**CONCEPTUAL MODEL**

**Faculty Course Evaluation (FCE) Platform**

This is a graphical description of the Faculty Course Evaluation Platform. It has entity sets (tables) and the relationships between them.

**E-R Model**

The E-R model for the FCE platform has four parts:

* ***An E-R Diagram****:* a graphical representation of the entity-sets and the relationships between them.

Students

Classes

Students

Faculty

Classes

* ***Entity Sets:***

students (studentID#, password, classes, evaluations)

faculty(facultyID#, password, classes, evaluations)

classes (CRN#, studentID\*, facultyID\*, evaluations)

*# Represents primary keys*

*\* Represents foreign keys*

* ***Relationships***

Evaluation – students evaluate per class [M:M][M:M] *many-to-many & Mandatory*

View – faculty views evaluation per class [M:M][M:M]

* ***Constraints and Assumptions***
* A student cannot view and evaluation sheet of a class not enrolled.
* Faculty can ONLY view evaluation results of classes that he/she teaches.
* A faculty cannot view result of an evaluation that has not ben taken.
* Evaluation response date and time MUST be before the date and time that evaluation result is viewed.

**Logical Data Model**

* Each entity-set is transformed directly into a relation (table) with the attributes defined in the E-R model. Identifiers become the primary key.
* Relationships transform into either foreign keys added to existing relations or separate association relations
* Constraints and Assumptions transform into integrity rules.