J.B. INSTITUTE OF ENGINEERING & TECHNOLOGY

(AUTONOMOUS)

ACADEMIC YEAR **2013-14**

http://www.jbiet.edu.in

	COURSE PLAN	2013-14
		Regulation: R11

FACULTY DETAILS:

Name of the Faculty:: B.Ravindra kumar
Designation: Assistant professor
Department:: Computer Science & Engineering

COURSE DETAILS

Name Of The Programme:: B.Tech Batch:: 2011
Designation:: B.Tech
Year III B.Tech Semester II
Department:: Computer Science and Engineering
Title of The Subject Web Technologies Subject Code 6756032
No of Students 65

	COURSE PLAN	2013-14
		Regulation: R11

FACULTY DETAILS:

Name of the Faculty:: B.Ravindra Kumar
Designation: Assistant Professor
Department:: Computer Science and Engineering

1. TARGET

a) Percentage Pass 90%

b) Percentage I class 75%

2. COURSE PLAN

(Please write how you intend to cover the contents: i.e., coverage of Units by lectures, guest lectures, design exercises, solving numerical problems, demonstration of models, model preparation, or by assignments, etc.)

a) Coverage of units by lectures
b) Design exercises
c) Assignments

3. METHOD OF EVALUATION

3.1. ☐ Continuous Assessment Examinations (CAE 1, CAE 2)

3.2. ☐ Assignments / Seminars

3.3. ☐ Mini Projects

3.4. ☐ Quiz

3.5. ☐ Term End Examination

3.6. ☐ Others

4. List out any new topic(s) or any innovation you would like to introduce in teaching the subject in this Semester.

Signature of HOD
Date:

Signature of Faculty
Date:

	GUIDELINES TO STUDY THE SUBJECT	2013-14
		Regulation: R11

FACULTY DETAILS:

Name of the Faculty::	B.Ravindrakumar
Designation:	Assistant Professor
Department::	CSE
Guidelines for Preparing the Course:	

Course Description:

This program exposes students to fundamental knowledge and skills utilized in the web design field. This program can help individuals apply a variety of applications and authoring tools to the design, edit and launching of documents, images, graphics, sound and multimedia on the Internet. It allows students to gain an in-depth understanding of new web technologies, services and business models in fixed and mobile networks. The course will cover topics such as HTML,xml, JavaScript, javabean, and its technologies, server side applications such as servlet, JSP, JDBC and other web technologies. This course introduces Worldwide Web Consortium (W3C) standard client-side Internet programming using industry-established practices. Topics include JavaScript, markup elements, style sheets, validation, accessibility, standards, and browsers. Upon completion, students should be able to develop hand-coded web pages using current markup standards

Course Objectives:

1. Create static web pages with HTML.
   a) Format color and text b)Add graphic images c)Add links to web pages
   d) Create forms e) Create tables f)create FRAMES g) Develop web pages using CSS page layout
2. Dynamic HTML with Java Script, Methods in JavaScript, Functions in JavaScript, Events
3. Intraduction to XML ,DTD,XML Schemas, DOM, Presenting XML,Using XML Processors: DOM and SAX
4. Introduction to Java Beans, Advantages of Java Beans,BDK Introspection, Using Bound properties,
5. Bean Info Interface,Constrained properties,Persistence,Customizes Java Beans API,Introduction to EJB's
6. Tomcat web server, Introduction to Servlets, Lifecycle of a Servlet, JSDK,
7. The Servlet API,Using Cookies-Session Tracking
8. JSP Processing. JSPApplication Design with MVC ,Setting Up JSP Environment
9. Generating Dynamic content Using Scripting Elements , JSP implicit objects, Conditional Processing, Displaying values using an Expression, Declaring variables , methods and Error handling and Detection
10. Database Access : Database Programming using JDBC -ODBC, Database from a JSP Page Studying Javax.sql.*package, Accessing a Database from a JSP Page Application – Specific Database
11. Introduction to struts framework

Learning Outcomes:

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

1. Create web pages with HTML5.
   a) Format color and text b)Add graphic images c)Add links to web pages
2. Organize web pages
   a) Develop web pages using CSS page layout b) Create forms c) Create tables
3. Create dynamic web pages with JavaScript.
4. Create web pages with XML
5. Create Bean software component with BDK
6. Develop server side applications with servlet
7. Develop server side applications with JSP.
8. Develop server side applications with JSP And JDBC
9. Students will demonstrate the ability to modify, add, and delete data in a database through a web page.
10. Students will recognize the proper way of structuring a fully functional website.
11. Students will utilize their design skills to create a professional website.

	COURSE OBJECTIVES	2013-14
		Regulation: R11

FACULTY DETAILS:

Name of the Faculty:: B.Ravindra Kumar
Designation: Assistant Professor
Department:: CSE

On completion of this Subject / Course the student shall be able to:

S.No.	Objectives	Outcomes
1.	Create static web pages with HTML. a) Format color and text b)Add graphic images c)Add links to web pages d) Create forms e) Create tables f)create FRAMES g) Develop web pages using CSS page layout	1,2
2.	Dynamic HTML with Java Script, Methods in JavaScript, Functions in JavaScript, Events	3
3.	Intraduction to XML ,DTD,XML Schemas, DOM, Presenting XML,Using XML Processors: DOM and SAX	4
4.	Introduction to Java Beans, Advantages of Java Beans,BDK Introspection, Using Bound properties,	5
5.	Bean Info Interface,Constrained properties,Persistence,Customizes Java Beans API,Introduction to EJB's	5
6.	Tomcat web server, Introduction to Servlets, Lifecycle of a Servlet, JSDK	6
7.	The Servlet API,Using Cookies-Session Tracking	6
8.	JSP Processing. JSPApplication Design with MVC ,Setting Up JSP Environment	7
9.	Generating Dynamic content Using Scripting Elements , JSP implicit objects, Conditional Processing, Displaying values using an Expression, Declaring variables , methods and Error handling and Detection	8
10.	Database Access : Database Programming using JDBC -ODBC, Database from a JSP Page Studying Javax.sql.*package, Accessing a Database from a JSP Page Application – Specific Database , Introduction to struts framework	9,10

Signature of Faculty
Date:

Note: For each of the OBJECTIVE indicate the appropriate OUTCOMES to be achieved.
Kindly refer Page 16, to know the illustrative verbs that can be used to state the objectives.

	COURSE OUTCOMES	2013-14
		Regulation: R11

FACULTY DETAILS:

Name of the Faculty:: B.Ravindrakumar
Designation: Assistant Professor
Department:: CSE

The expected outcomes of the Course / Subject are:

S.No.	General Categories of Outcomes	Specific Outcomes of the Course
A.	An ability to apply knowledge of mathematics, science, and engineering	
B.	An ability to design and conduct experiments, as well as to analyze and interpret data	
C.	An ability to design a system, component, or process to meet desired needs within realistic Constraints such as economic, environmental, social, political, ethical, health and safety, Manufacturability and sustainability	
D.	An ability to function on multi-disciplinary teams	
E.	An ability to identify, formulate, and solve engineering problems	
F.	An understanding of professional and ethical responsibility	
G.	An ability to communicate effectively	
H.	The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context	
I.	A recognition of the need for, and an ability to engage in life-long learning	
J.	A knowledge of contemporary issues	
K.	An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.	

Objectives – Outcome Relationship Matrix (Indicate the relationships by☒mark).

Outcomes / Objectives	A	B	C	D	E	F	G	H	I	J	K
1.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
2.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
3.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
4.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
5.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
6.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
7.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
8.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
9.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
10.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

	COURSE SCHEDULE	2013-14
		Regulation: R11

FACULTY DETAILS:

Name of the Faculty:: B.Ravindra Kumar
Designation: Assistant Professor
Department:: CSE
The Schedule for the whole Course / Subject is:: 76

S. No.	Description	Duration (Date)		Total No. of Periods
		From	To	
1.	HTML, CSS	02-12-13	13-12-13	10
2.	JAVASCRIPT	16-12-13	30-12-13	11
3.	XML	02-01-14	03-02-14	9
4.	JAVA BEANS	4-02-14	17-02-14	8
5.	SERVLET	19-02-14	07-03-13	10
6.	INTRODUCTION TO JSP	10-03-13	17-03-13	9
7	APPLICATIONS OF JSP	18-03-13	27-03-13	9
8	DATABASE CONNECTION	1-04-13	08-04-13	8

Total No. of Instructional periods available for the course: 76 Hours / Periods

	SCHEDULE OF INSTRUCTIONS UNIT - I	2013-14 Regulation: R11

FACULTY DETAILS:

Name of the Faculty:: B.Ravindra Kumar
Designation: Assistant Professor
Department:: CSE
The Schedule for the whole Course / Subject is:: 10

Sl. No.	Date	No. of Periods	Topics / Sub - Topics	Objectives & Outcome Nos.	References (Text Book, Journal…) Page No___ to ___
1	2-12-13	1	HTML Common tags,	1 1.a	T1(51-55)
2	3-12-13	1	Basic Text Markup, links	1 1.a	T1(56,70)
3	4-12-13	1	List	1 1.b	T1(73-78)
4	5-12-13	1	Tables	1 2.c	T1(79-86)
5	6-12-13	1	Images	1 1.c	T1(65-69)
6	9-12-13	1	Forms	1 2.b	T1(87-98)
7	10-12-13	1	Frames	1 1.b	T1(99-103)
8	11-12-13	1	IMG MAP	1 2.b	T1(104-105)
9	13-12-13	2	Cascading Style sheets	1 2.a	T(114-143)

T1: Programming the World Wide Web, Robert W.Sebesta, Pearson 4th Edition

Signature of Faculty
Date

Note: 1. ENSURE THAT ALL TOPICS SPECIFIED IN THE COURSE ARE MENTIONED.
2. ADDITIONAL TOPICS COVERED, IF ANY, MAY ALSO BE SPECIFIED **BOLDLY**.
3. MENTION THE CORRESPONDING COURSE OBJECTIVE AND OUT COME NUMBERS AGAINST EACH TOPIC.

	SCHEDULE OF INSTRUCTIONS UNIT - II	2013-14 Regulation: R11

FACULTY DETAILS:

Name of the Faculty:: B.Ravindra Kumar
Designation: Assistant Professor
Department:: CSE
The Schedule for the whole Course / Subject is:: 11

Sl. No.	Date	No. of Periods	Topics / Sub - Topics	Objectives & Outcome Nos.	References (Text Book, Journal...) Page No___ to ___
1	16-12-13	1	Introduction to Java Scripts	2 3	T1(152-156)
2	17-12-13	1	Operators, control statements in Java Scripts	2 3	T1(159-185)
3	18-12-13	2	Objects in Java Script,	2 3	T1(180,209,240)
4	20-12-13	1	Arrays	2 3	T1(181-185)
5	23-12-13	1	Functions in JavaScript	2 3	T1(186-190)
6	26-12-13	1	Methods in JavaScript	2 3	T1(192-198)
7	30-12-13	2	Dynamic HTML with Java Script	2 3	T1(248-278)
8	31-12-13	2	Events	2 3	T1(213-235)

T1: Programming the World Wide Web, Robert W.Sebesta, Pearson 4th Edition

Signature of Faculty
Date

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	SCHEDULE OF INSTRUCTIONS UNIT - III	2013-14 Regulation: R11

FACULTY DETAILS:

Name of the Faculty:: B.Ravindra Kumar
Designation: Assistant Professor
Department:: CSE
The Schedule for the whole Course / Subject is:: 9

Sl. No.	Date	No. of Periods	Topics / Sub - Topics	Objectives & Outcome Nos.	References (Text Book, Journal…) Page No___ to ___
1	1-01-14	1	Introduction to XML	3 4	T1(284-289)
2	2-01-14	1	Document type definition	3 4	T1(290-298)
3	3-01-14	2	XML Schemas	3 4	T1(299-308)
4	20-01-14	1	Document Object model	3 4	T1(209-210)
5	22-01-14	1	Presenting XML	3 4	T1(309-319)
6	23-01-14	1	Using XMLProcessors: DOM and SAX	3 4	T1(320-323)
7	29-01-14	1	DOM	3 4	RT1
8	30-01-14	1	SAX	3 4	RT1

T1: Programming the World Wide Web, Robert W.Sebesta, Pearson 4th Edition

Signature of Faculty
Date

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	SCHEDULE OF INSTRUCTIONS UNIT - IV	2013-14 Regulation: R11

FACULTY DETAILS:

Name of the Faculty:: B.Ravindra Kumar
Designation: Assistant Professor
Department:: CSE
The Schedule for the whole Course / Subject is:: 8

Sl. No.	Date	No. of Periods	Topics / Sub - Topics	Objectives & Outcome Nos.	References (Text Book, Journal…) Page No___ to ___
1	31-1-14	1	Introduction to Java Beans	4 5	T2(885-886)
2	3-2-14	1	Advantages of Java Beans,	4 5	T2(887-888)
3	4-2-14	1	BDK Introspection	4 5	T2(888-901)
4	10-2-14	1	Using Bound properties,	4 5	T2(902-903)
5	12-2-14	1	Bean Info Interface	5 5	T2(903-904)
6	13-2-14	1	Constrained properties, Persistence	5 5	T2(905-906)
7	14-2-14	1	Customizes, Java Beans API	5 5	T2(906)
8	17-2-14	1	Introduction to EJB's	5 5	T2 (911)

T2:Java 2 Complete Reference 5th Edition

Signature of Faculty
Date

Note: 1. ENSURE THAT ALL TOPICS SPECIFIED IN THE COURSE ARE MENTIONED.
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MENTION THE CORRESPONDING COURSE OBJECTIVE AND OUT COME NUMBERS AGAINST EACH TOPIC.

	SCHEDULE OF INSTRUCTIONS UNIT - V	2013-14 Regulation: R11

FACULTY DETAILS:

Name of the Faculty:: B.Ravindra Kumar
Designation: Assistant Professor
Department:: CSE
The Schedule for the whole Course / Subject is:: 10

Sl. No.	Date	No. of Periods	Topics / Sub - Topics	Objectives & Outcome Nos.	References (Text Book, Journal…) Page No___ to ___
1	19-2-14	1	Introduction to Servelets: Lifecycle of a Serverlet,	6 6	T2(949-950)
2	24-2-14	1	JSDK, The Servelet API	6 6	T2(951-954)
3	25-2-14	1	The javax.servelet Package	6 6	T2(954-955)
4	26-2-14	1	Reading Servelet parameters	6 6	T2(955-959)
5	28-2-14	1	Initialization parameters	6 6	T2(960-961)
6	3-3-14	1	The javax.servelet HTTP package	6 6	T2(962-963)
7	4-3-14	1	Handling Http Request & Responses	7 6	T2(963-974)
8	5-3-14	1	Using Cookies	7 6	T2(975-976)
9	6-3-14	1	Session Tracking	7 6	T2(977-978)
10	7-3-14	1	Security Issues	7 6	T2(979)

T2: Java 2 Complete Reference 5th Edition

Signature of Faculty
Date

Note: 1. ENSURE THAT ALL TOPICS SPECIFIED IN THE COURSE ARE MENTIONED.
2. ADDITIONAL TOPICS COVERED, IF ANY, MAY ALSO BE SPECIFIED **BOLDLY**.
MENTION THE CORRESPONDING COURSE OBJECTIVE AND OUT COME NUMBERS AGAINST EACH TOPIC.

	SCHEDULE OF INSTRUCTIONS UNIT - VI	2013-14 Regulation: R11

FACULTY DETAILS:

Name of the Faculty:: B.Ravindra Kumar
Designation: Assistant Professor
Department:: CSE

The Schedule for the whole Course / Subject is::

Sl. No.	Date	No. of Periods	Topics / Sub - Topics	Objectives & Outcome Nos.	References (Text Book, Journal…) Page No___ to ___
1	10-03-14	1	The Problem with Servlet Development Kit	8 7	T3
2	11-03-14	1	Introduction to JSP Processing.	8 7	T3
3	12-03-14	2	Application Design with MVC Setting Up	8 7	T3
4	13-03-14	1	JSP Environment: Installing the Java Software	9 7	T3
5	14-03-14	2	The Anatomy of a JSP Page,	9 7	T3
6	15-03-14	1	Tomcat Server	9 7	T3
7	17-03-14	1	Testing Tomcat	9 7	T3

T3: Core Servlets and Java Server Pages volume 1:Advanced Technologies 2nd Edition

Signature of Faculty
Date

Note: 1. ENSURE THAT ALL TOPICS SPECIFIED IN THE COURSE ARE MENTIONED.
2. ADDITIONAL TOPICS COVERED, IF ANY, MAY ALSO BE SPECIFIED **BOLDLY**.
MENTION THE CORRESPONDING COURSE OBJECTIVE AND OUT COME NUMBERS AGAINST EACH TOPIC.

	SCHEDULE OF INSTRUCTIONS UNIT - VII	2013-14 Regulation: R11

FACULTY DETAILS:

Name of the Faculty:: B.Ravindra Kumar
Designation: Assistant Professor
Department:: CSE

The Schedule for the whole Course / Subject is::

Sl. No.	Date	No. of Periods	Topics / Sub - Topics	Objectives & Outcome Nos.	References (Text Book, Journal…) Page No___ to ___
1	18-3-14	1	JSP Application Development,	9 8	T3
2	19-3-14	1	Generating Dynamic content	9 8	T3
3	20-3-14	1	Using Scripting Elements , JSP implicit objects	9 8	T3
4	21-3-14	2	Conditional Processing, displaying values using an Expression	9 8	T3
5	24-3-14	2	Declaring variables , methods and Error handling and Detection	9 8	T3
6	25-3-14	1	Sharing data between jsps-sharing session and application data	10 9	T3
7	26-3-14	1	Requests, and Users Passing Control and Date between Pages – Sharing Session	10 9	T3
8	27-3-14	1	Application Data – Memory Usage Considerations	10 9	T3

T3: Core Servlets and Java Server Pages volume 1:Advanced Technologies 2nd Edition

Signature of Faculty
Date

Note: 1. ENSURE THAT ALL TOPICS SPECIFIED IN THE COURSE ARE MENTIONED.
2. ADDITIONAL TOPICS COVERED, IF ANY, MAY ALSO BE SPECIFIED **BOLDLY**.
MENTION THE CORRESPONDING COURSE OBJECTIVE AND OUT COME NUMBERS AGAINST EACH TOPIC.

	SCHEDULE OF INSTRUCTIONS UNIT - VIII	2013-14 Regulation: R11

FACULTY DETAILS:

Name of the Faculty:: B.Ravindra Kumar
Designation: Assistant Professor
Department:: CSE

The Schedule for the whole Course / Subject is::

Sl. No.	Date	No. of Periods	Topics / Sub - Topics	Objectives & Outcome Nos.	References (Text Book, Journal…) Page No___ to ___
1	1-04-14	1	Database Access : Database Programming using JDBC		T3
2	2-04-14	1	Accessing Database from a JSP Page		T3
3	3-04-14	1	Studying Javax.sql.*		T3
4	4-04-14	2	package, Accessing a Database from a JSP Page		T3
5	7-04-14	2	Sharing data from a java bean to jsp pages		T3
6	8-04-14	1	Introduction to Struts Framework		T3

T3: Core Servlets and Java Server Pages volume 1:Advanced Technologies 2nd Edition

Signature of Faculty
Date

Note: 1. ENSURE THAT ALL TOPICS SPECIFIED IN THE COURSE ARE MENTIONED.
2. ADDITIONAL TOPICS COVERED, IF ANY, MAY ALSO BE SPECIFIED **BOLDLY**.
MENTION THE CORRESPONDING COURSE OBJECTIVE AND OUT COME NUMBERS AGAINST EACH TOPIC.

	COURSE COMPLETION STATUS	2013-14
		Regulation: R11

FACULTY DETAILS:

Name of the Faculty:: B.Ravindrakumar

Subject:: Web Technologies Subject Code 6756032

Department:: CSE

Actual Date of Completion & Remarks, if any

Units	Remarks	Nos. of Objectives Achieved
Unit 1	Completed as per schedule	1(a,b,c,d, e,f)
Unit 2	Completed as per schedule	2
Unit 3	Completed as per schedule	3
Unit 4	Completed as per schedule	4,5
Unit 5	Completed as per schedule	6,7
Unit 6		
Unit 7		
Unit 8		

Signature of Dean of School
Date:

Signature of Faculty
Date:

NOTE: AFTER THE COMPLETION OF EACH UNIT MENTION THE NUMBER OF OBJECTIVES ACHIEVED.

	TUTORIAL SHEETS - I	2013-14
		Regulation: R11

FACULTY DETAILS:

Name of the Faculty:: B.Ravindra Kumar
Designation: Assistant Professor
Department:: CSE
The Schedule for the whole Course / Subject is::

Date:

This Tutorial corresponds to Unit Nos.I,II Time:

Q1.

a) List and explain various HTML tags with examples and usage
b) Give a good account of Java Scripts and objects in Java Scrip

Q2.

a) Write a HTML document that defines a table with two levels of column labels: an overall label, Meals, and three secondary labels, Breakfast, Lunch, and Dinner. There must be two levels of row labels: an overall label, Foods, and two secondary labels, Bread, Vegetable. Populate the table with sample data.

b) Compare and Contrast and tags. How layers can be implemented using tag.

Q3.

a) Write in detail on HTML and CSS with suitable examples.
b) Write a java script to verify a phone number, email-id and date formats.
c) Compare and contrast HTML and DHTML with suitable examples

Q4.

Write a java script to validate the credit card data submitted form the following fields "name"(only letters and not more than 10 letters) "card no" (consisting of only 16 digits,4 digits separated by space) "expiry date"(above the current date)

Q5.

Explain the following input components in HTML forms with proper syntax of the corresponding HTML tags.

a) Text Input
b) Selectable list with multiple selection option
c) Radio Buttons.

Please write the Questions / Problems / Exercises which you would like to give to the students and also mention the objectives to which these questions / Problems are related.

Signature of Dean of School
Date:

Signature of Faculty
Date:

	TUTORIAL SHEETS - II	2013-14
		Regulation: R11

FACULTY DETAILS:

Name of the Faculty:: B.Ravindra Kumar
Designation: Assistant Professor
Department:: CSE
The Schedule for the whole Course / Subject is::

Date:

This Tutorial corresponds to Unit Nos.III,IV,V Time:

Q1.

a) Explain XML schemas and Document Object Model. Give a short note on XML preprocessors.
b) Write Notes on:
   i) BDK introspection ii) Java Beans API iii) EJB'S

Q2.

a) What are the limitations of Document Type Definitions (DTDs)? How these are overcome using XML schema?
b) Write XML Schema for library information system.
c) Define Introspection? Explain in detail the two methods that support Introspection

Q3.

a) What is Document Object Model (DOM)? Explain the DOM levels.
b) Explain the working of XSL.

Q4.

a) Describe Tomcat server installation and testing Tomcat
b) List and describe the classes and interfaces that are provided in the javax.servlet package.

Q5.

a. What is a servlet? Explain lifecycle of a servlet. Illustrate with an example program
b) Discuss the structure of HTTP request and HTTP response in Servlets with example.
c) What is the use of cookie in servlet application? Explain with an example.

Please write the Questions / Problems / Exercises which you would like to give to the students and also mention the objectives to which these questions / Problems are related.

Signature of Dean of School
Date:

Signature of Faculty
Date:

	TUTORIAL SHEETS - III	2013-14
		Regulation: R11

FACULTY DETAILS:

Name of the Faculty:: B.Ravindra Kumar
Designation: Assistant Professor
Department:: CSE

Date:

This Tutorial corresponds to Unit Nos. VI,VII,VIII Time:

Q1.

A. Explain about JSP application design with MVC

Explain how error handling and debugging will be done in JSP.

Q2.

A. Explain JSP Action elements in detail with an example.
B. Compare different scopes provided by JSP and Servlets?

Q3.

A. What is JSP? Explain life cycle of JSP with example.

What are the advantages of JSP over various server side programming techniques

Q4.

a) Discuss different JDBC drivers with its architectures and explain the advantages and disadvantages of all JDBC drivers?
b) Write short notes of the following
   i. Purpose of javax.sql.* package. Ii. Anatomy of a JSP page. Iii, Servlet Context interface
c) Explain the architecture of struts.

Q5.

A. Write a JDBC program to delete the records using JSP.
B. Explain how JDBC performs mapping between JAVA and SQL data types.

Please write the Questions / Problems / Exercises which you would like to give to the students and also mention the objectives to which these questions / Problems are related.

Signature of Dean of School
Date:

Signature of Faculty
Date:

	ILLUSTRATIVE VERBS FOR STATING INSTRUCTIONAL OBJECTIVES	2013-14 Regulation: R11

These verbs can also be used while framing questions for Continuous Assessment Examinations as well as for End – Semester (final) Examinations.

ILLUSTRATIVE VERBS FOR STATING **GENERAL OBJECTIVES**

Know Comprehend	Understand Apply	Analyze Design	Generate Evaluate

ILLUSTRATIVE VERBS FOR STATING **SPECIFIC OBJECTIVES:**

A. Cognitive Domain

1	2	3	4	5	6
Knowledge	**Comprehension Understanding**	**Application** of knowledge & comprehension	**Analysis** of whole w.r.t. its constituents	**Synthesis** combination of ideas/constituents	**Evaluation** judgement
Define	Convert	Change	Breakdown	Categorize	Appraise
Identify	Defend	Compute	Differentiate	Combine	Compare
Label	Describe (a	Demonstrate	Discriminate	Compile	Conclude
List	procedure)	Deduce	Distinguish	Compose	Contrast
Match	Distinguish	Manipulate	Separate	Create	Criticize
Reproduce	Estimate	Modify	Subdivide	Devise	Justify
Select	Explain why/how	Predict		Design	Interpret
State	Extend	Prepare		Generate	Support
	Generalize	Relate		Organize	
	Give examples	Show		Plan	
	Illustrate	Solve		Rearrange	
	Infer			Reconstruct	
	Summarize			Reorganize	
				Revise	

B. Affective Domain		**C. Psychomotor Domain (skill development)**				
Adhere	Resolve	Bend	Dissect	Insert	Perform	Straighten
Assist	Select	Calibrate	Draw	Keep	Prepare	Strengthen
Attend	Serve	Compress	Extend	Elongate	Remove	Time
Change	Share	Conduct	Feed	Limit	Replace	Transfer
Develop		Connect	File	Manipulate	Report	Type
Help		Convert	Grow	Move preciselyReset		Weigh
Influence		Decrease	Handle	Operate	Run	
Initiate		Demonstrate	Increase	Paint	Set	

	LESSON PLAN Unit-1	2013-14
		Regulation: R11

Name of the Faculty: B.Ravindra Kumar

Subject Web Technologies Subject Code 6756032

Unit I

INSTRUCTIONAL OBJECTIVES: 10

Session No	Topics to be covered	Time	Ref	Teaching Method
1	HTML Common tags,	50min	T1	Black Board
2	Basic Text Markup, links	50min	T1	Black Board
3	List	50min	T1	Black Board
4	Tables	50min	T1	Black Board
5	Images	50min	T1	Black Board
6	Forms	50min	T1	Black Board
7	Frames	50min	T1	Black Board
8	IMG MAP	50min	T1	Black Board
9,10	Cascading Style sheets	100min	T1	Black Board

On completion of this lesson the student shall be able to(Outcomes)

1. Create static web pages.
2. Create web pages with HTML5.
   a) Format color and text b) Add graphic images c) Add links to web pages
2. Organize web pages
   a) Develop web pages using CSS page layout b) Create forms c) Create tables

	ASSIGNMENT **Unit-I**	2013-14
		Regulation: R11

Assignment / Questions

1

1. Write a HTML document that defines a table with two levels of column labels: an overall label, Meals, and three secondary labels, Breakfast, Lunch, and Dinner. There must be two levels of row labels: an overall label, Foods, and two secondary labels, Bread, Vegetable. Populate the table with sample data.

b) Compare and Contrast and tags. How layers can be implemented using tag.

3. Write HTML code to create a frame with a table contents on the left side of the window, and have each entry in the table of contents. Use internal linking to scroll down the document frame to the appropriate subsection.

4. Write in detail on HTML and CSS with suitable examples.

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Note: Mention for each question the relevant objectives and outcomes.

	LESSON PLAN Unit-II	2013-14
		Regulation: R11

Name of the Faculty: B.Ravindrakumar

Subject Web Technologies Subject Code 6756032

Unit II

INSTRUCTIONAL OBJECTIVES:

Session No	Topics to be covered	Time	Ref	Teaching Method
11	Introduction to Java Scripts	50min	T1	Black Board
12	Operators, control statements in Java Scripts	50min	T1	Black Board
13,14	Objects in Java Script,	100min	T1	PPT
15	Arrays	50min	T1	Black Board
16	Functions in JavaScript	50min	T1	Black Board
17	Methods in JavaScript	50min	T1	PPT
18,19	Dynamic HTML with Java Script	100min	T1	PPT
20,21	Events	100min	T1	Black Board

On completion of this lesson the student shall be able to

1. Create dynamic styles
2. Create animation on web page
3. Use regular expression for form validation

	ASSIGNMENT **Unit-II**	2013-14
		Regulation: R11

Assignment / Questions

2. Give a good account of Java Scripts and objects in Java Script.

2.What is meant by scripting language? Describe the differences between Java and JavaScript.

3.Explain the scope of variable in JavaScript with an example.

4. Write a java script to validate the credit card data submitted form the following fields “name”(only letters and not more than 10 letters) “card no” (consisting of only 16 digits,4 digits separated by space) “expiry date”(above the current date)

5.Explain the characteristics of DHTML.

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Note: Mention for each question the relevant objectives and outcomes.

	LESSON PLAN Unit-III	2013-14
		Regulation: R11

Name of the Faculty: B.Ravindra Kumar

Subject Web Technologies Subject Code 6756032

Unit III

INSTRUCTIONAL OBJECTIVES:

Session No	Topics to be covered	Time	Ref	Teaching Method
22	Introduction to XML	50min	T1	Black Board
23	Document type definition	50min	T1	Black Board
24,25	XML Schemas	100min	T1	PPT
26	Document Object model	50min	T1	Black Board
27	Presenting XML	50min	T1	Black Board
28	Using XMLProcessors: DOM and SAX	50min	T1	PPT
29	DOM	50min	T1	Black Board
30	SAX	50min	T1	Black Board

On completion of this lesson the student shall be able to(Outcomes)

1. Work with XML programmatically..
2. Use XSLT to transform XML bound information to alternate formats.
3. The student will be able to write an XML schema.
4. The student will be able to demonstrate how it is utilised in entity modelling.
5. The student will be able to describe XML syntax correctly.

	ASSIGNMENT **Unit-III**	2013-14 Regulation: R11

Assignment / Questions

1. Explain XML schemas and Document Object Model. Give a short note on XML pre-processors
2. What are the limitations of Document Type Definitions (DTDs)? How these are overcome using XML schema?
3. Write XML Schema for library information system.

4. What is Document Object Model (DOM)? Explain the DOM levels.
5. Explain the working of XSL.

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Note: Mention for each question the relevant objectives and outcomes.

	LESSON PLAN **Unit-IV**	2013-14 Regulation: R11

Name of the Faculty: B.Ravindra Kumar

Subject Web Technologies Subject Code 6756032

Unit IV

INSTRUCTIONAL OBJECTIVES:

Session No	Topics to be covered	Time	Ref	Teaching Method
31	Introduction to Java Beans	50min	T2	Black Board
32	Advantages of Java Beans,	50min	T2	Black Board
33	BDK Introspection	50min	T2	PPT
34	Using Bound properties,	50min	T2	Black Board
35	Bean Info Interface	50min	T2	Black Board
36	Constrained properties, Persistence	50min	T2	PPT
37	Customizes, Java Beans API	50min	T2	Black Board
38	Introduction to EJB's	50min	T2	Black Board

On completion of this lesson the student shall be able to (Outcomes)

1. Create an Enterprise Java Beans application
2. Create Bean software component with BDK

	ASSIGNMENT **Unit-IV**	2013-14
		Regulation: R11

Assignment / Questions

1. Describe the different types of properties used in java beans with an example.
2. Explain the advantages and disadvantages of Java Beans.
3. How EJBs are related to simple java beans? What are the differences between them?
4. Describe BDK Introspection
5. What is a JAVA Bean? Discuss the advantages of JAVA Beans

Signature of Faculty

Note: Mention for each question the relevant objectives and outcomes.

	LESSON PLAN Unit-V	2013-14
		Regulation: R11

Name of the Faculty: B.Ravindra Kumar

Subject Web Technologies Subject Code 6756032

Unit V

INSTRUCTIONAL OBJECTIVES:

Session No	Topics to be covered	Time	Ref	Teaching Method
39	Introduction to Servlets: Lifecycle of a Servrlet,	50min	T2	Black Board
40	JSDK, The Servlet API	50min	T2	Black Board
41	The javax.servlet Package	50min	T2	PPT
42	Reading Servlet parameters	50min	T2	Black Board
43	Initialization parameters	50min	T2	Black Board
44	The javax.servlet HTTP package	50min	T2	PPT
45	Handling Http Request & Responses	50min	T2	Black Board
46	Using Cookies	50min	T2	Black Board
47	Session Tracking	50min	T2	Black Board
48	Security Issues	50min	T2	Black Board

On completion of this lesson the student shall be able to(Outcomes)

1. Develop server side applications with servlet
2. Design a Web Application that uses Java Servlets

	ASSIGNMENT **Unit-V**	2013-14 Regulation: R11

Assignment / Questions

1. What is a Servlet ? What are the advantages of Servlets over CGI based applications?
2. Write a Servlet program for reading Servlet parameters, and Reading initialization parameters.
3. Describe Tomcat server installation and testing Tomcat
4. List and describe the classes and interfaces that are provided in the javax.servlet package
5. .List and describe the classes and interfaces that are provided in the javax.servlet http package
6. Explain the difference between doGet method and doPost method
7. Explain the concept of adding and deleting a cookie from the JSP page.
8. What is session tracking technique? Explain HTTPsession & cookies with suitable example

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Note: Mention for each question the relevant objectives and outcomes.

	LESSON PLAN **Unit-VI**	2013-14 Regulation: R11

Name of the Faculty: B.Ravindra Kumar

Subject Web Technologies Subject Code 6756032

Unit VI

INSTRUCTIONAL OBJECTIVES:

Session No	Topics to be covered	Time	Ref	Teaching Method
49	The Problem with Servlet Development Kit	50min	T3	Black Board
50	Introduction to JSP Processing.	50min	T3	Black Board
51,52	Application Design with MVC Setting Up	100min	T3	PPT
53	JSP Environment: Installing the Java Software	50min	T3	Black Board
54,55	The Anatomy of a JSP Page,	100min	T3	Black Board
56	Tomcat Server	50min	T3	PPT
57	Testing Tomcat	50min	T3	Black Board

On completion of this lesson the student shall be able to (Outcomes)

1. Instatall Tomcat Server and able to run simple server side program
2, Develop server side applications with JSP.
3. Implement a web application using java servlets and java server pages (jsp).

	ASSIGNMENT **Unit-VI**	2013-14
		Regulation: R11

Assignment / Questions

1. Explain about JSP application design with MVC
2. Explain JSP Action elements in detail with an example
3. What is JSP? Explain life cycle of JSP with example.
4. Describe the setting up of the JSP Environment.
5. Explain the different types of JSP Elements.

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Note: Mention for each question the relevant objectives and outcomes.

	LESSON PLAN Unit-VII	2013-14
		Regulation: R11

Name of the Faculty: B.Ravindra Kumar

Subject Web Thenologies Subject Code

Unit VII

INSTRUCTIONAL OBJECTIVES:

Session No	Topics to be covered	Time	Ref	Teaching Method
58	JSP Application Development	50min	T3	Black Board
59	Generating Dynamic content	50min	T3	Black Board
60	Using Scripting Elements , JSP implicit objects	50min	T3	PPT
61,62	Conditional Processing, displaying values using an Expression	100min	T3	Black Board
63	Declaring variables , methods and Error handling and Detection	100min	T3	Black Board
64	Sharing data between jsps-sharing session and application data	50min	T3	PPT
65	Requests, and Users Passing Control and Date between Pages – Sharing Session	50min	T3	Black Board
66	Application Data – Memory Usage Considerations	50min	T3	Black Board

On completion of this lesson the student shall be able to

1. Develop server side applications with JSP.
2. Develop server side applications with JSP And JDBC
3. Students will demonstrate the ability to modify, add, and delete data in a database through a web page.
4. Write applications for dynamic web sites which uses DB storages

	ASSIGNMENT **Unit-VII**	2013-14 Regulation: R11

Assignment / Questions

1. Explain how error handling and debugging will be done in JSP.
2. Explain about JSP implicit objects ?
3. Describe how to access a database from a JSP page.
4. Develop a JSP with a bean in the application scope
5. Write a JDBC program to delete the records using JSP.
6. Create a table which should contain at least the following fields: name, password, email-id, number (these should hold the data from the registration form). Write a JSP to Insert the details of the users who register with the web site, whenever a new user clicks the submit button in the registration page

Signature of Faculty

Note: Mention for each question the relevant objectives and outcomes.

	LESSON PLAN **Unit-VIII**	2013-14 Regulation: R11

Name of the Faculty: B.Ravindra Kumar

Subject Web Technologies Subject Code

Unit VIII

INSTRUCTIONAL OBJECTIVES:

Session No	Topics to be covered	Time	Ref	Teaching Method
67	Database Access : Database Programming using JDBC	**50min**	**T3**	Black Board
68	Accessing Database from a JSP Page	**50min**	**T3**	Black Board
69	Studying Javax.sql.*	**50min**	**T3**	PPT
70	package, Accessing a Database from a JSP Page	**50min**	**T3**	Black Board
71	Sharing data from a java bean to jsp pages	**50min**	**T3**	Black Board
72,73	Introduction to Struts Framework	**100min**	**T3**	PPT
74,75	Database Access : Database Programming using JDBC	**100min**	**T3**	Black Board
76	Accessing Database from a JSP Page	**50min**	**T3**	Black Board

On completion of this lesson the student shall be able to

1. .Students will recognize the proper way of structuring a fully functional website.
2. Students will utilize their design skills to create a professional website.
3. Students will demonstrate the ability to modify, add, and delete data in a database through a web page.

	ASSIGNMENT **Unit-VIII**	2013-14 Regulation: R11

Assignment / Questions

1) Discuss different JDBC drivers with its architectures and explain the advantages and disadvantages of all JDBC drivers?
2) Write short notes of the following
   ii. Purpose of javax.sql.* package.
   iii. Anatomy of a JSP page.
   iv. Servlet Context interface
3) Explain the architecture of struts

Signature of Faculty

Note: Mention for each question the relevant objectives and outcomes.