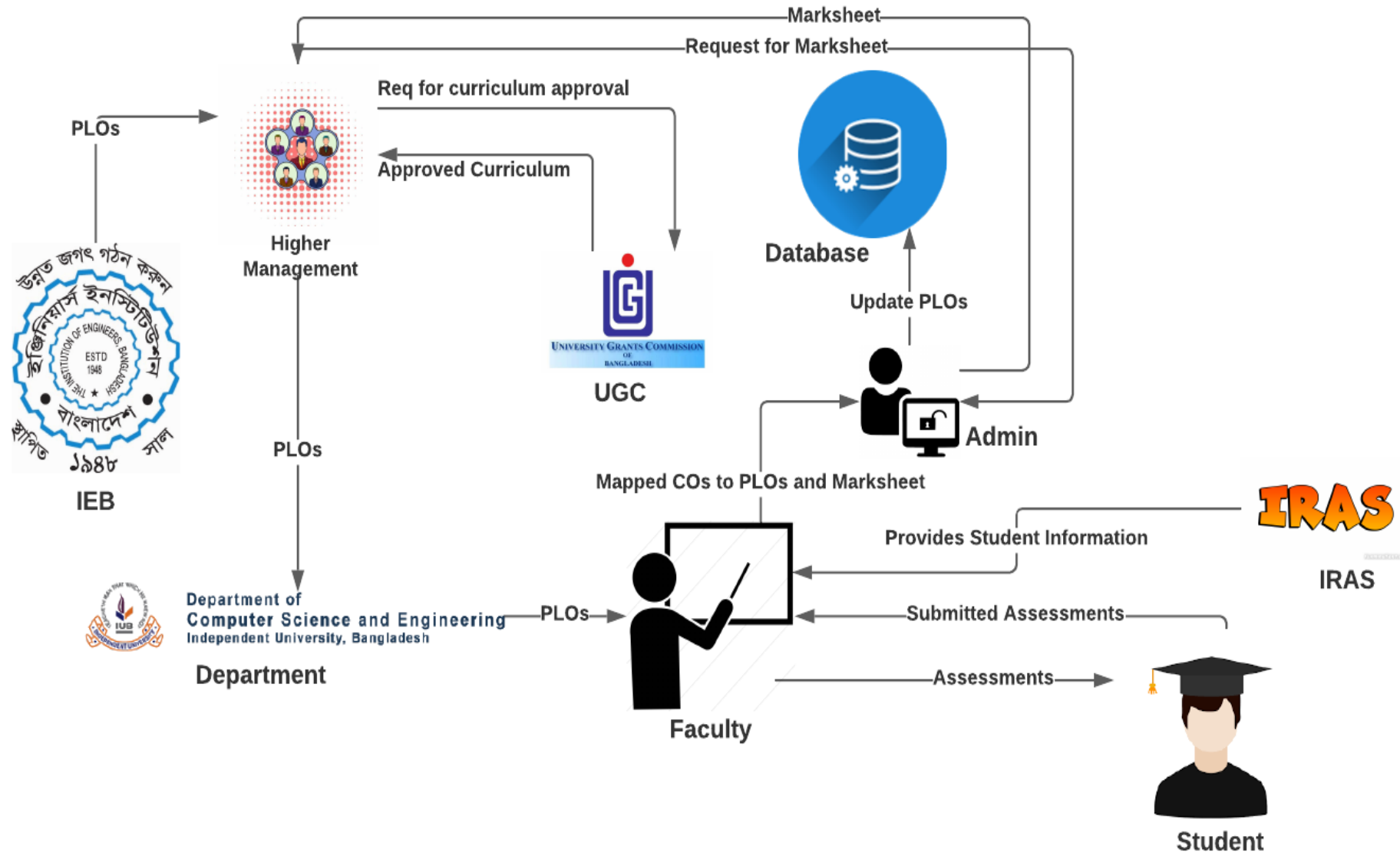


Student Performance Monitoring System (SPMS)

Presented By

Shoeb Uddin Ahmed	1920038
Istiaq Ahammad Limon	1930038
Tahsin Bin Khaled	1830422

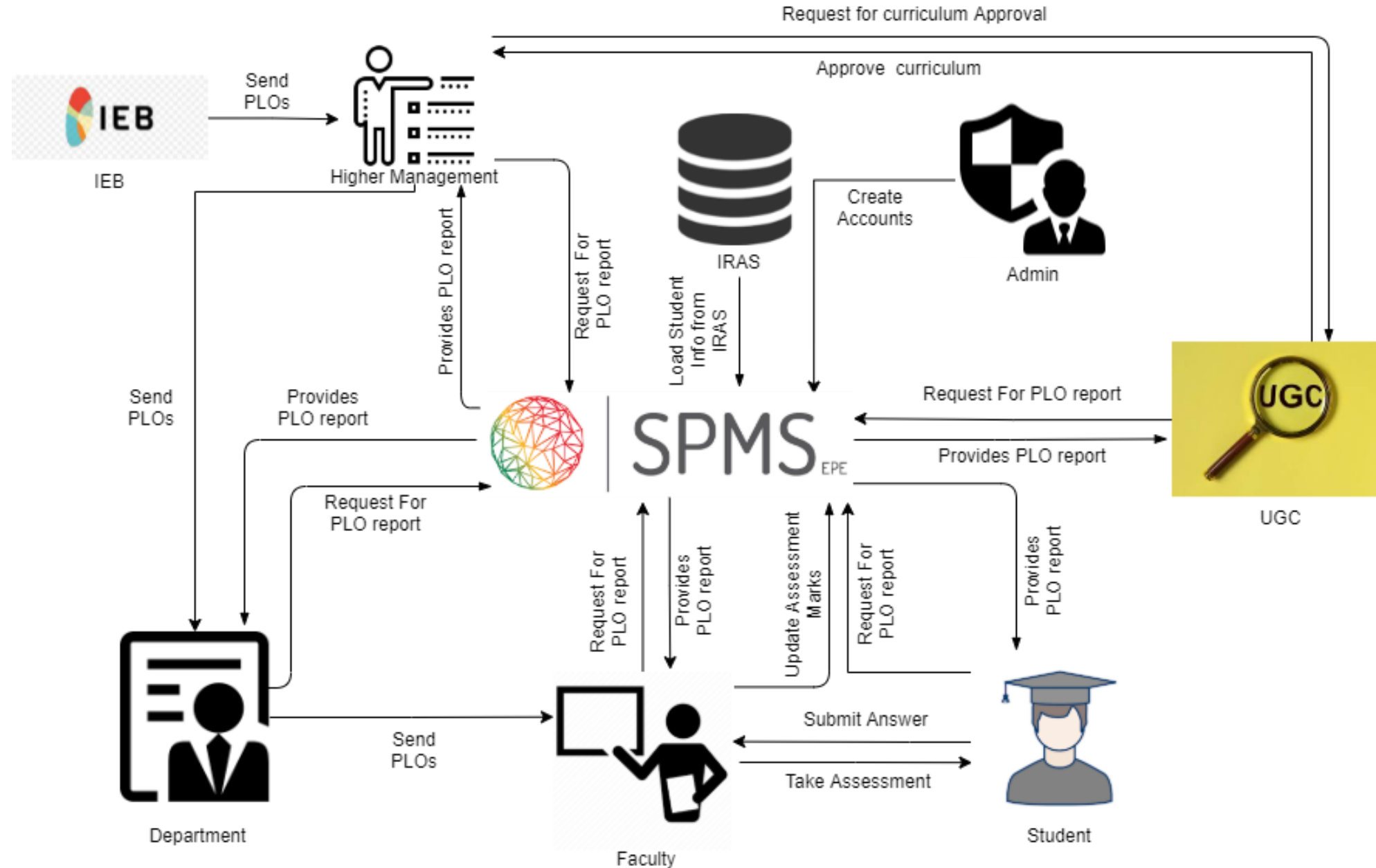
Rich Picture (Existing system)



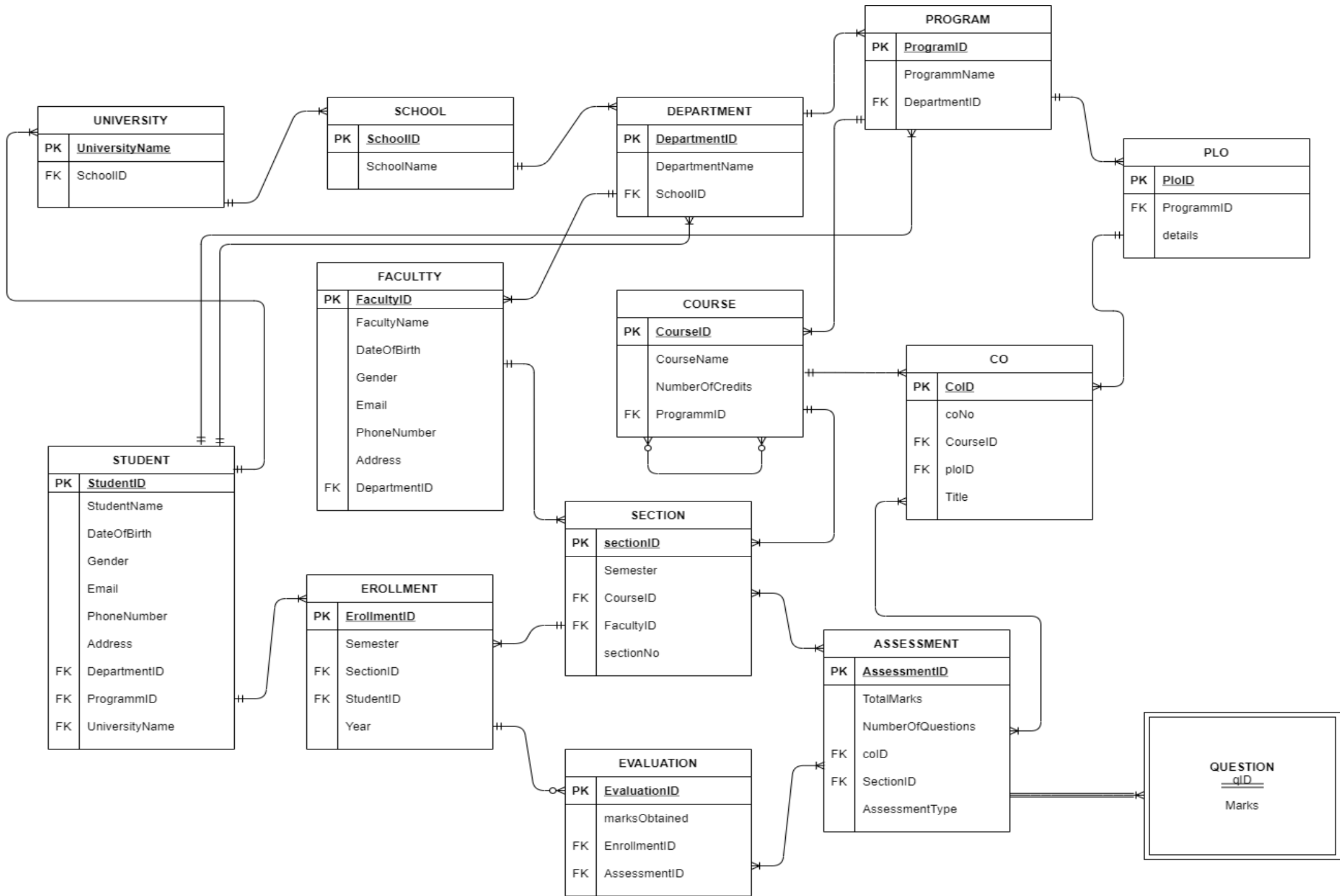
Problem Analysis

- The Faculty members have to provide the mark sheet to Admin and then the Admin enters the mark sheet into the Database. This process becomes too time-consuming and uses up a lot of extra resources.
- The CO, PLO achievement analysis has to be done by the faculty by manually entering marks of each student to finalize whether they pass or fail. The analysis has to be sent to the admin to be uploaded to the database. The entire CO, PLO achievement analysis table, and the passing of the data is extremely time-consuming.

Rich Picture (Proposed system)



Entity Relationship Diagram (ERD)



DEPENDENCY TABLE

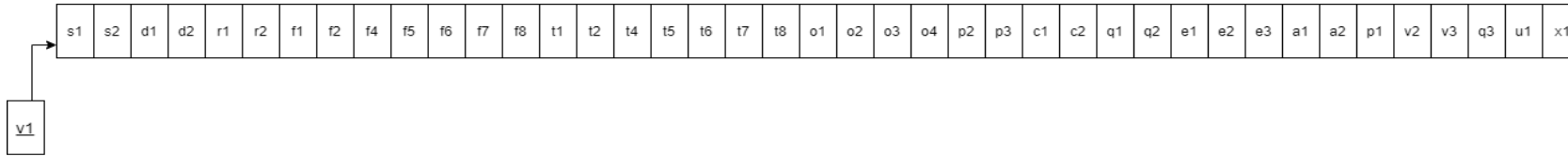
universityName →	schoolID
SchoolID→	SchoolName
DepartmentID→	DepartmentName, SchoolID
ProgramID→	programName, DepartmentID
FacultyID→	facultyName, gender, dateOfBirth, email, phone, address, DepartmentID
StudentID→	studentName, dateOfBirth, gender, email, phone, address,DepartmentID,ProgramID,universityName
CourseID→	courseName, noOfCredits, courseType, ProgramID
ploID→	ploNo, details, ProgramID
coID→	coNo, ploID, CourseID, title
SectionID→	sectionNo, semester, CourseID, FacultyID
EnrollmentID→	semester, year, SectionID, StudentID
assessmentNo →	ocID, SectionID,assessmentType, NumberOfQuestions

NORMALIZATION

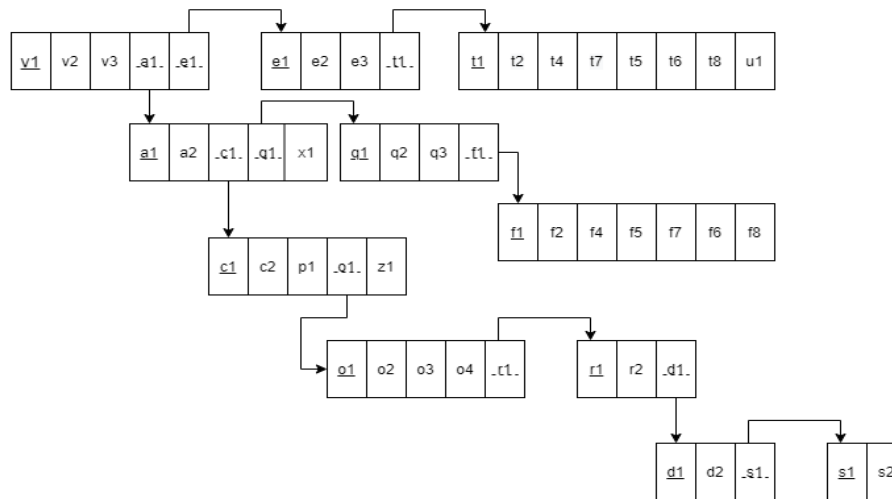
1NF

<u>v1</u>	s1	s2	d1	d2	r1	r2	f1	f2	f4	f5	f6	f7	f8	t1	t2	t4	t5	t6	t7	t8	o1	o2	o3	o4	p2	p3	c1	c2	q1	q2	q3	e1	e2	e3	a1	a2	p1	v2	v3	u1	x1
-----------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

2NF



3NF



BCNF

No non-key can identify any primary key or part of the primary key.
Therefore, all the relations are already in BCNF.

INPUT FORMS

Assessment Details

Assesment Details

Course:

Section:

Assessment Type:

Submit

PLO-CO mapping for the assessment

PLO-CO Mapping for the Assessment

Total COs to be mapped:

GO

Number Of Questions:

GO

Question 1:



Question 2:



Question 3:



Submit

Assessment performance of each student

Assessment Performance of Each Student

Total Students:

GO

Student 1:

Question1: Marks Achieved in the Question

Question2: Marks Achieved in the Question

Question3: Marks Achieved in the Question

Student 2:

Question1: Marks Achieved in the Question

Question2: Marks Achieved in the Question

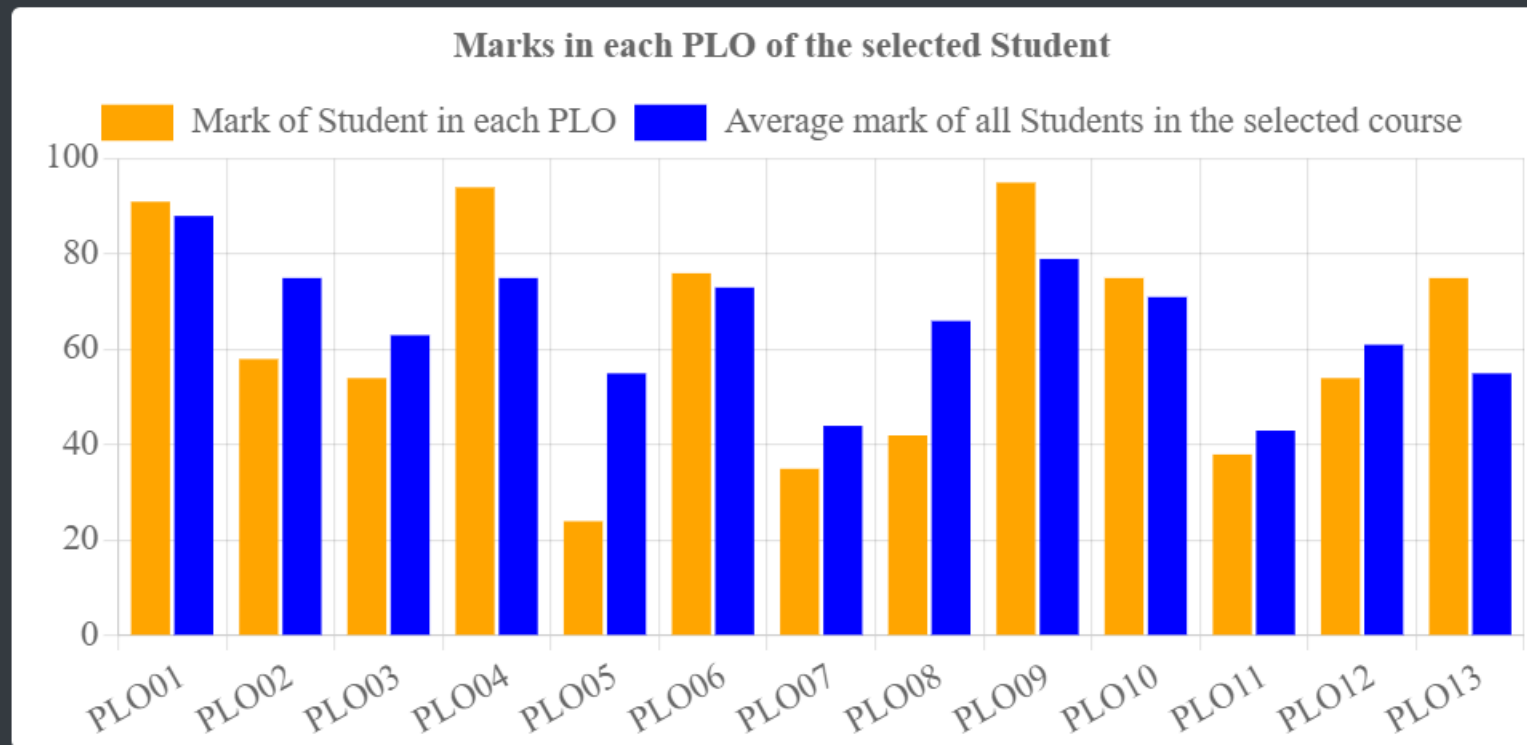
Question3: Marks Achieved in the Question

Submit

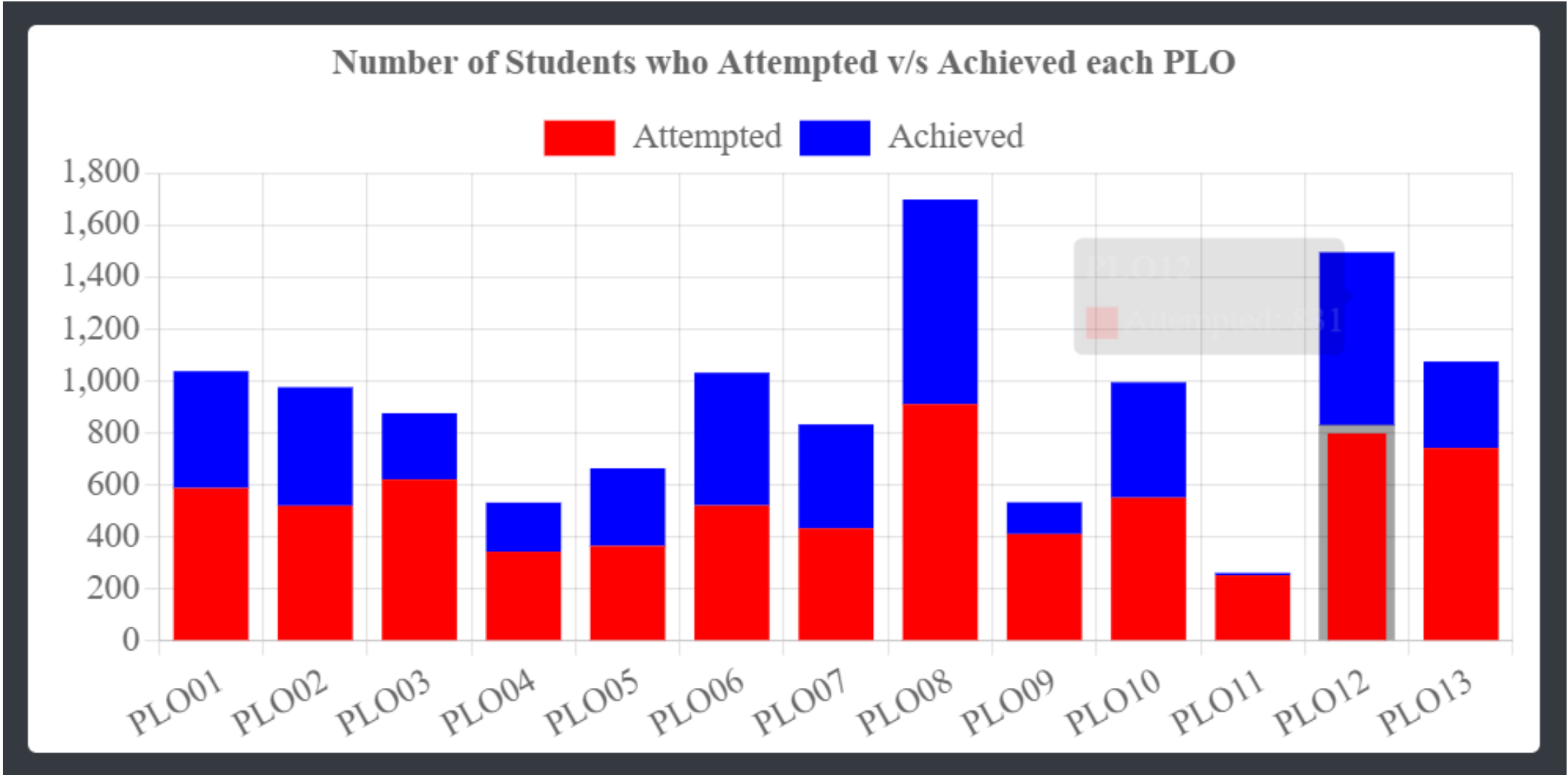
OUTPUT VIEWS

Student Wise PLO ANALYSIS (Faculty UI):

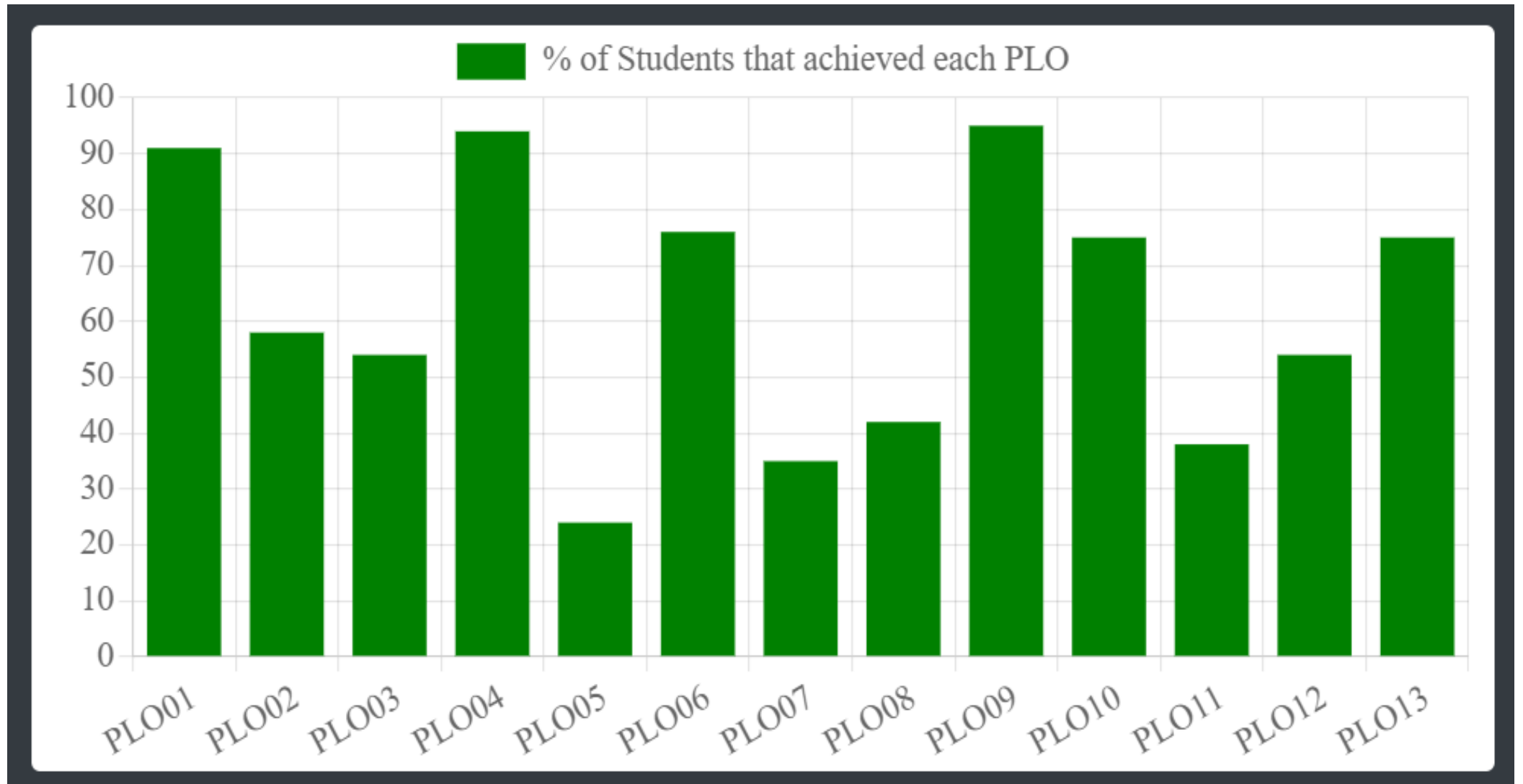
Marks of the selected Student in each PLO compared to the course average



PLO attempted VS Achieved By Students (Faculty DashBoard):



COURSE WISE PLO ANALYSIS (Faculty UI):



School-wise number of students attempted vs achieved for each PLO:

School-Wise Performance

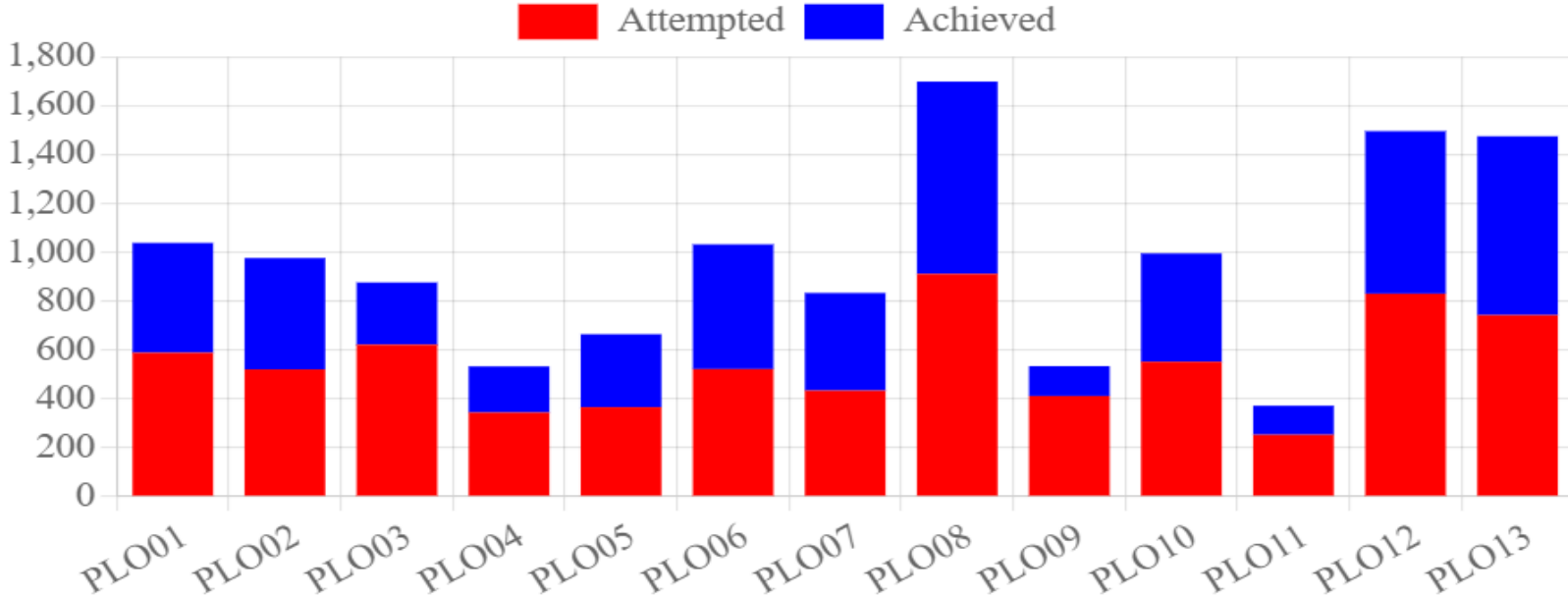
School:

Engineering, Technology & Sciences

▼

GO

Number of Students who Attempted v/s Achieved each PLO for selected School



University Wise PLO ANALYSIS:

PLO Achievement by Number of Students in Each Major

