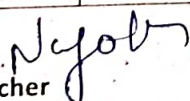
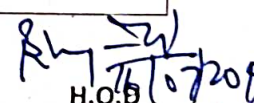


H.E.I.S Department	
SYLLABUS PLAN	
Bca sem 5	
Subject : JAVA PROGRAMMING	
Session 2019-2020	
Month	Topic
Aug (Month 1)	Week 1 Introduction to java: evolution, features, comparison with C and C++1
	Week 2 Java program structure; tokens, keywords, constants, variables
	Week 3 data types, type casting, statements. Operators and expressions: arithmetic, relational, logical, assignment, increment, decrement, conditional, bitwise and special operators.
	Week 4 Operator precedence & associativity rules.
Sep (Month 2)	Week 1 Control statements: if else, switch case, for, while, do while
	Week 2 break, continue, labelled loops
	Week 3 Class: syntax, instance variable, class variables, methods, constructors, overloading of constructors and methods.
	Week 4 MST
Oct (Month 3)	Week 1 Inheritance: types of inheritance, use of super, method overriding
	Week 2 final class, abstract class, wrapper classes.
	Week 3 Arrays, Strings and Vectors, Packages and Interfaces, visibility controls
	Week 4 Class: syntax, instance variable, class variables, methods, constructors, overloading of constructors and methods.
Nov (Month 4)	Week 1 Exception handling in java, use of try, catch, finally, throw and throws. Taking user input
	Week 2 Command line arguments, Multithreaded Programming: Creating Threads
	Week 3, Life cycle of thread, Thread priority, Thread synchronization,
	Week 4 Inter-thread communication.

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LESSON PLAN

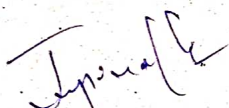
Session(2019-20)

Subject: BCA-315: Web Designing using HTML and DHTML

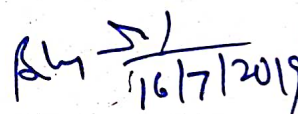
(Sem 5)

SESSION	TOPIC
August (Month 1)	Week 1 Introduction to HTML: Basic HTML concepts, an overview of HTML markup.
	Week 2 What is good Web design; the process of Web publishing; implementation; the phases of Web site development; HTML's role in the Web;
	Week 3 HTML overview: the structure of HTML documents; document types; the <HTML> element; the <HEAD> element; the <BODY> element; Issues facing HTML and the Web.
	Week 4 Links and Addressing: Linking basics; what are URLs; linking in HTML; anchor attributes; images and anchors; image maps; semantic linking with the <LINK> element; meta-information;
September (Month 2)	Week 5 Mid semester Test-I
	Week 6 HTML and Images: The role of images on the Web; image preliminaries; obtaining images; HTML image basics;
	Week 7 Image downloading issues;
	Week 8 Images as buttons; and image maps.
	Week 9 Introduction to Layout: Backgrounds, Colors, and Text; design requirements; HTML approach to Web design; fonts; colors in HTML; document-wide color attributes for <BODY>; and background images. Introduction to tables, LISTS; frames
October (Month 3)	Week 10 Style Sheets: style sheets basics; style sheet example; style sheet properties; positioning with style sheets;
	Week 11 Mid semester Test-II
	Week 12 Basic Interactivity and HTML: Forms form preliminaries; the <FORM> element; form controls;
	Week 13 Introduction to Server-Side Programming: This chapter covers: overview of client/server programming on the Web; server-side programming;

November (Month 4)	common gateway interface (CGI);
	Dynamic HTML (DHTML): dynamic HTML and document object model; HTML and scripting access; rollover buttons; moving objects with DHTML; and ramifications of DHTML.
	Revision


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LESSON PLAN	
BCA Sem-V	
Subject- SAD	
August 2019 to November 2019	
Session	Topic
August (Month-1)	WEEK-1:- Systems concepts: Definition and characteristics of a system, Elements of a system, Types of systems.
	WEEK-2:-The system development life cycle: Introduction to various phases.
	WEEK-3:-The role of the Systems Analyst: Qualifications of a systems analyst,
	WEEK-4:- various roles of the systems analyst.
September (Month-2)	WEEK-1:- Systems analysis: Initial investigation, needs identification.
	WEEK-2:- determining the user's information requirements, Information-gathering tools.
	WEEK-3:-Structured analysis tools: Data flow diagram, Data dictionary,
	WEEK-4 Decision tree, Structured English, Decision tables.
October (Month-3)	WEEK-1:- MST
	WEEK-2:- MST
	WEEK-3:- Feasibility study: Feasibility considerations, Steps in Feasibility analysis. Systems Design: The process and stages of systems design, Input/output and forms design,
	WEEK-4:- Database design.Implementation and software maintenance: Conversion, Post-implementation review.
November (Month-4)	WEEK-1:- Software maintenance: maintenance or enhancement, Primary activities of a maintenance procedure.
	WEEK-2:- Hardware and software selection: Procedure and major phases in selection.

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Manpreet Singh

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Govt. College, Ropar
Computer Department (HEIS)

Class B.C.A Sem. V

(Session 2019-2020)

Week	Lesson scheduled
1 st	ਲੇਖ-ਰਚਨਾ ਪੰਜਾਬ ਦੇ ਮੇਲਿਆਂ ਅਤੇ ਤਿਉਹਾਰਾਂ ਨਾਲ ਸਬੰਧਤ
2 nd	ਵਿਹਾਰਕ ਵਿਆਕਰਨ ਵਿਸ਼ਲੇਸ਼ਣ
3 rd	ਨਾਉ ਵਾਕੰਸ਼, ਪਰਿਭਾਸ਼ਾ, ਬਣਤਰ ਅਤੇ ਪ੍ਰਕਾਰ
4 th	ਲੇਕਧਾਰਾ ਦੀ ਭੂਮਿਕਾ
5 th	ਲੇਕਧਾਰਾ ਦੀ ਭੂਮਿਕਾ (1, 2) ਲੇਖ ਦਾ ਵਿਸ਼ਾ, ਸਾਰ
6 th	ਲੇਕਧਾਰਾ ਦੀ ਭੂਮਿਕਾ (3, 4) ਲੇਖ ਦਾ ਵਿਸ਼ਾ, ਸਾਰ
7 th	ਲੇਕਧਾਰਾ ਦੀ ਭੂਮਿਕਾ (5, 6) ਲੇਖ ਦਾ ਵਿਸ਼ਾ, ਸਾਰ
8 th	MST
9 th	MST
10 th	ਲੇਕਧਾਰਾ ਦੀ ਭੂਮਿਕਾ (7, 8) ਲੇਖ ਦਾ ਵਿਸ਼ਾ, ਸਾਰ
11 th	ਲੇਕਧਾਰਾ ਦੀ ਭੂਮਿਕਾ (9, 10) ਲੇਖ ਦਾ ਵਿਸ਼ਾ, ਸਾਰ
12 th	ਲੇਕਧਾਰਾ ਦੀ ਭੂਮਿਕਾ (11, 12) ਲੇਖ ਦਾ ਵਿਸ਼ਾ, ਸਾਰ
13 th	ਲੇਕਧਾਰਾ ਦੀ ਭੂਮਿਕਾ (13) ਲੇਖ ਦਾ ਵਿਸ਼ਾ, ਸਾਰ
14 th	ਕਿਰਿਆ ਵਾਕੰਸ਼ ਬਣਤਰ ਅਤੇ ਪ੍ਰਕਾਰ
15 th	ਕਿਰਿਆ ਵਾਕੰਸ਼ ਬਣਤਰ ਅਤੇ ਪ੍ਰਕਾਰ
16 th	ਦੁਹਰਾਈ।

Gurpreet Kaur
Teacher

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Govt. College
Ropar

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11/07/2019

Govt. College, Ropar
Computer Department (HEIS)
 Class B.C.A Sem. VI
 (Session 2019-2020)

Week	Lesson scheduled
1 st	ਅਨੁਵਾਦ
2 nd	ਸਮਕਾਲੀ ਪੰਜਾਬੀ ਨਾਟਕ, ਪਰਿਭਾਸ਼ਾ
3 rd	ਪੱਤਣ ਦੀ ਬੇੜੀ ਇਕਾਗੀ
4 th	ਬੰਦ ਕਮਰੇ
5 th	ਕਾਰਕ ਅਤੇ ਕਾਰਕੀ ਸਬੰਧ
6 th	ਤੂੜੀ ਦਾ ਕੋਠਾ
7 th	ਚਿੜੀਆਂ
8 th	➤ MST
9 th	➤ MST
10 th	ਬਲੀ ਕਿੱਥੇ ਜਾਵੇ
11 th	ਵਾਕਾਤਮਕ ਜੁਗਤਾ
12 th	ਮੇਲ ਅਤੇ ਅਧਿਕਾਰ ਪਰਿਭਾਸ਼ਾ, ਕਿਸਮਾਂ
13 th	ਮੇਲ ਅਤੇ ਅਧਿਕਾਰ ਪਰਿਭਾਸ਼ਾ, ਕਿਸਮਾਂ
14 th	ਮੇਲ ਅਤੇ ਅਧਿਕਾਰ ਪਰਿਭਾਸ਼ਾ, ਕਿਸਮਾਂ
15 th	ਅੰਗਰੇਜ਼ੀ ਤੇ ਪੰਜਾਬੀ ਅਨੁਵਾਦ
16 th	ਦੁਹਰਾਈ।

Gurpreet Kaur
 Teacher

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 Ropar

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 H.O.D 16/07/2019

H.E.I.S Department

SYLLABUS PLAN

BCA sem 6

Subject :E-Commerce

Session 2019-2020

Month	Topic
Jan (Month 1)	Week 1 Introduction to E-commerce: Definition of E-commerce, Advantages and disadvantages of E-commerce
	Week 2 E-commerce versus traditional commerce. Internet and WWW
	Week 3 Electronic commerce framework, Electronic commerce and media conyergence, The anatomy of E-commerce applications.
	Week 4 , Architectural framework for E-commerce
Feb (Month 2)	Week 1 World Wide Web as the architecture,
	Week 2 Web background: Hypertext publishing,
	Week 3 Security and the Web.
	Week 4 Consumer-oriented E-commerce: Consumer-oriented applications
March (Month 3)	Week 1 Mercantile Process Models – consumer's perspective, Merchant's perspective
	Week 2 Advertising and Marketing on the Internet: The new age information based marketing
	Week 3 Advertising on the Internet – Active or push-based advertising models, Passive or pull-based advertising models
	Week 4 Guidelines for Internet advertising. Online marketing process.
April (Month 4)	Week 1 Types of Electronic Payment Systems, Digital token-based electronic payment systems, Smart cards and electronic payment systems
	Week 2 Credit card-based electronic payment systems, Risk and electronic payment systems.
	Week 3 Electronic Data Interchange and its applications in business.
	Week 4 Legal, Ethical and other public policy issues related to e-commerce. queries from students

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LESSON PLAN
Session(2019-20)

Subject: BCA-325: Web Designing using ASP.NET

Max Marks: 80

Min Pass Marks: 35%

Maximum Time: 3 Hrs.

Lectures to be delivered: 45-55 Hrs

	SESSION	TOPIC
January (Month 1)	Week 1	INTRODUCTION TO .NET FRAMEWORK Genesis of .Net – Features of .Net - .Net binaries – Microsoft Intermediate Language – Meta Data - .Net types and .net name spaces
	Week 2	Common Language Runtime – Common Type System – Common Language Specification - .Net Applications using command line compiler and visual studio .net IDE.
	Week 3	OF ASP. NET Introducing ASP .NET – Creating and deploying ASP .NET applications – Web forms
	Week 4	BASICS – Web controls – working with events – Rich web controls
	Week 5	Mid semester Test-I
February (Month 2)	Week 6	Custom web controls – Validation controls – Debugging ASP .NET pages.
	Week 7	ADVANCED ASP .NET ASP .NET configuration – Business object BUILDING WEB SERVICES Introduction to web services – Web services Infrastructure
	Week 8	SOAP – Building a web service – Deploying and publishing web services
	Week 9	Finding web services – Consuming web services.
March (Month 3)	Week 10	Deploying and publishing web services – Finding web services – Consuming web services.
	Week 11	Mid semester Test-II
	Week 12	ADO .NET Basics of ADO .NET – Changes from ADO – Data
	Week 13	Table – Data Views – Data Set
	Week 14	Data Relation Type – ADO .NET Managed Providers – OleDb and SQL Managed Providers
April (Month 4)	Week 15	OleDb Data Adapter Type.
	Week 16	Revision

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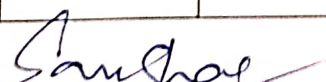
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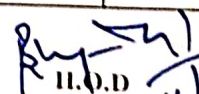
LESSON PLAN (2019-20)

Class BCA 5th sem

Subject Software Engineering

SESSION	TOPIC	REFERENCES
Week 1	Introduction to Software Engineering : Origin, Definition and goals of Software Engineering.	
Week 2	Comparison with traditional Engineering Disciplines Software development process,	
Week 3	Process Models : Waterfall, Spiral	
Week 4	. Prototyp Model ,Iterative Model, Error distribution	
Week 5	Mid semester Test-I	
Week 6	Effort distribution, Role of metrics and measurements.	
Week 7	Software Project Planning : Planning activities, Team structure (Democratic, Chief-programmer, Hierarchical).	
Week 8	Software Requirement Specification : Role, characteristics and components of SRS. Problem Analysis : Structuring Information, DFD and Data Dictionary	
Week 9	Software Design : Design Objectives and principles, Design concepts - Abstraction, Information hiding, Concurrency,	
Week 10	Modularity. Coupling-Cohesion criteria. Structured design methodology. Design specification, Metrics	
Week 11	Mid semester Test-II	
Week 12	Coding, Structured coding techniques : Data Encapsulation, Go to statement, Recursion, Single Entry Single Exit criteria. Structured programming.	
Week 13	Testing Fundamentals : Error, Fault, Failure and Reliability, ,	
Week 14	Levels of testing, Test case and Test criteria	
Week 15	Top-down and bottom-up approach, Test case execution and analysis, Test report.	
Week 16	Revision	


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