



## COLLEGE OF ENGINEERING (COE) Bachelor of Informatics Engineering (BSIE)

Batch 2012-2013 &

Batch 2013-2014

Alumni Survey

### Introduction

AMA International University-Bahrain (AMAIUB) periodically conducts tracer studies on its alumni. This is purposely to monitor the link of the programme with the employment of its graduates, improve its curricular offerings, systems and procedures, and enable the graduates to be competitive and responsive to the needs of the labor environment. Hence, this report summarizes the results of the tracer study of the graduates of the BSIE programme.

### Objectives

This Alumni Tracer Report generally aimed to determine the alumni-respondents' personal employment profile and the attainment of the BSIE's Programme Educational Objectives (PEOs). Specifically, it identified the employment destination/status/information/sector and the nature of industry the alumni are involved in.

### Methodology

A survey was conducted in June 2016 among the graduates of the Bachelor of Science in Informatics Engineering (BSIE) using the Alumni Survey Questionnaire. The Batch 2013-2014 alumni were the respondents of the survey, specifically on the assessment of the PEOs based on the given indicators.

Respondents were as follows:

- a. A total of 31 alumni of Batch 2012-2013, in which the actual number of alumni-respondents totaled to 11 or 35%
- b. A total of 29 alumni of Batch 2013-2014, in which the actual number of alumni-respondents totaled to 14 or 48%.

As shown in Table 1, it can be noticed that the number of respondents of Batch 2013-2014 is higher than Batch 2012-2013. This may be due to the increase of the awareness of alumni. This may be due to increase in the awareness of alumni. The University improved its connection and communication with its alumni through having annual alumni home coming events.

The survey was conducted by the Head of the AMAIUB Alumni Office through the Alumni Database. The survey forms were sent and/or retrieved from the alumni-respondents through e-mail, phone interviews, or their personal visits in the University. Gathered data were tabulated, analyzed and interpreted.

The evaluation of the PEOs was rated by the alumni-respondents using the five-point Likert scale as shown below:

- 5- Strongly Agree
- 4- Agree
- 3- Agree to some extent
- 2- Disagree
- 1- Strongly Disagree

The mean ratings were interpreted and described based on their level of agreement and disagreement on the given indicators as follows:

- 4.51- 5.00 Strongly Agree

- 3.51- 4.50 Agree
- 2.51- 3.50 Agree to some extent
- 1.51- 2.50 Disagree
- 1.00- 1.50 Strongly Disagree

Hence, mean ratings within 3.51 to 5.00 means that the PEOs are attained. The AMAIUB graduates of the BSIE programme were able to practice as successful Informatics Engineer for the advancement of society(PEO1) and promote professionalism in informatics engineering practice (PEO 2).

**Executive Summary**

This Alumni Survey, conducted in June, aimed to determine the alumni-respondent’s evaluation of the Programme Educational Objectives (PEOs) of the Bachelor of Science in Informatics Engineering (BSIE). Results of this survey will serve as a basis for improving the quality of teaching and learning and identifying the key result areas for improvement. This will ensure that the curriculum is in harmony with the needs of the various manpower resources.

**Table 1  
Summary of BSIE Alumni-Respondents  
(2012-2014)**

Batch	Number of Graduates		
	Actual	Actual Number of Respondents	Percentage (%) of Respondents
2012-2013	31	11	35%

2013-2014	29	14	48%
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**Table 2  
Nature of Industries**

Nature of Industry	Frequency	Percentage (%)
Administrative and Management	5	36%
Bahrain Defense Force	2	14%
Health Sector	1	7%
Banking and Finance	2	14%
Engineering	1	7%
Telecommunications	2	14%
Other	1	7%
Total	14	100%

**Figure 1 : Distribution of Alumni Job Sector**

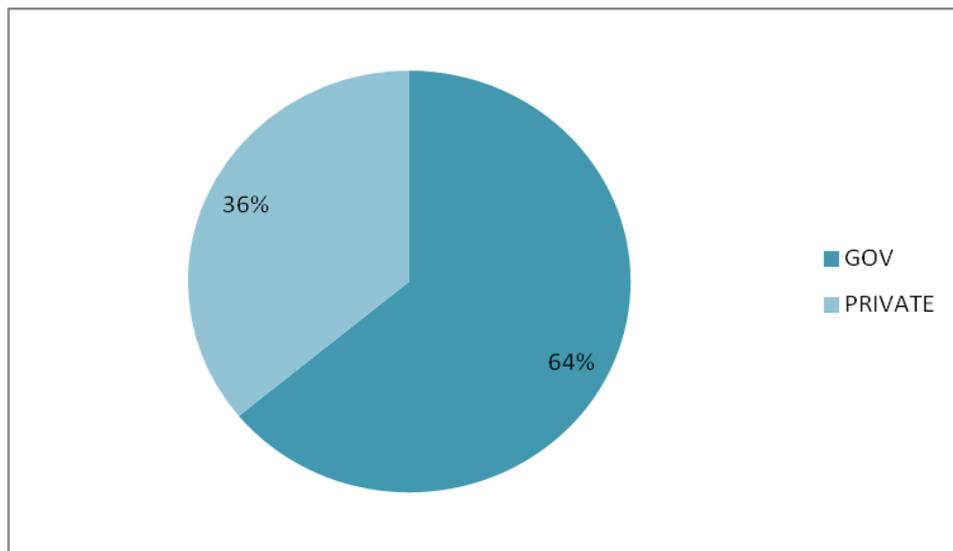


Table 2 and Figure 1 show the nature of the industries that the Batch of 2013-14 alumni of the BSIE programme are connected.

On the other hand, Table 3 shows the Employment Profile of the graduates of the BSIE programme. The table shows the specific companies where the alumni are working and the positions they are holding in that particular organizations.

**Table 3  
Alumni Employment Status**

Abdulrahman Tareq Saleh Almarran	33839888	Viva / Sales Agent
Aysha Ebrahim Abdulla Ali Hasan Alheddi	38882636	Moi / Admin
Amina Ali Husain Ali Ahmed	36806040	Moi / Staff
Lulwa Ebrahim Mohamed Saleh Alsherooqi	33212323	Moi / System Speciliast
Amina Abdulelah Juma Mubarak Buqais	39949141	Gdnpr / Technician
Hasan Ali Ahmed Jasim Salman	39785544	Batelco /Planning Senior
Alya Tawfeeq Khalil Abdulwahab Rajab	39887575	Ewa / Employer
Mubarak Naser Mohamed Ali Jabor Aldoseri	36477717	Bdf
Alanood Sultan Saad Abdulla Isa Alisa	36444156	Bdf / Accountant
Mahmood Mohamed Ali Salman Shehab	36722233	Nfh / Network Admin
Mohamed Faraj Mohamed Mohamed Abu Alroos	33389797	Mof / Hr )
A.Rahman A.Haleem Yusuf Mahmood Almahmood	33111196	King Hamad Hospital / It
Zaid Abdulla Mohamed Mahmood	37776844	Ismail Associate Institution / Engineer
Kourosh Mahmood Abdulla A.Nabi Isa Alzeera	6637661	Own Business

### Assessment of BSIE Program Educational Objectives (PEOs)

The Program Educational Objectives (PEOs) are broad statements that describe the attainment of the expectations from the graduates of a specific programme after graduation. The BSME alumni were able to evaluate the following PEOs:

PEO1.To enable our graduates to practice successful Informatics Engineers for the advancement of society.

PEO2.To promote professionalism in Informatics Engineering practice.

Table 4 shows the results of PEOs evaluation by the Batch 2013-2014 BSIE alumni respondents. It can be seen that PEO 1 has a mean score of 3.89 while for PEO 2 , it has a mean score of 3.87. Therefore, it falls within the range of 3.51 to 5.00 . Hence, PEOs were attained.

For the Batch 2013-2014, the graduates were able to practice successful informatics engineers for the advancement of society (PEO 1) with mean rating of 3.89 and foster to promote professionalism in engineering informatics (PEO 2) with the mean rating of 3.87.

**Table 4**  
**Results of PEOs Evaluation by the BSIE Alumni Respondents**

PEO1. To enable our graduates to practice successful informatics engineers for the advancement of society.	Mean N= 14	Interpretation
<ul style="list-style-type: none"> <li>undertaking engineering projects that show my ability to solve complex technical problems and to work in multidisciplinary teams on problems whose solutions respond to needs of the Kingdom of Bahrain and the GCC.</li> </ul>	3.93	Agree
<ul style="list-style-type: none"> <li>demonstrating professional engineering success via promotions and/or positions of increasing responsibilities.</li> </ul>	3.57	Agree
<ul style="list-style-type: none"> <li>demonstrating life-long learning via progress toward completion of an advanced degree, professional development, or industrial training</li> </ul>	4.07	Agree

courses.		
<ul style="list-style-type: none"> <li>driving organizational improvement efforts by providing training, mentoring or subject matter expertise to others.</li> </ul>	4	Agree
Weighted Mean	3.89	Agree
<b>PEO2. To promote professionalism in engineering informatics/engineering practice.</b>	<b>Mean N= 14</b>	<b>Interpretation</b>
<ul style="list-style-type: none"> <li>undertaking projects that take into consideration safety, health, environmental concerns and the public welfare, through adherence to required codes and laws.</li> </ul>	4	Agree
<ul style="list-style-type: none"> <li>upholding ethical standards and contributing to the broader engineering community.</li> </ul>	3.78	Agree
<ul style="list-style-type: none"> <li>setting and applying professional standards to achieve excellence in the workplace.</li> </ul>	3.86	Agree
<ul style="list-style-type: none"> <li>demonstrating management and leadership skills, including negotiating with and influencing others, and leading a project team.</li> </ul>	3.86	Agree
Weighted Mean	3.87	Agree

The results of PEO1 evaluation by the BSIE alumni respondents as presented in Table 4 shows a weighted mean of 3.89 which means that the graduates of the programme agree that they were able to practice as successful informatics engineers for the advancement of society. Hence, PEO1 was attained.

The results of PEO2 evaluation by the BSIE alumni respondents as presented in Table 4 shows a weighted mean of 3.87 which means that the graduates of the programme Agree that they were able to promote professionalism in informatics engineering practice. Hence, PEO2 was attained.

Thus, AMAIUB will continuously develop and implement innovations in the pursuit of the University's tri-functions, which are instruction, research and community engagement, in consultation with the stakeholders which support the attainment of the University's vision, mission, goals and objectives. AMAIUB also

ensures the consistency of the BSIE programme and all its programmes with the Bahrain Vision 2030. Thus, the University produces high-skilled BSIE graduates dedicated to lifelong learning and equipped with knowledge and skills to respond to the growing socio-economic needs of Bahrain and the GCC as well.

**Table 5**  
**Assessment on the alumni’s experience at the College of Engineering (COE)**  
**and on the extent the alumni’s education has contributed to his/her**  
**professional and personal development.**

FACTORS	N= 14	Interpretation
Overall, I am satisfied with my <u>ACADEMIC</u> experience at COE.	3.93	Agree
Overall, I am satisfied with my <u>ACADEMIC</u> experience at AMAIUB.	4	Agree
Overall, I am satisfied with my <u>SOCIAL</u> experience at COE	3.86	Agree
Overall, I am satisfied with my <u>SOCIAL</u> experience at AMAIUB.	4.07	Agree
My education developed my ability to function and work effectively in teams.	4.07	Agree
My education promoted my understanding of professional, ethical, legal, security and social issues and responsibilities.	3.64	Agree
My education taught me the ability to communicate effectively with a wide range of audience.	3.79	Agree
My education developed my ability to analyze the local and global impact of engineering informatics/mechatronics engineering on individuals, the organization and society.	3.79	Agree
My education paved the way to recognize the need for and the ability to engage in lifelong learning.	4	Agree
Overall, I am satisfied with the <u>programme</u> I completed.	3.85	Agree
The sequencing of courses within the programme is well-balanced.	3.93	Agree
The scheduling of courses is appropriate and reasonable.	3.71	Agree
The elective courses offered are practical and adequate.	3.93	Agree
My education manifests application of knowledge of computing and mathematics appropriate to the discipline.	3.86	Agree
My education promoted my ability to analyze problems and identify and define the computing requirements appropriate to their solution.	3.79	Agree
My education developed my ability to design, implement, and evaluate engineering-based systems, processes, components or programs to meet desired needs of varying complexities.	3.86	Agree
My education enabled the use of current techniques, skills, and tools necessary for engineering informatics/ mechatronics engineering practice.	3.79	Agree

My education provided broad intellectual coverage of the fundamentals of algorithms, data structures, software, and design, concepts of programming languages and computer organization and architecture.	3.79	Agree
Overall, I am satisfied with the quality of instruction in the programme.	3.79	Agree
My professors stimulated me to think critically, creatively and constructively at all times.	3.71	Agree
COE has prepared me well for future	3.64	Agree
Weighted mean	3.84	Agree

## Summary

- The majority of the graduates of Bachelor of Science in Engineering Informatics (BSIE) programme proceeded to appropriate employment after graduation, mostly in private administrative and management industries.
- The alumni respondents Agree on the attainment of the PEOs based on the different indicators.
- The alumni respondents Agree on the assessment on the alumni's experience at the College of Engineering (COE).
- AMAIUB will continue to produce graduates of the programme equipped with knowledge and skills for the growing needs of the Kingdom of Bahrain and the region.

## Recommendations

AMAIUB should:

1. ensure that the BSIE programme is consistent with the Bahrain Vision 2030
2. continue to emphasize its culture of quality education and Produce highly-skilled and competent BSIE graduates who are:

- a. dedicated to life-long learning
  - b. responsive to the growing socio-economic needs of Bahrain and the region
3. continuously develop and implement innovations in the university's tri-functions on instruction, research, and community engagement, through:
- a. consistent consultations and collaborations with the stakeholders
  - b. alumni
  - c. parents
  - d. industry partners or employer