

## B.C.A (5<sup>th</sup> Semester)

030010514: DSE6 Fundamentals of Web Application Development

### Assessment Policy

#### Theory Assessment Parameters

Assessment Code	Type	Duration	Number of questions	Marks of each	Weightage in CIE of 40 marks	Remark
A1	Quiz	1 Hour	1	20	7	2 <sup>nd</sup> week of July
A2	Unit Test	1.5 Hours	3	30	8	1 <sup>st</sup> week of August
A3	Internal Examination	3 Hours	6	60	18	End of semester
A4	Presentation and Demonstration	20 Minutes	1	30	7	During semester

#### Practical Assessment Parameters

Assessment Code	Type	Duration of each	Marks of each	Weightage in CIE of 20 marks	Remark
A5	Unit Test	2 Hours	20	10	2 <sup>nd</sup> week of August
A6	Section Test	2.5 Hours	25	15	During 2 <sup>nd</sup> week of September
A7	Semester End Examination	3 Hours	30	20	During last week of October
A8	Project	-	100	5	During the semester.

### Assessment Type Classification:

<b>Assessment Code :</b>	A1	<b>Weightage of Content :</b>	<b>Unit</b>	<b>(%)</b>
			1	80%
			2	20%
<b>Assessment Type :</b>	Quiz	<b>Tentative Date :</b>	2nd week of July	
<b>Kind of Question Format:</b>	Q-1. Choose the most appropriate answer(s) from the options for given questions. [20 questions having 1 mark each of understanding type.]			
<b>To measure :</b>	Knowledge and analytic skill			
<b>Course Outcome :</b>	CO1: Determine usage of web application framework. CO2: Create Web pages, handles events and manipulate content. CO3: Build Web applications using state management.			
<b>Programme Outcome :</b>	PO2: Ability to design, develop, test and maintain system, component, product or process as per needs and specification. PO5: Knowledge of programming languages, database systems, operating systems, software engineering, Web & Mobile technology and relevant modern issues.			

<b>Assessment Code :</b>	A2	<b>Weightage of Content :</b>	<b>Unit</b>	<b>(%)</b>	
			1	20%	
			2	30%	
			3	50%	
<b>Assessment Type :</b>	Unit Test	<b>Tentative Date :</b>	1st week of August		
<b>Kind of Question Format:</b>	<b>Q. No</b>	<b>Detail</b>	<b>Marks Of Each</b>	<b>Category</b>	<b>Remarks</b>
	Q-1	Answer in brief	2	Understanding	5 out of 6
	Q-2	Practical's/scenario-based questions	5	Analysis	2 out of 3
	Q-3	Answer in detail	5	Remembering	2 out of 3
<b>To measure :</b>	Knowledge and analytic skill				
<b>Course Outcome :</b>	CO1: Determine usage of web application framework. CO2: Create Web pages, handles events and manipulate content. CO3: Build Web applications using state management. CO4: Access data by using built-in SQL Server and generate dynamic reports.				
<b>Programme Outcome:</b>	PO1: Proficiency in and ability to identify problems related to computer science as well as design and apply computational knowledge to solve them. PO2: Ability to design, develop, test and maintain system, component, product or process as per needs and specification. PO5: Knowledge of programming languages, database systems, operating systems, software engineering, Web & Mobile technology and relevant modern issues.				

<b>Assessment Code :</b>	A3	<b>Weightage of Content :</b>	<b>Unit</b>	<b>(%)</b>
			All Unit	100%
<b>Assessment</b>	Internal Examination	<b>Tentative Date :</b>	At the end of semester.	

Type :			
Kind of Question Format:	<p>Q-1(A): Short answers questions of 1 mark each. (4 questions, marks will be <math>1 \times 4 = 4</math> marks)          (B): Short answers questions of 2 marks each. (3 out of 4 questions, marks will be <math>2 \times 3 = 6</math> marks).          Q-2 Analytical based answers questions. (2 out of 4 questions, marks will be <math>5 \times 2 = 10</math> marks)          Q-3 Descriptive answers questions. (2 out of 3 questions, marks will be <math>5 \times 2 = 10</math>).          Q-4(A): Short answers questions of 1 mark each. (4 questions, marks will be <math>1 \times 4 = 4</math> marks)          (B): Short answers questions of 2 marks each. (3 out of 4 questions, marks will be <math>2 \times 3 = 6</math> marks).          Q-5 Analytical based answers questions. (2 out of 4 questions, marks will be <math>5 \times 2 = 10</math> marks)          Q-6 Descriptive answers questions. (2 out of 3 questions, marks will be <math>5 \times 2 = 10</math>).</p>		
To measure :	Knowledge and analytic skill		
Course Outcome :	<p>CO1: Determine usage and working of web application framework.          CO2: Create Web pages, handles events and manipulate content.          CO3: Build Web applications using state management and applicable type of options.          CO4: Access data by using built-in data access tools and using relational third-party data sources.          CO5: Conveniently extract and process data using file stream, and also able to develop the application with concept of caching, LINQ and entity framework.          CO6: Generate dynamic reports.          CO7: Design and develop secure Web utility with rich GUI.</p>		
Programme Outcome:	<p>PO1: Proficiency in and ability to identify problems related to computer science as well as design and apply computational knowledge to solve them.          PO2: Ability to design, develop, test and maintain system, component, product or process as per needs and specification.          PO3: Understanding of professional and ethical role and responsibility.          PO5: Knowledge of programming languages, database systems, operating systems, software engineering, Web &amp; Mobile technology and relevant modern issues.</p>		

Assessment Code :	A4	Weightage of Content :	<table border="1"> <tr> <td>Unit</td> <td>(%)</td> </tr> <tr> <td>All units</td> <td>100 %</td> </tr> </table>	Unit	(%)	All units	100 %
Unit	(%)						
All units	100 %						
Assessment Type :	Presentation and Demonstration	Tentative Date :	-				
Kind of Question Format:	Presentation and Demonstration						
To measure :	Knowledge and analytic skill.						
Course Outcome :	<p>CO1: Determine usage and working of web application framework.          CO2: Create Web pages, handles events and manipulate content.          CO3: Build Web applications using state management and applicable type of options.          CO4: Access data by using built-in data access tools and using relational third-party data sources.          CO5: Conveniently extract and process data using file stream, and also able to develop the application with concept of caching, LINQ and entity framework.          CO6: Generate dynamic reports.          CO7: Design and develop secure Web utility with rich GUI.</p>						
Programme Outcome:	<p>PO1: Proficiency in and ability to identify problems related to computer science as well as design and apply computational knowledge to solve them.          PO2: Ability to design, develop, test and maintain system, component, product or process as per needs and specification.          PO3: Understanding of professional and ethical role and responsibility.          PO5: Knowledge of programming languages, database systems, operating systems, software engineering, Web &amp; Mobile technology and relevant modern issues.</p>						

<b>Rules:</b>	<ul style="list-style-type: none"> <li>• Group shall be formed by students (Atleast 3 students in one group should be there)</li> <li>• Students need to submit the group details within 3<sup>rd</sup> week of semester commencement.</li> <li>• The topic for the presentation should be submitted within fifth week of the semester commencement.</li> <li>• The topic shall be verified by subject teacher and if it doesn't found appropriate then modification must be done by students and need to submit the topic again.</li> <li>• Before giving presentation the contents must be verified by subject teacher. If it doesn't found appropriate then modification must be done by students and need to verify the contents again by subject teacher.</li> <li>• Time duration for presentation and demonstration shall be minimum 15 minutes.</li> <li>• Evaluation will start after completion of unit 3.</li> <li>• Evaluation will be done based on following parameters:  Total Marks:50  Topic verification: 5 Marks  Content verification: 10 Marks  Presentation and Content/Demonstration: 20 Marks  Viva-15</li> </ul>
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<b>Assessment Code :</b>	A5	<b>Weightage of Content :</b>	<b>Unit</b>	<b>(%)</b>
			1	20
			2	20
			3	60
<b>Assessment Type :</b>	Unit Test (Practical)		<b>Tentative Date :</b> 2nd week of August	
<b>Kind of Question Format:</b>	Q-1: Draw web forms and write the important properties of used web controls with events.		[5 Marks]	
	Q-2: Create a website for given scenario.		[15 Marks]	
<b>To measure :</b>	Knowledge and analytic skill			
<b>Course Outcome :</b>	CO1: Determine usage of web application framework. CO2: Create Web pages, handles events and manipulate content. CO3: Build Web applications using state management. CO4: Access data by using built-in SQL Server and generate dynamic reports.			
<b>Programme Outcome:</b>	PO2: Ability to design, develop, test and maintain system, component, product or process as per needs and specification. PO5: Knowledge of programming languages, database systems, operating systems, software engineering, Web & Mobile technology and relevant modern issues. PO6: Ability to demonstrate the use of modern tools, models and languages to solve problems related to software development			

<b>Assessment Code :</b>	A6	<b>Weightage of Content :</b>	<b>Unit</b>	<b>(%)</b>
			All units	100 %
<b>Assessment Type :</b>	Section Test (Practical)		<b>Tentative Date:</b> During 2nd week of September	
<b>Kind of Question Format:</b>	Q-1: Write code for given question and draw the layout		[05 Marks]	
	Q-2: Create a website for given scenario.		[20 Marks]	
	Q-2: Viva.		[05 Marks]	
<b>To measure :</b>	Knowledge and analytic skill.			
<b>Course Outcome :</b>	CO1: Determine usage and working of web application framework. CO2: Create Web pages, handles events and manipulate content. CO3: Build Web applications using state management and applicable type of options. CO4: Access data by using built-in data access tools and using relational third-party data sources. CO5: Conveniently extract and process data using file stream, and also able to develop the application with concept of caching, LINQ and entity framework. CO6: Generate dynamic reports.			

	C07: Design and develop secure Web utility with rich GUI.
<b>Programme Outcome:</b>	PO1: Proficiency in and ability to identify problems related to computer science as well as design and apply computational knowledge to solve them. PO2: Ability to design, develop, test and maintain system, component, product or process as per needs and specification. PO3: Understanding of professional and ethical role and responsibility. PO5: Knowledge of programming languages, database systems, operating systems, software engineering, Web & Mobile technology and relevant modern issues. PO6: Ability to demonstrate the use of modern tools, models and languages to solve problems related to software development.
<b>Rules:</b>	<ul style="list-style-type: none"> <li>The whole project document shall be certificated by the <b>Course teacher</b> and only those students will be allowed to seat for Internal.</li> </ul>

<b>Assessment Code :</b>	A7	<b>Weightage of Content :</b>	<b>Unit</b>	<b>(%)</b>
			All units	100 %
<b>Assessment Type :</b>	Semester End Examination		<b>Tentative Date:</b> During last week of October	
<b>Kind of Question Format:</b>	Q-1: Write code for given question and draw the layout Q-2: Create a website for given scenario. Q-2: Viva.	[05 Marks] [20 Marks] [05 Marks]		
<b>To measure :</b>	Knowledge and analytic skill.			
<b>Course Outcome :</b>	CO1: Determine usage and working of web application framework. CO2: Create Web pages, handles events and manipulate content. CO3: Build Web applications using state management and applicable type of options. CO4: Access data by using built-in data access tools and using relational third-party data sources. CO5: Conveniently extract and process data using file stream, and also able to develop the application with concept of caching, LINQ and entity framework. CO6: Generate dynamic reports. CO7: Design and develop secure Web utility with rich GUI.			
<b>Programme Outcome:</b>	PO1: Proficiency in and ability to identify problems related to computer science as well as design and apply computational knowledge to solve them. PO2: Ability to design, develop, test and maintain system, component, product or process as per needs and specification. PO3: Understanding of professional and ethical role and responsibility. PO5: Knowledge of programming languages, database systems, operating systems, software engineering, Web & Mobile technology and relevant modern issues. PO6: Ability to demonstrate the use of modern tools, models and languages to solve problems related to software development.			
<b>Rules:</b>	<ul style="list-style-type: none"> <li>The whole project document shall be certificated by the <b>Course teacher</b> and only those students will be allowed to seat for Internal.</li> </ul>			

<b>Assessment Code :</b>	A8	<b>Weightage of Content :</b>	<b>Unit</b>	<b>(%)</b>
			All Unit	100%
<b>Assessment Type :</b>	Project		During Semester	
<b>Kind of Question Format:</b>	Document and Presentation		[20 Marks]	

<b>To measure :</b>	Knowledge and analytic skill
<b>Course Outcome :</b>	CO1: Determine usage and working of web application framework. CO2: Create Web pages, handles events and manipulate content. CO3: Build Web applications using state management and applicable type of options. CO4: Access data by using built-in data access tools and using relational third-party data sources. CO5: Conveniently extract and process data using file stream, and also able to develop the application with concept of caching, LINQ and entity framework. CO6: Generate dynamic reports. CO7: Design and develop secure Web utility with rich GUI.
<b>Programme Outcome:</b>	PO1: Proficiency in and ability to identify problems related to computer science as well as design and apply computational knowledge to solve them. PO2: Ability to design, develop, test and maintain system, component, product or process as per needs and specification. PO3: Understanding of professional and ethical role and responsibility. PO5: Knowledge of programming languages, database systems, operating systems, software engineering, Web & Mobile technology and relevant modern issues. PO6: Ability to demonstrate the use of modern tools, models and languages to solve problems related to software development.
<b>Rules:</b>	<ul style="list-style-type: none"> <li>• Group shall be formed by students (Maximum 3 students allows in one group).</li> <li>• Project title will be given by the subject teacher.</li> <li>• Divide the students amongst lab faculties to maintain the track of students on daily basis.</li> <li>• Partial marks (50) out of 100 of Project will be given by lab teacher based on following criteria. Implementation: 20 Marks Additional features other than syllabus: 10 Marks Viva: 20 Marks</li> <li>• At the end, the students need to give presentation in team with full implementation of project. At the same time students need to submit spiral document that consists of definition, functionalities and screen shot.</li> <li>• The whole project document shall be certificated by the <b>Course teacher</b> and only those students will be allowed to seat for external.</li> </ul>

#### **Bonus Policy:**

Students will get 2 marks based on actively participation during contact hours in different activities decided by teacher.

NOTE: If total internal marks will be more than 40 including bonus marks then it will only consider 40 marks.

#### **UFM policy:**

If two or more submitted practical assignments are too similar for coincidence, a penalty shall be imposed that shall usually be the same for the student who did the original as for the one copying from it.

Any ascertained fact of breaking institute policy shall be associated with one or all of the following: (i) zero marks for the work; (ii) report to the Program Coordinator; (iii) report to the Director.