**2. REQUIRMENT ANALYSIS**

Course

Conducts

TEACHER

|  |  |
| --- | --- |
| **ENTITY** | Entity:  It is an object and distinguishable is similar to records. |
| **ENTITY** | Work Entity:  When this entity is dependent upon some another entity then it is called |
|  | Attribute:  The attribute are properties or characteristics  of one entity  Derived attribute:  It is kind of attribute which is based on another attribute |
|  | Key Attribute:  A key attribute is a unique attribute representing distinguishing characteristic of entity typically primary key record of key attribute. |
|  | Multi valued attribute:  A multi valued attribute have more than one value. |
| **RELATIONSHIP** | Relationship:  When two entities some information that is denoted by relationship. |

LEVEL O DFD:

Book info

Student

Display of books

Display of books

Student

LEVEL 1 DFD: Library card

Book request

List of topic

Demanded book

Book status

Book request

Book shelf

List of number

List borrow books

Borrow list

Display of book

Student

Book

Book status Shelf no and book info

Authors

Book title

Student name

Demanded books

Association:

In the above ER diagram a relationship conducts is introduces “Teacher” is associated with “course” by conduction it.

Cardinality:

Many teachers can conduct the single course.

Modality:

For conducts of a course there must be a teacher. They may a situation that a teacher is not conducting any course.

DATA FLOW DIAGRAM:

In this DFD (Data Flow Diagram) the whole system is represent with the help of input processing and output.

The input can be:

1. Student request for a book request.
2. To show identify of the student he/she has to submit his/her library card hence processing unit can be used by customer while by customer while by customer while selecting the book.

The system will produce following output:

1. The demand book will be given to student hence book will be output.
2. The library information system should display demanded book information which can be used by customer while selecting the book.
3. LEVEL 1 DFD:

In this level, the systematic exposed with more processing detail. The processes that need to carry out are:

* Delivery of book
* Search by topic

These processes require certain information such as list of authors, list of topics and the book self from can be located. This kind of information is represented by data store.

LEVEL 2 DFD:

The purchasing of new book 1 replacement of old book are charging a fine all these maintainers activities are not considered this system.

RESULT:

Thus the program was executed successfully.