**Computer Engineering Department**

## Sample Surveys: Exit, Alumni, COOP Supervisor, IAC, And Employer

**King Fahd University of Petroleum and Minerals**

**Computer Engineering Department**

**Graduating Student Exit Survey**

Through this Exit Survey we are asking Computer Engineering graduating students to evaluate their experience as students at King Fahd University of Petroleum and Minerals. All responses will be kept confidential and used as an internal assessment tool to improve our programs. We appreciate your help in filling out this survey.

Thank you in advance.

**Name:**

**Graduation Date:**

**Number of years at KFUPM:**

**Overall GPA:**

**I Surveying the COE Program Outcomes (POs)**

The Program Outcomes (POs) are statements that describe what the COE graduates are expected to know and be able to do by the time of graduation. They are related to skills, knowledge and behavior that graduate acquired through the COE program.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **COE Program Outcomes**  **My education at KFUPM has given me the ability to:** | | **To what degree the education you received at the COE meet the Program Outcome Criterion:**  1: Poor 5: Excellent | | | | |
| **1** | **2** | **3** | **4** | **5** |
| **a** | Apply knowledge of mathematics, science, and engineering to obtain solutions and formulate models of processes and systems. |  |  |  |  |  |
| **b** | Design and conduct experiments, and collect, analyze and interpret data. |  |  |  |  |  |
| **c** | Design a system, process, or component to meet desired needs subject to given constraints. Analyze and evaluate alternative engineering solutions. |  |  |  |  |  |
| **d** | Function on multi-disciplinary and/or diverse teams. Take responsibility, share work, and value other viewpoints. |  |  |  |  |  |
| **e** | Identify, formulate, and solve engineering problems. Make appropriate and necessary assumptions. Suggest and evaluate new approaches. |  |  |  |  |  |
| **f** | Understand professional and ethical responsibilities. Demonstrate ethical practice. |  |  |  |  |  |
| **g** | Use oral, written, and audio-visual techniques effectively for successful communication. |  |  |  |  |  |
| **h** | Understand global effects of practices, products, and events, and the impact of engineering solutions on society |  |  |  |  |  |
| **i** | Recognize the need for and demonstrate ability to engage in lifelong learning |  |  |  |  |  |
| **j** | Know about contemporary socio-economic issues relevant to relevance to computer engineering. |  |  |  |  |  |
| **k** | Use techniques, skills and modern engineering tools necessary for engineering practice. |  |  |  |  |  |
| **l** | Know probability and statistics and their applications in Computer Engineering. |  |  |  |  |  |
| **m** | Know discrete mathematic: e.g. Logic, Number theory, Set theory, Algorithms, Information theory. |  |  |  |  |  |
| **n** | Design a system that involves the integration of hardware and software |  |  |  |  |  |

**II Surveying the Learning Environment**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Learning Environment | *Excellent* | *Very Good* | *Good* | *Poor* | *Very Poor* |
| **A. Quality of instruction in:** |  |  |  |  |  |
| 1. Mathematics, Physics, and Chemistry |  |  |  |  |  |
| 2. Computer Engineering courses |  |  |  |  |  |
| 3. Information and Computer Science courses |  |  |  |  |  |
| 4. English courses |  |  |  |  |  |
| 5. Islamic studies and humanities |  |  |  |  |  |
| 6. Elective courses |  |  |  |  |  |
| **B. Quality of Laboratories:** |  |  |  |  |  |
| 7. Instruction provided by lab instructors |  |  |  |  |  |
| 8. Experiments and lab manuals |  |  |  |  |  |
| 9. Computing facilities and equipments |  |  |  |  |  |
| **C. Quality of supervision or advice:** |  |  |  |  |  |
| 10. Summer training or COOP |  |  |  |  |  |
| 11. Senior Project |  |  |  |  |  |
| 12. Academic planning |  |  |  |  |  |
| 13. Career planning |  |  |  |  |  |
| **D. Equity of treatment by:** |  |  |  |  |  |
| 14. Academic administrators: chairman, dean, etc. |  |  |  |  |  |
| 15. Faculty members |  |  |  |  |  |
| 16. Teaching assistants and lab instructors |  |  |  |  |  |
| 17. Secretaries and staff members |  |  |  |  |  |
| **E. Quality of Academic Services:** |  |  |  |  |  |
| 18. Admission process |  |  |  |  |  |
| 19. Orientation program |  |  |  |  |  |
| 20. Registration process |  |  |  |  |  |
| 21. Email, Internet, and Networking infrastructure |  |  |  |  |  |
| 22. Library |  |  |  |  |  |
| 23. Bookstore |  |  |  |  |  |
| **F. Quality of the facilities:** |  |  |  |  |  |
| 24. Classrooms |  |  |  |  |  |
| 25. Recreation and athletics |  |  |  |  |  |
| 26. Food services |  |  |  |  |  |
| 27. Student housing |  |  |  |  |  |
| 28. Parking |  |  |  |  |  |

**Finally, please comment on the following:**

*List positive things about the COE program at KFUPM:*

*List negative things about the COE program at KFUPM:*

*What courses were your favorite, and why?*

*What courses were your least favorite, and why?*

*What would you suggest to improve the COE major and to make it more useful?*

**King Fahd University of Petroleum and Minerals**

**Computer Engineering Department**

Alumni survey

**Purpose**: The objective of this survey is to get feedback from the ALUMNI who graduated from the **Computer Engineering Department (COE) of KFUPM**. The results of this survey will help KFUPM tune the COE Program to better serve prospective its prospective students. This survey is part of the process for accrediting the COE program by the American Board for Engineering and Technology (ABET).

**I Contact Information**

The following information is regarding the person who filled-in this survey:

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Year of Graduation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Employer:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Job Title: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Job Description: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Mailing Address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

E-mail: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Tel:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Fax: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Advanced Degrees (M.Sc. / PhD if any): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

University Honors/Recognitions (if any): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Employment Honors/Recognitions (if any): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Membership of professional Societies (if any): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Have attended a professional/technical society conference(s) since graduation: Yes No

Have participated in continuing education activity since graduation, not including graduate degrees.

Yes No

**II Surveying the COE Program Outcomes (POs)**

The Program Outcomes (POs) are statements that describe what the COE graduates are expected to know and be able to do by the time of graduation. They are related to skills, knowledge and behavior that graduate acquired through the COE program.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **To what degree was the COE Alumni expected to meet the PO criterion**  1: Low 5: High | | | | | Program Outcome Criteria | | **To what degree did the COE Alumni met the PO criterion**  1: Poor 5: Excellent | | | | |
| **1** | **2** | **3** | **4** | **5** | **1** | **2** | **3** | **4** | **5** |
|  |  |  |  |  | **a** | Apply knowledge of mathematics, science, and engineering to obtain solutions and formulate models of processes and systems. |  |  |  |  |  |
|  |  |  |  |  | **b** | Design and conduct experiments, and collect, analyze and interpret data. |  |  |  |  |  |
|  |  |  |  |  | **c** | Design a system, process, or component to meet desired needs subject to given constraints. Analyze and evaluate alternative solutions. |  |  |  |  |  |
|  |  |  |  |  | **d** | Function on multi-disciplinary and/or diverse teams. Take responsibility, share work, and value other viewpoints. |  |  |  |  |  |
|  |  |  |  |  | **e** | Identify, formulate, and solve engineering problems. Make appropriate and necessary assumptions. Suggest and evaluate new approaches. |  |  |  |  |  |
|  |  |  |  |  | **f** | Understand professional and ethical responsibilities. Demonstrate ethical practice. |  |  |  |  |  |
|  |  |  |  |  | **g** | Use oral, written, and audio-visual techniques effectively for successful communication. |  |  |  |  |  |
|  |  |  |  |  | **h** | Understand global effects of practices, products, and events, and the impact of engineering solutions on society |  |  |  |  |  |
|  |  |  |  |  | **i** | Recognize the need for and demonstrate ability to engage in lifelong learning. |  |  |  |  |  |
|  |  |  |  |  | **j** | Know about contemporary socio-economic issues relevant to relevance to computer engineering. |  |  |  |  |  |
|  |  |  |  |  | **k** | Use techniques, skills and modern engineering tools necessary for engineering practice. |  |  |  |  |  |
|  |  |  |  |  | **l** | Know probability and statistics and their applications in Computer Engineering. |  |  |  |  |  |
|  |  |  |  |  | **m** | Know discrete mathematic: e.g. Logic, Number theory, Set theory, Algorithms, Information theory. |  |  |  |  |  |
|  |  |  |  |  | **n** | Design a system that involves the integration of hardware and software |  |  |  |  |  |

**III Surveying the COE Program Educational Objectives**

ABET defines program educational objectives (PEOs) as “broad statements that describe the career and professional accomplishments that the program is preparing graduates to achieve”. The PEOs are measures of the graduates’ performance 3 to 5 years after completing graduation. The Alumni questions sought to find out how the alumni perceive the program and how it satisfies their working environment and needs.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Program Educational Objectives of the Computer Engineering Program at KFUPM** | | **To what degree did the COE Graduate achieved the Educational Objectives:**  1: Poor 5: Excellent | | | | |
| **1** | **2** | **3** | **4** | **5** |
| **1** | The COE program has provided me with adequate background to practice my profession as a computer engineer with confidence. |  |  |  |  |  |
| **2** | The COE program has provided me with adequate background to be globally (worldwide) competitive in my profession. |  |  |  |  |  |
| **3** | The COE program has provided me with adequate background to make intellectual contribution to my profession. |  |  |  |  |  |
| **4** | The COE program has provided me with adequate training for improving my personal skills (e.g., teamwork, leadership, oral and written communication skills) in the work place. |  |  |  |  |  |
| **5** | The COE program has provided me with adequate opportunities to help me understand and appreciate the importance of superior work ethics in the practice of my profession. |  |  |  |  |  |
| **6** | The COE program has provided me with adequate opportunities to help me understand and appreciate the importance of a good character in the practice of my profession. |  |  |  |  |  |
| **7** | The COE program has provided me with an adequate ability and motivation to continuously improve my technical skills. |  |  |  |  |  |
| **8** | The COE program has provided me with adequate opportunities for professionally adapting myself to changes in my field. |  |  |  |  |  |
| **9** | The COE program has provided me with adequate breadth technical programs |  |  |  |  |  |
| **10** | The COE program has provided me with adequate depth technical programs. |  |  |  |  |  |
| **11** | The COE program has provided me with adequate background that I can build on to continue higher studies for the MS and PhD degrees. |  |  |  |  |  |

**IV Comments**

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**King Fahd University of Petroleum and Minerals**

**Computer Engineering Department**

**Assessment Form by COOP Supervisor**

Dear COOP Supervisor:

The Department of Computer Engineering (COE) at the King Fahd University of Petroleum and Minerals employs a continuous assessment plan for its program according to the ABET engineering accreditation criterion. We are very much interested to know how our COOP students have met these criteria. Your answers will help us enhance our program and improve the quality of graduates to better serve industry.

Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Student KFUPM ID #.: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Semester: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Academic Year:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**I Program Outcomes**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| To what degree was the student expected to meet the criterion during the COOP program:  1: Low 5: High | | | | | Program Outcome Criteria | | To what degree did the student **meet** the criterion during the COOP program:  1: Poor 5: Excellent | | | | |
| **1** | **2** | **3** | **4** | **5** | **1** | **2** | **3** | **4** | **5** |
|  |  |  |  |  | **a** | Apply knowledge of mathematics, science, and engineering to obtain solutions and formulate models of processes and systems. |  |  |  |  |  |
|  |  |  |  |  | **b** | Design and conduct experiments, and collect, analyze and interpret data. |  |  |  |  |  |
|  |  |  |  |  | **c** | Design a system, process, or component to meet desired needs subject to given constraints. Analyze and evaluate alternative solutions. |  |  |  |  |  |
|  |  |  |  |  | **d** | Function on multi-disciplinary and/or diverse teams. Take responsibility, share work, and value other viewpoints. |  |  |  |  |  |
|  |  |  |  |  | **e** | Identify, formulate, and solve engineering problems. Make appropriate and necessary assumptions. Suggest and evaluate new approaches. |  |  |  |  |  |
|  |  |  |  |  | **f** | Understand professional and ethical responsibilities. Demonstrate ethical practice. |  |  |  |  |  |
|  |  |  |  |  | **g** | Use oral, written, and audio-visual techniques effectively for successful communication. |  |  |  |  |  |
|  |  |  |  |  | **h** | Understand global effects of practices, products, and events, and the impact of engineering solutions on society |  |  |  |  |  |
|  |  |  |  |  | **i** | Recognize the need for and demonstrate ability to engage in lifelong learning. |  |  |  |  |  |
|  |  |  |  |  | **j** | Know about contemporary socio-economic issues relevant to relevance to computer engineering. |  |  |  |  |  |
|  |  |  |  |  | **k** | Use techniques, skills and modern engineering tools necessary for engineering practice. |  |  |  |  |  |
|  |  |  |  |  | **l** | Know probability and statistics and their applications in Computer Engineering. |  |  |  |  |  |
|  |  |  |  |  | **m** | Know discrete mathematic: e.g. Logic, Number theory, Set theory, Algorithms, Information theory. |  |  |  |  |  |
|  |  |  |  |  | **n** | Design a system that involves the integration of hardware and software |  |  |  |  |  |

**II Comments**

A Other skills required by your organization

|  |
| --- |
|  |
|  |
|  |

B How do you compare KFUPM-COE COOP students with those of other universities

|  |
| --- |
|  |
|  |
|  |

C Currently KFUPM-COE Program Educational Objectives aim at producing computer engineering graduates who are prepared to:

1. Practice their profession with confidence and global competitiveness and make intellectual contributions to it;
2. Pursue a life-long career of personal and professional growth with superior work ethics and character, and

3. Pursue advanced study and research at the graduate level.

Strengths you see in the KFUPM-COE program and its educational objectives

|  |
| --- |
|  |
|  |
|  |

Other educational objectives that you believe should be added

|  |
| --- |
|  |
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|  |

**III Contact Information**

Information on the person who completed this form:

|  |  |
| --- | --- |
| Name: |  |

|  |  |
| --- | --- |
| Position / Title |  |

|  |  |
| --- | --- |
| Department, Company |  |

|  |  |
| --- | --- |
| e-mail: |  |

|  |  |
| --- | --- |
| Date: |  |

***King Fahd University of Petroleum and Minerals***

**College of Computer Sciences & Engineering**

***Computer Engineering Department (COE)***

**\*\*\*\***

***Industry Advisory Committee Survey***

***(IACS)***

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The Industry Advisory Committee is a major stakeholder in the Computer Engineering Department. We are seeking your inputs and assessment on:

1. The quality of the COE-KFUPM Graduate at the workplace in meeting:
   1. The Program Educational Objectives (PEOs)
   2. The Program Outcomes (POs)
2. Quality of the Program Accreditation and the Program Assessment Systems.

**Thank you in advance for your COOPeration.**

Advisory Committee Member: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Job Nature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Number of engineers employed in your organization: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Percentage of KFUPM University graduates: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Number of KFUPM Computer Engineering graduates: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

With respect to the Computer Engineering Program at KFUPM: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**I - Surveying the Program Educational Objectives (PEOs)**

ABET defines program educational objectives (PEOs) as “broad statements that describe the career and professional accomplishments that the program is preparing graduates to achieve”. The PEOs are measures of the graduates’ performance 3 to 5 years after completing the program. The employers' questions are designed to determine how you judge the COE graduates in meeting job requirements and needs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Program Educational Objectives of the Computer Engineering Program at KFUPM** | | **To what degree did the COE Graduate achieved the Educational Objectives:**  1: Poor 5: Excellent | | | | |
| **1** | **2** | **3** | **4** | **5** |
| **PEO-1:**  **Practice their profession with confidence and global competitiveness and make intellectual contributions to it.** | 1. The COE program provides its graduates adequate background to practice the computer engineering profession with confidence. |  |  |  |  |  |
| 2. The COE program provides its graduates adequate background to be globally (worldwide) competitive. |  |  |  |  |  |
| 3. The COE program provides its graduates adequate background to make intellectual contribution to the profession. |  |  |  |  |  |
| 4. The COE program provides its graduates adequate background to improve their personal skills (e.g., teamwork, leadership, oral and written communication skills, etc) in the work place. |  |  |  |  |  |
| 5. The COE program provides its graduates with adequate technical breadth. |  |  |  |  |  |
| 6. The COE program provides its graduates with adequate technical depth. |  |  |  |  |  |
| **PEO-2:**  **Pursue a life-long career of personal and professional growth with superior work ethics and character.** | 1. The COE program provides its graduates with adequate opportunities to help understand and appreciate the importance of superior work ethics in practicing the COE profession. |  |  |  |  |  |
| 2. The COE program provides its graduates with adequate opportunities to help understand and appreciate the importance of good character as a computer engineering professional. |  |  |  |  |  |
| **PEO-3:**  **Pursue advanced study and research at the graduate level.** | 1. The COE program provides its graduates with adequate ability and motivation to continuously improve their technical skills. |  |  |  |  |  |
| 2. The COE program has provided its graduates with adequate training for professionally adapting himself to changes in the field. |  |  |  |  |  |
| 3. The COE program provides its graduates with adequate background to continue higher studies for the MS and PhD degrees. |  |  |  |  |  |

Q-1 - Please provide us your inputs on the Educational Objectives:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**II - Surveying the Program Outcomes (POs)**

The Program Outcomes (POs) are statements that describe what the COE graduates are expected to know and be able to do by the time of graduation. They are related to skills, knowledge and behavior that graduate acquired through the COE program.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **To what degree was the COE Graduate expected to meet the PO criterion**  1: Low 5: High | | | | | **Program Outcome Criteria (a, b, c, .. ,n)** | | **To what degree did the COE Graduate met the PO criterion**  1: Poor 5: Excellent | | | | |
| **1** | **2** | **3** | **4** | **5** | **1** | **2** | **3** | **4** | **5** |
|  |  |  |  |  | **a** | Apply knowledge of mathematics, science, and engineering to obtain solutions and formulate models of processes and systems. |  |  |  |  |  |
|  |  |  |  |  | **b** | Design and conduct experiments, and collect, analyze and interpret data. |  |  |  |  |  |
|  |  |  |  |  | **c** | Design a system, process, or component to meet desired needs subject to given constraints. Analyze and evaluate alternative solutions. |  |  |  |  |  |
|  |  |  |  |  | **d** | Function on multi-disciplinary and/or diverse teams. Take responsibility, share work, and value other viewpoints. |  |  |  |  |  |
|  |  |  |  |  | **e** | Identify, formulate, and solve engineering problems. Make appropriate and necessary assumptions. Suggest and evaluate new approaches. |  |  |  |  |  |
|  |  |  |  |  | **f** | Understand professional and ethical responsibilities. Demonstrate ethical practice. |  |  |  |  |  |
|  |  |  |  |  | **g** | Use oral, written, and audio-visual techniques effectively for successful communication. |  |  |  |  |  |
|  |  |  |  |  | **h** | Understand global effects of practices, products, and events, and the impact of engineering solutions on society |  |  |  |  |  |
|  |  |  |  |  | **i** | Recognize the need for and demonstrate ability to engage in lifelong learning. |  |  |  |  |  |
|  |  |  |  |  | **j** | Know about contemporary socio-economic issues relevant to relevance to computer engineering. |  |  |  |  |  |
|  |  |  |  |  | **k** | Use techniques, skills and modern engineering tools necessary for engineering practice. |  |  |  |  |  |
|  |  |  |  |  | **l** | Know probability and statistics and their applications in Computer Engineering. |  |  |  |  |  |
|  |  |  |  |  | **m** | Know discrete mathematic: e.g. Logic, Number theory, Set theory, Algorithms, Information theory. |  |  |  |  |  |
|  |  |  |  |  | **n** | Design a system that involves the integration of hardware and software |  |  |  |  |  |

Q-2 - Please provide us your inputs on the Program Outcomes:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Q-3 - Please provide us your inputs on ABET Accreditation and Program Assessment Method

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Q-4 - Please list three most useful knowledge areas, skills, and professional tools that you think should be taught in the COE Program

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Q-5 - In your opinion, what should be done to improve the COE Education at KFUPM?

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Q-6 - In your opinion, what should be done to improve the professional partnership between the COE and the Industry?

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Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**King Fahd University of Petroleum and Minerals**

**Computer Engineering Department**

Employer survey

for Computer Engineering graduates

**Purpose**: The objective of this survey is to get feedback from organizations which employ *graduates* of the **Computer Engineering Department (COE) of KFUPM**. The results of this survey will help KFUPM tune its programs to better serve prospective employers of its graduates. This survey is part of the process for accrediting the COE program by the American Board for Engineering and Technology (ABET).

**I Company information**

|  |  |
| --- | --- |
| Organization Name |  |

|  |  |
| --- | --- |
| Type of Business |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Organization Size | |  |  |  |  | | --- | --- | --- | --- | | **Small** | **Medium** | **Large** | **Huge** | |

|  |  |
| --- | --- |
| Number of KFUPM-COE Graduates who have been employed in your organization |  |

|  |  |
| --- | --- |
| Nature of work performed by COE graduates in your organization |  |

|  |  |
| --- | --- |
| Salary Range for KFUPM-COE Graduates |  |

**II Contact Information**

The following information is regarding the person who filled-in this survey:

|  |  |
| --- | --- |
| Name: |  |

|  |  |
| --- | --- |
| Position / Title |  |

|  |  |
| --- | --- |
| Department, Company & Phone |  |

|  |  |
| --- | --- |
| e-mail: |  |

|  |  |
| --- | --- |
| Date: |  |

**III Surveying the COE Program Outcomes (POs)**

The Program Outcomes (POs) are statements that describe what the COE graduates are expected to know and be able to do by the time of graduation. They are related to skills, knowledge and behavior that graduate acquired through the COE program.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **To what degree was the COE Graduate expected to meet the PO criterion**  1: Low 5: High | | | | | Program Outcome Criteria | | **To what degree did the COE Graduate met the PO criterion**  1: Poor 5: Excellent | | | | |
| **1** | **2** | **3** | **4** | **5** | **1** | **2** | **3** | **4** | **5** |
|  |  |  |  |  | **a** | Apply knowledge of mathematics, science, and engineering to obtain solutions and formulate models of processes and systems. |  |  |  |  |  |
|  |  |  |  |  | **b** | Design and conduct experiments, and collect, analyze and interpret data. |  |  |  |  |  |
|  |  |  |  |  | **c** | Design a system, process, or component to meet desired needs subject to given constraints. Analyze and evaluate alternative solutions. |  |  |  |  |  |
|  |  |  |  |  | **d** | Function on multi-disciplinary and/or diverse teams. Take responsibility, share work, and value other viewpoints. |  |  |  |  |  |
|  |  |  |  |  | **e** | Identify, formulate, and solve engineering problems. Make appropriate and necessary assumptions. Suggest and evaluate new approaches. |  |  |  |  |  |
|  |  |  |  |  | **f** | Understand professional and ethical responsibilities. Demonstrate ethical practice. |  |  |  |  |  |
|  |  |  |  |  | **g** | Use oral, written, and audio-visual techniques effectively for successful communication. |  |  |  |  |  |
|  |  |  |  |  | **h** | Understand global effects of practices, products, and events, and the impact of engineering solutions on society |  |  |  |  |  |
|  |  |  |  |  | **i** | Recognize the need for and demonstrate ability to engage in lifelong learning. |  |  |  |  |  |
|  |  |  |  |  | **j** | Know about contemporary socio-economic issues relevant to relevance to computer engineering. |  |  |  |  |  |
|  |  |  |  |  | **k** | Use techniques, skills and modern engineering tools necessary for engineering practice. |  |  |  |  |  |
|  |  |  |  |  | **l** | Know probability and statistics and their applications in Computer Engineering. |  |  |  |  |  |
|  |  |  |  |  | **m** | Know discrete mathematic: e.g. Logic, Number theory, Set theory, Algorithms, Information theory. |  |  |  |  |  |
|  |  |  |  |  | **n** | Design a system that involves the integration of hardware and software |  |  |  |  |  |

**IV Surveying the COE Program Educational Objectives**

ABET defines program educational objectives (PEOs) as “broad statements that describe the career and professional accomplishments that the program is preparing graduates to achieve”. The PEOs are measures of the graduates’ performance 3 to 5 years after completing the program. The employers' questions are designed to determine how the employers judge COE graduates in meeting job requirements and needs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Program Educational Objectives of the Computer Engineering Program at KFUPM** | | **To what degree did the COE Graduate achieved the Educational Objectives:**  1: Poor 5: Excellent | | | | |
| **1** | **2** | **3** | **4** | **5** |
| **PEO-1:**  **Practice their profession with confidence and global competitiveness and make intellectual contributions to it.** | 1. The COE program provides its graduates adequate background to practice the computer engineering profession with confidence. |  |  |  |  |  |
| 2. The COE program provides its graduates adequate background to be globally (worldwide) competitive. |  |  |  |  |  |
| 3. The COE program provides its graduates adequate background to make intellectual contribution to the profession. |  |  |  |  |  |
| 4. The COE program provides its graduates adequate background to improve their personal skills (e.g., teamwork, leadership, oral and written communication skills, etc) in the work place. |  |  |  |  |  |
| 5. The COE program provides its graduates with adequate technical breadth. |  |  |  |  |  |
| 6. The COE program provides its graduates with adequate technical depth. |  |  |  |  |  |
| **PEO-2:**  **Pursue a life-long career of personal and professional growth with superior work ethics and character.** | 1. The COE program provides its graduates with adequate opportunities to help understand and appreciate the importance of superior work ethics in practicing the COE profession. |  |  |  |  |  |
| 2. The COE program provides its graduates with adequate opportunities to help understand and appreciate the importance of good character as a computer engineering professional. |  |  |  |  |  |
| **PEO-3:**  **Pursue advanced study and research at the graduate level.** | 1. The COE program provides its graduates with adequate ability and motivation to continuously improve their technical skills. |  |  |  |  |  |
| 2. The COE program has provided its graduates with adequate training for professionally adapting himself to changes in the field. |  |  |  |  |  |
| 3. The COE program provides its graduates with adequate background to continue higher studies for the MS and PhD degrees. |  |  |  |  |  |

**Comments**

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