

BCA (1st Semester)
030010115: Database Management Systems

Assessment Policy

Course Outcomes:

CO1: Differentiate between database approach and conventional file processing system.

CO2: Describe the concept of database, its architecture, components and users.

CO3: Design an entity-relationship model based on user requirements.

CO4: Use ERDPlus to design an entity-relationship diagram.

CO5: Convert an E-R model to Relational model.

CO6: Use data definition and manipulation statements over one or more tables using SQL to store, manipulate and retrieve the data.

Programme Outcomes:

PO1: Ability to understand the concepts of key areas in computer science.

PO2: Ability to design and develop system, component or process as well as test and maintain it so as to provide promising solutions to industry and society.

PO3: Effective communication and presentation skill.

PO4: Ability to understand professional and ethical responsibility.

PO5: Recognition of the need for life-long learning.

Assessment Parameter list:

Component	During	Type	Parameter	Occurrence X Marks	Duration of each (hrs.)	Weightage	CO mapped	PO mapped
Theory	DCH	Formative	Quiz	1X20	1	5	CO1, CO2	PO1, PO2, PO5
Theory	DCH	Formative	Unit Test	1X30	1.5	8	CO1, CO2, CO3, CO5, CO6	PO1, PO2, PO5
Theory	ACH	Summative	Internal	1X60	3	15	CO1, CO2, CO3, CO5, CO6	PO1, PO2, PO5
Theory	DCH	Diagnostic	Spare200mins	1X100	-	7	CO2, CO3, CO6	PO2, PO3
Theory	DCH	Diagnostic	Contribute to class learning	1X50	-	5	Any of the COs	PO4, PO5
TOTAL						40		
Practical	ACH	Formative	Unit Test	2X30	2	3	CO3, CO4, CO6	PO1, PO2, PO5
Practical	ACH	Summative	Section Test	30	2	6	CO3, CO4, CO6	PO1, PO2, PO5, PO3
Practical	DCH	Diagnostic	Journal	225	-	4	CO3, CO4, CO6	PO1, PO2, PO5, PO3
Practical	DCH	Diagnostic	Viva	40	-	4	All COs	PO2, PO3
Practical	ACH	Summative	Semester End Examination	30	3	30	CO3, CO4, CO6	PO1, PO2, PO5, PO3
TOTAL						50		

[ACH : Apart of Contact Hours, DCH: During Contact Hours]

Quiz: [During 5th week]: 20 marks [01-August-2018]

1. Questions shall be based on unit 1 and 2.
2. It shall have following format:
 - a. Q1 : Attempt any 5 out of 6 (MCQ ; Each of 1 mark)
 - b. Q2: Attempt any 5 out of 6(Fill in the blanks; Each of 1 mark)
 - c. Q3: Answer in brief(Any 5 out of 6: Each of 2 marks)

Unit Test: [During 10th week]: 30 marks [12-Sept-2018]

1. Question shall be based on units 1 to 5.
2. Format shall be similar to a section of External Examination paper format.

Internal: [As per Examination Committee Schedule]: 60 marks

1. Covers whole syllabus and weightages of units shall be as per the syllabus.
2. Format shall be similar to that of an External examination paper format.

Spare200Mins: 100 marks

1. Team shall comprise of 2 to 4 students determined by course teacher.
2. The activity is divided as follows:

Question Preparation[15 marks]: During the first lecture in 4th week, the team shall prepare a list of 15 questions based on unit 1 and 2, such that each question requires 5-6 minutes to write its correct answer. In case of non-submission, the team can submit the list on very next day with penalty of 2 marks. If quality of question is not found upto the mark, then teacher shall suggest revision and deadline for that team. Missing the new deadlines or poor quality question submission shall lead to 3 marks or 0.5 marks penalty for each poor-quality question of that team respectively.

Answer Submission [30 marks]: During the last lecture of 4th week, the team shall submit correct answers of each question. In case of non-submission, the team can submit the answers on very next working day with penalty of 5 marks.

During the 8th week, the rules for question preparation and answer submission shall be same as mentioned above except that 5 questions and answers are to be submitted from units 3 and 4, where each question requires 15 minutes to write the correct answer (05 + 25 marks).

NOTE: Copying of questions and/or answers shall result to disqualifying of teams involved in such unfair activity.

Evaluation parameters: Quality of question, correctness of answer and comprehensive ability of long answer questions.

3. During 9th week, viva of 25 marks shall be taken by the course teacher based on the submission done.
Evaluation parameter: Concept understanding.

Contribute in class learning by any of the ways: 50 marks

1. A student can present a topic in front of class to increase the understanding of that topic among class fellows.
2. A student can choose to discuss the solution of any Q2 or Q5 from the earlier external/internal question paper.

Bonus : Share an idea.

1. A student can submit one idea to make use of computer for better society.
2. The idea must be described using not more than 200 words.

3. If the idea seems innovative, student shall get 2 marks bonus such that his/her overall internal marks does not exceeds 40.

Unit Test(Pr)[08-Aug-2018 and 19-Sept-2018]

Occurrence 1. Students shall design an E-R diagram based on the scenario given by the teacher. The diagram should be created using an available tool.

Occurrence 2. Students shall write DDL and DML statements for the questions given by the teacher. They must also execute those queries on available RDBMS to show the results.

Internal (Pr)

1. Students shall be asked to demonstrate their knowledge regarding E-R concepts and SQL queries using tool/ technology.
2. Apart of this, they must appear in Viva that evaluates their knowledge of overall course.

Journal

1. The course teacher shall prepare a journal of 18 questions, each with different levels of complexity. For the first nine, there shall be two levels (i.e. Beginner and Intermediate) while for the next nine practical definition, there shall be three levels (i.e. Beginner, Intermediate and Complex).
2. Each practical shall be of 15 marks (10 marks for solution and 5 marks for Viva).
3. The journal practical solution shall be first evaluated by laboratory teacher where he/she will also verify the solution using tool/technology specified. After the evaluation by laboratory teacher, course teacher shall evaluate and certify the same; and marks shall be accordingly noted in the index of that journal.
4. A practical shall be considered complete, if and only if the student scores 50% or more in it. The journal shall be certified by the course teacher and Programme Coordinator at the end of semester, if and only if the journal has 18 practicals completed. To appear in Semester End Examination, a certified journal is must.

Viva

1. During the semester, the course teacher shall take Viva of student during laboratory hours to gain the insight about concept clarity in student's mind. At the end of each Viva, the teacher shall suggest the student, points of improvement and way to achieve it.

Semester End Examination (SEE)

1. To evaluate the overall performance of the student in practical component of this course, the SEE shall be conducted. It shall include whole syllabus. Viva shall be taken by examiner to evaluate the conceptual clarity of the topics covered with the focus to evaluate attainment of course outcomes.