Abdisalam M Issa-Salwe

Abstract— This paper is the result of a survey of 25 Saudi Arabian university's colleges teaching undergraduate programmes in Information Systems (IS). Many of these universities are in the process of making their courses accredited by external creditors, such as ABET. This paper attempts to examine the common characteristics of these ABET accredited-oriented Information Systems (IS) undergraduate programmes. The paper also looks at the common trends in the courses of the Information Systems programmes of these universities. As a result of this analysis, the paper will also briefly explore how Information Systems design in many Saudi Arabian is designed to be more science-oriented than business-oriented programmes because of ABET accreditation influence.

Index Terms—ABET, Computing Accreditation Commission (CAC), Association for Information Systems (AIS), NCAAA, accreditation, information systems, and curriculum.

I. INTRODUCTION

Hshared opinion to ensure competitiveness in an academic form of study is to make sure that their curriculum is up-to-date and sustainable to the shifting environment of commercial enterprise and industry (Gill et al., 1999). Many posit that one path to achieve this end is through a strict external accreditation process (Lending et al., 2010). For the past four years, many Saudi Universities have been aiming to be competitive in the educational market as the country is quickly growing in business and industry. These universities are trying to ensure that their academic programmes are current and relevant. In Saudi Arabia, one way to achieve this goal is through an external accreditation process, which requires evaluation of and improvements to the curriculum (Lending et al., 2010).

In addition to the local National Commission for Academic Accreditation and Assessment (NCAAA), many of the universities surveyed are in the process of attaining ABET accreditation for their 4-year undergraduate computer-related programmes. The primary plans of the accreditations are computer programmes. The bulk of the 19 university college programmes surveyed have Bachelor Computer Science in Information Systems.

II. ACCREDITATION

Academic accreditation is a meticulous process for quality assurance in the education sector and poses challenges to academic institutions. It is a process that helps an educational programme to meet internationally recognised educational programme standards.

Accreditation is also a quality assurance process that leads

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a programme to have accepted standards that can be judged by an accrediting body. In other words, accreditation is meant to "certify that accredited institutes have the systems and procedures to fulfil the objectives of a continuous improvement" (Zammuto, 2008). When the programme fits the criteria required by the accreditation standards, the programme is granted accreditation

The main aim of accreditation is to produce and advance the educational quality of an establishment or a course of study. Accreditation is also a tool that can be utilised to enhance the advancement of the educational infrastructure and professional experience and to facilitate a "national quality assurance system" (quoted in Sundaram Nataraja et al., 2014). Accreditation also ensures that the quality, ethics, and codification of an academic programme follow national and international standards (Stevens, 2000; Szanto, 2005).

The case about continuous improvement is emphasised in the ABET Criterion 4 which emphasises that: "The program must regularly use appropriate, documented processes for assessing and evaluating the extent to which the student outcomes are being attained. The results of these evaluations must be systematically utilized as input for the continuous improvement of the program. Other available information may also be used to assist in the continuous improvement of the program" (ABET, 2015-2016).

The Accreditation Commission (CAC) of ABET accreditation requires some steps that focus on the criteria concerning students and student learning outcomes, educational programme objectives, continuous improvement, faculty, facilities, institutional support, and curriculum. This paper will investigate what type of course programmes the Saudi universities share to respond to the requirements of ABET accreditation.

The reasons for the Saudi Universities to apply for external accreditation include (quoted from Sundaram Nataraja et al., Feb 2014):

- Assuring student learning,
- Making possible the process of continuous improvement of academic programmes and facilities,
- Guaranteeing educational quality,
- Increasing the employability of graduates,
- Enhancing institutional image, identity, and reputation,
- Recognising professional and governmental bodies,
- Giving Saudi students the opportunity to mobilise globally,
- Increasing opportunities for global partnerships

A shared view to guaranteeing competitiveness in an academic programme is to ensure that the curriculum is up to date in the fast-changing world

(Gill et al., 1995; Maier et al., 1996).



To be competitive academically, there must be a strict accreditation process.

III. THE INFLUENCE OF SAUDI ARABIA'S SCIENCE AND TECHNOLOGY NATIONAL POLICY (KACST)

Saudi Arabia's Science and Technology National Policy (KACST) have a positive influence on the general policy of higher education. The policy suggests the adoption of "a comprehensive vision in developing the science, technology and innovation system that leads to the collaboration among the system components, the system coordination of its plans, and closer ties and interaction with the economic, social and cultural activities, through the following policies" (KACST policy). KACST policy includes the development of a modern Saudi Arabia knowledge economy, which is becoming increasingly important in the digital economy. This can be realised to provide learners a good education and prepare them for successful careers and to make a meaningful contribution to society.

IV. SURVEY METHODOLOGY AND DIFFICULTY MET DURING THE SURVEY

A survey was conducted to determine what the Saudi Universities IS programmes share with a typical ABET-accredited Information Systems (IS) undergraduate programmes.

The survey was performed by downloading a list of 56 higher education institutions in Saudi Arabia. The list included universities as well as colleges not under universities. The list was edited to exclude those institutions not under universities, reducing the list to 30 university colleges (listed in Appendix A). Of those 30 remaining universities, it was found that 19 universities have information systems, 6 of which has both CIS/IS and MIS programmes.

The total information systems programmes under these universities total to 25. The remaining 5 of the 30 colleges IS programmes could not be found during the survey.

For convenience, the courses under the computer science colleges are named Computerized Information Systems (CIS) while those under business schools are given as Management Information Systems (MIS).

The resulting list 25 IS programmes under 19 universities became the basis of this survey (see Table 5). In Table 5 the list is divided into two groups: 14 CIS/IS programmes and 11 MIS programmes. Appendix A contains the list of the 30 Saudi Universities surveyed, their locations, the colleges/faculties that hold the programmes, the programme names, and whether they have been accredited or are in the process of accreditation externally or internally. A list of 25 programmes has been found in which 6 universities have both the CIS/IS and MIS colleges.

One difficulty that was met during the survey was obtaining the IS curriculum details from some universities, primarily due to poor accessibility of information. Other universities continuously changed the website information of their programmes.

There are 83 ABET accredited Saudi Arabian university programmes, but there are only 17 computer-related

programmes. In Appendix B is listed 17 of those accredited programmes: Computer Science, Information Systems, Information Technology, Computer Engineering and Software Engineering. Out of the 17 computer-related programmes listed, there are only 3 universities which have ABET Information Systems accreditation. These are King Abdulaziz University, King Faisal University and King Saud University. One reason for the short list of ABET accreditation of computer related programmes is that ABET did not "expand into Information Systems, Information Technology, or Software Engineering disciplines until the last ten years (Babb et al., 2013). ABET requires a series of assessment activities which are the basis of its accreditation. These are done as a loop of activities of assessment and a continuous improvement which "intertwine, inform, and provide feedback between them". (ibid.)

ABET specifies a range of assessment activities which, as is the case with AACSB, sit at the heart of accreditation actions. ABET mentions both an "Assessment" and a "Continuous Improvement" loop of activities which intertwine, inform, and provide feedback between them (ibid.). Programmes that remain in good standing are subject to review and renewal of accreditation every six years.

V. FINDINGS

The finding showed the majority of the listed IS programme plans were clearly influenced by three bodies:

The National Qualifications Framework for Higher Education in the Kingdom of Saudi Arabia by the National Commission for Academic Accreditation & Assessment (NCAAA).

- 1. Curriculum Guidelines for Undergraduate Degree Programs in Information Systems (IS 2010) issued by the Association for Computing Machinery (ACM) and the Association for Information Systems (AIS).
- 2. The Computing Accreditation Commission (CAC-CRITERA2013-2014) of the Accreditation Board for Engineering and Technology (ABET).

Some colleges add to their curriculum development background the reason for their approach to their curriculum development.

The findings show that in the detailed aspect of IS curriculum development, they follow the requirements of ABET, which says that IS programmes should "... combine technical and professional requirements with general education requirements and electives to prepare students for a professional career and further study in the computing discipline associated with the programme, and for functioning in modern society (see Table 2: ABET's General Criteria for Learning). The technical and professional requirements must include at least one year of up-to-date coverage of fundamental and advanced topics in the computing discipline associated with the programme. In addition, the programme must include mathematics appropriate to the discipline beyond the pre-calculus level. For each course in the major required of all students, its content, expected performance

criteria, and place in the overall programme of study must be published" (ABET Computing



Accreditation Commission, 2015).

Table 2: ABET's General Criteria for Learning (ABET 2015-2016)					
Criteria	Description				
Students' Performance	Student performance must be evaluated.				
Programme Educational Objectives	The curriculum must be consistent with the mission of the institution, the needs of the programme's various constituencies, and these criteria				
Student Outcomes	The programme must be documented to prepare the student graduates to attain the programme educational objectives.				
Continuous Improvemen t	The programme must be regularly documented and evaluated as to the extent to which its programme educational objectives and its student outcomes are being attained.				
Faculty	The programme must ensure that each faculty member teaching in the programme has the expertise and the educational background consistent with the contributions to the programme that are expected of the faculty member.				
Facilities	To create a learning environment in which learners can access adequate learning facilities. Classrooms, laboratories, and associated equipment must be adequate to support attainment of the student outcomes and to provide an atmosphere conducive to learning.				
Institutional Support	Institutional support, financial resources, and effective leadership must be adequate to ensure the quality and continuity of the programme throughout the period of accreditation.				
Source: http://www.abet.org/accreditation/accreditation-criteria/ criteria-for-accrediting-computing-programs-2015-2016					

ABET requires student performance to be measurable. To make this possible, the curriculum is required to be coherent with the mission of the educational institution. The programme is needed to be regularly documented and evaluated as to the extent to which its programme educational objectives and its student outcomes are being achieved.

ABET also requires the institutions to have a learning environment in which students can access adequate learning facilities. Classrooms, laboratories, associated equipment and other educational means must be adequate to facilitate an environment that is conducive to learning.

Further down the curriculum plans of these universities follow, ABET (2015-2016) advises the curriculum to provide students an equivalent educational experience that includes: (i) Courses which the fundamentals of application development, such as data management and the role of Information Systems in organizations, (ii) Advanced course work that builds on the fundamental course work to provide depth; and (iii) Quantitative analysis including statistics.

The courses of these colleges are spread into three levels of requirements: university level, college level and department level. The university course requirements are usually general courses and are generally a part of the national culture (e.g., Islamic history), general science (e.g., biology), and other preparatory courses.

The college-required courses are courses that are shared by other programmes, such as Computer Science or Software Engineering. The department-required courses are unique for the department, and they may be college requirements for other programmes (e.g., IS Ethics).

A list has been created under Table 5 which presents Information Systems application domain environment courses offered at Saudi Arabian Universities: these courses include Economy, Business, Management, Marketing, Finance/ Accounting, Organization/ Others.

For convenience the courses under the computer science colleges are named CIS/IS while those under business schools are given as MIS.

The central work of the list of plans looked to identify the capabilities needed by IS graduates. The courses are designed to ensure that overall capabilities are in place and that is based on the knowledge and accomplishments that have been categorised as:

- a. IS-specific Knowledge and Skills,
- b. Foundational Knowledge and Skills, and
- c. Domain Fundamentals.

The research has focused on 25 individual college programmes as mentioned above: 14 of these programmes were CIS/IS under computer science schools while 11 were under business schools (see Table 5). The table shows how CIS/IS and MIS differ in the Information Systems environment courses. While the average Information Systems Environment in the CIS/IS programmes is 9 credit hours (see Table 5), MIS has an average 31. This demonstrates that MIS programmes focus more on business and other IS Information Systems environment courses.

The programmes also include elective courses, which are intended to extend the core courses and to offer new knowledge areas of the curriculum (see Table 5 for a list of typical elective courses found in Saudi Arabia IS Program).

T	Table 3: Typical courses found in Saudi Arabia IS							
	programmes							
1	Foundations of Information Systems							
2	Analysis and Design							
3	Databases Management Systems							
4	Information Technology Infrastructure							
5	Project Management							
6	E-Commerce/ E-Business							
7	7 Ethics & Society							
8								
9	1 2							
10	Web Application							
11	Data Warehouse and Data Mining							
12	Human Computer Interaction							
13	Decision Support Systems							
14	** *							
15	15 Enterprise Architecture							
16	•							
17	Graduation Project							

The elective courses are also considered to be essential building blocks of career tracks.

Ta	Table 4: Typical elective courses found in Saudi Arabia IS						
	programmes						
1	Business Process Management						
2	Information Technology Audit and Controls						
3	Business Process Modelling, Simulation and Design						
4	Information Search, Retrieval & Visualisation						
5	IS Innovation and New Technologies						
6	Knowledge Management Systems						
7	E-Business Technology						
8	ERP Systems						

VI. CURRICULUM DESIGN INFLUENCE

All of the colleges have the core and elective courses commonly found in IS. These courses are also the requirements advised by the Association for Computing Machinery (ACM) and the Association for Information Systems (AIS) in their publication of "IS 2010: Curriculum Guidelines for Undergraduate Degree Programmes in Information Systems" (2010). See Table 3 for the typical courses found in Saudi Arabia IS programmes.

Another influence of curriculum making is ABET directives which require "at least 30 semester-hours of information systems topics; at least 9 semester-ours of quantitative analysis; and at least 30 semester-hours of general education" (ABET, 2013b). It further says that the IS curriculum must include at "least one-half year of coursework that must include a cohesive set of topics that provide an understanding of an environment in which the information systems will be applied professionally" (ibid.). It also defines in the Student Outcomes that the program must help the students to achieve, by the time of graduation": understanding of processes that support the delivery and management of information systems within a specific application environment (2014-2015 Criteria for Accrediting Computing Programs). Some programmes have fewer Information Systems application domain environments (i.e., business, management, etc.). These include King Khalid University. Others have fewer than the recommended domain environment courses (see Table 5).

VII. CONCLUSION

This paper presents the results of a survey of the 25 Saudi Arabian university colleges teaching undergraduate programmes in Information Systems. Many of these universities are striving to have their courses accredited by external creditors, such as ABET. This paper has attempted to determine what characteristics these universities share with ABET-accredited Information Systems (IS) undergraduate programmes. It has also looked at how ABET is influencing Information Systems.. The design of the 25 IS programmes shows a trend for Information Systems to realign more towards science rather than business. This also means that these universities will have a higher probability of receiving ABET accreditation.

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Author Profile

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Academic Publishing.



Т	Table 5: Information Systems application domain environment courses offered at Saudi Arabian Universities									
Num	University	College		Business	Management	Marketing	Finance/Accounting	Organization/Others	CIS	MIS
1	Taibah University —	College of Computer and Information Sciences		3	3		3		9	
	Turbuit Chryotisty	College of Business Administration	6	3	6	6	6	3		30
2	King Saud University—	College of Computer and Information Sciences College of Business	2	3			6	3	14	
		Administration College of Computer Science	6	3	6	3	9			27
3	University of	and Information Technology College of Business	6	6	6		6	6	10	30
		Administration Computer & Information	0	6	0		0	0	6	30
4	King Faisal University	Technology College of Business Administration	8	5	3		12	6		34
	Salman bin	College of Computer Sciences & Information Technology	3	3	3	3	3		15	
5	Abdulaziz University	College of Business Administration	8	12	6	3	6	6		41
6	King Abdul Aziz University	Faculty of Computing and Information Technology		2	2		3	2	9	
	-	Faculty of Business (Rabigh)	6	3	6	3	9	3		30
7	Imam Muhammad bin Saud Islamic University		2	3			3		8	
8	Prince Sultan University	College of Computer & Information Sciences	2	3	3	3	6	2	19	
9	Effat University	College of Engineering			3			3	6	
10	Princess Noura bint Abdul Rahman University	College of Computer Science and Information Science	College of Computer Science 6				9			
11	King Khalid University	College of Computer Science						3	3	
12	Najran University	College of Computer Science and Information Systems			3		3		6	
13	Majmmah University	College of Computer Sciences and Information Technology		3		3	6		12	
14	Jazan University	Faculty of Computer Sciences and Information Systems			3				3	
15	University College of Jubail Prince Mohammad	College of Computer Science & Information Systems	6	3	6	3	7	9		34
16	University Ving February	College of Business Administration	6	3	6	3	9	7		34
17	for Petroleum and Minerals	College of Business Administration	6	6	3	3	9	6		21
18	Qassim University	College of Business Administration	5	6	12		3	5		31
19	University of Hail	College of Business Administration	6	3	12	3	9			33
Average								9	31	
		Number of individual college properties Total IS undergraduate programme Total IS undergraduate pro							14	11
I	Total 18 undergraduate programs									

	Appendix A: Saudi Arabian Universities Offering Information Systems Program								
Num	Universities Name	Main Location	Web address	College Name	Program name	Program title (IS/ CIS/ MIS)	Accreditation (whether internally)		
1	Taibah	Madinah	A-ih-hh	College of Computer Science and Engineering	BSc	IS	Int / Ext in process		
2	University	Madinah	taibahu.edu.sa	College of Business Administration	BSc	MIS	Int / Ext in process		
3	King Saud	Riyadh	ksu.edu.sa	College of Computer and Information Sciences	BSc	IS	Inte/ Ext		
4	University	Riyadh	ksu.edu.sa	College of Business Administration	BSc	MIS	Inte		
5	King Faisal	Al Ahsa	kfu.edu.sa	College of Computer Science and Information Technology	BSc	IS	Int/ Ext		
6	University	Al Ahsa	kfu.edu.sa	College of Business Administration	BSc	MIS	Int		
7	King Abdul Aziz	Jeddah	Iron odu so	Faculty of Computing and Information Technology	BSc	IS	Int / Ext		
8	University	Rabigh	kau.edu.sa	Faculty of Business	BSc	MIS	Int		
9	Prince Sattam	Al Kharj	psau.edu.sa	College of Computer Engineering and Science	BSc	IS	Int / Ext		
10	University	Al Kharj	psau.edu.sa	College of Business Administration	BSc	MIS	Int / Ext		
11	University of	Dammam	uod.edu.sa	College of Computer Science and Information Technology	BS	CIS	Int / Ext in process		
12	Dammam	Dammam	uod.edu.sa	College of Business Administration	BS	MIS	Int		
13	King Fahd University for Petroleum and Minerals	Dhahran	kfupm.edu.sa	College of Industrial Management	BSc	MIS	Int / Ext		
14	Imam Muhammad bin Saud Islamic University	Riyadh	imamu.edu.sa	College of Computer and Information Sciences	BSc	IS	Int		
15	Prince Mohammad University	Riyadh	pmu.edu.sa	College Of Business Administration (COBA)	BSc	MIS	Int / Ext in process		
16	Prince Sultan University	Riyadh	psu.edu.sa	College of Computer & Information Sciences	BSc	IS	Int		
17	Alfaisal University	Riyadh	alfaisal.edu	College of Computer Sciences & Information Technology	BSc	IS	Int / Ext in process		
18	Effat University	Jeddah	effatuniversity.e du.sa	College of Engineering	BSc	IS	Int		
19	Princess Noura bint Abdul Rahman University	Riyadh	pnu.edu.sa	Computer and Information Sciences	BSc	IS	Int		



International Journal of Innovative Science and Modern Engineering (IJISME) ISSN: 2319-6386, Volume-4 Issue-5, May 2016

20	King Khalid University	Abha	cs.kku.edu.sa	College of Computer Science	BSc	IS	In
21	University College of Jubail	Jubail	ucj.edu.sa	College of Business	BSc	MIS	Int / Ext in process
22	Najran University	Najran	portal.nu.edu.sa	College of Computer and Information Systems	BSc	IS	Int
23	Al-Majmmah University	Al Majma'ah	mu.edu.sa	College of Computer and Information Science	BSc	IS	Int
24	Qassim University	Qassim	qu.edu.sa	College of Business Administration & Economics	BSc	MIS	Int / Ext in process
25	Yanbu University College	Yanbu	yuc.edu.sa	Faculty of Computer Science and Engineering	BSc	MIS	Int / Ext (in process
26	Jazan University	Jazan	jazanu.edu.sa	College of Computer Science and Information Systems	BSc	IS	Int / Ext in process
27	University of Hail	Hail	uoh.edu.sa	College of Computer Science and Information Systems	BSc	MIS	Int
28	Prince Sattam bin Abdulaziz University	Al Kharj	psau.edu.sa	Computer Science and Engineering	BSc	IS	Int
29	Northern Borders University	Arar	nbu.edu.sa	Faculty of Computing and Information Technology	BSc	IS	Int
30	University of Tabuk	Tabuk	ut.edu.sa	Faculty of Computers and Information Technology	BSc	IS	Int

	Appendix A: Saudi Arabian Universities Offering Information Systems Program								
Num	Universities Name	Main Location	Web address	College Name	Program name	Program title (IS/ CIS/MIS)	Accreditation (whether internally or externally)		
1	Taibah University	Madinah	taibahu.edu.sa	College of Computer Science & Engineering	BSc	IS	Int / Ext in process		
2		Madinah		College of Business Administration	BSc	MIS	Int / Ext in process		
3	King Saud University	Riyadh	ksu.edu.sa	College of Computer & Information Sciences	BSc	IS	Inte/ Ext		
4	<i>g</i>	Riyadh		College of Business Administration	BSc	MIS	Inte		
5	King Faisal University	Al Ahsa	kfu.edu.sa	College of Computer Science & Information Technology	BSc	IS	Int/ Ext		
6		Al Ahsa	kfu.edu.sa	College of Business Administration	BSc	MIS	Int		
7	King Abdul Aziz University	Jeddah	kau.edu.sa	Faculty of Computing & Information Technology	BSc	IS	Int / Ext		
8	-	Rabigh		Faculty of Business	BSc	MIS	Int		



9	Prince Sattam bin	Al Kharj	psau.edu.sa	College of Computer Engineering & Science	BSc	IS	Int / Ext
10	Abdulaziz University	Al Kharj	· · · · · · · · · · · · · · · · · · ·	College of Business Administration	BSc	MIS	Int / Ext
11	University of Dammam	Dammam	uod.edu.sa	College of Computer Science & Information Technology	BS	CIS	Int / Ext in process
12		Dammam		College of Business Administration	BS	MIS	Int
13	King Fahd University for Petroleum and Minerals	Dhahran	kfupm.edu.sa	College of Industrial Management	BSc	MIS	Int / Ext
14	Imam Muhammad bin Saud Islamic University	Riyadh	imamu.edu.sa	College of Computer & Information Sciences	BSc	IS	Int
15	Prince Mohammad University	Riyadh	pmu.edu.sa	College of Business Administration	BSc	MIS	Int / Ext in process
16	Prince Sultan University	Riyadh	psu.edu.sa	College of Computer & Information Sciences	BSc	IS	Int
17	Alfaisal University	Riyadh	alfaisal.edu	College of Computer Sciences & Information Technology	BSc	IS	Int / Ext in process
18	Effat University	Jeddah	effatuniversity.e du.sa	College of Engineering	BSc	IS	Int
19	Princess Noura bint Abdul Rahman University	Riyadh	pnu.edu.sa	Computer & Information Sciences	BSc	IS	Int
20	King Khalid University	Abha	cs.kku.edu.sa	College of Computer Science	BSc	IS	In
21	University College of Jubail	Jubail	ucj.edu.sa	College of Business	BSc	MIS	Int / Ext in process)
22	Najran University	Najran	portal.nu.edu.sa	College of Computer & Information Systems	BSc	IS	Int
23	Al-Majmmah University	Al Majma'ah	mu.edu.sa	College of Computer & Information Science	BSc	IS	Int
24	Qassim University	Qassim	qu.edu.sa	College of Business Administration & Economics	BSc	MIS	Int / Ext in process
25	Yanbu University College	Yanbu	yuc.edu.sa	Faculty of Computer Science & Engineering	BSc	MIS	Int / Ext (in process
26	Jazan University	Jazan	jazanu.edu.sa	College of Computer Science & Information Systems	BSc	IS	Int / Ext in process
27	University of Hail	Hail	uoh.edu.sa	College of Computer Science & Information Systems	BSc	MIS	Int
28	Prince Sattam bin Abdulaziz University	Al Kharj	psau.edu.sa	Computer Science & Engineering	BSc	IS	Int
29	Northern Borders University	Arar	nbu.edu.sa	Faculty of Computing & Information Technology	BSc	IS	Int
30	University of Tabuk	Tabuk	ut.edu.sa	Faculty of Computers & Information Technology	BSc	IS	Int



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Appendix B: ABET Accredited Programs Saudi Arabian Computer related programmes Source: http://main.abet.org/aps/Accreditedprogramsearch.aspx.						
	School Name	Website	Program and Degree Name			
1	King Abdulaziz University	www.kau.edu.sa/home_english.aspx	Computer Science, BS			
2	King Abdulaziz University	www.kau.edu.sa/home_english.aspx	Information Systems, BS			
3	King Abdulaziz University	www.kau.edu.sa/home_english.aspx	Information Technology, BS			
4	King Fahd University of Petroleum and Minerals	www.kfupm.edu.sa	Computer Engineering, BS			
6	King Fahd University of Petroleum and Minerals	www.kfupm.edu.sa	Computer Science, BS			
7	King Fahd University of Petroleum and Minerals	www.kfupm.edu.sa	Software Engineering, BS			
8	King Faisal University	www.kfu.edu.sa	Information Systems, BS			
9	King Faisal University	www.kfu.edu.sa	Computer Science, BS			
10	King Saud University	www.ksu.edu.sa	Computer Engineering, BS			
11	King Saud University	www.ksu.edu.sa	Computer Science, BS			
12	King Saud University	www.ksu.edu.sa	Information Systems, BS			
13	King Saud University	www.ksu.edu.sa	Information Technology, BS			
14	Taif University	http://www.tu.edu.sa	Computer Engineering, BS			
15	Taif University	http://www.tu.edu.sa	Computer Science, BS			
16	Umm Al-Qura University	www.uqu.edu.sa/english/	Computer Engineering, BS			
17	Umm Al-Qura University	www.uqu.edu.sa/english/	Computer Science, BS			

