

**BCA/ 5 Years Integrated M.C.A. (4<sup>th</sup> Semester)**  
DSE4 030010411/ 060060408: Multi-paradigm Programming

**Assessment Policy**

Assessment Code	Assessment Type	Duration of each	Occurrence	Each of marks	Weightage in CIE of 40 marks	Remarks
A1	Quiz	55 Minutes	1	20	05X01=05	Quiz 1: After completion of Unit 1, 2.1, 2.2, 2.3
A2	Unit Test	1.5 Hours	2	30	06X02=12	Unit Test 1: After completion of Unit 1,2 and 3 Unit Test 2: After completion of Unit 4 and 5
A3	Internal	3 Hours	1	60	16X01=16	Before completion of the term
A4	Technical Report Writing	During Semester	1	20	07X01=07	During 14 <sup>th</sup> week of the term
<b>Practical Internal Evaluation</b>						
A5	Unit Test	1 hour 50 minutes	2	20	04X02=08	Unit Test 1: After completion of Unit 1, 2 and 3 Unit Test 2: After completion of Unit 4 and 5
A6	Section Test	3 Hours	1	30	12X01=12	During 15 <sup>th</sup> week
A7	Semester End Examination	3 Hours	1	40	20X01=20	After completion of the term
A8	Journal/Viva	-	-	-	10X01=10	Before completion of the term

**Assessment Type Classification:**

Assessment Code :	A1	Weightage of Content :	Unit	(%)
			1	70%
			2	30%
Assessment Type :	Quiz(Online)	Tentative Date :	17/12/2018	
Kind of Question Format:	Multiple Choice Questions Answers.(Attempt 30 out of 30) [1X 20+2X10 =30]			
Assessment :	Formative			
To measure :	Knowledge and analytic skill			
Outcome :	CO1: Apply the concepts of Lists, Dictionaries and Sequence to develop an application.			
Programme Outcome:	PO2: Ability to design, develop, test and maintain system, component, product or process as per needs and specification. PO6: Ability to demonstrate the use of modern tools, models and languages to solve problems related to software development.			

<b>Assessment Code :</b>	A2	<b>Weightage of Content :</b>	<b>Unit</b>	<b>(%)</b>
			1	10%
			2	60%
			3	30%
<b>Assessment Type :</b>	Unit Test - 1	<b>Tentative Date :</b>	17/01/2019	
<b>Kind of Question Format:</b>	Q-1 (A) Do as directed. (Attempt 4) (B) Answer in brief. (Attempt any 3 out of 4)		[01 x 04 = 04] [02 x 03 = 06]	
	Q-2 Answer the following questions. (A) Analysis based question.		[01 x 05 = 05]	
	(A) Analysis based question. OR (B) Analysis based question.		[01 x 05 = 05] [01 x 05 = 05]	
	(B) Analysis based question. OR (A) Analysis based question.		[01 x 05 = 05] [01 x 05 = 05]	
<b>Assessment :</b>	Formative		Q-3 Answer the following in detail. (Attempt any 2 out of 3) [02 x 05 = 10]	
<b>To measure :</b>	Knowledge and analytic skill			
<b>Outcome :</b>	CO1: Apply the concepts of Lists, Dictionaries and Sequence to develop an application. CO2: Illustrate the concepts of function, class and package.			
<b>Programme Outcomes:</b>	PO2: Ability to design, develop, test and maintain system, component, product or process as per needs and specification. PO6: Ability to demonstrate the use of modern tools, models and languages to solve problems related to software development.			

<b>Assessment Code :</b>	A2	<b>Weightage of Content :</b>	<b>Unit</b>	<b>(%)</b>
			1,2 & 3	10% of each
			4	40%
			5	30%
<b>Assessment Type :</b>	Unit Test - 2	<b>Tentative Date :</b>	20/02/2019	
<b>Kind of Question Format:</b>	Q-1 (A) Do as directed. (Attempt 4) (B) Answer in brief. (Attempt any 3 out of 4)		[01 x 04 = 04] [02 x 03 = 06]	
	Q-2 Answer the following questions. (A) Analysis based question.		[01 x 05 = 05]	
	(A) Analysis based question. OR (B) Analysis based question.		[01 x 05 = 05] [01 x 05 = 05]	
	(B) Analysis based question. OR (A) Analysis based question.		[01 x 05 = 05] [01 x 05 = 05]	

	(B) Analysis based question. [01 x 05 = 05]
	Q-3 Answer the following in detail. (Attempt any 2 out of 3) [02 x 05 = 10]
<b>Assessment :</b>	Formative
<b>To measure :</b>	Knowledge and analytic skill
<b>Outcome :</b>	CO3: Develop string manipulation based application using re module. CO4: Develop an application for handling Files and Directories. CO5: Develop an application for sending mail using SMTP protocol.
<b>Programme Outcomes:</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. PO6: Ability to demonstrate the use of modern tools, models and languages to solve problems related to software development.

<b>Assessment Code :</b>	A3	<b>Weightage of Content :</b>	As per syllabus weightage
<b>Assessment Type :</b>	Internal Examination	<b>Tentative Date :</b>	20/03/2019
<b>Kind of Question Format:</b>	As per external question paper format.		
<b>Assessment :</b>	Formative		
<b>To measure :</b>	Knowledge and analytic skill		
<b>Outcome :</b>	CO1: Apply the concepts of Lists, Dictionaries and Sequence to develop an application. CO2: Illustrate the concepts of function, class and package. CO3: Develop string manipulation based application using re module. CO4: Develop an application for handling Files and Directories. CO5: Develop an application for sending mail using SMTP protocol. CO6: Develop a network application using socket module.		
<b>Programme Outcomes:</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. PO6: Ability to demonstrate the use of modern tools, models and languages to solve problems related to software development.		

<b>Assessment Code :</b>	A4	<b>Weightage of Content :</b>	As per syllabus
<b>Assessment Type :</b>	Technical Report Writing	<b>Tentative Date :</b>	During the semester
<b>Kind of Question Format:</b>	Technical Report Writing <ul style="list-style-type: none"> <li>Group of 3-4 members shall be framed, each team shall choose a Python package with prior approval from course teacher. The team shall study about the Python</li> </ul>		

	<p>package they have selected, do study about the purpose, and how to use the same. After, team shall develop a small application/module using their selected package.</p> <ul style="list-style-type: none"> <li>• Each team shall prepare a report as per the following report format.</li> <li>• The submission of report must be done before 14th week of the semester.</li> <li>• Each team shall prepare for Viva to be conducted by teacher. The duration of viva shall not exceed 30 minutes.</li> <li>• The formatting shall be: <ul style="list-style-type: none"> <li>- Title: Cambria, 12, Bold</li> <li>- Sub-title: Cambria, 11, italic</li> <li>- Content: Cambria, 10</li> <li>- Caption for images are required</li> </ul> </li> </ul> <p>Report Format [10-20 pages]</p> <ul style="list-style-type: none"> <li>• Front page with title</li> <li>• Table of Content and figures if applicable</li> <li>• Abstract[Should not exceed 250 words]</li> <li>• Introduction</li> <li>• Developed module</li> <li>• References [As per IEEE format]</li> </ul> <p>Evaluation Parameter</p> <ul style="list-style-type: none"> <li>• Report (10 marks)</li> <li>• Viva (10 marks)</li> </ul> <p>Bonus Policy</p> <ul style="list-style-type: none"> <li>• A student shall have <b>bonus 2</b> marks on extra-ordinary work. The bonus+marks shall not exceed total marks for CIE parameter.</li> </ul> <p>Penalty Policy</p> <ul style="list-style-type: none"> <li>• A team shall be penalize for <b>2</b> marks on late submission by <b>3 days</b>, latter submission then 3 days shall not be accepted.</li> </ul>
<b>Assessment :</b>	Formative
<b>To measure :</b>	Knowledge and analytic skill.
<b>Outcome :</b>	<p>CO1: Apply the concepts of Lists, Dictionaries and Sequence to develop an application.  CO2: Illustrate the concepts of function, class and package.  CO3: Develop string manipulation based application using re module.  CO4: Develop an application for handling Files and Directories.  CO5: Construct a module for sending mail using SMTP protocol.  CO6: Illustrate networking application using socket module.</p>
<b>Programme Outcomes:</b>	<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.  PO5: Knowledge of programming languages, database systems, operating systems, software engineering, Web &amp; 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.  PO7: Ability to communicate and present knowledge effectively.</p>

<b>Assessment Code :</b>	A5-Practical	<b>Weightage of Content :</b>	<b>Unit</b>	<b>(%)</b>
			1	10%
			2	60%
			3	30%

<b>Assessment Type :</b>	Unit Test 1	Minimum number of practical to be certified as eligibility to appear: 5	17/01/2019
<b>Kind of Question Format:</b>	Q-1 Proposed solution based question Q-2 Practical based question.		[01 x 05 = 05] [01 X 15 = 15]
<b>Assessment :</b>	Formative		
<b>To measure :</b>	Knowledge and analytic skill		
<b>Outcome :</b>	CO1: Apply the concepts of Lists, Dictionaries and Sequence to develop an application. CO2: Illustrate the concepts of function, class and package.		
<b>Programme Outcomes:</b>	PO2: Ability to design, develop, test and maintain system, component, product or process as per needs and specification. PO4: Recognition of the need for and ability towards life-long learning PO6: Ability to demonstrate the use of modern tools, models and languages to solve problems related to software development.		

<b>Assessment Code :</b>	A5-Practical	<b>Weightage of Content :</b>	<b>Unit</b>	<b>(%)</b>
			1,2 & 3	10% of each
			4	40%
			5	30%
<b>Assessment Type :</b>	Unit Test 2	Minimum number of practical to be certified as eligibility to appear: 10	20/02/2019	
<b>Kind of Question Format:</b>	Q-1 Proposed solution based question Q-2 Practical based question.		[01 x 05 = 05] [01 X 15 = 15]	
<b>Assessment :</b>	Formative			
<b>To measure :</b>	Knowledge and analytic skill.			
<b>Outcome :</b>	CO1: Apply the concepts of Lists, Dictionaries and Sequence to develop an application. CO2: Illustrate the concepts of function, class and package. CO3: Develop string manipulation based application using re module. CO4: Develop an application for handling Files and Directories.			
<b>Programme Outcomes:</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. PO4: Recognition of the need for and ability towards life-long learning 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-Practical	<b>Weightage of Content :</b>	As per syllabus weightage
<b>Assessment Type :</b>	Section Test	<b>Minimum number of practical to be certified as eligibility to appear:</b> 13	<b>8/03/2019</b>
<b>Kind of Question Format:</b>	Q-1 Proposed solution based question Q-2 Practical based question. Q-3 Viva		[01 x 05 = 05] [01 X 20 = 20] [01 x 05 = 05]
<b>Assessment :</b>	Formative		
<b>To measure :</b>	Knowledge and analytic skill.		
<b>Outcome :</b>	CO1: Apply the concepts of Lists, Dictionaries and Sequence to develop an application. CO2: Illustrate the concepts of function, class and package. CO3: Develop string manipulation based application using re module. CO4: Develop an application for handling Files and Directories. CO5: Construct a module for sending mail using SMTP protocol. CO6: Illustrate networking application using socket module.		
<b>Programme Outcomes:</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. PO4: Recognition of the need for and ability towards life-long learning 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>	A7-Practical	<b>Weightage of Content :</b>	As per syllabus weightage
<b>Assessment Type :</b>	End Semester Test	<b>Minimum number of practical to be certified as eligibility to appear:</b> 15	<b>28/03/2019</b>
<b>Kind of Question Format:</b>	Q-1 Proposed solution based question Q-2 Practical based question. Q-3 Viva		[01 x 05 = 05] [01 X 20 = 20] [01 x 05 = 05]
<b>Assessment :</b>	Formative		
<b>To measure :</b>	Knowledge and analytic skill.		
<b>Outcome :</b>	CO1: Apply the concepts of Lists, Dictionaries and Sequence to develop an application. CO2: Illustrate the concepts of function, class and package. CO3: Develop string manipulation based application using re module. CO4: Develop an application for handling Files and Directories. CO5: Construct a module for sending mail using SMTP protocol. CO6: Illustrate networking application using socket module.		
<b>Programme Outcomes:</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. PO4: Recognition of the need for and ability towards life-long learning 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		

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	problems related to software development.
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**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.