Project Evaluation Criteria

PHASE-1 → 10 marks **Date: 12-02-2019**

1. No of tables : Min 7 or 8 tables with min of 4 attributes 2 marks
2. ER Diagram 3 marks
3. Relational Schema 3 marks
4. Viva based on ER diagram and relational schema 2 marks

Note: Clearance signature is must to proceed.

Points to be noted:

1. Importance of entities and the attributes to the real world. No vague attributes should be added just to fulfil the above requirements.
2. Clarity of ER diagram:

Eg: i. Entity: Normal or Weak entity.
ii. Attribute: Key, Composite, Multivalued and Derived attribute.
iii. Relationship: One to one, one to many, many to one, many to many.
iv. Double lines → Total participation of an entity in a relationship set.
v. Lines → They link attributes to Entity Sets and Entity sets to Relationship Set.

3. Converting of entities and relationships to table and mapping of cardinality (Follow the algorithm taught in class to create relational schema using ER model).

Viva:

1. Explain three schema architecture with respect to the project (No theory answer).
2. What kind of database system are you building? Eg: centralized, distributed etc
3. What is data independence? Are you implementing it?

Note: Just for practise

----------PHASE-1 ENDS----------

PHASE-2 → 15 marks **Date: 14-03-2019 (Post Aatmatrisha-2019)**

1. Creation of tables 3 marks
2. Populating the tables 5 marks
3. Basic queries 4 marks
4. User interface and viva 3 marks

Points to be noted:

1. Creation of tables with all the specifications, i.e., primary keys, null, not null, foreign keys etc. Make sure there is no circular reference while using foreign keys.
2. Populating the database with the correct data, i.e., manually or random generators. Minimum of 70 rows in the main entity.
3. 6-7 basic queries.
4. User interface for the layman to use without having the knowledge of the implementation details.

Caution: "select * from table_name" is not considered as query.
Note: Viva will be based on implementations and be prepared thoroughly.

----------PHASE-2 ENDS----------

PHASE-3 → 15 marks **Date: Last Working Week**

1. Complex queries (min 5) 6 marks
2. Real world example where this type of system is implemented 3 marks
3. Problems created in the database system 2 marks
4. Final Report 2 marks
5. Viva 2 marks

Points to be noted:

1. Complex queries involving retrieving information using many clauses and functions of sql.
2. PPT includes
   - real world example (Case Study) and compare with the project built by your team. **Eg:** Railway reservation system → IRCTC
   - Two Problems created and steps you will take to solve the problem (wrt to the project). **Eg:** Transaction management, concurrency etc
3. **Viva** → any query will asked during the final submission related to the project. Make sure there is proper UI for presenting the information from tables.
4. Final report will have the Team Details, abstract, tools used, tools/APIs which can be used for better performance (Eg: Django, Flask) and why with outcomes of your project. Restricted to 2 pages.

----------PHASE-3 ENDS----------

GENERAL INSTRUCTIONS:

1. **After the clearance signature, create a github repository and assign issues/tasks to each team member. Google form will be sent to collect the github repo links.**
2. **Make sure issues/tasks are assigned to each member and have equal weightage. If the task is complicated, two people can be assigned to the particular task.**
3. **Repo contents: Code, Readme, Final Report and PPT**