

University Ranking Model

Application Engineering and Development
Assignment-3

Made By-
Mitali Gupta
Singh Pooja Kumari
Shreya Upplapati

How to choose
the best possible
course for getting
a job?

The Proposed Solution

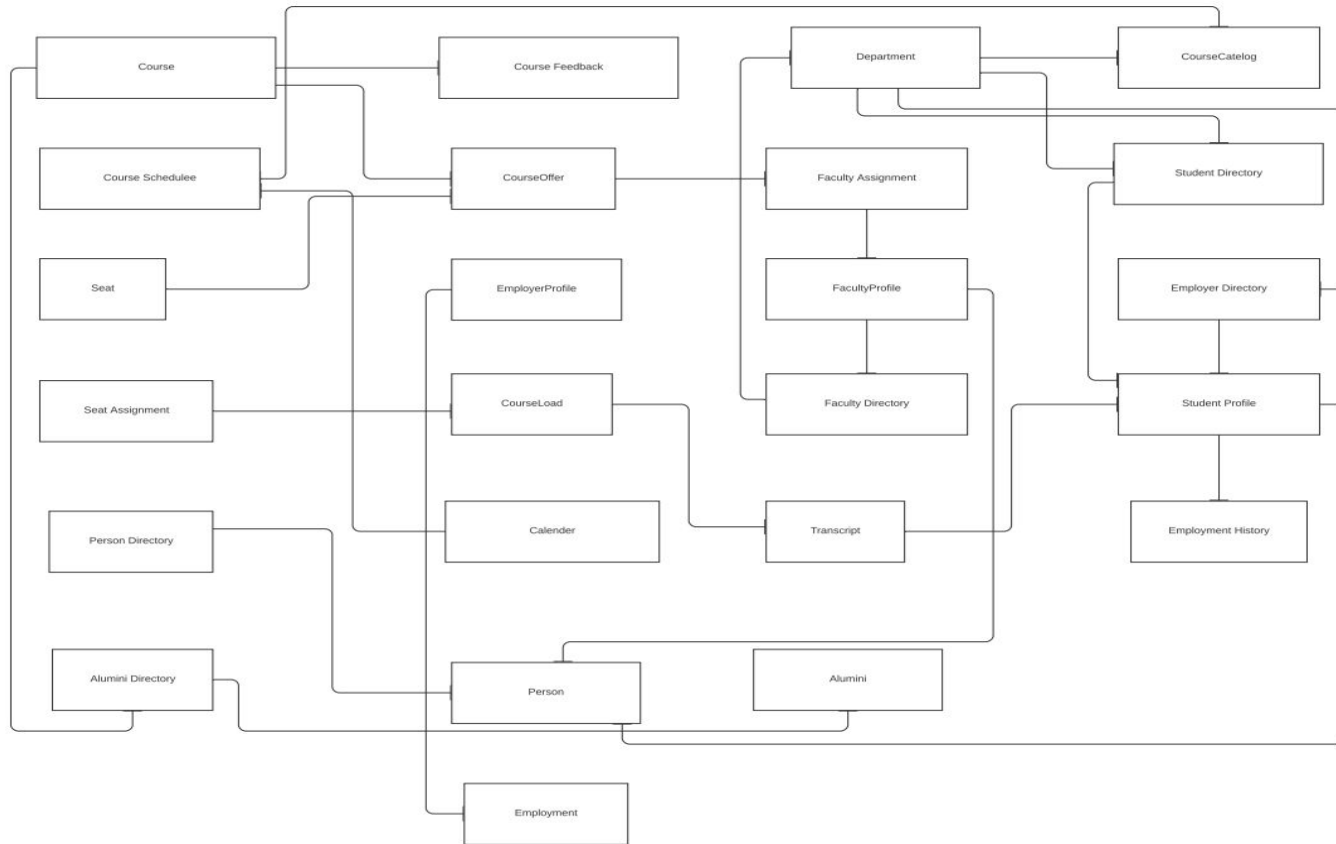
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Criteria for Ranking

The factors which affect the rating of the course have been emphasized upon directly to the ranking of the university

- Average GPA for each course
 - Most popular course
 - Total occupancy of each department
 - Total revenue generated by each department
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Object Diagram



Design Model

In order to create a performance measurement solution which analyses how faculty and courses contribute towards a student's professional growth, it is imperative that first, the department should be able to track a student's progress over years in a corporate environment plus to analyze which all courses helped the student in that and through that learn about what all changes and modifications are required in the curriculum.

Implementation

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Data Generation

The data is generated through the faker package

The data is generated for a period of 6 years from 2014 - 2020

There are 4 departments-

CS- Computer Science

INFO- Information Systems

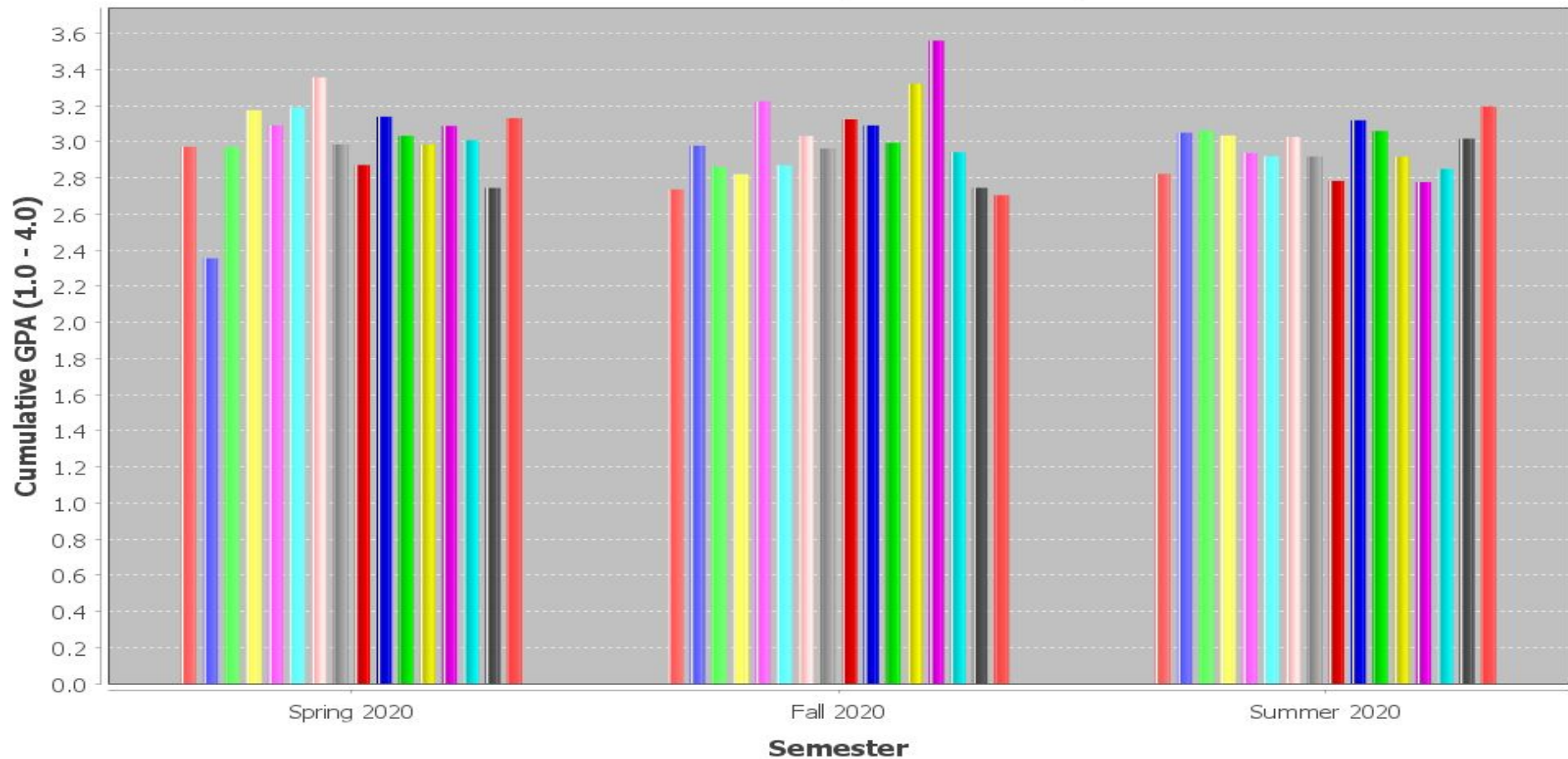
INDS- Industrial

ENGM- Engineering Management

- Each department has 4 courses that are randomly generated
- Each year has 3 semesters- Spring, Summer and Fall
- Each student can a GPA between 1.0 and 4.0
- Number of Students enrolled for each course is equal to the seats assigned for each course

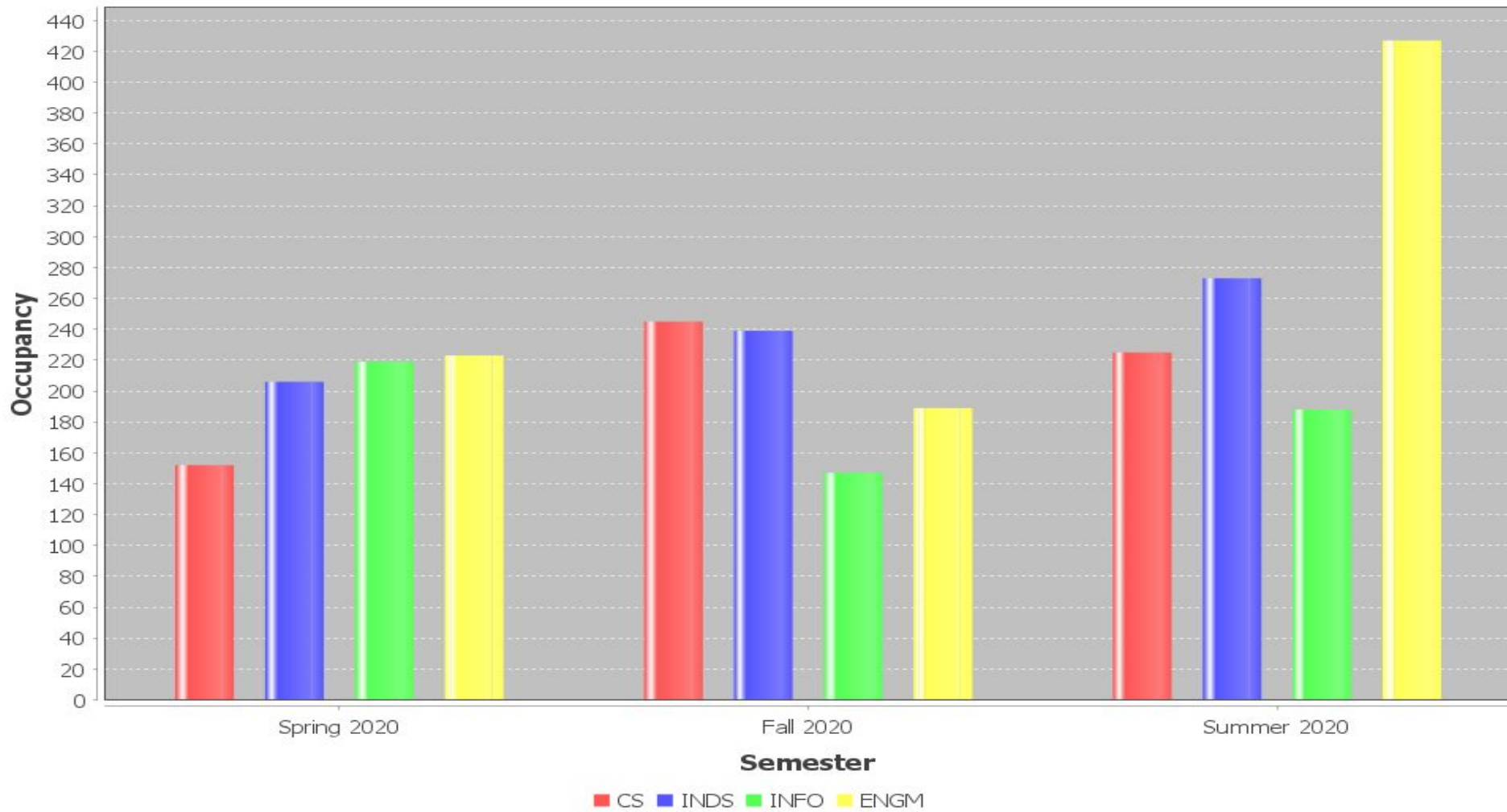
The various
dashboards show the
courses and the
departments ranking
for the year 2020

Cumulative GPA (Per Course)

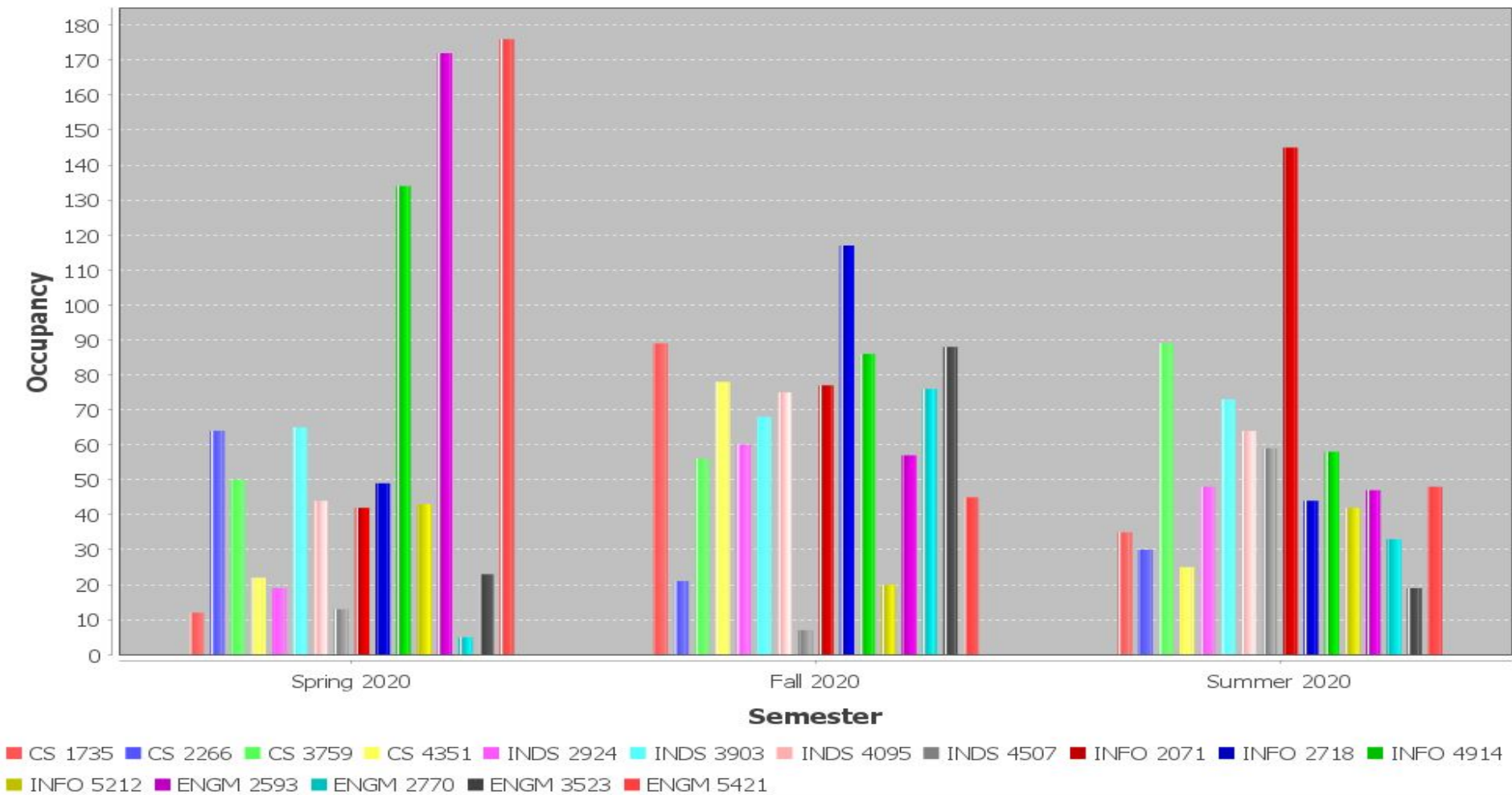


CS 3216 CS 4695 CS 5700 CS 5705 INDS 2676 INDS 2777 INDS 3912 INDS 4318 INFO 1337 INFO 2480 INFO 4664
 INFO 5189 ENGM 2440 ENGM 2868 ENGM 3024 ENGM 4205

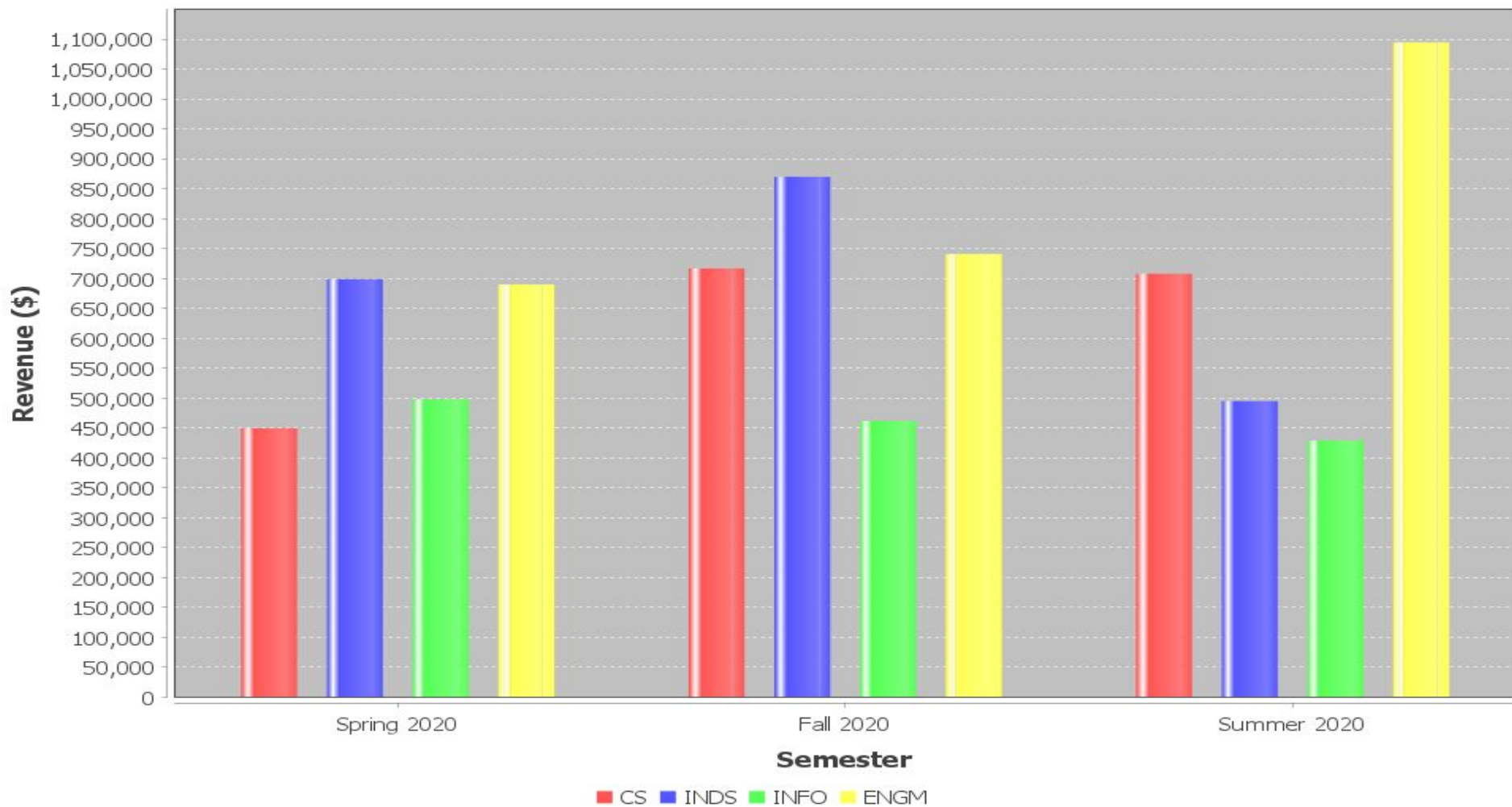
Total Occupancy



Most Popular Course



Total Revenue



Conclusion

With the help of given dashboards, we can rank the following for the 3 semesters in the year 2020

- ❑ Highest cumulative GPA for each course offered amongst all the departments
- ❑ Total number of seats occupied by every department
- ❑ Most popular course by the department
- ❑ Total revenue generated by each department