaching, reading, writing, class tests	Singh Harbhajan. <i>Colours of Expression.</i> Publication



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d)grammar e) class tests	Short Story: Accident. Revision of prescribed poems, short stories and essays. Grammar. Revising prescribed topics Class test: textual and grammar.	features of communication. b) Reading and revising prescribed texts c) Revising grammar. c) Assessing students' understanding of the subject	Bureau Panjab University Chandigarh, 2016. Hudson, WH. <i>An Outline History of English Literature</i> . G. Bell & Sons, 1913. Wren & Martin, <i>High School English Grammar & Composition</i> . S.Chand, 2004.
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Question Bank:

1. How does Mrs. Merrowdene get rid of Evans in the end of the story *Accident*?
2. Writer summaries and themes of the given chapters.
3. Grammar based questions.



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Class	Bachelor of Computer Application(2nd Semester)
Subject Code and Name	Computer Organization(BCA-16-202)
Time	45 min
Internal /External Marks	10/65

Objective: The objective of the course is to familiarize students with basic concepts related

Unit No	Topics	Content
I	<ul style="list-style-type: none">• Computer Organization• Building Blocks of Computer• Bus	In this section, we started with Evolution of computer, how computer work and we discuss Von Neumann Architecture of Computer. We also discuss various combination and sequential block under these blocks we discuss the Gates, multiplexers, encoder and decoder. In next topic we discuss the Register Transfer language and transfer of data among the registers various Arithmetic and Logical operation with RTL
II	<ul style="list-style-type: none">• Architecture of Processor• DMA• CPU and I/O Organization	In this section we discuss we discuss the architecture of processor where we discuss the concept of instruction set, Microinstruction and concept of Interrupt. We also discuss concept of Direct memory access with their diagram. In continue we learn various CPU and I/O Communication under this topic we discuss various techniques like Handshake, Strobe technique, also discuss stack and handling of interrupt and subroutines
III	<ul style="list-style-type: none">• Memory• Assembly Language	In this section we study Memory Organization and Assembly Language. Under the topic of Memory we discuss various memory types like RAM, ROM, Associate memory and Cache memory and under the topics of Assembly Language we discuss How it is differ from machine language, various operation like add ,sub and also discuss Multiplication using shift and add technique and also booth Algorithm
IV	<ul style="list-style-type: none">• System Maintenance	This entire section belongs to System Maintenance in which we discuss how we diagnostics the Computer, installation of Computer and Protect the computer from viru and other bugs.



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References Books and Various web resources		
1.	Books	M. Morris Mano 1993. : Computer System Architecture, Prentice Hall International, 3rd Ed. P. Pal Choudhri, 1994. : Computer Organisation and Design, Prentice Hall of India. Biswal, Sadasiva2001: Basic Electronics, Pub-Atlantic, New Delhi
2.	Teaching Methodology	Participative Teaching, collaborative teaching, Group discussion, Blackboard, presentations, teaching with examples.
3.	Web Recourses	Microsoft Virtual Academy Spoken Tutorials, slideshare, inflibnet



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Class	Bachelor of Computer Application(2nd Semester)
Subject Code and Name	Fundamentals of Web Programming (BCA-16-203)
Time	45 min
Internal /External Marks	10/65

Unit –I

Time 10-15 Days

Entry Behaviour:-

- 1-The learners are familiar with Web Sites Designing
- 2- The learners know about links,lists,images,tables,frames,forms,css.
- 3- The learners have general idea about working of internet

Learning Outcomes

- 1- The learners will be able to know about how to design real world applications.
- 2- The learners will understand the concept of HTML Tags ,DHTML .
- 3- The students will be able to design static web sites.
- 4- The students will be able to apply client side validations

UNIT-I

Detail of Unit Plan:-

Topics	Teaching Points	Specific Objectives	Methods, Approaches and Techniques	Resources & Links
a)Introduction to HTML/DHTML	Introduction to various types of tags like single , paired tags ,links,lists,images,tables,frames,forms.	The students will get familiar with various tags for designing web sites and will be able to design simple web pages with the help of frames,tables,forms,images,links , lists etc	Practice on Computer	Reference Books Internet programming (anshuman) ,web Technologies by kalyani and Internet tutorials



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b) Introduction to CSS	<ul style="list-style-type: none"> • CSS • Types of CSS 	The students will enable to make Dynamic web pages.	Practicals lecture on computer	Reference Books Internet programming (anshuman) ,web Technologies by kalyani and Internet tutorials
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Unit –II

Time 10-12 Days

Entry Behaviour:-

1. Students are familiar with basic programming concepts of C,C++.
2. Students are familiar with basic form designing concepts

Major Objectives:-

3. The Learners will be able to know about concept of Javascript,operator,arrays,funtions,event handling
4. The learners will be able to explain core language objects.

UNIT-II

Detail of Unit Plan:-

Topics	Teaching Points	Specific Objectives	Methods	Resources & Links
a) Fundamentals of JavaScript	<ul style="list-style-type: none"> • Data Types • operator • Control Constructs • Event handling • Form validation 	The students will be able to learn about various data types in javascript and will be able to web pages with javascript .	Practicals lecture on computer	Internet programming (anshuman) ,web Technologies by kalyani and Internet tutorials



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b) Javascript objects	<ul style="list-style-type: none"> • Core language objects • User defined objects 	The students will be able to used the different types of objects in web sites 's Form.	Practicals lecture on computer	Internet programming (anshuman) ,web Technologies by kalyani and Internet tutorials
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Time 8-10 Days

Entry Behavior:-

- The students know the basics of website designing
- They can build static website using HTML,DHTML

Major Objectives:-

1. The Pupils will be able to design website using dreamweaver
2. The pupils will be able to understand concept of web hosting

Detail of Unit Plan:-

Topics	Teaching Points	Specific Objectives	Methods	Resources & Links
a) Introduction to Dreamweaver	<ul style="list-style-type: none"> • Workspace Layout, • Adding Tables,Links • Web Hosting 	The students will able to understand the concepts of building website with the help of dreamweaver,and will know about various options available for web hosting	Practicals Lecture Method	Adobe Dreamweaver by pearson education



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Class	Bachelor of Computer Application(2nd Semester)
Subject Code and Name	Object Oriented Programming using C++(BCA-16-204)
Time	45 min
Internal /External Marks	10/65

Objective: This course enables students to do programming language using C++.

Unit No	Topics	Content
I	<ul style="list-style-type: none"> Concepts of Object Oriented Programming Structure of C++ Program Accessing Data Members 	In this section we discuss the concept of OOPs, difference between Programming language and OOPs. Structure of C++ program, and accessing methods for data members and member's functions.
II	<ul style="list-style-type: none"> Scope resolution Operator 	In this section we discuss how data members and member functions are accessed outside the class, Why we use Constructors?
III	<ul style="list-style-type: none"> Inheritance Polymorphism 	In this section, we discuss the concept of inheritance, how public inheritance and private inheritance differs from each other? Also we describes the concept of polymorphism that gives the ability to clear the concept of early binding and late binding.
IV	<ul style="list-style-type: none"> Templates File Processing 	In this section, we discuss the template, function template, class template, etc. In this section, we create file, opening a file, closing a file , operations performed on it, various methods of accessing files

References Books and Various web resources

	Teaching Methods	Participative Teaching, collaborative teaching, Group discussion, Blackboard, presentations, teaching with examples
1	Books	C++- Robert Lafore C++- Balaguruswami C++ Anshuman Sharma
2	Web Recourses	Slide share,