

Civil Engineering Program Alumni Survey Results

R E S P O N S E

The office of academic assessment launched the Alumni Survey at 8/Jan/2008 by sending letters to ministries and companies to ask their employees to participate in the Survey. At the same time, emails were sent to Alumni to fill the survey through a list that we got from ETAC and through the Departments. The total response from civil Engineering Alumni was 97. It is broken down according to gender in the following table:

Gender	Total Responses
Unspecified	1
Female	64
Male	32
TOTAL	97

In the survey, we asked all Alumni in all years to participate and fill the survey. We have received the following responses:

Graduation Year	Total Responses
Unspecified	3
1980-1989	13
1990-1999	18
2000-2004	33
2005-2007	35
TOTAL	97

Education and Certifications:

Advanced Education	Total Responses
Unspecified	64
M.Sc.	21
M.Sc. student	1
MBA	4
PhD	6
PRE-MBA	1
TOTAL	97

Professional Certification	Total Responses
Unspecified	77
Professional Certification	20
TOTAL	97

Employment

Employment Status	Total Responses
Unspecified	1
Employed	90
Student	3
Unemployed Not Seeking Jop	1
Unemployed Seeking Jop	2
TOTAL	97

Following is a table showing the classification of Employment according to the Alumni responses.

EmploymentClass	Total Responses
Unspecified	3
Construction company	9
Consultation Office	4
Investment Company/Banking	2
Ministry/Government	64
Oil Production/Exploration	4
Oil Refinery/ Petrochemicals	2
Research/Academic Institution	9
TOTAL	97

Job Responsibilities	Total Responses
Management	52
Project Management	37

Design	22
Maintenance	16
Programming	2
Product/Process	3
Development	3
Teaching	11
Auditing/Review	4
Planning	21
Operation/Inspection	15
Research	13
Other	14

Employment Honors	Total Responses
Unspecified	83
Employment Honors	14
TOTAL	97

Previous Employers	Total Responses
Unspecified	72
Previous Employers	25
TOTAL	97

Professional Society

Society Member	Total Responses
Unspecified	10
No	43
Yes	44
TOTAL	97

Professional Societies

ACSE

American Concrete A.C.I.

American Society for value Engineering

American Society of Civil Engineers - ASCE

ASCE

ASCE

ASCE

ASCE

ASME

engineering society

engineering society

Engineering Society

engineer society

Fellow ASCE

KSE

KSE

KSE

KSE

KSE

KSE

KSE

KSE

KSE

KSE

KSE

KSE

KSE (Kuwait Society of Engineers)

KSE - Kuwait Society of Engineers

kuwait eng society

Kuwait Eng.society

kuwait engineer society

Kuwait Engineer Society

KUWAIT ENGINEERING SOCIETY

Kuwait engineering society

Kuwait Engineers Society

Kuwait Engineers Society

Kuwait Socaity of Engineer

Kuwait Societies of Engineers

kuwait society of engineers

kuwait society of engineers

kuwait society of engineers

Kuwait Society of Engineers

kuwait socity for engineers

Kuwait Transparency Society

PMI

society of Engineers

Water Environment Research

ACI

ACI (American Concrete Institute)

ACI-Kuwait Chapter

American Civil engineers Scocity

American Concrete Institute - ACI

American Socaity of Civil Engineer

american society of civil engineers

American Water Works Assoc
ASCE
ASCE - American Society of Civil Engineering
bahrain society of engineers
CMAA
Fellow ASME
IT SOCIETY
KSE
kuwait Engineering society
Kuwait Project Management Certification Body
Kuwaiti Society for Engineer KSE
Kuwaiti Society for Engineer KSE
ACI - American Concrete Institute
American Concrete Institute - ACI Kuwait Chapter
Fellow SNAME
Geo Institute (GI)
KES
KTUF
NCMA
IEEE, ASNE
KSE
merican Society for Engineering Education (ASEE)
TOUSTMASTERS

Activity Level	Total Responses
Very Active	3
Active	10
Somewhat Active	28
Not Active	15
TOTAL	56

Conferences Attended	Total Responses
Unspecified	24
0	33
1-3	24
4-6	10
7-10	1
more than 10	5
TOTAL	97

Continuing Education Courses	Total Responses
Unspecified	13
0	13
1-3	29
4-6	10
7-10	13
More than 10	19
TOTAL	97

new tool/technique/software/programming language acquired since graduation?

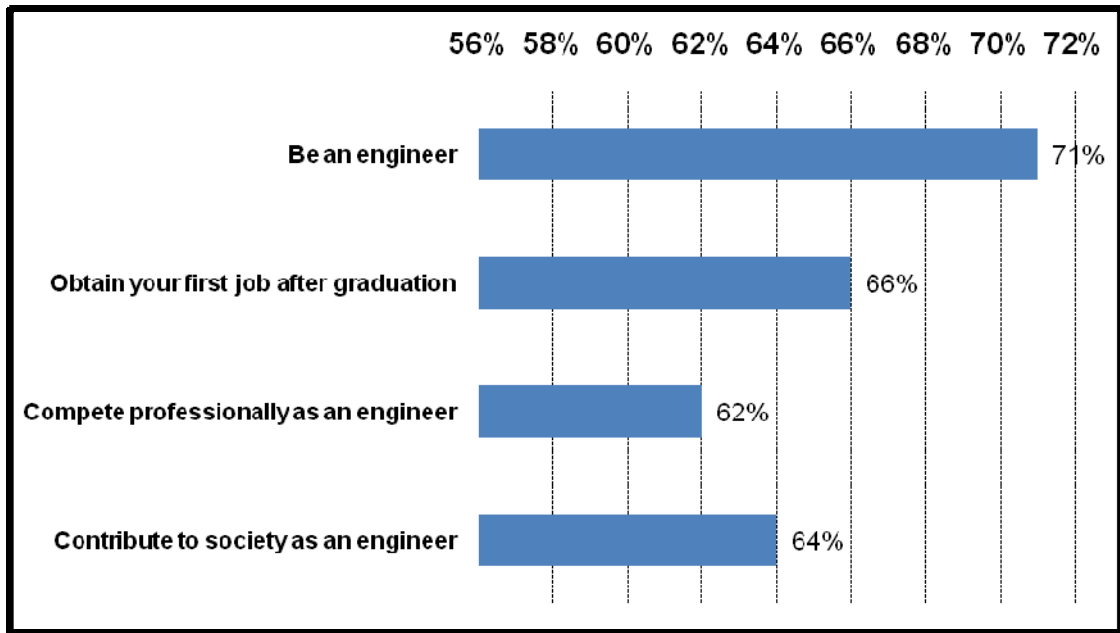
3d max program
autocad
autocad, microsoft projects
co+financier meeting
round table meeting
consultative group meeting
Coaching, Planning, Designing (using Photoshop), Art Diploma.
Construction supervision, project management, STAAD PRO 2003 / 2006 (Structural Design Software)
Develope the system of work and design using Computer Programming (Microsoft Excel - Spreadsheets).
english courses
self-confident courses
ETABS, ROBOT, SAFE, BS Codes, Euro Codes
Excel, powerpoint, keynote, autocad
EXLE/POWERPINT/STAD/AUTOCAD
French Language
french language
french language
i decided to attend ICDL and other courses for the new graduating students
Infowater programs
Matlab
MBA courses, Premavera, managerial tools in the job
MBA program
MS PROJECT
MS OFFICE
non
none
None
oracel programs /microsoft office /3d autocade
oracle
Premavira,Archetype,microsoft office,photoshop,illustrator..
etc
premevira

preparing technical reports
 primavera
 Realstate courses
 SAS bBUSINESS INTELLIGENCE
 MS-PROJECT
 PRINCE2
 IBM-CSP 4GL
 CA-DATACOM-IDEAL
 IBM-DB2
 slope stability design ,
 Software: CSI ETABS & SAFE
 Stock market Investment Technique
 synchro
 synchro - autocad
 Synchro 6
 SATURN
 Visum
 Syndro, c++, staad
 windows, office suite, internet, primavera

Overall preparation at Kuwait University

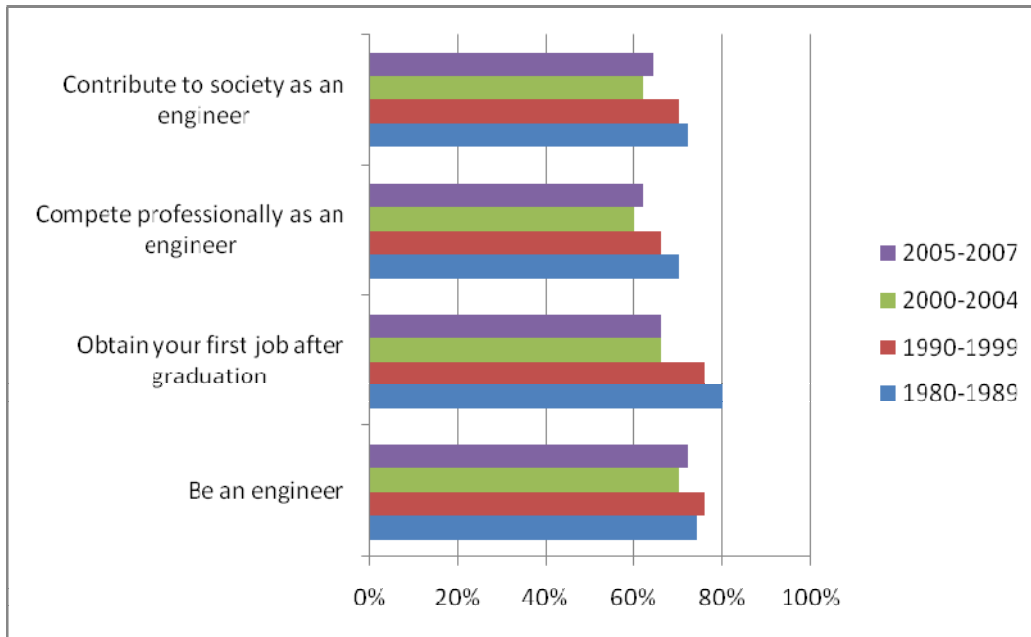
According to group

Rate your overall preparation at Kuwait University	VWP	WP	P	SP	NP	-	Average
Be an engineer	16 16%	41 42%	23 24%	15 15%	2 2%	0 0%	3.6 71%
Obtain your first job after graduation	18 19%	25 26%	29 30%	18 19%	7 7%	0 0%	3.3 66%
Compete professionally as an engineer	13 13%	26 27%	30 31%	16 16%	11 11%	1 1%	3.1 62%
Contribute to society as an engineer	15 15%	27 28%	27 28%	18 19%	9 9%	1 1%	3.2 64%

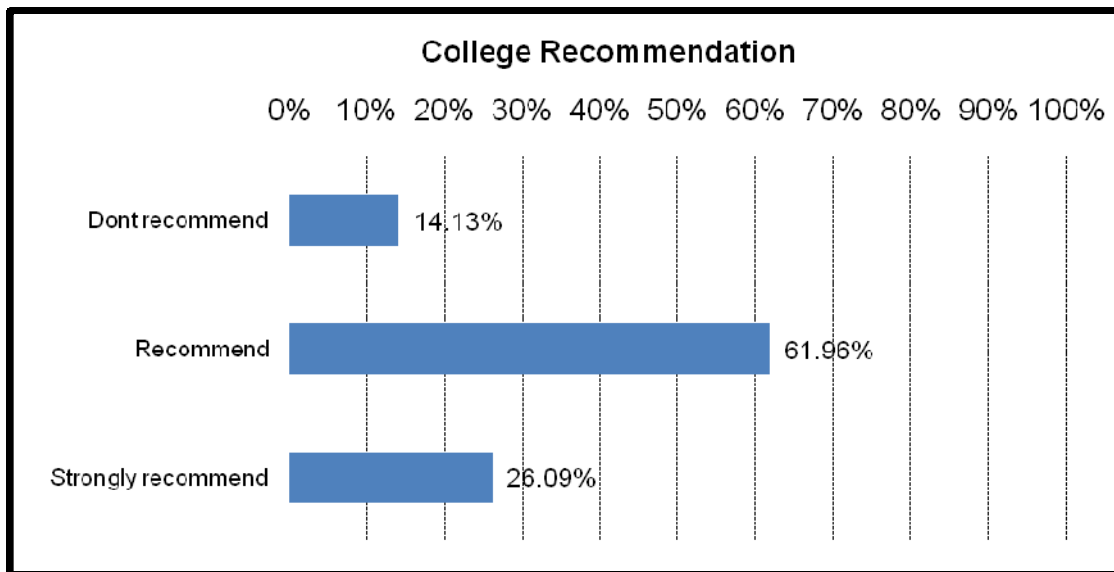


According to year of graduation

Rate your overall preparation at Kuwait University	Grad Year	VWP	WP	P	SP	NP	-	Average
Be an engineer	Unspecified	0	1	2	0	0	0	3.3
	1980-1989	3	2	2	1	0	0	3.7
	1990-1999	2	12	3	1	0	0	3.8
	2000-2004	3	12	7	10	1	0	3.5
	2005-2007	8	14	9	3	1	0	3.6
Obtain your first job after graduation	Unspecified	8	1	2	3	1	0	3.3
	1980-1989	4	2	2	3	1	0	4
	1990-1999	3	7	6	2	1	0	3.8
	2000-2004	4	7	10	8	4	0	3.3
	2005-2007	7	8	9	8	3	0	3.3
Compete professionally as an engineer	Unspecified	7	1	1	1	3	0	3
	1980-1989	3	1	4	1	3	0	3.5
	1990-1999	1	6	7	3	1	0	3.3
	2000-2004	3	8	9	5	7	1	3
	2005-2007	6	11	9	6	3	1	3.1
Contribute to society as an engineer	Unspecified	6	11	2	1	3	1	2.7
	1980-1989	4	1	2	1	3	1	3.6
	1990-1999	4	9	7	2	3	1	3.5
	2000-2004	4	7	9	5	7	1	3.1
	2005-2007	7	10	7	9	2	1	3.2

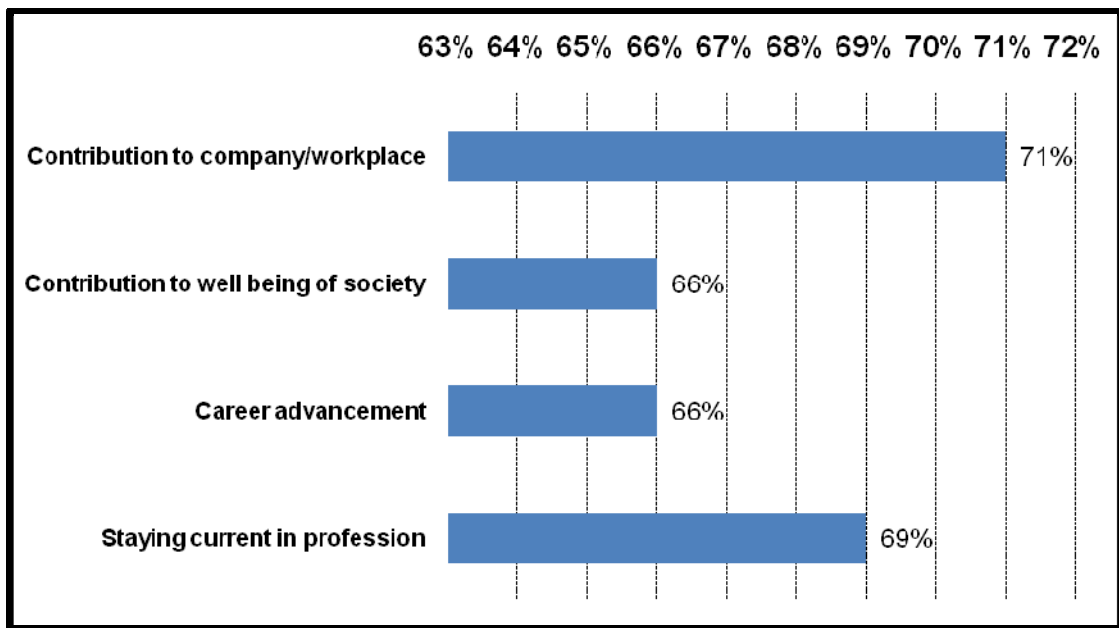


Recommend KU Program	Total Responses
Unspecified	3
Dont recommend	13
Recommend	57
Strongly recommend	24
TOTAL	97



According to group

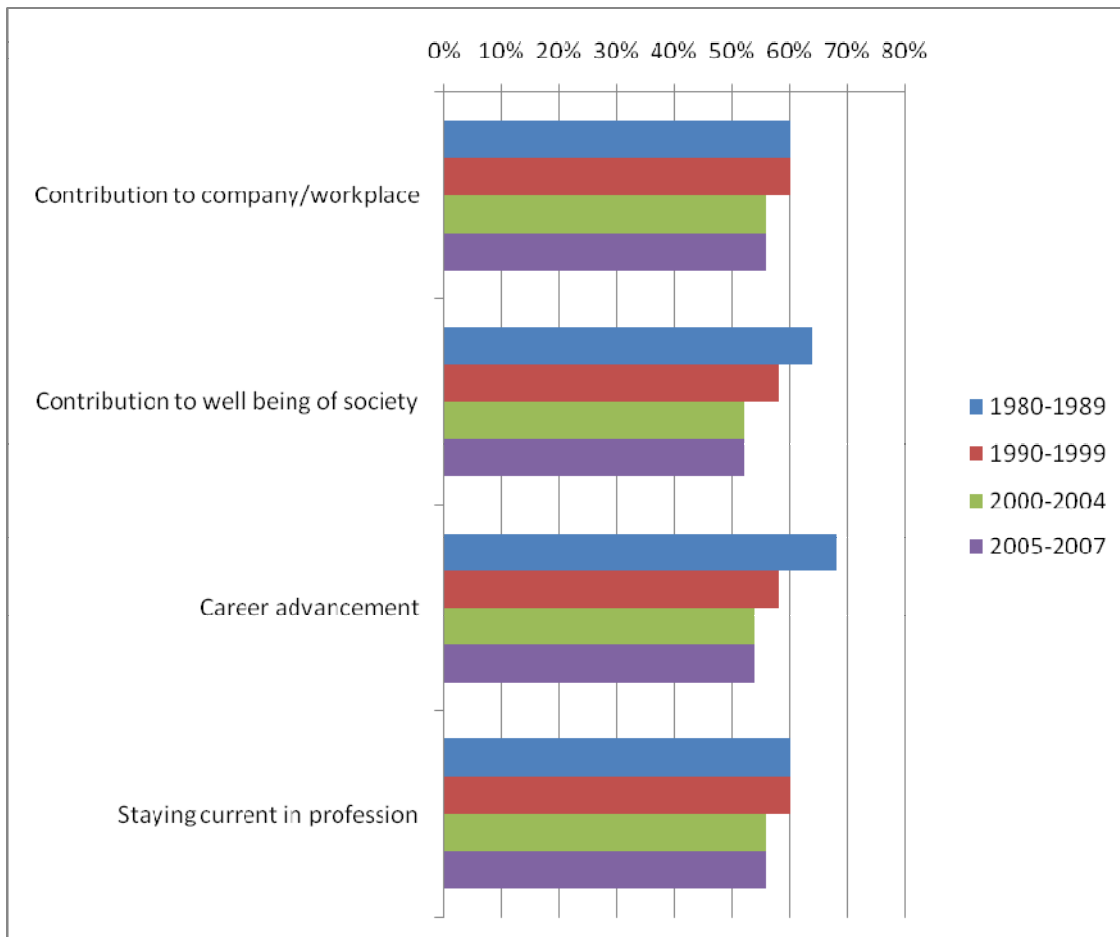
Please evaluate your professional achievements/accomplishments	Sig	Sat	SSat	NSat	-	Average
Contribution to company/workplace	32 33%	35 36%	19 20%	5 5%	6 6%	2.8 71%
Contribution to well being of society	19 20%	42 43%	22 23%	9 9%	5 5%	2.6 66%
Career advancement	23 24%	35 36%	27 28%	7 7%	5 5%	2.7 66%
Staying current in profession	24 25%	40 41%	24 25%	4 4%	5 5%	2.8 69%



According to year of graduation

Please evaluate your professional achievements/accomplishments	Grad Year	Sig	Sat	SSat	NSat	-	Average
Contribution to company/workplace	Unspecified	0	0	3	0	0	2
	1980-1989	5	1	2	0	0	3
	1990-1999	4	11	1	2	0	3
	2000-2004	11	11	5	2	4	2.8
	2005-2007	12	12	8	1	2	2.8

Contribution to well being of society	Unspecified	12	1	2	1	2	2.3
	1980-1989	5	2	1	1	2	3.2
	1990-1999	2	11	2	3	2	2.9
	2000-2004	5	15	6	4	3	2.6
	2005-2007	7	13	11	2	2	2.6
Career advancement	Unspecified	7	2	1	2	2	2.7
	1980-1989	6	1	1	2	2	3.4
	1990-1999	2	9	4	3	2	2.9
	2000-2004	8	10	9	3	3	2.7
	2005-2007	7	13	12	1	2	2.7
Staying current in profession	Unspecified	1	1	1	1	2	3
	1980-1989	4	1	4	1	2	3
	1990-1999	5	9	3	1	2	3
	2000-2004	7	13	8	2	3	2.8
	2005-2007	7	17	8	1	2	2.8



In light of your professional experience, please list three most useful knowledge, skills or attributes that you had acquired during years of education at Kuwait University:

- *prepare me to be engineer.
- *prepare me to take the decision and solve problems by myself.
- *prepare me to be responsible about my work.
- basic of civil engineering
- how to manage project by planning & control
- computer skills
- improvement of english language
- communication skills
- computer skills
- research tools
- design structure
- how can we deal with engineers in the field
- self reliance
- how to create an idea of a project
- make research
- negotiate for my rights
- writing reports
- management
- practical training
- exercises
- management courses
- concrete courses
- soil courses
- many programs in computer such as autocad, water cad, flow master, microsoft office, english language
- mathematics, physics, computer software
- patient
- seriously
- good researcher
- Road designing
- soil testing
- building material tests
- computer programming of management
- solving problems
- making CPM for projects
- speaking english
- communicate with other people
- meet new friends
- status of engineering
- ethics of engineering
- team work
- responsibility
- care
- Team work/ team spirit
- Use of American Standards in design
-
- transport knowledge

- management knowledge
- structure knowledge

- water resources techniques
- management
- transportation

1) Engineering Economy
2) Project Planning (Construction)
3) Introduction to design

1- Courses in civil engineering
2- survey methods
3- CPM

1- Data collection and analysis
2- Communication skills and IT
3- Team work

1- participation in the student society such as ASCE, KASA, ASHARE IS Important to improve his skills, self confidence and be sure it will help in the work region.
-2- the final project before graduation is a good experience also.

1- Softwares
2- planning
3- researching

1- writing technical reports
2- ability to think analytically
3- ability to research

1- Discipline.
2- Using Computer and Software.
3- Development skills.

1- use of aci code
2- use of lrfd code
3- basic understanding of different engineering fields

1- working hard
2- working in group
3- stands all the negative pressure

1. engineering design software
2. legal aspects in engineering
3. structural engineering

A hard base to start practical work
as a civil engineer nothing, we need training, site visits and be more practical

autocad
computer skills
Computer programs- team work-
Durability of Concrete structures
engineering sense... we've been taught in college how to solve problems, how to look at them and try to find a solution...

English scientific language.
How to select a major.
My basic knowledge of engineering.

Environmental Design and Ethics
hard works needed
good relations with Instructors
the Loyalty in work
how to make relationships

how to thinking in the right way
 How to draw ideas and rank of the various topics
 i didn't gain any skills :)
 I graduated about 27 years ago, and your system might be different now.
 Math and knowing how to use the differnt computer programas.also writing reports
 and performing a presentation
 none
 none of them were useful in real life
 public relations with students and teachers of the college
RESEARCH SKILLS
LATERAL THINKING
 Searching for resources method
 Self learning.
 Communication.
SOLVING PROBLEMS, TEAM WORK AND WRITING REPORTS.
 team work
 Team work and presentations.
 Technical Information
 Team Work
 Professionality
 The program as a whole was very helpfull to me
 The training course i took with one of the consultant companies had prepared me or
 made me more familiar with work on site which is my current job
 Training course in construction companies
 using computer programes
 writing reports, Presentation skills and work management.

Please list three most useful subjects/skills that you think should be taught in the engineering program at Kuwait University

Speech
 Writing Skills
 Creative thinking
 - autocad
 - microsoft project
 - staad
 - autocad
 - Premevera
 - Excel
 - computer programming
 - training courses
 - condition of contracts
 - contract administration
 - I.T.
 - site visits to important projects in the world.
 - construction management
 - concrete design

- water resource
- field training
- summer jobs
- good researcher
- how to understand by myself
- fast in calculus
- management courses
- transportation courses
- computer skills
- more site visits
- more practical applications
- more realistic exercises
- NLP
- no extra subjects are needed actually but there is some tours to sites and factories help the course in the college. i think it will be useful for students
- practical training
- communication skills
- activities of speaking english
- professional letter writing
- engineering negotiating
- project management
- self confidence for presentation and participation
- site training and people communication
- arabic and english should be held
- site work
- presentation
- structure analysis I and II
- concrete reinforcement I and II
- water resources
- Technical Communication/ discussion
- Different software packages
- Compulsary training class in field/ral job environment
- urban planning and system road
- steel structure and concrete structure
- sanitary network and storm water network
- value engineering
- organization behavior
- geotechnical course
- we should have more training courses
- in civil engineering, we should learn more about project management programs such as premavira
- 1)Value Engineering
- 1- More practical courses or trainings
- 2- Communication skills
- 3- up to date, new programs and softwares
- 1- Ethics
- 2- Environmental awareness
- 3- Report witting and presentation skills
- 1- how to keep yourself from bad employees
- 2- how to understand the difficulty of life
- 3- skills of complete package concern (writing, presentation, meeting, fast reading)
- 1- Management

i think one of the most important subject to be taught is a legal that related to engineering subjects.

Interpersonal skill, managing time and pressure, accounting skill, and increase economy material

IT IS OK JUST BE NORMAL NOT TAUGHT!!!!!!!!!!!!!!

GUYS WE WERE STUDYING NOT PLAY BOXING.

I THINK WE NEED TO emphasis ON MANAGEMENT SKILLS

more practical teaching i think if we were exposed to real problems in our studying major we would be more prepared in the working field...

more programs on computer and more sites visits

more software using computer

Must be teaching materials such as process control buildings and how to maintain buildings

Online education and research methods

Material dedicated to the study of contracts and how to prepare engineering reports

PERSONAL DEVELOPMENT

PROJECT MANAGEMENT

PERFORMANCE METRICS

QUALITY METRICS

DeBONO'S THINKING BOOKS

Petrolume Refining courses

site experience

site team work

prof. management for projects and team work

site visits

- more training courses

site visits

site visits, project instead of exams, team work

software design

Project Presentation

English dialogue

teaching more english language

They should focus more on technical knowlege on site rather than theories.time managment.Finally organization of one's thoughts and work.

Training courses at actual work site.

Design courses with consultants.

Real projects courses.

Training in sites -

visiting sites- applications- training

Water/Wastewater design and Treatment, Project Manag., Computer Application

ogram at Kuwait University:

what should be done to improve the engineering education at Kuwait University?

- go more to the sites, students should learn more in the sites

- have a good teaching staff

- field trips must be improved

- increase the number of classes

- must attend in classes

- make extra classes
- more projects
- more presentations
- some of the dr.'s are not fair with students and they let the personal matters involve in their evaluation of students and that is very important because they will be not fair
- keep the professional dr.'s in kuwait university and let them easy leave it.
- bring foriegn prof.'s from outside and apply on PhD programs
- the education is poor in kuwait UNIVERSITY
- THE THRAING COURSES should increse and be improved
- training courses
- more practical courses
- using updated technology to get information and use it in study
- using developed media in classes
- make students think outside the box ! not just solve given equations and formula.. teach case studies.. bring engineers from outside the teaching community (different majors) to tell what to expect when being an engineer.. from both private sectors and government jobs
- help students to study from different books not just what they buy for the coarse..
- 1- one course + training to fight other theifs of engineering from bad universities
- 2- one course + training of completed strong skills belong the managerial skills and life secrets
- 1- Teaching in English
- 2- Reduce the number of students in some classes
- 3- Training workshops for faculty, teaching assistants, and engineers
- 1-Development the education and the knowledge of all the students.
- 2-Make a meeting between the students and the graduted engineers.
- 3-Interesting and Development the useful software skillles .
- 1-more practical cases
- 2-acourse of real-cases in CE
- 1. more engineering design software
- 2. more legal, economic, professional, and IT aspects in engineering and learn how can sell engineer's products.
- 3. it is very important to teach student kuwaiti standards inaddition to other worldwide standards.
- 1.Arrange for site visits for each and every subject studied. By this way the students will gain better understanding of the subjects and will remember them better.
- 2.Arrange meetings with consulting or contracting companies to see how work is done and what kind of decisions the engineer should take.
- a better understanding of the engineering market and trying to promote a better engineering program.
- a lot. but sorry I don't have time. I had a lot of Ideas, but the problem is I don't have a lot of free time.
- Add consaltants & professional engineers to the academic teaching staff.
- add two courses attneding anactive projects in the university which will keep you in touch with any updatesin the projects.
- Administration must develop curricula to commensurate with the development by giving more english courses for the students
- Computer programs
- connect the students with the market and giving them a brief idea of the engineer's duty in the socitey.overall i find the engineering program is very good,but the improvment should be within the staff.There are excelent profesors and engineers,on

the other hand there are average or below average professors and engineers that are affecting good students.

educate the faculty staff, prepare the student technically and personally and provide managerial courses.

Encourage the student to be self study oriented instead of depending totally on the professor. Encourage reading and discussions in addition to reality problem solving. I would also recommend that the graduation project has to be done in groups where each group consists of 1 student from all department disciplinary which would make the project more realistic.

Establish a new way to teach for example more workshops and projects. Let the student involve more in implement what they are learning (theories) during the course for better understanding. more field visit so the student can be more aware of what they will expect in the future when they go to work and in my opinion that should be done before they choose their major so they can make the right decision in what they like to do after graduating and where they can find them self

field visit

Project Design

Practice in the site

give life example for design or solve a problem

Graduation Project

FOCUS ON :

1-PRACTICING PROJECT MANAGEMENT SKILLS

2- UNDERSTAND AND APPLY TQM (TOTAL QUALITY MANAGEMENT) OR ANY OTHER QUALITY RELATED TECHNIQUES

3- ALWAYS MEASURE PERFORMANCE

4- RISK MANAGEMENT .

focus on major material not the minor - increase training courses - remove unnecessary laps - link the theoretical study with real implementation.

I graduated about 27 years ago, and your system might be different now.

I had graduated since more than 10 years and it is expected that during this period the education level had improved and new techniques/tools/method of teaching had been added, but unfortunately when I joined KU again in 2001 for master studies I didn't find any change or improvement in the faculty from all aspects.

I need to catch the global quick revolution.

I think there must be a course that only consists of real problems in life and we should try solve them, also I think the practical training course should be more concentrated for students in order to get a good idea about the nature of the engineering working field...

Improve the quality of teaching at some courses

Careful selection of the Textbooks

Utilize the capabilities of distinguished students

Use other teaching techniques

Stress on Homeworks and class projects

in graduation courses, it should be a communication between the college and the companies to improve the skills and knowledge of students

In my opinion ,the co-op program option should be added to the course schedule

in my opinion, they have to attend some course, just for learning the job life, and to know more about the future life since the studying life is more different than the job life

include more site visits to let the students see the material and site works in real life

it must be more courses about the government work

More site visits & training courses are needed

more site work, live experience

one year or 6 months training in a company during study

our collage is perfect , we did huge effort to learn and to be an engineer , and now we are equalified more than other people that graduated from other engineering colege . but In fact our english is very weake maybe you will know from my writting . we didnt practis english in our college we took the terminology only but we didnt talk or read i think this is the point that really need to be improve.

our courses is very good and our teachers but honestly the theoretical part is not everything. we don't have any skills when we start working. engineering is not exams and homeworks.

Practical courses

practice and apply the theoretical subjects before graduation

Provide more professional doctors as well as engineers to aducate.

Listing visits to real field work.

Teaching the way of applying tought information on the actual work.

PROVIDE SKILLFUL PROFESSIONALS

Put more effort in professional writing.

Put more effort in practicing reading.

Presentation and computer skills.

raise the level of faculty members (engineers, technicians, scientific assistant...) by giving them training courses & programs, since they are responsible of teaching the students and the knowledge never stop and they need to upgrade thier information not to stop with the info they've got when they graduate long time ago!

research

sites vists and real practise to engineer in life

student visits to other universities, institutions, companies, etc.

Students should be exposed to real jobs and get in contact with the poffesion field before graduation

TEACHERS MUST HAVE ABREAK OF BEING TEACHERS & TRY TO WORK WITH ACOMPANY AS AN ENGINEERS SO THAT THEY WILL FINDOUT SKILLS & INFORMATIONS THAT FUTURE ENGINEERS NEED TO

The engineering students must take more practical courses (training) before they graduate in order to get some practical experiance and make relations with the companies and the engineering firms to ease their future employment

the major problem i faced after graduation and exactly when i start my job is all what we studied was theories only nothing related to the reallife. i think practical course should be added in between.

There should be more visits to sites to see what is learned.

use more technology and translate the theoretical subjects that we studied in to practical subjects in the field to help us to work in the same domain