B.C.A. (4th Semester)

DSE4 030010411: 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	1 Hour	1	20	04X01=04	Quiz 1: After completion of Unit 1
A2	Unit Test	1.5 Hours	2	30	06X02=12	Unit Test 1: After completion of Unit 1 and 2 Unit Test 2: After completion of Unit 3,4 and 5
A3	Open Book Test	1 Hour	1	20	04X01=04	Quiz 1: After completion of Unit 2 and 3
A4	Section Test	2 Hours	1	60	15X01=15	Before completion of the term
A5	Self-Creation Parameter	During Semester	1	20	05X01=05	Before the completion of the internal exam
Practical Internal Evaluation						
A6	Unit Test	2 Hours	2	20	04X02=08	Unit Test 1: After completion of Unit 1 and 2 Unit Test 2: After completion of Unit 3,4 and 5
A7	Section Test	2 Hours	1	30	12X01=12	During 15th 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:

			Unit	(%)
Assessment Code :	A1	**Weightage of Content :**	1	100%
Assessment Type :	Quiz(Online)	**Tentative Date :**	3rd week of semester	
Kind of Question Format:	Multiple Choice Questions Answers.(Attempt 20 out of 20) [1X 20 =20]			
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.			

Assessment Code :	A2	Weightage of Content :	Unit	(%)
			1	40%
			2	60%
Assessment Type :	Unit Test – 1	**Tentative Date :**	5th week of semester	

Kind of Question Format:	Q-1 (A) Do as directed. (Attempt 4 out of 4) [01 x 04 = 04] (B) Answer in brief. (Attempt any 3 out of 4) [02 x 03 = 06] Q-2 Answer the following questions. (A) Practical based question. [01 x 05 = 05] OR (A) Practical based question. [01 x 05 = 05] (B) Practical based question. [01 x 05 = 05] OR (B) Practical based question. [01 x 05 = 05] Q-3 Answer the following in detail. (Attempt any 2 out of 3) [02 x 05 = 10]
Assessment :	Formative
To measure :	Knowledge and analytic skill
Outcome :	CO1: Apply the concepts of Lists, Dictionaries and Sequence to develop an application. CO2: Illustrate the concepts of function, class and package.
Programme Outcomes:	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.

Assessment Code :	A2	Weightage of Content :	Unit	(%)
			1,2 & 3	10% of each
			4	40%
			5	30%
Assessment Type :	Unit Test – 2	**Tentative Date :**	8th week of semester	

Kind of Question Format:	Q-1 (A) Do as directed. (Attempt 4 out of 4) [01 x 04 = 04] (B) Answer in brief. (Attempt any 3 out of 4) [02 x 03 = 06] Q-2 Answer the following questions. (A) Practical based question. [01 x 05 = 05] OR (A) Practical based question. [01 x 05 = 05] (B) Practical based question. [01 x 05 = 05] OR (B) Practical based question. [01 x 05 = 05] Q-3 Answer the following in detail. (Attempt any 2 out of 3) [02 x 05 = 10]

Assessment :	Formative
To measure :	Knowledge and analytic skill
Outcome :	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.
Programme Outcomes:	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.

Assessment Code :	A3	Weightage of Content :	Unit	(%)
			2	40%
			3	60%
Assessment Type :	Open Book Test	Tentative Date :	6th week of semester	
Kind of Question Format:	Answer the following questions in detail.(Attempt 4 out of 4) [5X 4 =20]			
Assessment :	Formative			
To measure :	Knowledge and analytic skill			
Outcome :	CO2: Illustrate the concepts of function, class and package. CO3: Develop string manipulation based application using re module.			
Programme Outcomes:	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. 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.			

Assessment Code :	A4	Weightage of Content :	As per syllabus weightage
Assessment Type :	Internal Examination	Tentative Date :	At the end of the semester
Kind of Question Format:	As per external question paper format.		
Assessment :	Formative		

To measure :	Knowledge and analytic skill
Outcome :	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.
Programme Outcomes:	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.

Assessment Code :	A5	Weightage of Content :	As per syllabus weightage
Assessment Type :	Self-Creation Parameter	Tentative Date :	During the semester
Kind of Question Format:	White Paper Writing • Group of 3-4 members shall be framed, each team shall choose a Python package with prior permission of course teacher. • Each team shall study their selected Python package and prepare a report as per the following report format. • The submission of report must be done before 3 weeks of semester end. • The submitted report shall be given to other teachers of institute by course teacher to evaluate. Each team shall prepare for Viva to be conducted by other teacher of the institute. • The evaluator shall give schedule [date and minimum 15 minutes of time] to the team for the viva. • The evaluator shall ask as many question as he/she feels to ask but the viva time shall not exceed 30 minutes. • The formatting shall be: - Title: Cambria, 12, Bold - Sub-title: Cambria, 11, italic - Content: Cambria, 10 - 2 column page format Report Format [8-10 pages] • Front page with title • Table of Content • Abstract[Should not exceed 250 words] • Introduction • Conclusion • References [As per IEEE format] Evaluation Parameter • Report (10 marks) • Viva (10 marks) Bonus Policy • A student shall have **bonus 2** marks on evaluator's extra-ordinary comments. The bonus+marks shall not exceed total marks for CIE parameter. Penalty Policy • A team shall be penalize for **2** marks on late submission by **3 days**, letter		

	submission then 3 days shall not be accepted.
Assessment :	Formative
To measure :	Knowledge and analytic skill.
Outcome :	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.
Programme Outcomes:	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. PO7: Ability to communicate and present knowledge effectively.

			Unit	(%)
Assessment Code :	A6-Practical	**Weightage of Content :**	1	40%
			2	60%

Assessment Type :	Unit Test 1	**Minimum number of practical to be certified as eligibility to appear:** 5	**5th week of semester**
Kind of Question Format:	Q-1 Proposed solution based question [01 x 05 = 05] Q-2 Practical based question. [01 X 15 = 15]		
Assessment :	Formative		
To measure :	Knowledge and analytic skill		
Outcome :	CO1: Apply the concepts of Lists, Dictionaries and Sequence to develop an application. CO2: Illustrate the concepts of function, class and package.		
Programme Outcomes:	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.		

			Unit	(%)
Assessment Code :	A6-Practical	**Weightage of Content :**	1,2 & 3	10% of each
			4	40%
			5	30%

Assessment Type :	Unit Test 2	Minimum number of practical to be certified as eligibility to appear: 12	8th week of semester
Kind of Question Format:	Q-1 Proposed solution based question Q-2 Practical based question.		[01 x 05 = 05] [01 X 15 = 15]
Assessment :	Formative		
To measure :	Knowledge and analytic skill.		
Outcome :	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.		
Programme Outcomes:	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.		

Assessment Code :	A7	Weightage of Content :	As per syllabus weightage
Assessment Type :	Practical Internal Examination	Minimum number of practical to be certified as eligibility to appear: 17	At the end of the semester
Kind of Question Format:	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]
Assessment :	Formative		
To measure :	Knowledge and analytic skill.		
Outcome :	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.		
Programme Outcomes:	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.		

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.