

Results of COE Research Survey

Current Students Survey

Facts:

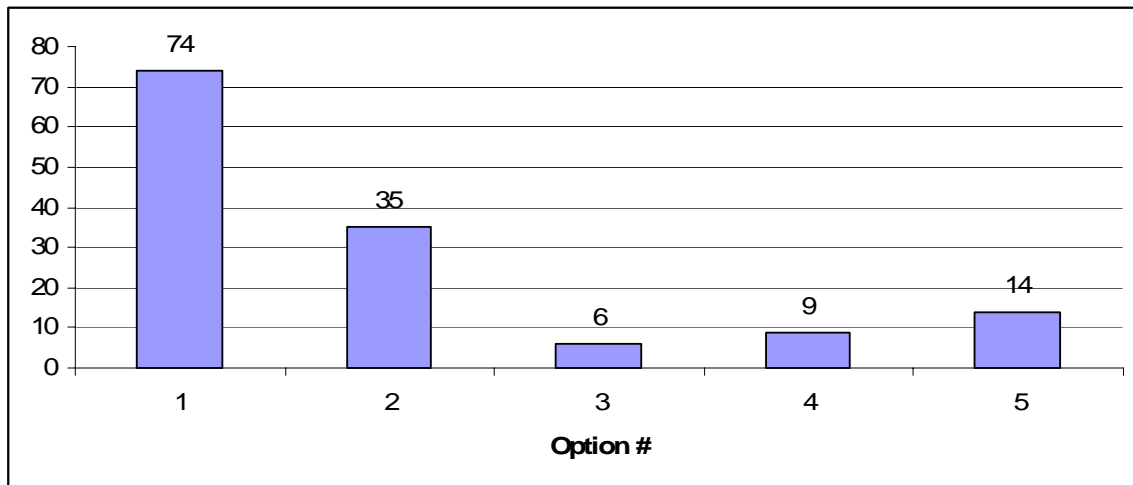
- The survey questions were set and agreed upon by a special committee in the COE dept., which is concerned in the low enrollment issue in the dept., beside the IEEE-KFUPM SB team.
- Total number of undergraduate students in 072 is 227
- Paper based survey so we can assure big number of participation
- The COE Research team distributed the surveys at the beginning of each class of COE courses (2xx, 3xx, and 4xx level courses) with the help of COE faculty.
- COE 2xx level courses start to be taken by Sophomore-level students, so Freshman-level students were not included in the surveying process.
- The amount of targeted population for the survey was 227-59(Freshman-level students) = 168 students.
- The team succeeded to collect 130 completed surveys i.e. 77.4% of the population.

The survey questions:

1. Why did you choose COE as your major in KFUPM?

- 1 I like computer-related subjects (includes HW and SW)
- 2 I like hardware-related subjects
- 3 Friends
- 4 Job opportunities
- 5 Other: _____

Results:

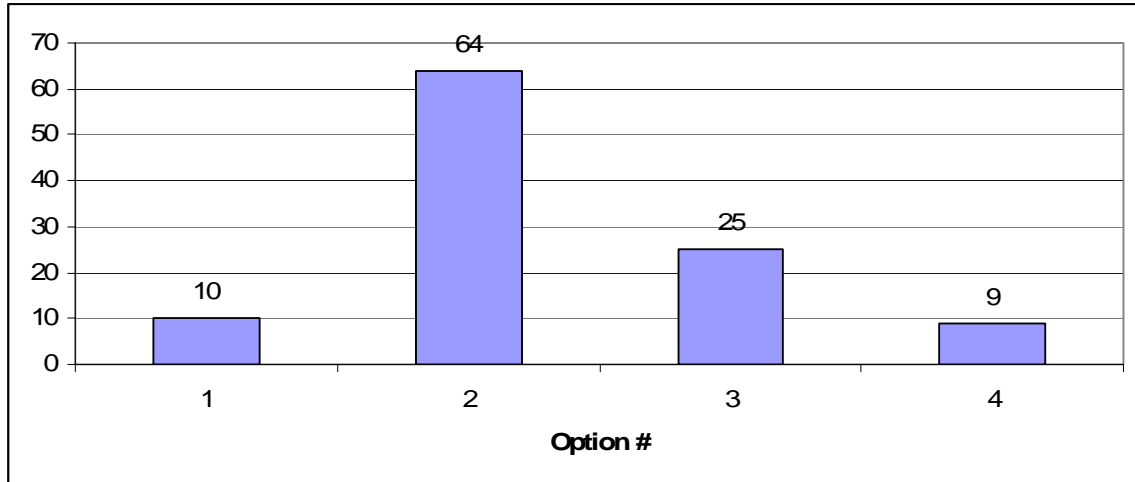


Other (in general): I like specific areas like networking| COE covers all technical fields and topics.

2. Are you satisfied with the COE department (it meets your expectations)?

- 1 [] Strongly Satisfied
- 2 [] Satisfied
- 3 [] Unsatisfied
- 4 [] Strongly Unsatisfied

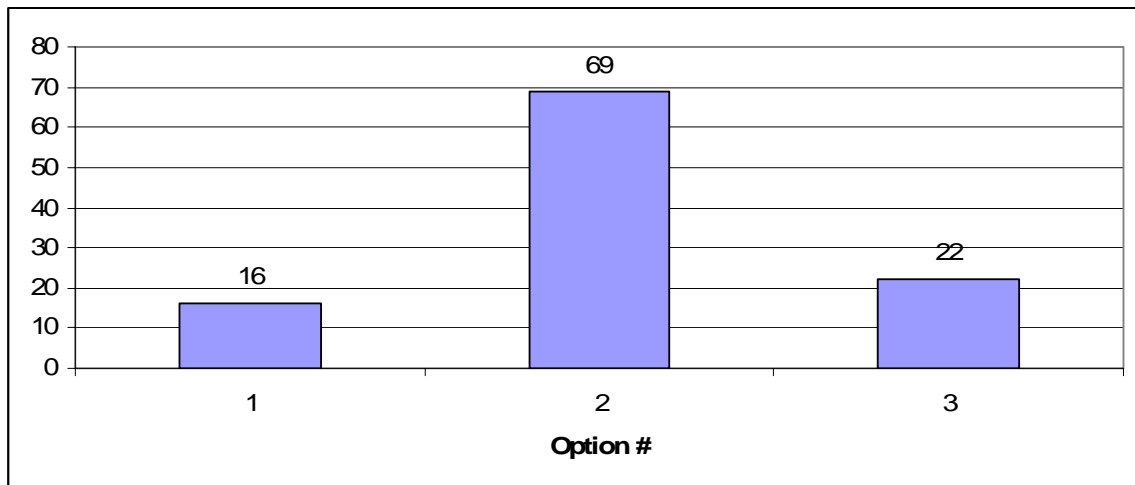
Results:



3. Were you aware of COE specialization areas before joining?

- 1 [] Yes, very well
- 2 [] Yes, but not very much
- 3 [] No

Results:

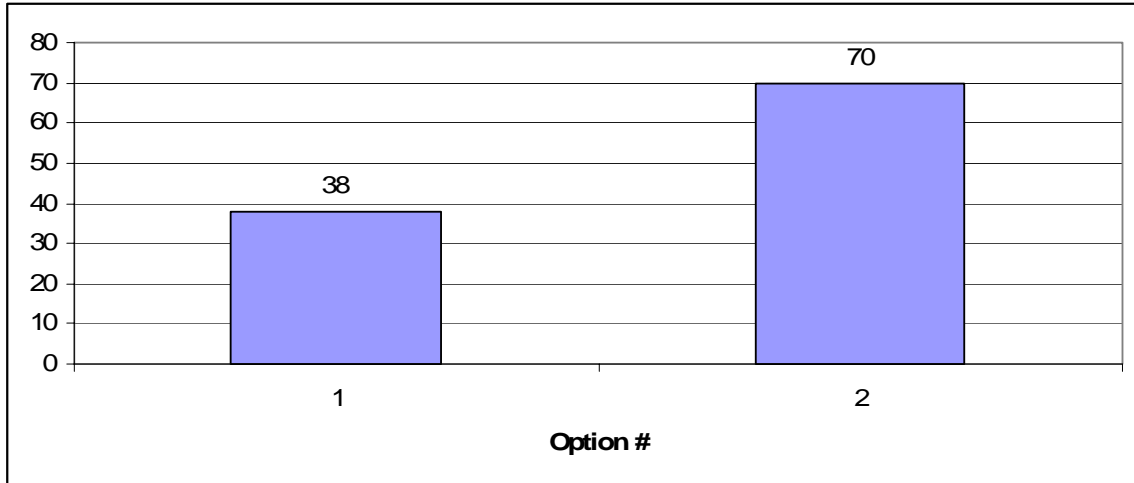


4. Do you feel that you have strong background in different programming languages other than Java?

1 Yes 2 No

If yes specify: _____

Results:



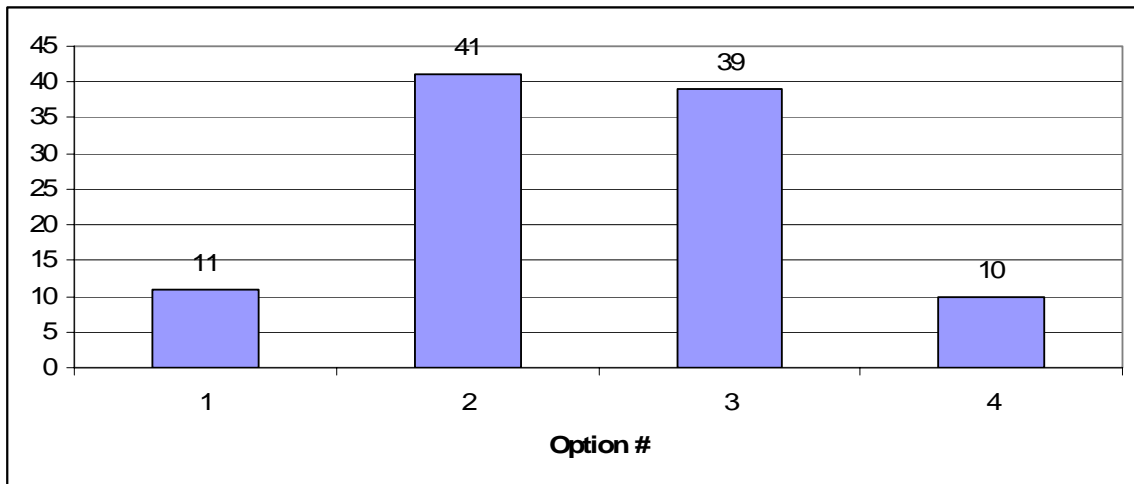
Mostly specified languages were: C, C++, PHP, assembly, ...

5. What is your overall evaluation of COE elective courses?

1 Excellent 2 Good 3 Average

4 Bad, Why? _____

Results:

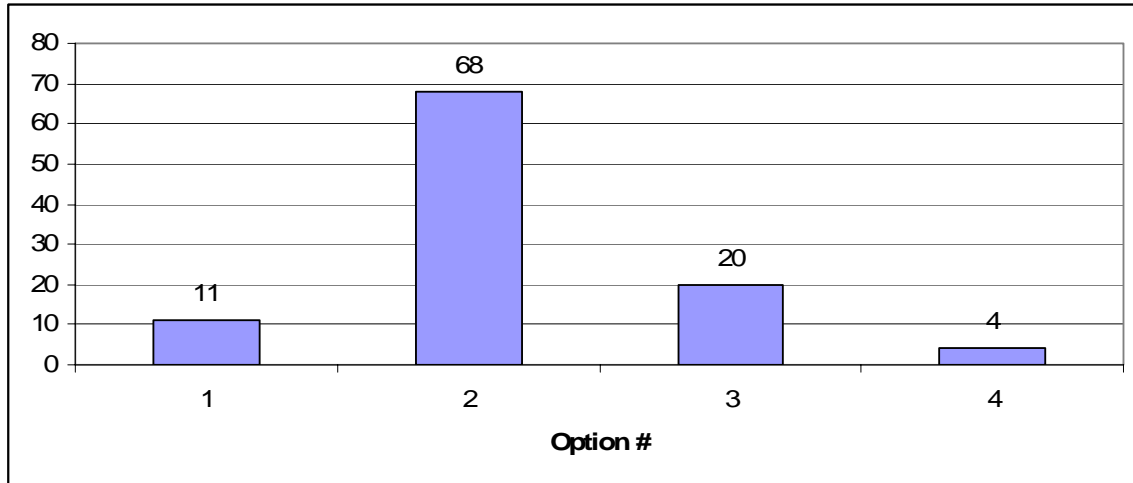


Bad why: Not always available| old fashioned| not well prepared and referenced| should be updated and interactive| because they focus on networks| Sometimes the material is modeled as the professor wants it, so it may become unbeneficial, getting approval from the dept. may solve the problem.

6. COE courses are available when I want to register in them:

- 1 Strongly Agree 2 Agree
3 Disagree 4 Strongly Disagree

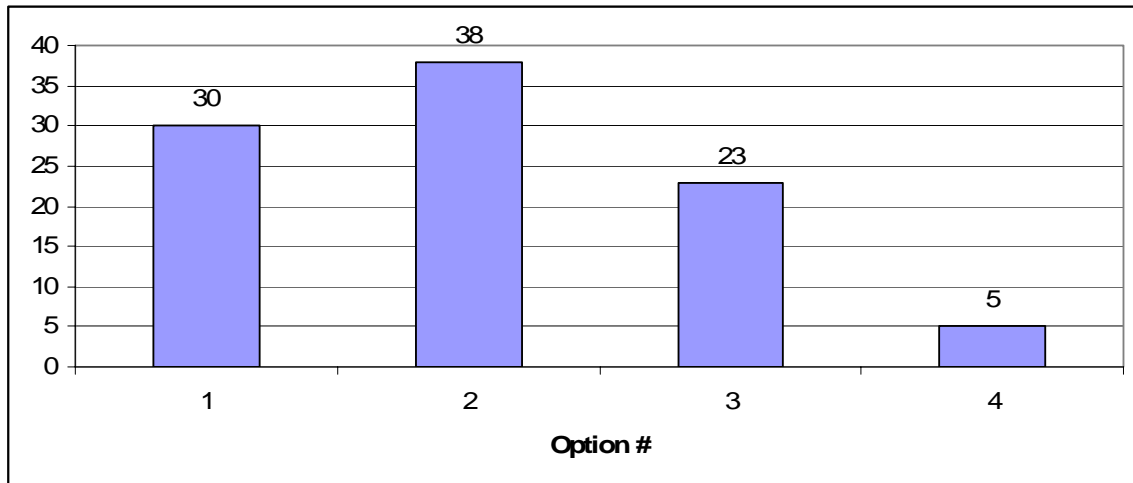
Results:



7. What is your overall evaluation of the faculty members teaching in the COE department?

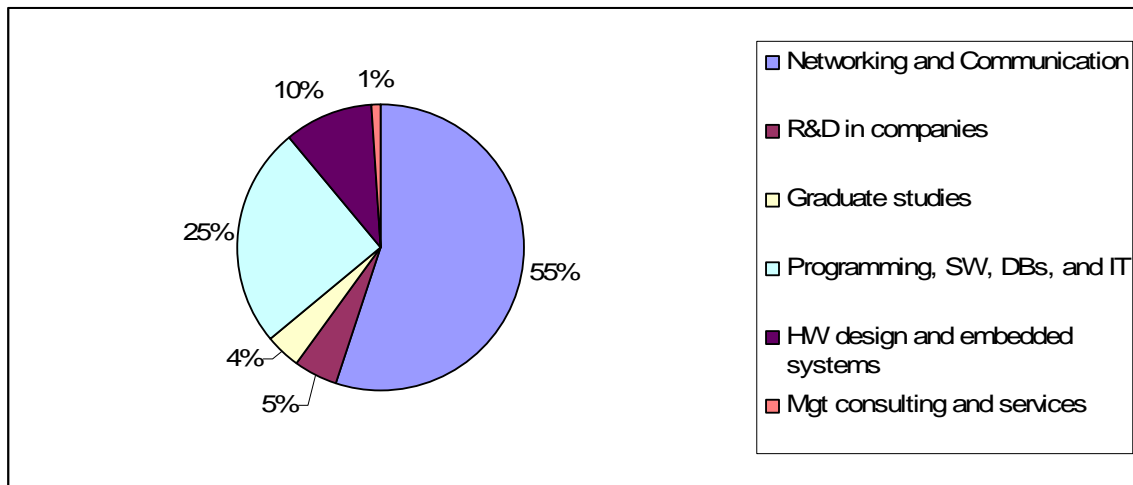
- 1 Excellent 2 Good 3 Average
4 Bad, Why? _____

Results:



8. In which area do you expect to work after graduation?

Results:



9. What would you like to have known about the COE major before you decided to join the department?

Results:

- Areas of study
- Areas of work
- Description of core and elective courses
- Job opportunities
- Percentage of programming used in the courses
- Future of COE
- Professors' dealing with students.

10. What should COE do to attract more students?

Results:

- Show senior projects
- More seminars on the dept. to explain it
- Describing COE courses for prep year students
- More adds and creating nice anime for the dept.
- Add more hardware and embedded systems courses
- More care for the dept. students (training, honoring ceremonies,...)
- Explain how the market looks toward COE grads
- Regular meetings between the chairman, faculty, and students

- Focus on practice rather than theory and taking real case studies from industry
- Improving core courses and making the curriculum more flexible
- Cooperate with big companies
- Benefit from other departments experience in attracting students
- Opendays
- Meetings between EXCOE students and prep year students.
- COE Awareness Campaigns.
- Fight rumors (COE is like rockets science)
- Make exams easier | professors should be friendly more
- Free meals for COE and music during lectures

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Prep Year Students Survey

Facts:

- The survey questions were set and agreed upon by a special committee in the COE dept., which is concerned in the low enrollment issue in the dept., beside the IEEE-KFUPM SB team.
- Total number of participated students is 115 students
- Paper based survey so we can assure big number of participation
- For simplicity, an Arabic version was used in the surveying process.

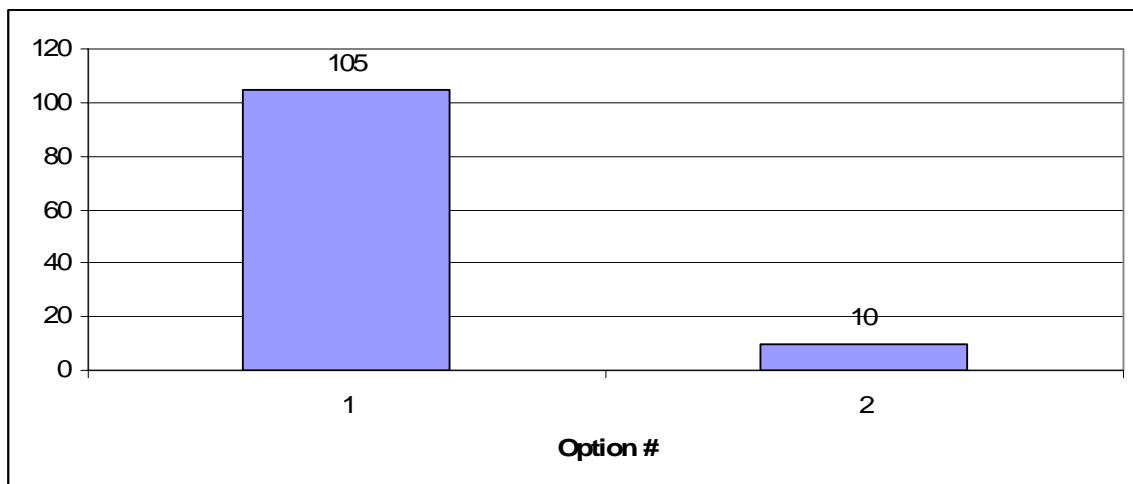
The survey questions:

1- Have you heard about Computer Engineering (COE) major in KFUPM?

1 [] Yes

2 [] No

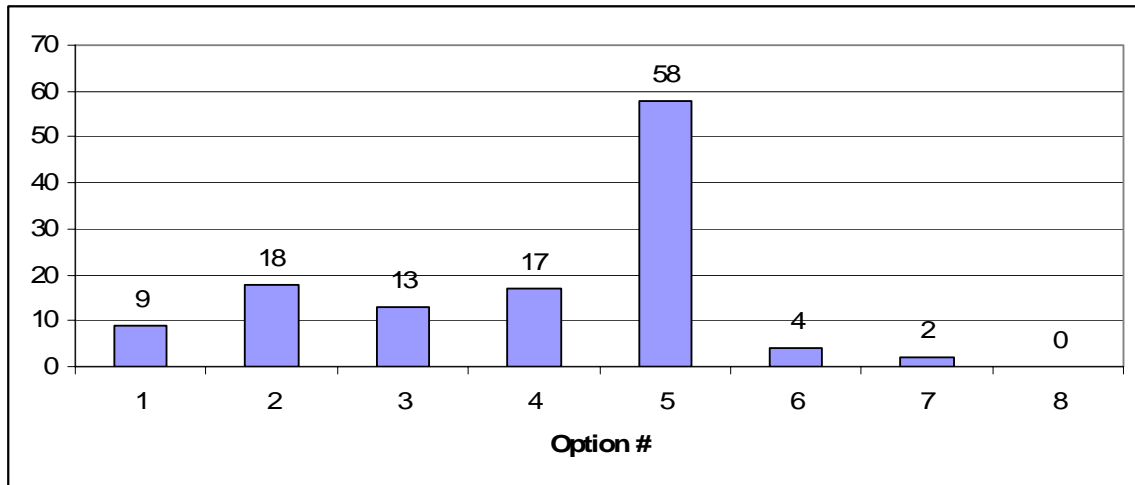
Results:



2- Where did you learn about COE? (Choose all applicable)

- | | |
|---|-------------------------------------|
| 1 [] "KFUPM Disciplinary" description book | 5 [] Friends, Students, or Parents |
| 2 [] Websites | 6 [] Employers |
| 3 [] Faculty and instructors | 7 [] Visited the COE department |
| 4 [] Never tried to ask | 8 [] Other: _____ |

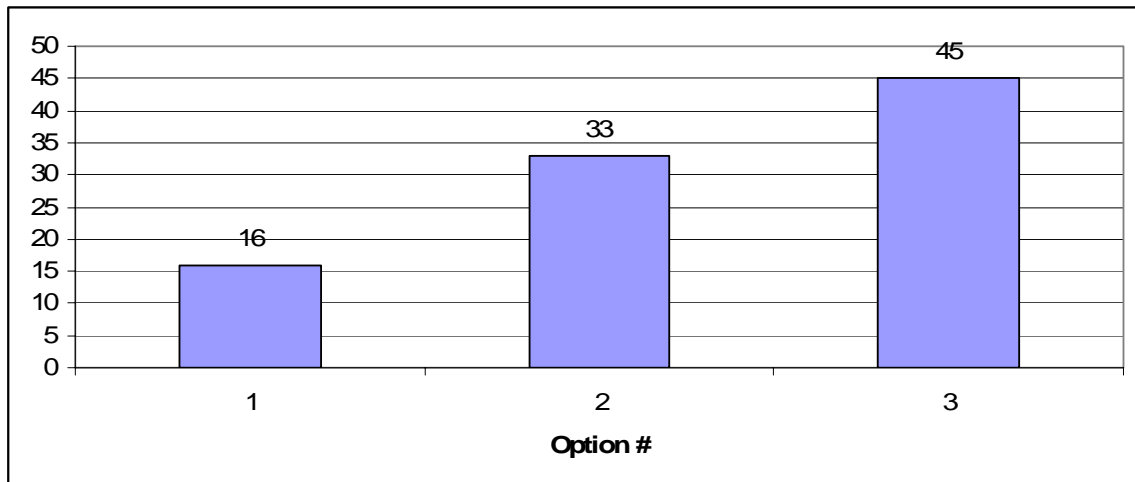
Results:



3- How is your impression about COE?

- | | |
|---------------------------------------|---------------------------|
| 1 [] COE is great! | 2 [] COE is good but ... |
| 3 [] COE is not a good option for me | |

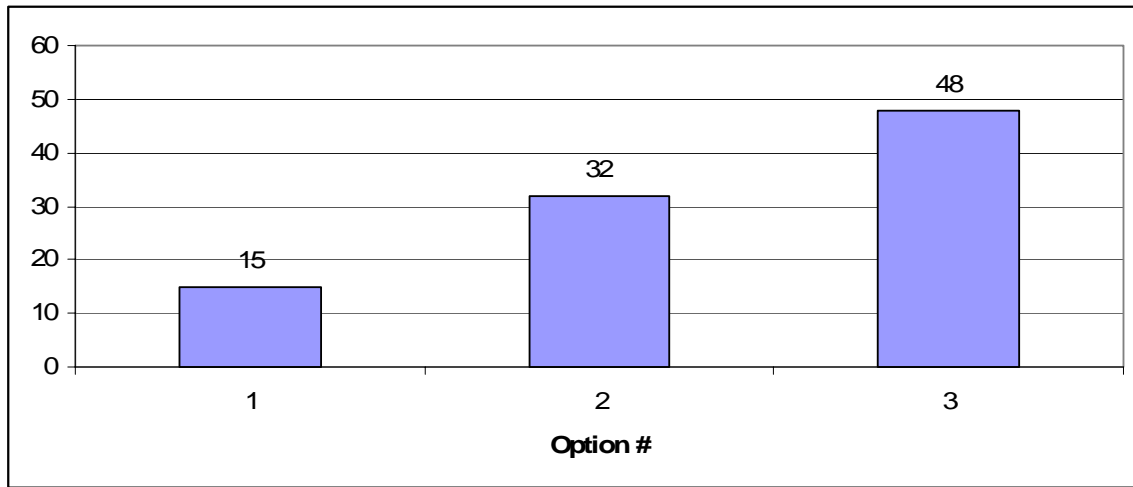
Results:



4- Are you aware of how COE differs from other computer-technologies related departments (such as ICS, SWE, EE, ...)?

- | | |
|-----------|-------------------|
| 1 [] Yes | 2 [] Not exactly |
| 3 [] No | |

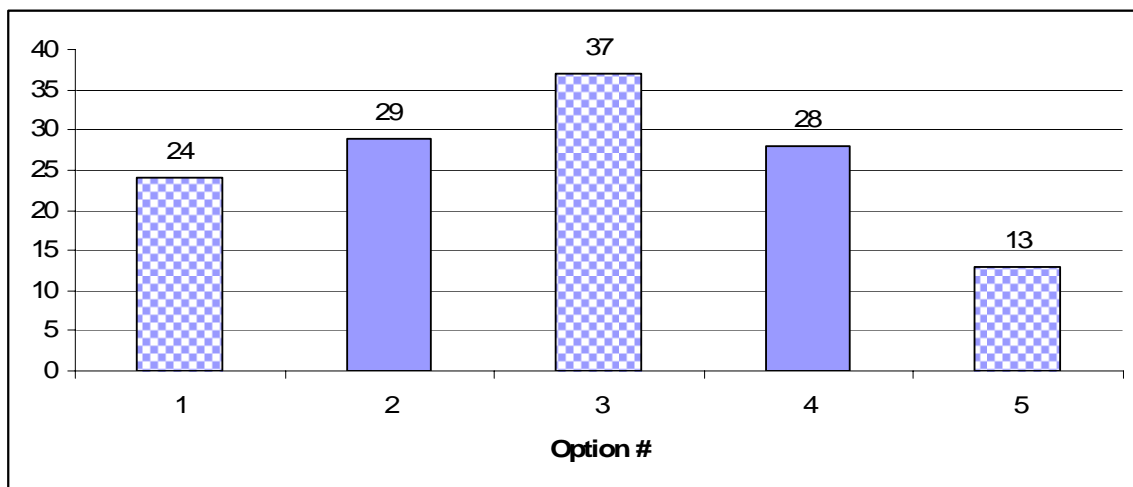
Results:



5- Which statement(s) you think is/are correct about COE? (You may choose more than one)

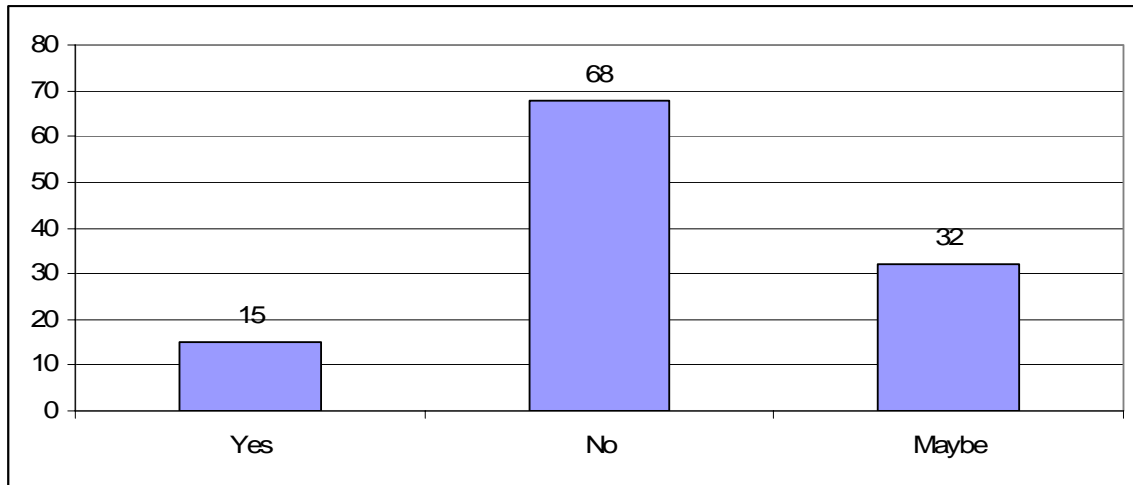
- 1 COE deals with computer networks and communications
- 2 COE deals with programming languages (Java, C#, etc.) and coding
- 3 COE deals with designing and studying computer hardware and digital systems
- 4 COE deals with creating software for enterprises, organizations, etc.
- 5 COE deals with embedded Systems (hardware and software)

Results:



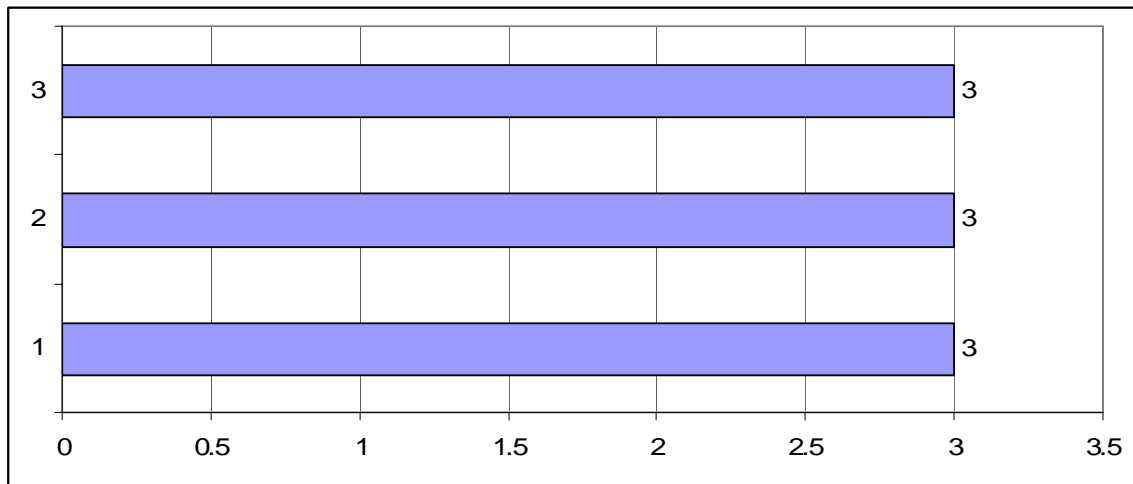
6- Are you planning to join COE?

Yes No Maybe



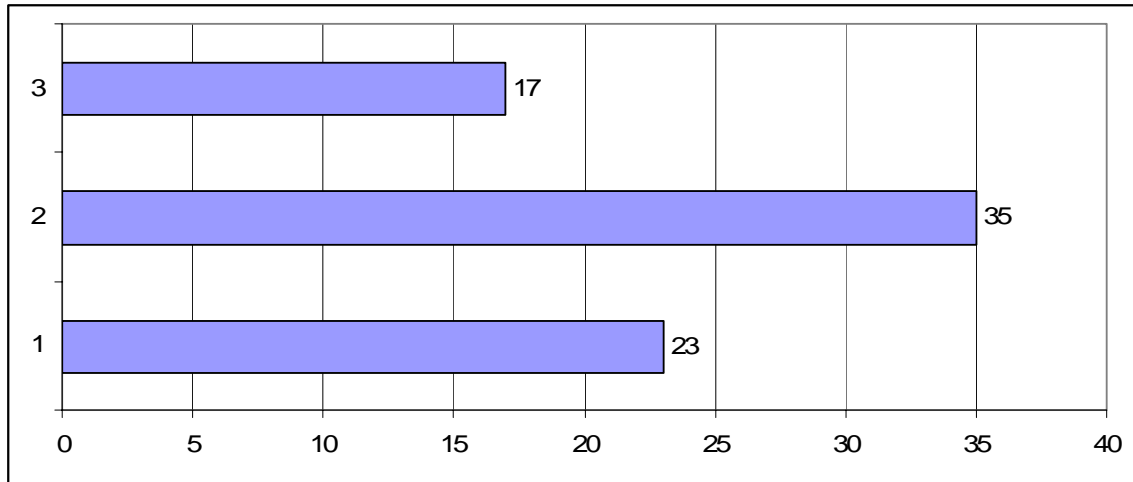
Yes because: *(You may choose more than one)*

- 1 Promising job market for COE graduates
 - 2 I like one or more of the areas offered in COE
 - 3 Good reputation and people already told me, positively, about it
- (no one chose it) Other: _____



No because: *(You may choose more than one)*

- 1 No promising job market for COE graduates
 - 2 Not interested in its study areas
 - 3 Negative opinions and rumors from others
- (no one chose it) Other: _____

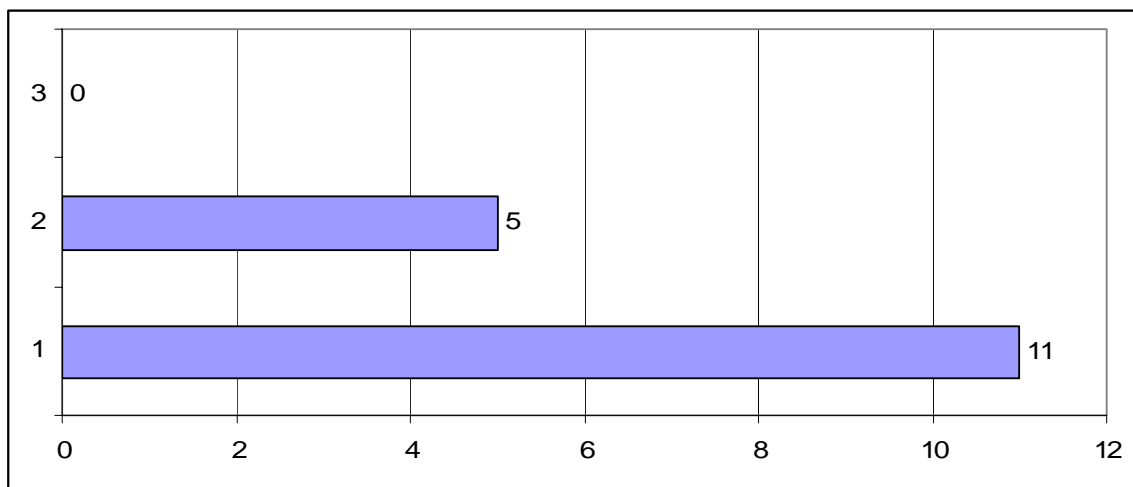


[] Maybe but: *(You may choose more than one)*

1 [] I need to know more about its study areas (through open day, brochures, etc.)

2 [] I need to know more about how the job market for COE graduates looks at it

3 [] I need to discuss this with someone (friends, employees, faculty, etc.)
(no one chose it) Other: _____



Converted-From-COE Students Survey

Facts:

- The survey questions were set and agreed upon by a special committee in the COE dept., which is concerned in the low enrollment issue in the dept., beside the IEEE-KFUPM SB team.
- Total number of participated students is 17 students

- Phone based survey as catching "differently majored" students physically was impossible.

The survey questions:

1) What is your current major?

Major	# of Students
ARC	1
SWE	3
ACCT	1
MIS	3
ME	1
SE	1
AEE	1
EE	1
CISE	1
CS	1
ISE	1
MKT	1
CHE	1

2) How many credit hours have you taken from Computer Engineering (COE) before transferring?

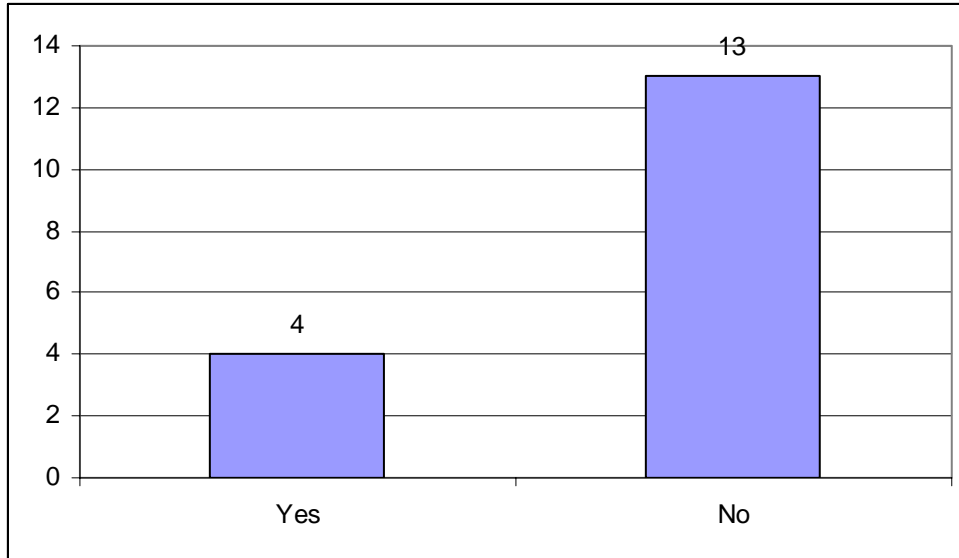
Credits	# of Students
0	9
3	4
4	1
6	1
16	1
90	1

3) Were you aware that COE had three specialization areas: computer networks and communications, designing and studying computer hardware, and digital systems and embedded Systems ?

[] Yes

[] No

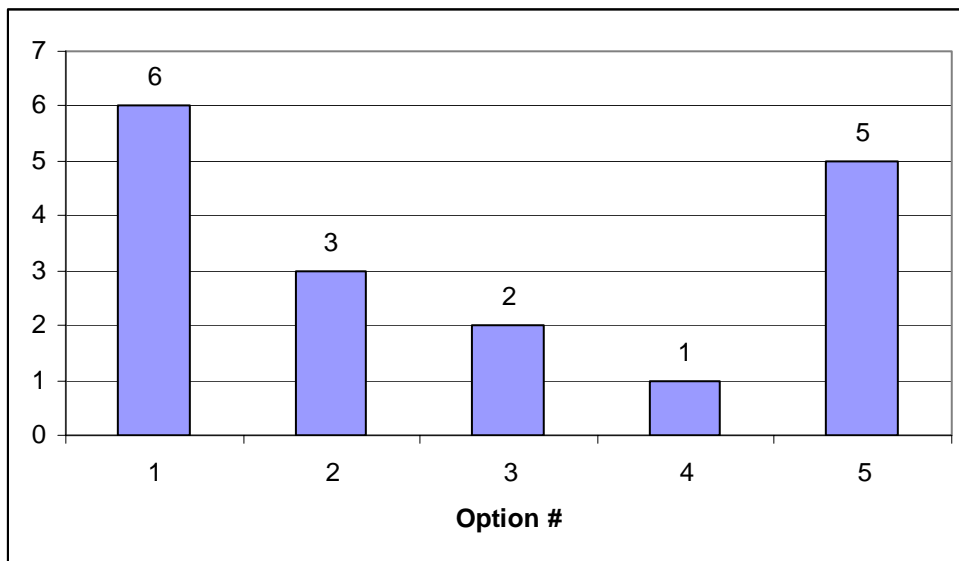
Results:



4) Why did you choose COE at the beginning?

- 1 I liked the field
- 2 Job opportunities
- 3 Friends
- 4 The title "Engineer"
- 5 Other: _____

Results:

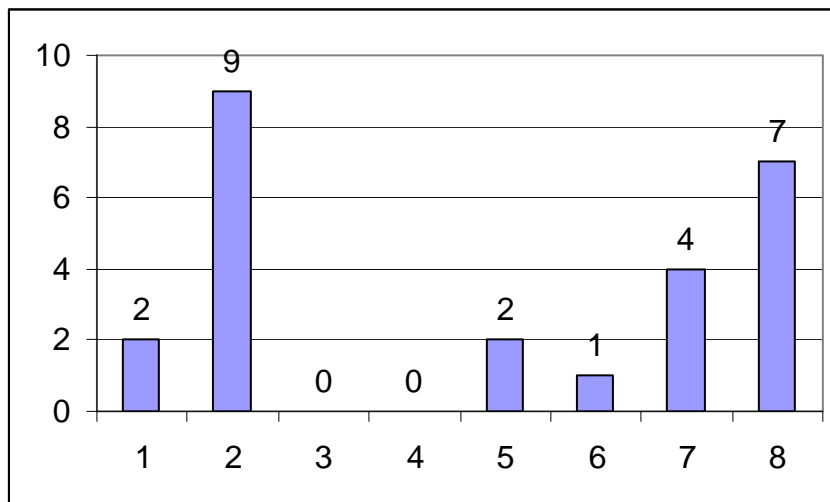


Other: they all thought that COE was something special and interesting compared to other majors.

5) What were the reasons that encouraged you to change from COE to your current major? (You can choose more than one)

- 1 I discovered that COE is not my passion
- 2 The nature of the field was not the same as I expected
- 3 No good job opportunities
- 4 Lack of knowledgeable faculty
- 5 The first 100 level course in the COE program was not interesting/tough
- 6 The first 200 level course in the COE program was not interesting/tough
- 7 Some courses were difficult, which is/are: Java_____
- 8 Other: _____

Results:



Other: Low GPA, I need more programming.

6) Weak points in the COE department:

- Professors were all bad.
- Professors are not helpful and friendly
- The department is not active at all

7) Strong points in the COE department:

- The department was flexible
- No strong points

8) Issues that need to be improved at COE department:

- The lab's way of teaching.
- Change lab lecturers.
- Need more advertisement
- Well prepared courses flowchart
- Re-emerge COE 202 with 203 lab again
- Focus more on practical part of COE