

Kingdom of Saudi Arabia  
Ministry of Education  
Najran University  
Faculty of Computer Science and  
Information Systems



المملكة العربية السعودية  
وزارة التعليم  
جامعة نجران  
كلية علوم الحاسب ونظم  
المعلومات

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# The Report of Data Analysis of Employers, Alumni, and Exit Surveys

For Computer Science and Information System Programs



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Sunday, October 2<sup>nd</sup> 2016

## 1. The Employers Survey:

The participation of employers and companies through the assessment and development of academic programs of the college to improve the quality of programs needed to keep pace with the technological development in the field of computing. Thus, the quality unit in Computer Science and Information System Faculty had been formatted in order to get the target of such improvement. Therefore, this report is to present one of the quality unit efforts to develop the academic plan.

### The analysis of the survey data

- The total number of participants is: 15 (8 Males) and (7 Females)
  - Government sector (13) participants.,
  - Private sector (2) participants.
- Areas of specialization for employees. The following table and Chart shows the specialties and number of employees (table1, Figure1) .

Major	Saudi	Non-Saudi
Database	6	6
Computer Networking	7	4
Computer Graphics	4	0
Extracting Data	7	0
Programming	10	6

Artificial Intelligent	3	1
Software Engineering	3	0
Mobil Applications	2	2

Table1: List of Computer fields and Employees.

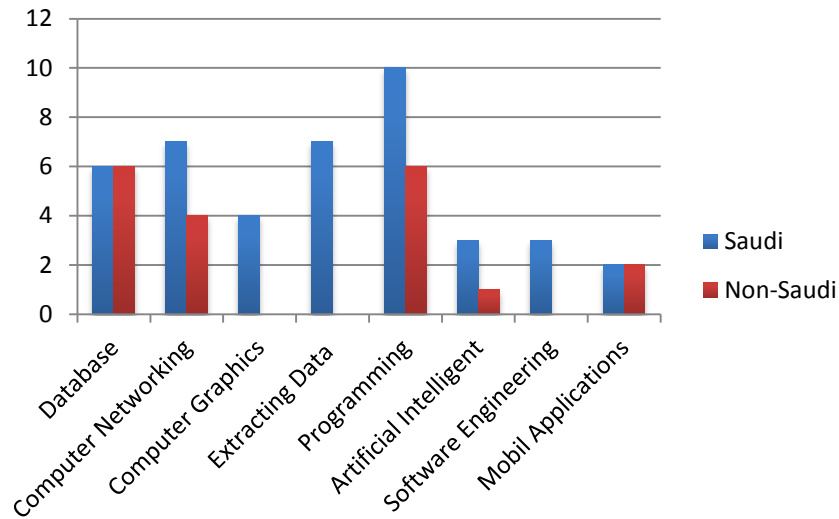


Figure1: Specialties of the Saudis and non-Saudis staff

- The total number of bachelor's degree holders in the disciplines of computer science workers in the company/institution of the participants is (69).
- The participant's evaluation for the skills; regarding to their importance in company/institution.

Skills, abilities and knowledge	I can not Rating	Not important	Im- portant to a certain extent	important	very important	Strongly important
The ability to apply appropriate computational and mathematical knowledge of the field	0	1	1	0	5	6
The ability to analyze the problem, identify and define the computing requirements appropriate of resolving	0	0	0	2	4	5
The ability to design, implement and evaluate a system, process, component, or an accredited program on the computer to meet the required needs	0	0	0	2	3	5
Ability to work effectively in a team to achieve a common goal.	1	0	0	3	3	6
Understand the ethical, professional and legal, security and social issues and responsibilities.	1	0	0	1	2	8
The ability to communicate effectively with a wide range of audience.	1	0	0	2	4	5
Capacity at the local and global impact of computing on individuals, organizations and community analysis.	1	1	0	3	4	4
Recognizing the need for and ability to participate in Continuing Professional Development	1	0	0	7	2	3
The ability to use current techniques and skills necessary for the practice of computing tools.	1	0	0	2	4	6
The ability to apply mathematical foundations and principles of algorithms, and the theory of computing in the modeling and design of systems that rely on computer the way you appear to understand how the trade-offs between design options	1	0	1	5	1	5

The ability to design and implement development principles in the construction of software systems of varying complexity.	1	0	4	3	2	3
Understanding the processes that support the delivery and management of information systems within a particular application	1	1	2	4	3	2

Table2: The participant's evaluation for the skills, abilities, and knowledge

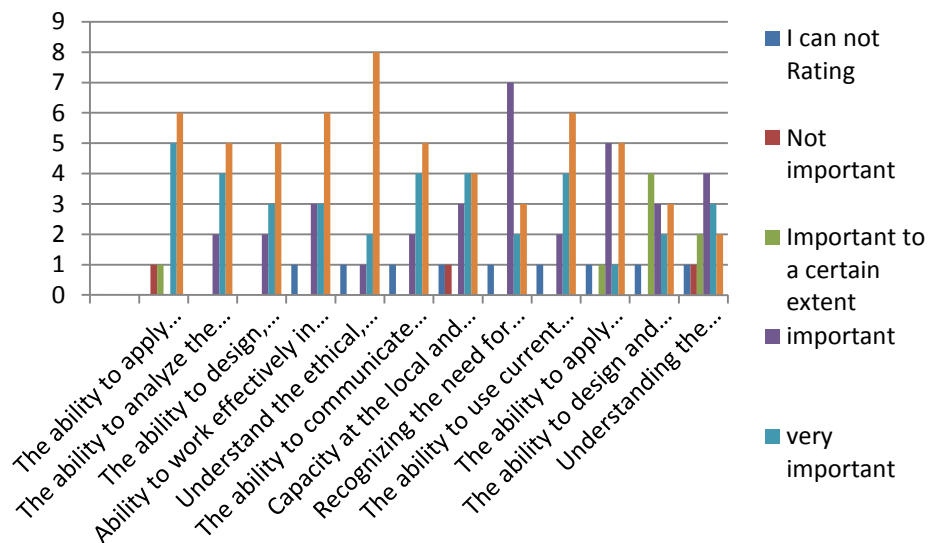


Figure2: The participant's evaluation for the skills

- All participants agreed that it is necessary to provide extra training in the first year of employment.

## 2. Alumni Survey

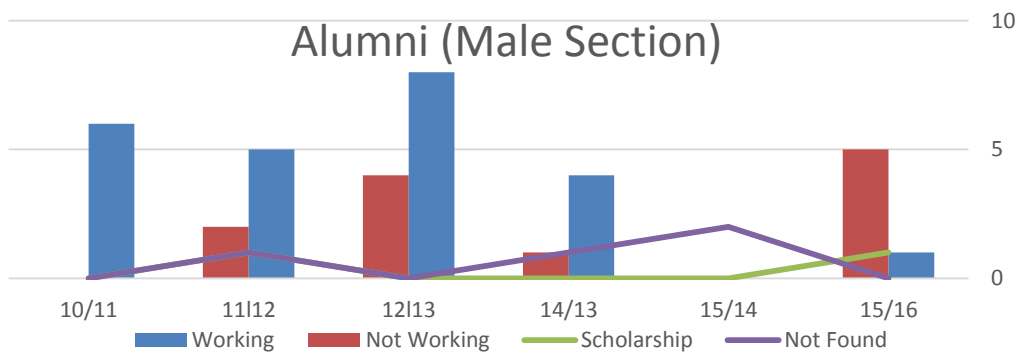
The college alumni have been surveyed to find out their job status the following tables describe the number of working, not working, in further studies (Scholarship).

### The analysis of the survey data

#### 1. Computer Science (Boys Section)

Year	Working	Not Working	Scholarship	Not Found	CSS Total
2011/2010	6	0	0	0	6
2012/2011	5	2	1	1	9
2013/2012	8	4	0	0	12
2014/2013	4	1	0	1	6
2015/2014	0	0	0	2	2
2015/2016	1	5	1	0	7

Table1: Alumni's statues per year (male).



Figuer1: Alumni's statues per year (male).

## 2. Computer Science (Girls Section)

Year	Working	Not Working	Scholarship	Not Found	CSS Total
2011/2010					
2012/2011	8	5	3	5	21
2013/2012	3	7	0	14	24
2014/2013	6	10	0	25	41
2015/2014	4	8	0	7	21
2015/2016	0	9	0	0	9

Table2: Alumni's statues per year (female).

## Alumni Female Section)



Figuer2: Alumni's statues per year (female).

#### Observations:

1. In year 2011/2010 it was observed that all graduates were employed in Najran Sector where 90% of them employed in Najran University.
2. In year 2011/2012 53% of the graduates were employed and there where 3% went for higher studies
3. In year 2012/2013 there was a high 55% of the graduated were employed.
4. In year 2015/2016 not yet employed since they were graduated recently

#### Analysis & Recommendations

1. Survey alumni through face to face , phone, E-mail, survey.
2. Analyze the situation and try to figure out where the obstacles
3. Analyze these obstacles in which obstacles has any relation with the field of the college of Computer Science.
4. Propose plans to overcome the obstacles.

#### CSS Undergraduate Alumni

Where do our undergraduates go?

Below is a sampling of corporations and companies who have hired our undergraduate's alumni.

- a. Najran University
- b. Military institutions
- c. General Educational Schools (governmental and private)
- d. Saudi Post Office
- e. Saudi communication companies.



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## 2. Exit Survey

### 1. INTRODUCTION

The Development and Quality Unit (DQU) of the College of Computer Science & Information System (CSIS) manages the assessment and the revision of Student Outcomes (SOs) by evaluating the data collected through various data collection methods. Current Students survey is one of the data collection methods; in fact, it is the indirect assessment method to assess the Student Outcomes. The purpose of the survey is to collect feedback from the students on the quality of learning and teaching and the level of preparation in the CS and IS program.

The purpose of this report is to provide an overall analysis and the interpretation of the students' opinion about the supportive services and resources provided by the college in addition to the evaluation results of Performance Indicators of the SOs.

### 2. COMPONENTS OF EXIT SURVEY

Survey is divided into following six sections:

Section 1: Introduction.

Section 2: Student Data.

Section 3: Advising and Support.

Section 4: Learning Resources and Equipment.

Section 5: Learning and Teaching

Section 6: Learning Outcomes.

Sections 3 to 6 consist of individual questions. Total numbers of questions in current students' survey are 54. Section 3 contains six questions related to advising and support. Sections 4 contain seven questions related to learning resources and equipment. Section 5 contains eleven questions related to learning and teaching and section 6 contains thirty questions related to the learning outcomes.

### 3. DATA SOURCE

The following table shows the source of data collected to prepare this report.

TABLE 1: DATA SOURCES

Source	Campus	Semester and Year	Collected by
Exit Survey	Male	Second Semester 2014/2015	Development & Quality Unit

The hard copy of the survey filled by the students is available in the DQU office.

### 4. EXIT SURVEY ANALYSIS

#### 4.1 Key findings

Total 7 students fill the current students' survey and over-all questionnaire analysis is represented in figure 1; which shows that about 51% students are strongly agree or agree (i.e. 10% of students are strongly agree) with advising and support, learning resources and equipment, learning and teaching and learning outcomes. Moreover 31% are neutral and 18% respondents are disagreeing. Figure 2 shows that almost 33 responses of individual questions were strongly agree, 144 agree, 109 neutral and 22 disagree and 42 are strongly disagree.

## Overall Students' Response on Current Students' Survey

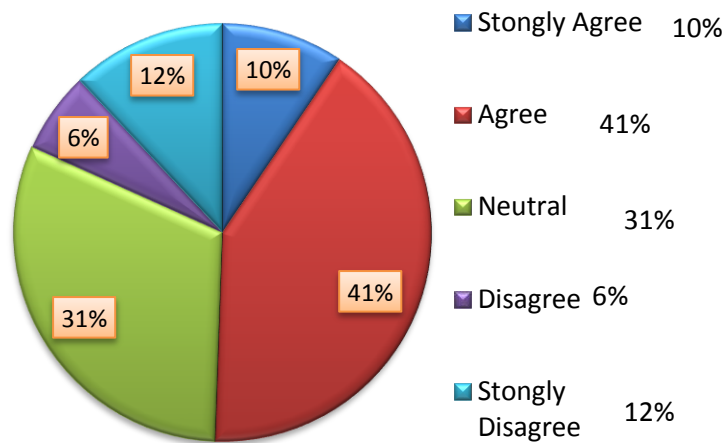


Figure 1: Overall Students' Response on Current Student's Survey

## Students' Response on Current Students Survey

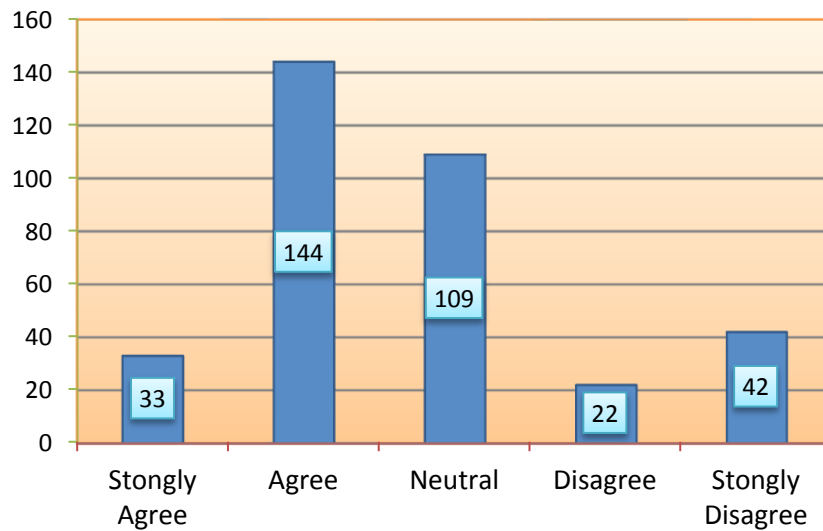


Figure 2: Students' Response on Students' Current Survey