**540 Project Milestone2 Report**

**1.Functional Dependencies**

**Relationship:Arrangement**

Attributes:Faculty(F), Day(D), Hour(H), Semester(S), Year(Y) , Location(L), Cid(C),Section id (SI ), Deadline(DE), Enroll-sum(ES), Waiting-sum(WS), Enroll-now(EN), Waiting-now(WN), Prerequisite(P)

Primary Key: SYCSI

Functional Dependencies:

SYCSI -> FDHLDEESWSENWNP

SY->DE

C->P

DHSYL->CSI

**Entity:Course**

Attributes: GPA Requirement(G), Cid(C), Dept(D), Title(T), Credit(CR), Level(L)

Primary Key: Cid(C)

Functional Dependencies:

C->GDTCRL

Relationship:Belong

**Entity: Employee**

Attributes: SSN(S), Last Name(L), First Name(F), Employee id(EI), Password(P).

Primary Key : Ei

Functional Dependencies:

I-> SLFP

S-> LFI

**Entity: Student**

Attributes: Student id(Si), Firstname(F), Lastname(L), Dept(D), GPA(G), Password(P), Email(E), Level(LE), Residence(R), Course List(CL), Minimum Credit(CMIN), Maximum Credit(CMAX), Now Credit(CNOW), Billing(B), Rate(RA).

Primary Key: S

Functional Dependencies:

S->FLDGPELERCLCNOW

LE R-> CMINCMAXRA

RACNOW->B

**Relationship: Enroll**

Attributes: Semester(S), Year(Y), Course id(C), Section id (SE), permission(P), Status(ST), Number(N), Student id(SI)

Primary Key: SYCSESI

Foreign Key: SYCSE,SI

Functional Dependencies:

SYCSESI-> PSTN

N->ST