AMA International University BAHRAIN

COLLEGE OF COMPUTER STUDIES (CCS)
Bachelor of Science in Computer Science (BSCS)
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 BSCS programme.

Objectives

This Alumni Tracer Report generally aimed to determine the alumni-respondents' personal employment profile and the attainment of the BSCS'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 Computer Science (BSCS) using the Alumni Survey Questionnaire. Alumni of Batch 2012-2013 and 2013-2014 were the respondents of the survey, specifically on the assessment of the PEOs based on the given indicators.

Respondents were are follows:

a. A total of 31 alumni of Batch 2012-2013, in which the actual number of alumni-respondents totaled to 13 or 41%

b. A total of 35 alumni of Batch 2013-2014, in which the actual number of alumni-respondents totaled to 15 or 42 %.

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 in the awareness of alumni. The University strengthens its communication with the alumni through having annual alumni home coming events. This may be due to a number of factors like some alumni are not reachable while some of them have changed their contact numbers (mobile) or e-mail and some have travelled out of Bahrain, among others.

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

1.   Hence, mean ratings of 3.51 to 5.00 means that the PEOs were attained. The AMAIUB graduates of the BSCS programme were able to practice as successful computing professionals for the advancement of society (PEO 1) and promote professionalism in computing practice (PEO2) .

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 Computer Science (BSCS). 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 BSCS Alumni-Respondents

(2012-2014)

Batch	Number of Graduates		
	Actual	Actual Number of Respondents	Percentage (%) of Respondents
2012-2013	31	13	41%
2013-2014	35	15	42%

Table 2

Nature of Industries

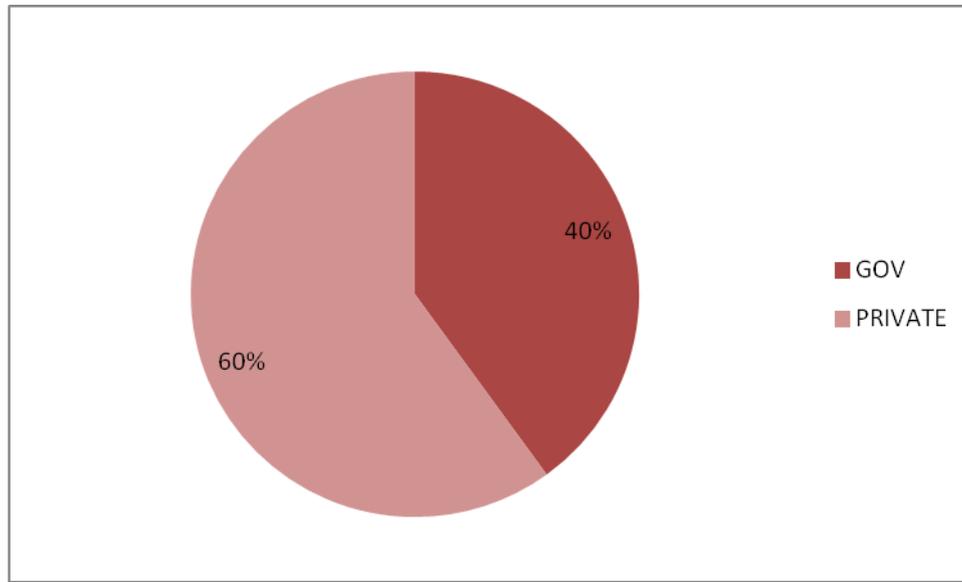| Nature of Industry	Frequency	Percentage (%)
Administrative and Management	3	20%
Industries Sector	4	27%
Education	4	27%
Aviation	1	7%
Banking and Finance	2	13%
Others	1	7%
Total	**15**	100%

Figure 1 : Distribution of Alumni Job Field

Table 2 and Figure 1 show the nature of the industries that the alumni Batch of 2013-14 of BSCS programme are connected and whether they are connected with government or private institutions.

Employment Profile of AMAIUB BSCS Alumni

Table 3 shows the profile of the alumni who responded on the survey. This table shows the company where they are connected, along with their position on the company.

Table 3

BSCS Alumni Profile

Osama Sameer Abdulla Mohamed Taqi	39843834	Moe / Hr Dept
Ali Habib Haji Mohamed Ismaeel	39771197	Alba / Supervisor (Instruments)
Ali Jasim Ali Mohamed Ali Markhoos	33870018	Bahrain Muashi Company / Supervisor
Abdulla Khalifa Husain Abdulla Alqallaf	36773988	Moe / Specialist
Bader Ghazi Abduljalil Matooq Ahmed	66339155	American Exp / Risk Dept
Sara Hamad Jasim Mohamed Jasim Alchuban	33101323	Tubli School - Lab Technician
Ali Ebrahim Abdulla Abbas Hasan Altooq	38886684	Amaiub / It Clerk

Sayed Majed Murtadha Hasan Majed Ebrahim	39426244	Alba / Analyst Lab
Adnan Sayed Ali Alawi Mohamed Alalawi	33926791	Own Business
Ismaeel Ghuloom Mohamed Ghuloom	36555480	Ahli United Bank / Shift Leader
Mohamed Adel Jasim Yusuf Alshamsi	39902400	Civil Aviation Affairs / Air Craft Controller
Fahad Naseem Abdulla Muhana Mohamed	39778879	Moi / Software Engineer
Mohamed Ebrahim Turki Darraj	39212526	Mow / Admin Technician
Aamer Abdulla Mohammed	33151523	Abdulla Contracting / Data Entry
Mohamed Husain Salman Ahmed Mahdi	34112260	Haji Hasan Group / System Developer

Assessment of BSCS Programme 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 BSCS alumni were able to evaluate the following PEOs:

PEO1.To enable our graduates to practice a successful computing professionals for the advancement of society.

PEO2.To promote professionalism in computing practice.

Table 4 shows the results of PEOs evaluation by BSCS alumni respondents, specifically, the Batch 2012-2013. Hence, mean ratings of 4.0 for PEO 1 and 4.03 for PEO 2 are within the range of 3.51 to 5.00. This means that the PEOs were attained. The AMAIUB Batch 2012-2013 graduates of the BSCS programme, were able to practice a successful computing professionals for the advancement of society (PEO 1), with mean rating of 4.0 and to promote professionalism in computing practice (PEO 2), with mean rating of 4.03.

Table 4

Results of PEOs Evaluation by the BSCS

Alumni-Respondents

PEO1. To enable our graduates to practice a successful computing professionals for the advancement of society.	Mean N= 15	Interpretation
• working, being promoted, or given positions of increasing responsibilities in a job related to computing	4.13	Agree

• participating in projects that show my ability to solve complex computing problems, working in multidisciplinary teams, whose solutions respond to the needs of the Kingdom of Bahrain or the GCC	3.93	Agree
• engaging in continuing professional development through: completion of advanced degree; taking industry training or certification courses; attending seminars, conferences, or workshops; or actively participating in professional organizations – related to the field of computing	3.93	Agree
• using current computing techniques, skills, and tools necessary for the practice of my profession	4.00	Agree
Weighted Mean	4.00	**Agree**
PEO2. To promote professionalism in computing practice.	Mean N= 15	Interpretation
• setting or applying professional standards to achieve excellence in the workplace	4.13	Agree
• upholding ethical standards and contributing to the broader computing community	4.00	Agree
• adhering to the required codes or laws relating to public safety, health, welfare and environmental concerns	4.07	Agree
• applying the same professionalism to my own personal life	3.93	Agree
Weighted Mean	4.03	**Agree**

The results of PEO 1 evaluation by the BSCS alumni-respondents as presented in Table 4 shows a weighted mean of 4.00 which means that the graduates of the programme agree that they were able to practice a successful computing professionals for the advancement of society, being promoted, or given positions of increasing responsibilities related to business informatics; have participated in projects that show their ability to solve business problems; have worked in multidisciplinary teams whose solutions responded to the needs of Kingdom of Bahrain or the GCC; have engaged in continuing professional development through active participation in professional organizations related to computer science; and have used computing techniques, skills, and tools necessary

for the practice of the profession. Therefore, based on the given indicators, PEO1 is attained**.**

Moreover, for PEO2 as shown on Table 4, the alumni-respondents considered that they were able to promote professionalism in computing practice by setting or applying professional standards to achieve excellence in their workplace; uphold ethical standards and contributing to the broader computing community; continuously adhere to the required codes or laws relating to public safety, health, welfare and environmental concerns; and have applied professionalism in their own personal life. On the basis of the given indicators, it can be concluded that PEO2 is attained**.** With a grand mean of 4.03, which means agree, it can further be implied that the attainment of the PEOs for the BSCS programme showed that AMAIUB has been successful in the delivery of its outcome-based instruction through its committed faculty members equipped with diverse teaching, learning, and assessment methods, using updated teaching-learning resources, integrative curriculum, comprehensive work-based learning program, relevant research and publications, and community engagement programs.

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 BSBI programme and all its programmes with the Bahrain Vision 2030. Thus, the University produces high-skilled BSBI 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 Computer Studies (CCS) and on the extent the alumni's education has contributed to his/her professional and personal development.

FACTORS	N= 15	Interpretation
Overall, I am satisfied with my <u>ACADEMIC</u> experience at CCS.	4.0	Agree
Overall, I am satisfied with my <u>ACADEMIC</u> experience at AMAIUB.	3.8	Agree

Overall, I am satisfied with my <u>SOCIAL</u> experience at CCS.	4.1	Agree
Overall, I am satisfied with my <u>SOCIAL</u> experience at AMAIUB.	3.9	Agree
My education developed my ability to function and work effectively in teams.	3.7	Agree
My education promoted my understanding of professional, ethical, legal, security and social issues and responsibilities.	4.4	Agree
My education taught me the ability to communicate effectively with a wide range of audience.	3.7	Agree
My education developed my ability to analyze the local and global impact of computing on individuals, the organization and society.	4.1	Agree
My education paved the way to recognize the need for and the ability to engage in lifelong learning.	4.3	Agree
Overall, I am satisfied with the <u>programme</u> I completed.	4.1	Agree
The sequencing of courses within the programme is well-balanced.	3.9	Agree
The scheduling of courses is appropriate and reasonable.	3.9	Agree
The elective courses offered are practical and adequate.	4.2	Agree
My education manifests application of knowledge of computing and mathematics appropriate to the discipline.	4.1	Agree
My education promoted my ability to analyze problems and identify and define the computing requirements appropriate to their solution.	3.5	Agree
My education developed my ability to design, implement, and evaluate computer-based systems, processes, components or programs to meet desired needs of varying complexities.	3.9	Agree
My education enabled the use of current techniques, skills, and tools necessary for computing practice	3.7	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.	4.0	Agree
Overall, I am satisfied with the quality of instruction in the programme.	3.8	Agree
My professors stimulated me to think critically, creatively and constructively at all times.	4.1	Agree
CCS has prepared me well for future	4.1	Agree
Weighted mean	4.0	Agree

Summary

- The majority of the graduates of Bachelor of Computer Science (BSCS) 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 Computer Studies (CCS) and on the extent that the alumni's education has contributed to their professional and personal development.
- 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 BSCS programme is consistent with the Bahrain Vision 2030
2. continue to emphasize its culture of quality education produce highly-skilled and competent BSCS 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 employers