ANALYSIS OF FACTORS INFLUENCING CGPA IN FINAL YEAR STUDENTS

DONE BY

ADEDIGBA SUKURAT ALIMOT

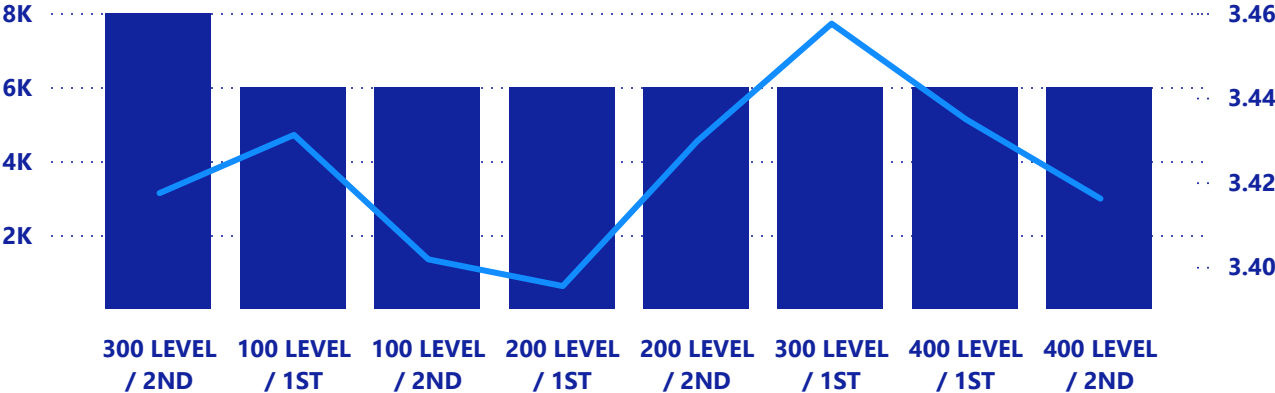| Mean CGPA	Enrollment	Courses	Department	Lecturers	Student
3.42	50K	493	10	100	1K

Overall Course Enrolled and CGPA Per Semester

● total enrollment ● CGPA

Department Performance

Department	total enrollment	average Score	CGPA
BIOLOGY	5200	63.19	3.43
CHEMISTRY	4900	63.10	3.42
COMPUTER SCIENCE	4800	63.11	3.40
ECONOMICS	4800	62.97	3.40
ENGLISH	5000	63.53	3.44
HISTORY	5100	63.24	3.44
MATHEMATICS	5300	63.04	3.39
PHYSICS	5000	62.92	3.42
POLITICAL SCIENCE	4900	63.06	3.42
PSYCHOLOGY	5000	63.43	3.47

Number of Lecturers Per Department
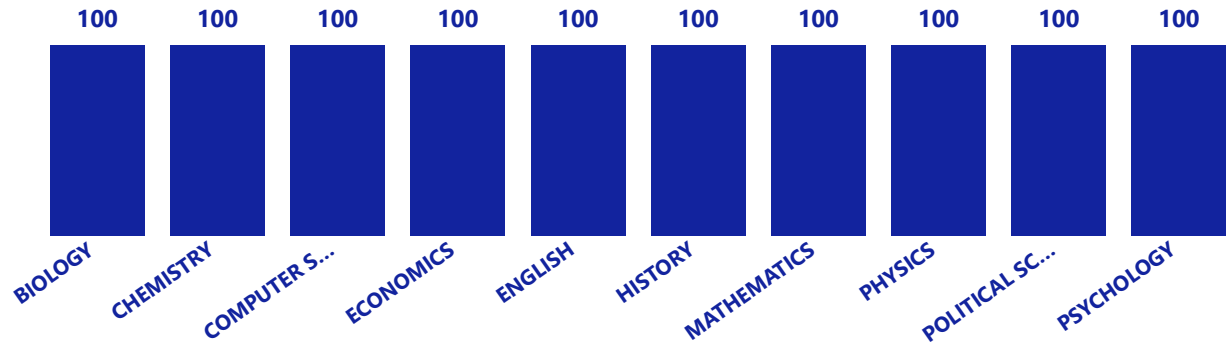
Number of Student Per Department
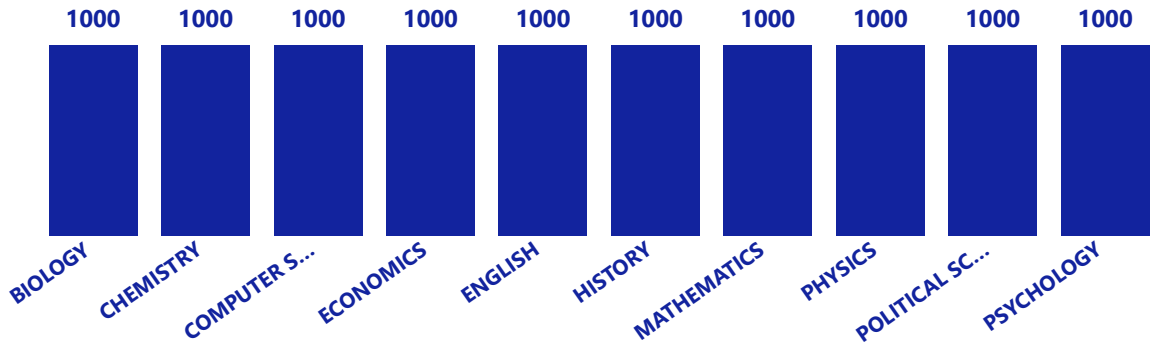
Course Analysis

Total Course Workload and Score by Credit_Unit

● TOTAL SCORE ● courses

Credit_Unit	Total Score
1	832K
2	732K
3	898K
4	695K

CGPA by Credit_Unit
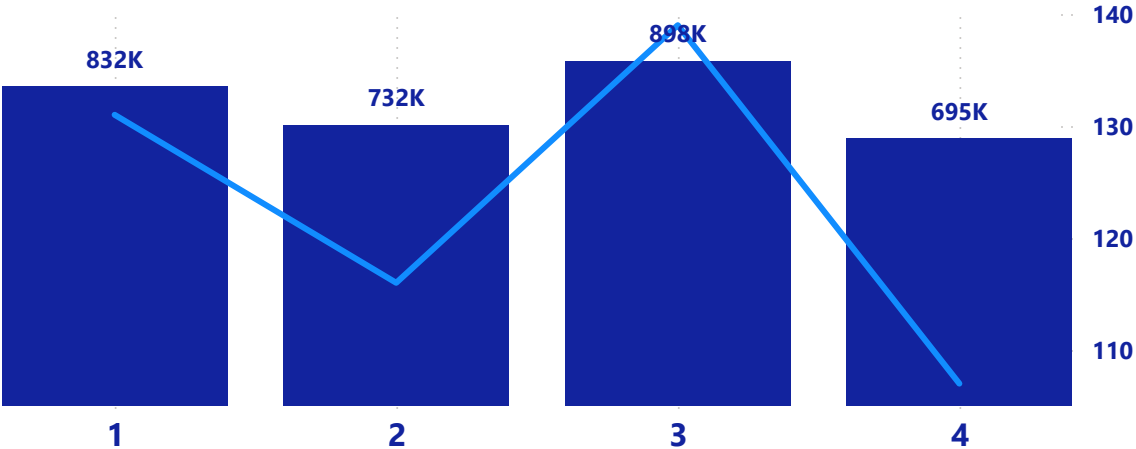
Credit_Unit	CGPA
4	3.4
3	3.4
2	3.4
1	3.4
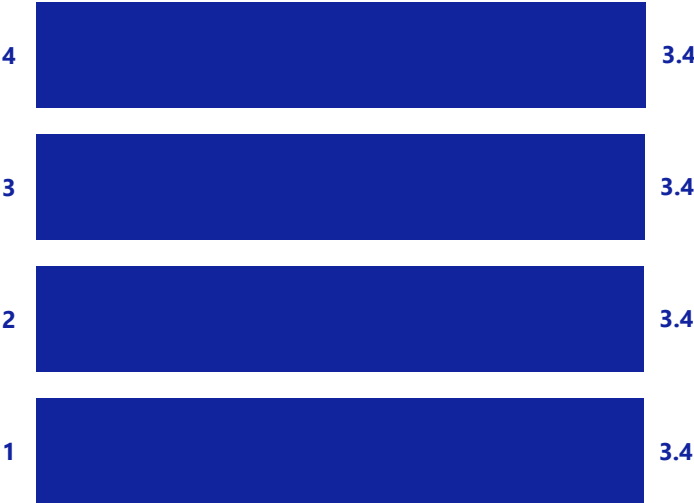
493
COURSE

492
No Of Courses Failed

2492
total failure

50
Course per Department

Top 10 Failed Courses With No of Students

Course	No of Students
HIS 2828	13
MAT 4646	13
BIO 909	12
CHE 1919	11
COM 2424	11
ECO 2121	11
ECO 707	11
ENG 1414	11
MAT 2525	11
PSY 2727	11
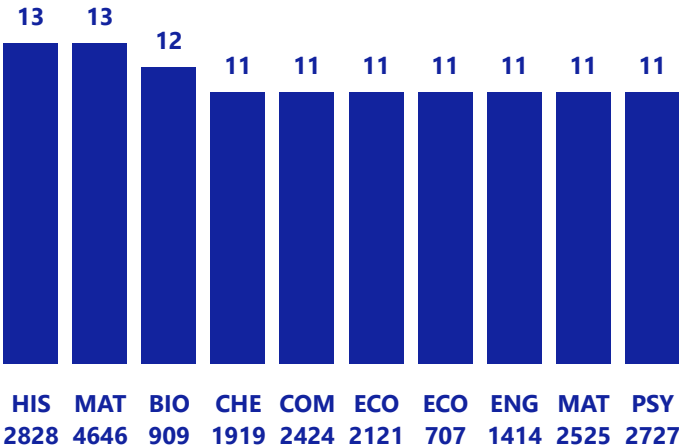
Course Categories by Credit Unit

Credit Unit	Count
4	107
3	139
2	116
1	131
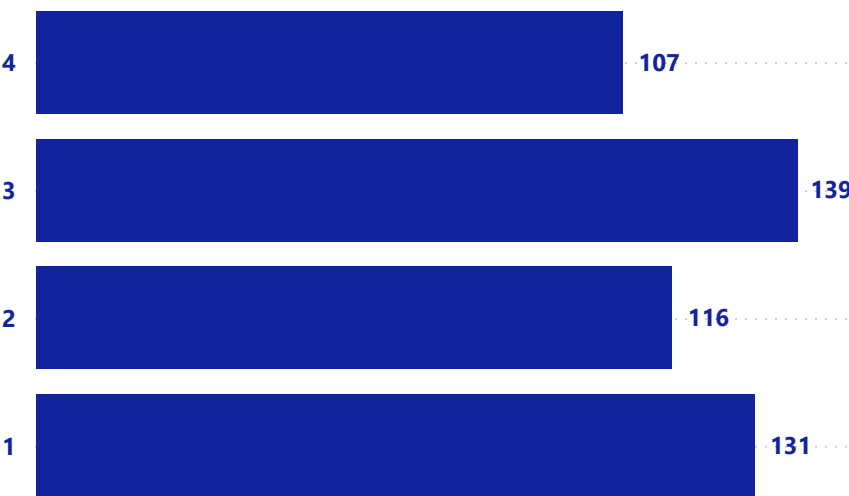
Student Failure Per Department

Department	Failures
ECONOMICS	95
MATHEMATICS	93
BIOLOGY	92
ENGLISH	92
POLITICAL SCI...	92
COMPUTER S...	91
HISTORY	91
PSYCHOLOGY	91
CHEMISTRY	90
PHYSICS	90
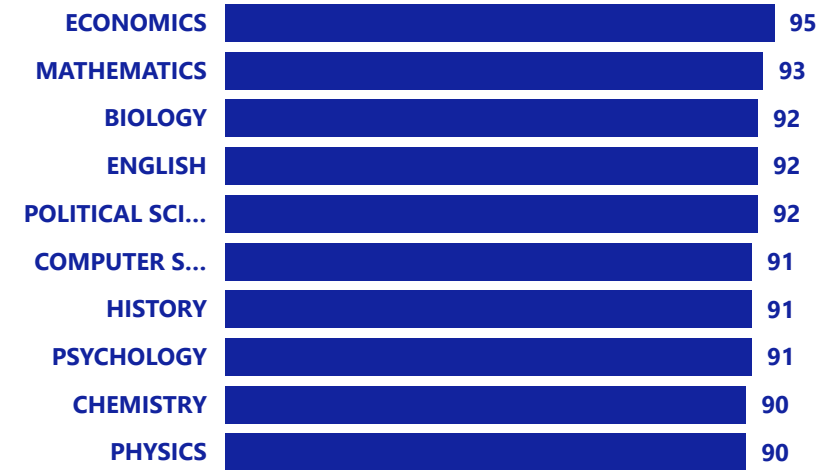
Lecturer Performance

Total Score by Lecturer Experience

Experience	Score
4 YEARS	751K
1 YEARS	725K
3 YEARS	663K
2 YEARS	614K
0 YEARS	405K
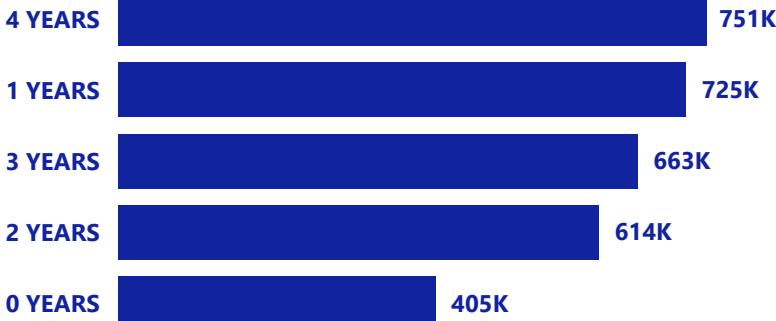
Lecturers by Years Experience

Experience	Count
4 YEARS	24
1 YEARS	23
3 YEARS	21
2 YEARS	19
0 YEARS	13

Lecturer Categories

Category	Count
DOCTOR	20
LECTURER	20
LECTURER 1	20
LECTURER 2	20
PROFESSOR	20
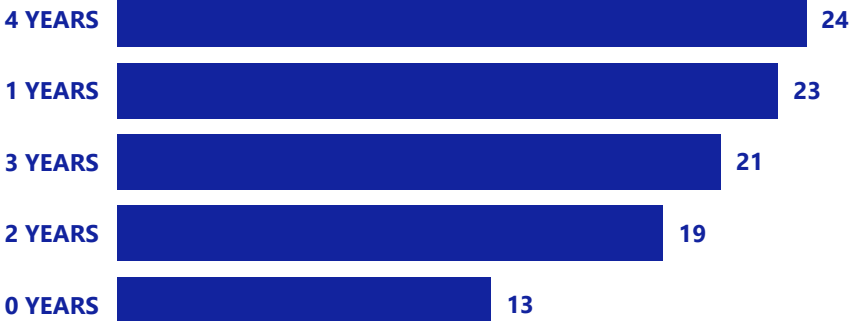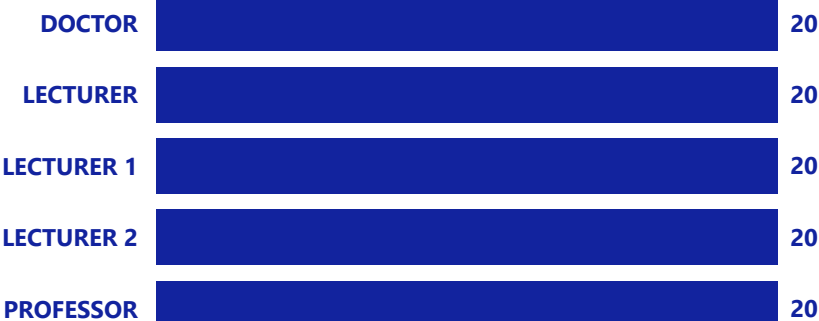
Lecturers Information

LecturerID	Full_Name	Department	Desgnation	Experience	Enrollment	Score
ST / BIO / 111	CARRILLO EMILY	BIOLOGY	PROFESSOR	4 YEARS	500	31787
ST / BIO / 112	BAILEY VANESSA	BIOLOGY	DOCTOR	4 YEARS	500	31189
ST / BIO / 113	PRATT TAMMY	BIOLOGY	LECTURER 1	0 YEARS	500	31508
ST / BIO / 114	LEONARD SHARON	BIOLOGY	LECTURER 2	1 YEARS	500	31332
ST / BIO / 115	KRUEGER PATRICIA	BIOLOGY	LECTURER	1 YEARS	500	32021
ST / BIO / 161	WRIGHT ANNA	BIOLOGY	PROFESSOR	1 YEARS	500	31218
ST / BIO / 162	SIMMONS LINDSAY	BIOLOGY	DOCTOR	4 YEARS	500	31700
ST / BIO / 163	KING REBECCA	BIOLOGY	LECTURER 1	3 YEARS	600	38245
ST / BIO / 164	LEE KAYLEE	BIOLOGY	LECTURER 2	2 YEARS	600	38068
ST / BIO / 165	SULLIVAN RANDY	BIOLOGY	LECTURER	3 YEARS	500	31529
ST / CHE / 116	WALKER JULIE	CHEMISTRY	PROFESSOR	3 YEARS	500	31444
ST / CHE / 117	ANDERSON ALEXANDER	CHEMISTRY	DOCTOR	2 YEARS	500	31271
ST / CHE / 118	STOKES OLIVIA	CHEMISTRY	LECTURER 1	3 YEARS	500	30742
ST / CHE / 119	BROWN SELENA	CHEMISTRY	LECTURER 2	1 YEARS	500	31629
ST / CHE / 120	CLARK ANDREW	CHEMISTRY	LECTURER	1 YEARS	500	31480
ST / CHE / 166	ROBINSON TYLER	CHEMISTRY	PROFESSOR	3 YEARS	500	31770

Top Five Lecturers with Highest Student Grade

LecturerID	Grade
ST / BIO / 163	202
ST / HIS / 178	197
ST / MAT / 151	197
ST / ECO / 141	196
ST / BIO / 164	195

Student Performance

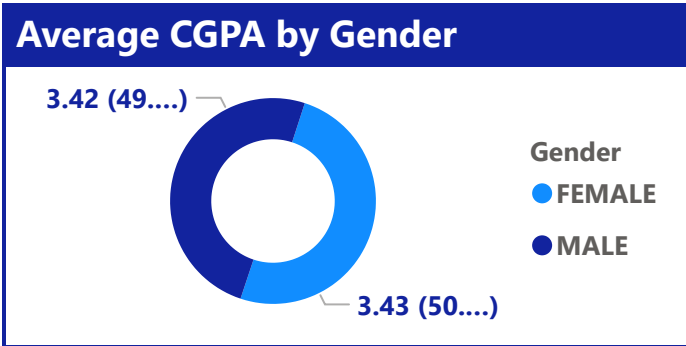|	Student	Number of Girls	Number of Male	Course Per Student	Performance Rate	Failure Rate
	1K	514	486	50	63.16%	92%

Best Student Information

ECO / 1084 StudentID	JOHN JOHNS... Full_Name	ECONOMICS Department
MALE Gender	4.10 Sum of CGPA	SECOND CLASS ... Remark

Student Remark Categories

Category	Value
SECOND CLASS LOWER	609
SECOND CLASS UPPER	390
THIRD CLASS	1

Average CGPA by Gender

3.42 (49....)
3.43 (50....)
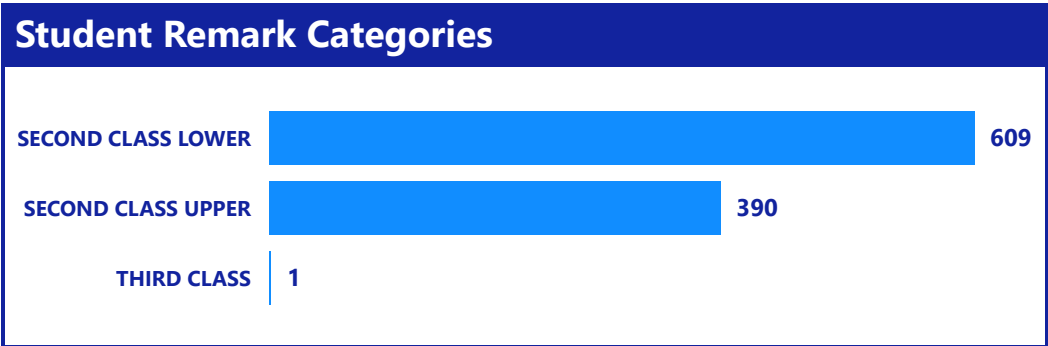
Gender
- FEMALE
- MALE

Student Information

StudentID	Full_Name	Department	Gender	Remark
BIO / 1001	DEREK HOLLAND	BIOLOGY	FEMALE	SECOND CLASS UPPER
BIO / 1002	MICHAEL DORSEY	BIOLOGY	MALE	SECOND CLASS UPPER
BIO / 1003	ANDREW WILSON	BIOLOGY	FEMALE	SECOND CLASS UPPER
BIO / 1004	JENNIFER DECKER	BIOLOGY	MALE	SECOND CLASS LOWER
BIO / 1005	JOYCE VEGA	BIOLOGY	FEMALE	SECOND CLASS LOWER
BIO / 1006	ANDREW KENNEDY	BIOLOGY	MALE	SECOND CLASS UPPER
BIO / 1007	MARCUS WILLIS	BIOLOGY	MALE	SECOND CLASS LOWER
BIO / 1008	RICHARD HANNA	BIOLOGY	FEMALE	SECOND CLASS UPPER
BIO / 1009	JOHN WEAVER	BIOLOGY	FEMALE	SECOND CLASS LOWER
BIO / 1010	JUSTIN DAVIS	BIOLOGY	MALE	SECOND CLASS LOWER
BIO / 1011	SAMANTHA RYAN	BIOLOGY	FEMALE	SECOND CLASS UPPER
BIO / 1012	JOHN BRANDT	BIOLOGY	FEMALE	SECOND CLASS LOWER
BIO / 1013	LORI HILL	BIOLOGY	MALE	SECOND CLASS LOWER
BIO / 1014	SERGIO HERNANDEZ	BIOLOGY	FEMALE	SECOND CLASS UPPER

Best Student Per Department

StudentID	Full_Name	Department	Sum of CGPA
BIO / 1063	SANDRA MARTINEZ	BIOLOGY	3.96
CHE / 1027	TINA CLARK	CHEMISTRY	4.04
COM / 1044	ANDREW KNIGHT	COMPUTER SCIENCE	3.94
ECO / 1084	JOHN JOHNSON	ECONOMICS	4.10
ENG / 1067	RICKY CONNER	ENGLISH	3.95
HIS / 1100	JAMES JACKSON	HISTORY	4.05
MAT / 1002	RACHEL MANN	MATHEMATICS	3.78
MAT / 1067	ROBERT MASSEY	MATHEMATICS	3.78
PHY / 1005	BRANDON ZHANG	PHYSICS	3.85
POL / 1040	TONY JONES	POLITICAL SCIENCE	3.95
PSY / 1058	JASON STOUT	PSYCHOLOGY	4.04
PSY / 1072	VALERIE ROSALES	PSYCHOLOGY	4.04

CGPA by Age

Age	CGPA
28	3.4
	3.5
26	3.4
	3.4
24	3.4
	3.4
22	3.4
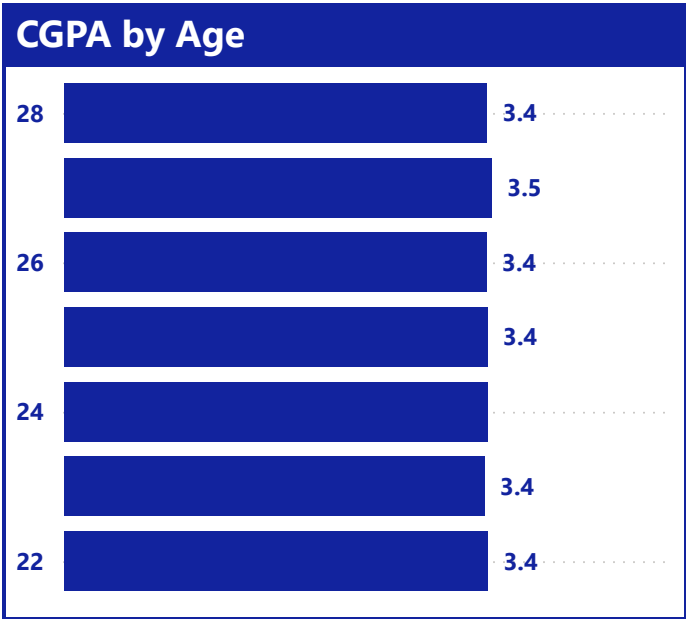
OVERVIEW

- **Mean CGPA across departments is 3.42, indicating a reasonably strong performance.**
- **Departments like Psychology (3.47) and History (3.45) have higher CGPAs, while others such as Political Science (3.42) and Chemistry (3.42) are on par with the mean.**
- **Continuous monitoring of departments with lower scores (e.g., English at 3.44) can help improve outcomes.**

COURSES VIEW

- **Each department registered for 50 courses**
- **Student perform better at 3unit courses**
- **Almost all courses has the lowest student grade**

LECTURER VIEW

- **A total distinct count of 100 lecturers**
- **lecturers with 4years experience perform better**

STUDENT VIEW

- **Each student enrolled for 50 courses**
- **A total no of one thousand student 0ver nine hundred student failed one or more courses only eighty three student passed all courses.**
- **highest CGPA is 4.10 which falls under second class upper and also the categories majorities fall into.**
- **Age 24 has the highest CGPA performance.**

Improving Academic Performance
- **Targeted Interventions:**

Focus on departments with CGPAs around the mean (e.g., Political Science, Chemistry, and English) by introducing peer mentoring, study groups, and academic tutorials to improve student performance.
- **Departmental Support Programs:**

Implement department-specific programs such as tutoring sessions and faculty development workshops to strengthen teaching effectiveness and student learning.

Addressing Low and Average Grade Categories
- **Supplemental Instruction Programs:**

Introduce remedial classes and workshops for students in the 3.0–3.5 grade range to help them improve performance and move toward higher categories.
- **Personalized Learning Plans:**

Offer academic counseling and individualized learning strategies for struggling students.

Enhancing Student Support Systems
- **Wellness and Motivation Programs:**

Introduce student wellness programs, including mental health counseling and motivation sessions, to ensure students perform at their best.
- **Career Guidance:**

Offer career counseling and industry exposure opportunities to keep students engaged and aligned with career goals.

By implementing these recommendations, you can drive academic excellence, improve student satisfaction, and enhance overall institutional performance. Let me know if you'd like me to expand on any specific area!

Optimize Lecturer Performance
- **Recognition for Top Performers:** Regularly recognize the "Top Five Lecturers with Highest Student Grade" through awards, bonuses, or other incentives to motivate staff.
- **Mentorship Programs:** Pair top-performing lecturers with less experienced ones to foster knowledge sharing and professional growth.

Strengthen Professional Development
- **Training Opportunities:** Provide professional development programs for lecturers, particularly for those with less experience, to help improve their performance.
- **Research Encouragement:** Encourage and fund research opportunities, especially for lecturers in lower categories (Lecturer 1 and 2), to build expertise.

Improve Lecturer Effectiveness
- **Feedback System:** Introduce student feedback forms to gather insights on lecturer performance, teaching style, and effectiveness.
- **Performance Analysis:** Combine total scores with qualitative feedback to create a comprehensive view of lecturer impact.