بسم الله الرحمن الرحيم

Kingdom of Saudi Arabia
Ministry of Higher education
Majmaah University
College Of Sciences
Department of Mathematics

المملكة العربية السعودية
وزارة التعليم العالي
جامعة المجمعة
كلية العلوم
قسم الرياضيات

Facilities and Equipment

جامعة المجمعة
Majmaah University

2013-1434

Contents

Introduction

There must be adequate facilities and equipment to meet the needs of teaching and learning in the program. It must be followed up over the use of facilities and equipment, and that the assessment is carried on a regular basis for their adequacy through Consultations with faculty, staff and students.

Require you to the following standards to indicate whether the institution in which they operate is committed to good practices listed below, and indicate the quality of this commitment. And as far as possible, must be evaluations are based on evidence and credible evidence, as it should be interpretations Enhanced independent views.

Therefore must post the WFP representatives in planning for the provision of facilities and equipment and maintenance, and to ensure the development of appropriate specifications for the needs of the program. And check the provision of facilities and equipment, and the balance between the needs of the program and policies of the educational institution in order to ensure compatibility of systems and resources available.

We hope the number of reports and ongoing review of the standard to be the seventh facilities and equipment to a high degree of quality, with the use of effective strategies to assess their adequacy to the need of the program, and quality, and related services.

The Mathematics department of Majmaah University provides multiple opportunities for faculty and students to collaborate and discuss research activities. The major research areas are Algebra, Analysis, Algebraic Geometry, Geometry and Topology, Logic, Number Theory, Differential Equations, Rough sets Theory , Functional analysis, Probability and Statistics, Applied Mathematics and Actuarial Science. The Department of Mathematics organizes some weekly seminars which attract researchers from other departments within the campus community. The Mathematics Library at Majmaah University has subject-specific collections.

The Mathematics department of Majmaah University has secretarial support readily available for all faculty members.

The Mathematics department of Majmaah University has approximately 20 Dell workstations in a lab reserved for faculty, graduate students, and undergraduates working on research projects. In addition, faculty members have networked computers in their offices running Windows 7. Similar resources are available on a shared basis in graduate student offices. Technical support for the laboratories and all faculty, staff, and graduate student office machines are provided by three full-time systems administrators and a small staff of hourly assistants.

The human resources of mathematics department

The faculty member is the key element in the learning process. Department of mathematics study materials in other disciplines for example physics, chemistry and computer and others. Mathematics science is source of all other sciences, so the University concerned with picking a qualified faculty member. In the mathematics department of Science faculty in Zulfi city includes faculty members with different specialties for example Professor, Assistant Professor, lecturer, Demonstrator and Scholarship.

In the following we will introduce some stats for faculty staff with a brief biography

Occupation	Number	Non-Saudi	Saudi
Professor	3	3	-
Associate Professor	2	2	
Assistant professor	10	10	-
Lecturer	4	2	2
Demonstrator	3	-	3
Scholarship	4	-	4
Total		17	9

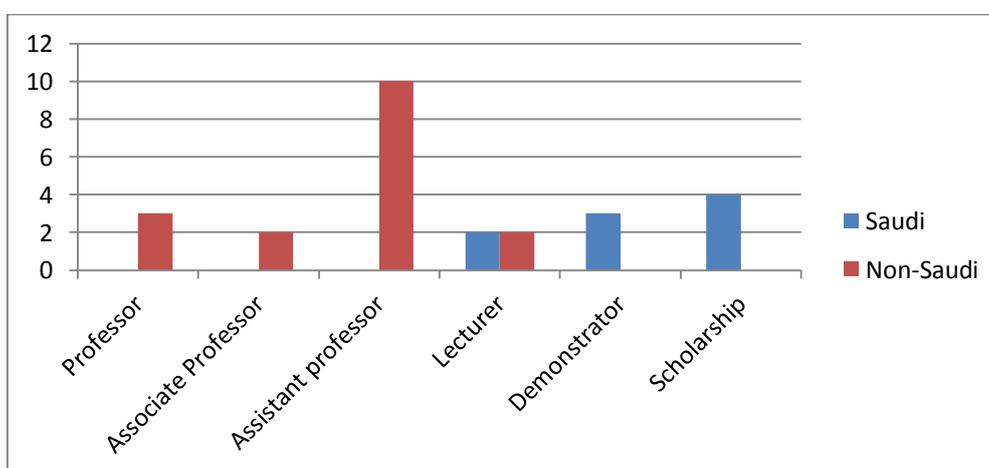Illustration shows the percentage of Saudi to non-Saudis to the functional framework

Illustration shows the overall non-Saudi Arabia
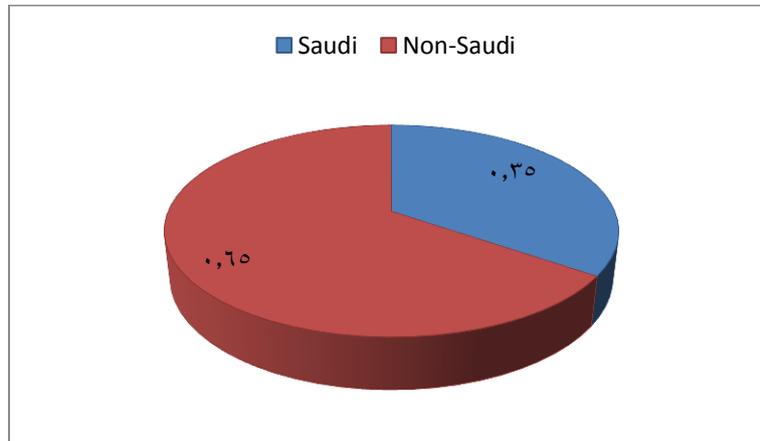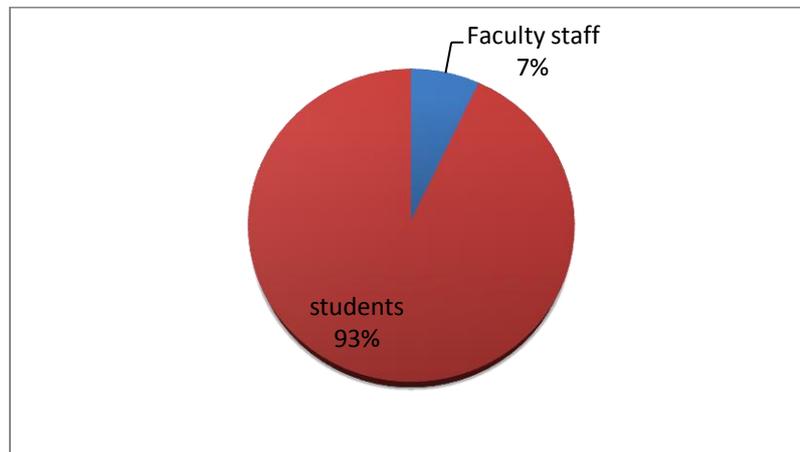
The proportion of non-Saudi Arabia 34.6%

Illustration shows the ratio of faculty staff to students

The Ratio is 1: 14.

Name	E-mail	University graduation
Prof. dr. Adel Mohammad Zaki	adelmzaki@hotmail.com	**Cairo - Egypt**
Prof. dr. Muhammad Abd El- Hakiem Ahmad	Hk_elhakiem@yahoo.com	**Assiut - Egypt**
Prof. dr. Hadi Hussein ben Massoud	hedi_benmessaoud@yahoo.fr	**Tunisia**
Ass. Prof. Mohammed Shahat Saadani	mohasaadani@yahoo.com	**Tanta - Egypt**
Ass. Prof Abdel-Moneim Abdel-Hamid Mujahid	A_megahed10@yahoo.com	**Tanta - Egypt**
Ass. Prof. Khalid Mr. Sweet	drkhaledelhelow@yahoo.com	**Helwan - Egypt**
Ass. Prof Muhammad Ahmad Herzallah	Mohaherz1975@yahoo.com	**Zagazig (Egypt)**
Ass. Prof Rabih Abdul Razzaq kalil	kellilrabah@yahoo.fr	**Nancy France**
Ass. Prof Mohammed Hussein Mohammed Khalaf	Khalfmohammed2003@yahoo.com	**Assiut - Egypt**
Ass. Prof Salah Abdel Nabi Khafaji	s.khafagy @ mu.edu.sa	**Azhar - Cairo**
Kamal Muhammad Nazmi Nimer	Kamal.nazmi @ yahoo.com	**University of Karachi**
Ass. Prof Omar Hassan al-Khalil	_ohassan3366@yahoo.com	**Cairo - Egypt**
Ass. Prof Ahmed Mohammed el- moasry	amoasry@yahoo.com _	**South Valley - Egypt**
Ass. Prof Ahmed Abd allah Mohamed zedan	Ahmedzedan35@yahoo.com	**South Valley + siegen Germany**
Ass. Prof Mohammed Omar Mohammed Mahjoub	m.omar @ mu.edu.sa	**University of Niles - Sudan**
Ass. Prof Mohammed Ahmed Ibrahim Attia	m_ibrahim1971@yahoo.com	**South Valley - Egypt**
Ass. Prof Nasser Abdul Rahman Gharib	a.abdelrahman @ mu.edu.sa	**South Valley - Egypt**
Muqrin ALMUQRIN	mogrin.math @ gmail.com	**University Onong - Australia**
Ahmed Al-Zmami		**El qassiem University**
Maessad El-Rashidy,		**Majmaah University**
Mohammed Goze		**Majmaah University**
Nayef Aboukrnin		**Majmaah University**
Abdulrahman Baddah		**Majmaah University**

Name:	Zaki, Adel Mohamed
Academic rank:	Professor
Specialization:	Mathematics
Interest area:	Functional Analysis and Algebra

1		Name:. Zaki,Adel Mohamed
		Academic rank: Professor
		Specialization: Mathematics
		Interest area: Functiona Analysis and Algebra
2		Name: Abd EL-Hakiem, Mohamed
		Academic rank: Professor.
		Specialization: Mathematics
		Interest area: Fluid Mechanic
3		Name: Ben Messaoud, Hadi, .
		Academic rank: Professor
		Specialization: Mathematics
		Interest area: complex analysis
4		Name: Khafagy, Salah Abdelnaby Elgharieb
		Academic rank: Assistant professor
		Specialization: Pure Mathematics
		Interest area: Functional Analysis
5		Name: El-Saadani, Mohammed El-Shahhat.
		Academic rank: Assistant professor.
		Specialization: Mathematics
		Interest area: Mathematical Statistics

6		Name: El-helow, Khaled.
		Academic rank: Assistant professor
		Specialization: Mathematics
		Interest area: Pure Mathematics
7		Name: Herz Allah, Mohamed.
		Academic rank: Assistant professor
		Specialization: Mathematics
		Interest area: Functional Analysis
8		Name:. Khalf, Mohammed
		Academic rank: Assistant professor
		Specialization: Mathematics
		Interest area: Topology
9		Name: Megahed, Abd EL-Monem
		Academic rank: Assistant professor
		Specialization: Mathematics
		Interest area: Operations Researches
10		Name: Kalil, Rabeh
		Academic rank: Assistant professor
		Specialization: Mathematics
		Interest area:

11		Name: Dr. KHALIL,Omar Hassan
		Academic rank: Assistant professor
		Specialization: Pure Mathematics
		Interest area: Mathematical Analysis
12		Name: Moasry, Ahmed Mohamed.
		Academic rank: Assistant professor
		Specialization: Mathematics
		Interest area: Rough Sets Theory
13		Name: Zedan , Ahmad Abd Allah Mohamed .
		Academic rank: Assistant professor
		Specialization: Mathematics
		Interest area: Topological Rough Sets
14		Name: Attia, Mohamed Ahmed Ibrahim.
		Academic rank: Assistant professor
		Specialization: Mathematics
		Interest area: Numerical Analysis
15		Name: Ghareeb, Abd El-Nasser Abd El-Rahman
		Academic rank: Assistant professor.
		Specialization: Mathematics
		Interest area: Set Theory, General Topology, Fuzzy Topology, Fuzzy Algebra, Applications of Topology

16		Name:. Nazmi, Kamal Nimer
		Academic rank: Lecturer.
		Specialization: Mathematics
		Interest area: Pure Mathematics
17		Name: Mahgoub,Mohammed Omer
		Academic rank: Lecturer
		Specialization:Applied Mathematics
		Interest area: optimal control
18		Name: ALMUQRIN, Muqrin
		Academic rank: Lecture
		Specialization: Mathematics
		Interest area:
19		Name: Al-Zmami, Ahmed.
		Academic rank: Lecture
		Specialization: Mathematics
		Interest area:
20		Name: EL-Gozy, Mohamed
		Academic rank: Demonstrator
		Specialization: Mathematics
		Interest area:

21		Name: El-Rashidy, Maessad
		Academic rank: Demonstrator
		Specialization: Mathematics
		Interest area:
22		Name: Abo Karnein, Naif
		Academic rank: Demonstrator
		Specialization: Mathematics
		Interest area:
23		Name: El_Badah, Abd Rahman
		Academic rank: Demonstrator
		Specialization: Mathematics
		Interest area:
24		Name: Aly, Ziad
		Academic rank: Demonstrator
		Specialization: Mathematics
		Interest area:
25		Name: El-Harby, Sair
		Academic rank: Demonstrator
		Specialization: Mathematics
		Interest area:
26		Name: Naif, Fareeg
		Academic rank: Demonstrator
		Specialization: Mathematics
		Interest area:

Possibilities and equipment of Department of mathematics

The University has established a new building consisting of three floors. The building has good and complete equipment for the education movement. The University's Mathematics Department has allocated a number of diverse faculty rooms; there are single and double rooms with respect faculty staff. Rooms have good ventilation and lighting, cable and wireless NET with good Office furniture. The University also has a number of halls for teaching math program with the participation of other departments in study math courses. The University established the laboratory for computer science with full equipment.

Mathematics department rooms
The College of science is located in a modern three-story building on the main

Campus and mathematics department is located in the third flour; faculty, staff and students enjoy sufficient classroom space and excellent resources conducive to delivering our degree programs.

Mathematics classroom are fully fitted for laboratory-based activities and have internet wireless capabilities and Smart Boards.

Department of mathematics is located on the second floor loft in the middle of the campus. The mathematics department has 15 different room size, distributed as shown in the preceding figure and with the following tables:

The number of	Situation room	Other observations
9	Single	Room size is approximately 2.5 m X3.5 m
5	Double	Room size is approximately 3 m X5 m
1	Single	Chief of section
1	Single	Secretary

Mathematics Department

Faculty Of Science

Majmaah University

Prof. Dr. Zaki

Prof. Dr. M. Abd Elhakem

Secretary

Dr. S. Khafagy

Mathematics Depaetment

Second floor of the main campus building

First Lift

Second Lift

M. Omar

K. Nazmi

Dr. K. Elhelew

Dr. A. Zedan

Dr. A. Moasry

Dr. R. Kalil

Dr. M. Khalaf

Dr. O. Hasan

Dr. M Ibrahim

Dr. A. GHareeb

Dr. M. Saaddni

Dr. A. Megahed Hadi

Prof. Dr. Allah

Dr. Herz
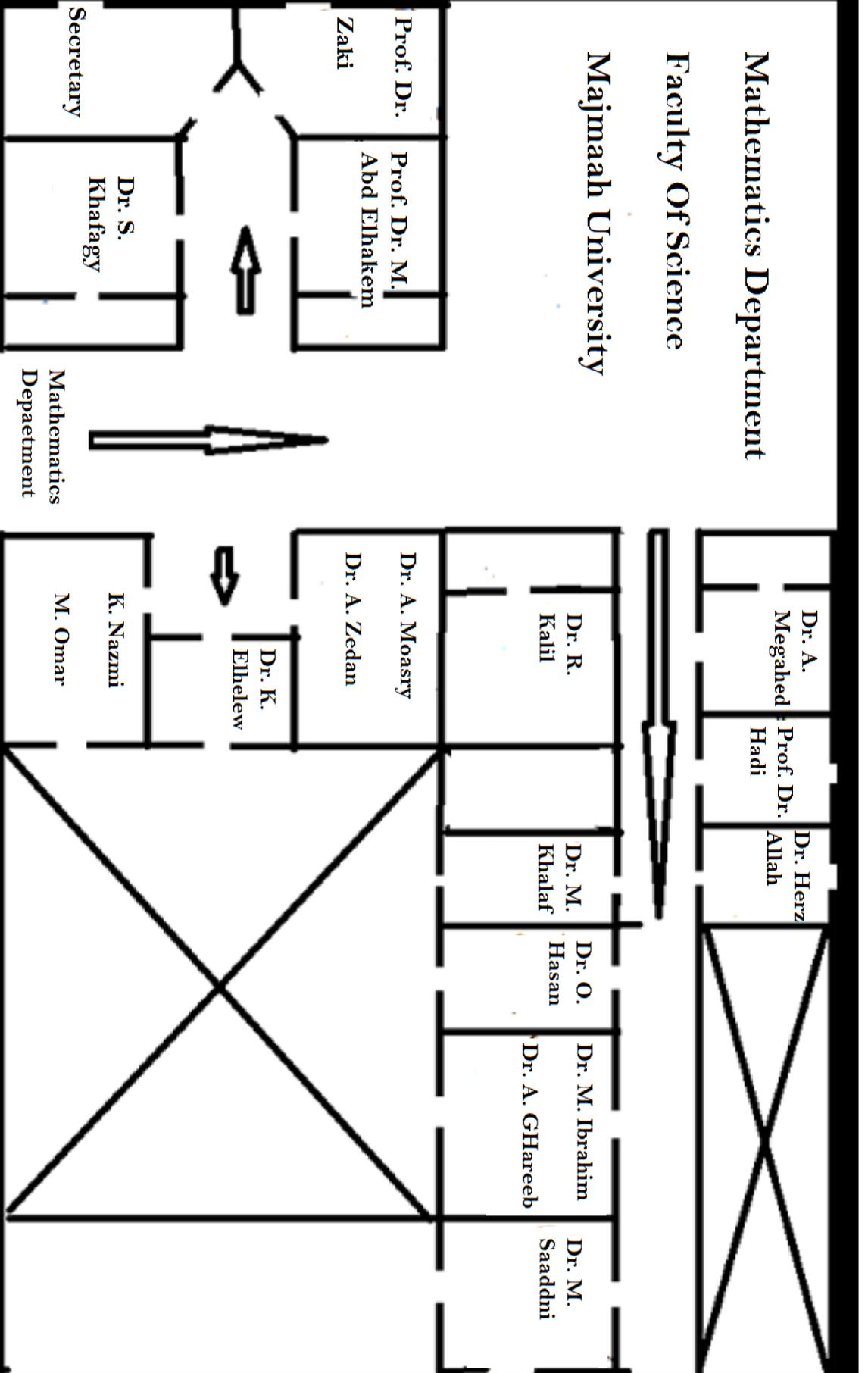
Single Room	The room volume is 2.5 m x 3.5 m approximate

Kind of Equipment	Number of equipment
Printer	1
Mart board tools	1
Laptop	1
Trundle	2
Small table	2
chair	4
Desk	1
Net port	1
Electric port	2
Lamp	6
Computer	1
Telephone	1

Double Room	The room volume is 3 m x 5 m approximate

Kind of Equipment	Number of equipment
Printer	1
Mart board tools	2
Laptop	2
Trundle	4
Small table	4
chair	6
Desk	2
Net port	2
Electric port	4
Lamp	8
Computer	2
Telephone	2

Comment

Faculty staff in the mathematics department is involved in colored printing, machine scanner under the auspices of the Commission on quality section.

Department of mathematics requires the following equipment:

Security & safety Committee in Mathematics Department recommends buying the following equipment:

The number of equipment	The kind of equipment	Description
21	computer	Cables and card and table its
21	Scanner	
15	Pens for normal boards	with accessories
21	Phone line landline	With the device
1	Fax	Put in the Secretary Office
1	Machine Imaging	Put in the Secretary Office
5	A laptop	With the smart Board tools
10	Printing machine	
21	Cartridges for printers	

Teaching rooms for students at mathematics department:

Teaching rooms for students of math program are situated on two floors (the second and the third floor) are 7 different size halls. Each Teaching rooms for students up to 20 or 30 students. Teaching rooms for students are well-lit and ventilated. The Teaching rooms for students are air conditioned central air-conditioning hot/cold.

The teaching rooms for students are M1, M2 and M4 in the third floor and M3, M5 and M6 in the second floor. The computer lab founded in M7 at the third floor.

Teaching rooms	The room volume is 10 m x 15 m approximate	
	Kind of Equipment	Number of equipment
	Smart board tool	1
	Mart board tools	1
	chair	20-30
	Desk	1
	Net port	2
	Electric port	4
	Lamp	18
	Computer	1
	Ordinary boards	1

The second Lift

The Dean Office

The Methematics Staff Offices

The Mathematics Department
Classrooms in the third Flour

M2 Math classroom

M4 Math classroom

M7 Math classroom

M1 Math classroom

The First Lift

The Mathematics Department classrooms in the Second Flour

M3 math Classroom

M5 math Classroom

M6 math Classroom

Comments:

Classrooms should be equipped with a two-way communication system for both informational and emergency use.

Classrooms should be equipped with computers, or conduits and data ports, for future installation.

Cabinets in classrooms should have both open and lockable storage. Wall units should have open shelving for books and door cabinets should also be provided.

For special education classrooms where students are using a wheelchair and/or adaptive equipment, additional square footage should be considered to avoid obstruction while navigating the classroom as independently as possible.

Security & safety Committee in Mathematics Department recommends that provision the following equipment:

1- Ordinary boards in every hall.

2- Monthly maintenance must be done to avoid the crash.

3- Drew Maps of the Department classrooms to easily find and access to faculty rooms and halls.

4- Create a small library includes research projects for students.

5- Provide important books for students of math courses.

6- Work table for project hour's laboratory per week from spotter project hours.

Meeting Room:

Faculty members meet monthly at the mathematics department meeting room to discuss problems facing. Department of mathematics seminar held weekly in all disciplines.

meeting rooms	The room volume is 10 m x 15 m approximate	
	Kind of Equipment	Number of equipment
	Smart board tool	1
	Mart board tools	1
	chair	14
	Desk	1
	Net port	2
	Electric port	4
	Lamp	10
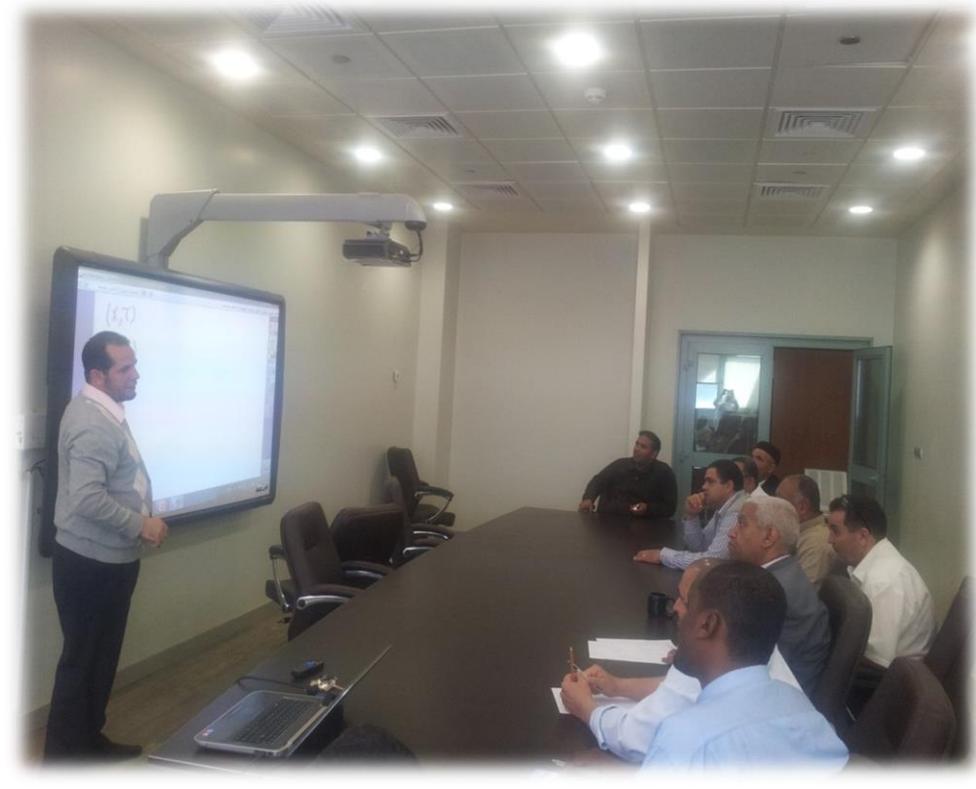
Security & safety Committee in Mathematics Department recommends that provision the following equipment:

- Number 8 Chair.

- Blackboard with supplies.

The library:

A library is a place where there are large numbers of books that are stored on several shelves. Some of the reasons why a library is important for students are it are a treasure-trove of knowledge, it is divided into a number of sections or departments on the basis of certain subjects to learn, and it provides the students a very healthy environment. Another important fact about the importance of libraries for students is that it helps students to keep very good concentration on their studies.

The library is described as the scarcity of books in mathematics and as paper books to understand the scientific article and that it is impossible to rely on electronic sites and e-books so must be pay attention to the library.

Security & safety Committee in Mathematics Department recommends that provision the following equipment:

1- The members of the Department of mathematics writing references and books for them in the teaching curricula and scientific research.

2- The members of the Department of mathematics writing journals of international journals.

3- Copies of the published research of Majmaah University and placed in the University Library.

4- Make copies of the dissertation for the Department and placed in the library.

5- Exchange of published research in the University and its branches.

6- The exchange of master's and doctoral thesis Majmaah University with other universities in the kingdom.

The Mosque:

A mosque is important to Muslims as it is the place they congregate for worship. A mosque is also used by Muslims for dispute settlement and a center for information and education. Mosques are found all over the world and are characterized by elaborate domes and minarets.

The mosque is very important to Muslims because this is their place of worship. It also serves as a center where Muslims come together, exchange information, resolve disputes and also get educated.

A mosque is symbolically important to a Muslim as it is viewed as a humble way for man to recreate pure divine presence on earth. It is the house of prayer in Islam and comes from the common Arabic word, Masjid, which is means place for prostration. Traditionally they were used by the early Muslims for houses of worship and even for other religions.

Other than this, mosques are teaching centers for students learning verses of the Qur'an as well as a community center.
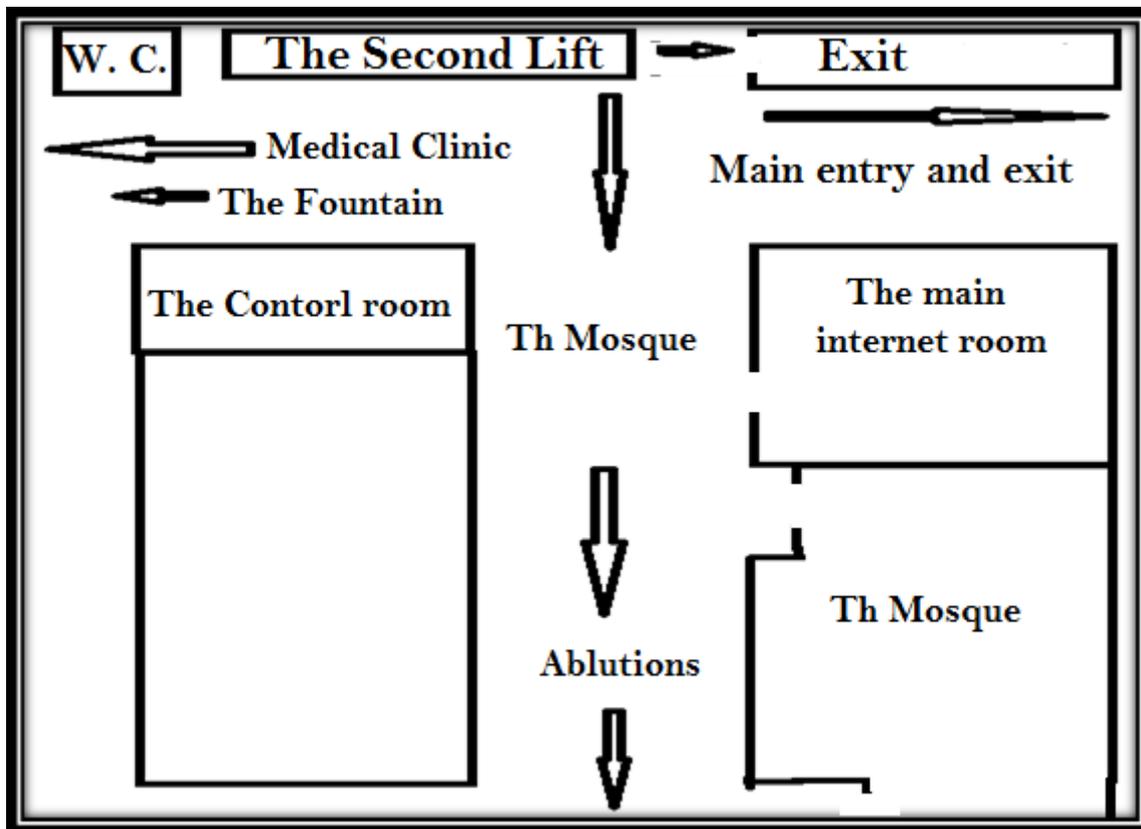
Security & safety Committee in Mathematics Department recommends that provision the following equipment:

1- Clarified mapping to knowing the mosque.

2- Construct Radio electronic ears for prayer.

3- Create a library containing some of the Doctorate Islamic students in scientific disciplines with some magazines.

Samples of Tables
Turn on
Faculty Staff
Mathematics Department

1434-1435 H

Tables Turn on Faculty Staff

Prof. Dr. Adel Mohammed Zaki

Course name	Course code	The number of teaching hours				The total teaching hours	Notes
		Theoretical hours	Training hours	Practical hours	Credit hours		
Introduction to functional analysis	Math 482	3			3	3	
Real analysis (1)	Math 382	3		1	4	4	
Project						3	
				Teaching load For the Member	Credit hours	10 hours	

day	8-10	10-12	12-1	1—3	Notes
Sunday					
Monday	Office Hours	Office Hours	Functional analysis M6		
Tuesday					
Wednesday	Introduction to functional analysis M7	Real analysis (1) M4			
Thursday	Real analysis (1) M4	Office Hours			

Assist. Prof. Ahmad Zedan

Course name	Course code	The number of teaching hours				The total teaching hours	Notes
		Theoretical hours	Training hours	Practical hours	Credit hours		
Linear Algebra	Math242 Mat 242-z	3	1		4	4	
Basic of Mathematics	Math231	2	1		3	3	
Preparatory in mathematics		2			2	2	Group 4
Preparatory in mathematics		2			2	2	Group 8
Preparatory in mathematics		2			2	2	Group 9
				Teaching load For the Member	Credit hours	13 hours	

day	8-10	10-12	12-1	1 — 3	Notes
Sunday	Office Hours			Preparatory in mathematics **Group 8**	
Monday	Preparatory in mathematics **Group 9**	Basic of Mathematics **M3**			
Tuesday					
Wednesday	Office Hours	Linear Algebra **M2**		Preparatory in mathematics **Group 4**	
Thursday	Linear Algebra **M2**	Office Hours			

Lecture Kamal Nazmi

Course name	Course code	The number of teaching hours				The total teaching hours	Notes
		Theoretical hours	Training hours	Practical hours	Credit hours		
Mathematics Economy		3				3	
Calculus-Physics (2)	MATH 201-Z	3			3	3	
Preparatory in mathematics						2	
Preparatory in mathematics						2	
Algebra and geometry						3	
				Teaching load For the Member	Credit hours	13 hours	

day	8-10	10-12	12-1	1 — 3	Notes
Sunday	Office Hours	Algebra and geometry **F90**			Calculus-Physics (2)
Monday	Office Hours	Calculus-Physics (2)	Mathematics Economy **M5**		
Tuesday		Preparatory in mathematics **Group2**		Mathematics Economy **M5**	
Wednesday					
Thursday	Preparatory in mathematics **Group7**	Office Hours		Algebra and geometry **F091**	

Tables
Turn on
Classrooms
Mathematics Department

1434-1435 H

Tables Turn on Classrooms

Mathematics Department – Faculty of Science (EL_Zulfi)   Program(s) in which the course is offered: **BSc degree in Mathematics**
Level/year at which this course is offered: **Third Level – New plan**

day	10 —— 8	12 —— 10	1 ----12	3 — 1	4 -3	6 — 4
Sunday		Communication skills				
Monday	Introduction to geometry	Basic of mathematics		Economic System in Islam		
	Dr. Mohamed Herz Allah M7	Dr. Ahmad Zedan M3				
Tuesday	Introduction to geometry					
	Dr. Mohamed Herz Allah M7					
Wednesday	Calculus (2)	Principles of the distribution theory				
	Dr. Omar Hassen M1	Dr. Ahmed Moasry M3				
Thursday	Principles of the distribution theory	Calculus (2)				
	Dr. Ahmed Moasry M3	Dr. Omar Hassen M3				

Level/year at which this course is offered:		Third Level – New plan	
Course Code	Course Name	Credit Hours	**Pre-requisites**
Slm103	Economic System in Islam	(0+2)2	-
Math202	Calculus (2)	(1+3)4	**Math101**
Stat 202	Principles of the distribution theory	(1+2)3	**Math201+ stat 201**
Math273	Introduction to geometry	(1+2)3	
Math231	Basic of Mathematics	(1+2)3	**Math101**
Dar103	Communication skills	(0+2)2	-
	Total of Credit Hours	**17H**	

Mathematics Department – Faculty of Science (EL_Zulfi)   Program(s) in which the course is offered: **BSc degree in Mathematics**

Level/year at which this course is offered: **Forth Level – New plan**

day	10 —— 8	12 —— 10	1 ----12	3 — 1	4 -3	6 — 4
Sunday		Probability (1)				
		Dr. Ahmed moasry M2				
Monday	Calculus in several variables	Calculus Vectors				
	Prof. Dr. Hadi Messoud M2	Prof. Dr. Mohamed hakiem M2				
Tuesday	Calculus Vectors			Calculus in several variables	Probability (1)	
	Prof. Dr. Mohamed hakiem M2			Prof. Dr. Hadi Messoud M2	Dr. Ahmed moasry M3	
Wednesday		Linear Algebra				
		Dr. Ahmad Zedan M2				
Thursday	Linear Algebra					
	Dr. Ahmad Zedan M2					

Level/year at which this course is offered:		fourth	Level – New plan
Course Code	Course Name	Credit Hours	**Pre-requisites**
Math203	Calculus in several variables	(1+2)3	**Math202**
Math204	Calculus Vectors	(1+2)3	**Math202**
Math242	Linear Algebra	(1+3)4	**Math231**
Stat 203	Probability (1)	(1+2)3	**Stat 202**
	Free course	3	
			-
Total of Credit Hours		**16 H**	

Mathematics Department – Faculty of Science (EL_Zulfi)   Program(s) in which the course is offered: **BSc degree in Mathematics**

Level/year at which this course is offered: **Fifth   Level – New plan**

Today	10 —— 8	12 —— 10	1 ----12	3 — 1	4 -3	6 — 4
Sunday	Introduction in differential equation			Mathematical application on computer		
	Dr. Salah Khafgy M4			Dr. Mohamed Omar M4		
Monday	Numerical analysis	Linear programing				
	Dr. Mohamed ibrahiem M4	Dr, Abd monem Megahed M4				
Tuesday	Numerical analysis			Linear programing		
	Dr. Mohamed ibrahiem M4			Dr, Abd monem Megahed M4		
Wednesday	Introduction in differential equation					
	Dr. Salah Khafgy M4					
Thursday						

Level/year at which this course is offered:		fifth	Level – New plan	
Course Code	Course Name	Credit Hours	**Pre-requisites**	
Math321	Introduction in differential equation	(1+3)4	**Math202**	
Math351	Numerical analysis	(1+3)4	**Math242**	
Oper351	Linear programing	(1+3)4	**Math242**	
Math353	Mathematical application on computer	(1+1)2	**Math203**	
	Free course	3		
			-	
Total of Credit Hours		**17H**		

Mathematics Department – Faculty of Science (EL_Zulfi)   Program(s) in which the course is offered: **BSc degree in Mathematics**

Level/year at which this course is offered: **Sixth Level – New plan**

Today	10 —— 8	12 —— 10	1 ----12	3 — 1	4 -3	6 — 4
Sunday				Group Theory		
				DR. Rabeh Kalil M3		
Monday						
Tuesday	Mathematics methods					
	Dr. Khaled ELHelew M3					
Wednesday		Mathematics methods	Real Analysis(1)		The political system in Islam	
		Dr. Khaled ELHelew M3	Dr. Adel Zaki M4			
Thursday	Real Analysis(1)	Group Theory				
	Dr. Adel Zaki M4	DR. Rabeh Kalil M3				

Level/year at which this course is offered:		sixth	Level – New plan	
Course Code	Course Name	Credit Hours	**Pre-requisites**	
Math326	Mathematics methods	(1+2)3	**Math321**	
Math343	Group Theory	(1+3)4	**Math242**	
Slm 104	The political system in Islam	(0+2)2	**Slm101**	
Math382	Real Analysis(1)	(1+3)4	**Math203**	
––––	Arbitrary Course	(1+2)3	–	
	Total of Credit Hours	**16H**		

Mathematics Department – Faculty of Science (EL_Zulfi)   Program(s) in which the course is offered: **BSc degree in Mathematics**

Level/year at which this course is offered: **Seventh**   **Level – New plan**

Today	10 —— 8	12 —— 10	1 ----12	3 — 1	4 -3	6 — 4
Sunday		Introduction to topology				
		Dr. Mohamed khalef M3				
Monday				Real analysis (2)		MATH 499
				Dr. Mohamed Khalef M6		
Tuesday	Introduction to topology			Rings and fields		
	Dr. Mohamed khalef M3			Dr. Rabeh Kalil M6		
Wednesday						MATH499
Thursday		Real analysis (2)		Rings and fields		
		Dr. Mohamed Khalef M6		Dr. Rabeh Kalil M6		

Level/year at which this course is offered:		seventh	Level – New plan
Course Code	Course Name	Credit Hours	**Pre-requisites**
Math444	Rings and fields	(1+3)4	**Math343**
Math471	Introduction to topology	(1+3)4	**382Math**
499Math	Project	(3+0)3	**Pass 90 unit**
483Math	Real analysis (2)	(1+3)4	**382Math**
–	Arbitrary course - Faculty	3	––––––
Total of Credit Hours		**18 H**	

Mathematics Department – Faculty of Science (EL_Zulfi)   Program(s) in which the course is offered: **BSc degree in Mathematics**

Level/year at which this course is offered: **Eighth Level – New plan**

Today	10 —— 8	12 —— 10	1 ----12	3 —— 1	4 -3	6 — 4
Sunday	Complex analysis					
	Dr. Hadi Messoued M6					
Monday	Introduction in partial analysis	Introduction in differential geometry	Functional analysis			
	Dr. Omar Hassen M6	Dr. Mohamed herz allah M1	Dr. Adel Zaki M6			
Tuesday		Complex analysis				
		Dr. Hadi Messoued M6				
Wednesday	Functional analysis	Introduction in differential geometry				
	Dr. Adel Zaki M7	Dr. Mohamed herz allah M6				
Thursday	Introduction in partial analysis					
	Dr. Omar Hassen M6					

Level/year at which this course is offered:		Eighth	Level – New plan	
Course Code	Course Name	Credit Hours	**Pre-requisites**	
Math422	Introduction in partial analysis	(1+3)4	**Math321**	
Math484	Complex analysis	(1+3)4	**Math382**	
Math472	Introduction in differential geometry	(1+3)4	**Math242**	
––	Arbitrary course – Department	3		
Math482	Functional analysis	(0+3)3	**Math471**	
	Total of Credit Hours	**18 H**		

Mathematics Department – Faculty of Science (EL_Zulfi)   Program(s) in which the course is offered: **BSc degree in Mathematics**
Level/year at which this course is offered: **Free and Arbitrary Courses in Mathematics Program – New plan**

Today	10 —— 8	12 —— 10	1 ----12	3 — 1	4 -3	6 — 4
Sunday		Applied Mathematics M4 - Dr. Mohamed Hakeem				
		Computing Numerical analysis Dr. Mohamed Ibrahim M3				
		Optimization techniques M6 Dr. Abd ELMonem Megahed				
Monday			Mathematical Economics			
			Dr. Kamal Nazmi M5			
Tuesday			Number Theory	Mathematical Economics		
			Dr. Khaled Helow M1	Dr. Kamal Nazmi M5		
Wednesday	Financial Mathematics					
	Dr. Megran M2					
Thursday	Number Theory			Financial Mathematics		
	Dr. Khaled Helow M1			Dr. Megran M3		

Level/year at which this course is offered:			Level – New plan	
Course Code	Course Name	Credit Hours	Pre-requisites	Type
Math243	Number Theory	(1+2)3	Math231	**Free- Arbitrary Department**
	Computing Numerical analysis	(1+2)3	Math231	**Free- Arbitrary Department**
Math411	Applied Mathematics	(1+2)3	Math231	**Free- Arbitrary Department**
Math404	Financial Mathematics	(1+2)3	Math202	**Free- Arbitrary Faculty**
Math402	Mathematical Economics	(1+2)3	Math242	**Free- Arbitrary Faculty**
	Optimization techniques			
	Total of Credit Hours	**15H**		

Faculty of Science Mathematics Department			M1 Classroom					
Today	10 - 8	10-12	1-12	2 - 1	3 - 2	4-3	6 — 4	
Sunday				Data processing and analysis				
				Dr. Mohamed Saadni				
Monday		Introduction to differential geometry						
		Dr. Mohamed Herz allah						
Tuesday		Complex analysis	Number theory					
		Dr. Hadi Mesoud	Dr. Khaled Helew					
Wednesday	Calculus (2)			Prediction Method				
	Dr. Omar Hassen			Dr. Mohamed Saadni				
Thursday	Number theory							
	Dr. Khaled Helew							

Faculty of Science

Mathematics Department

M2 Classroom

Today	10 - 8	10-12		1-12	2 - 1	3 - 2	4-3	6 — 4	
Sunday		Probability (1)							
		Dr. Ahmed Moasry							
Monday	Calculus in several variables		Calculus vectors						
	Dr. Hadi Messoud		Dr. M. Abd Hakeem						
Tuesday	Introduction in topology				Calculus in several variables				
	Dr. M. Khalef				Dr. Hadi Messoud				
Wednesday	Financial Mathematics	Linear algebra							
	Mequran	Dr. Ahmad Zedan							
Thursday		Calculus (2)							
		Dr. Omar Hassen							

Form a plan to improve the standard VII (facilities management and equipment) for the year 1434-1435
Faculty of Science - Zulfi
Program: Bachelor of Mathematics Department: Mathematics
Area of improvement

Initiatives	Activities	The implementation period		Resources required	Performance indicators	Responsibility for implementation		Responsibility for follow-up
		From	To			Basic	Support	
1. - Work to provide the department with the latest equipment, which had to be employees of the program to achieve its objectives.	Provide the Administration with the requirements of the program.	10/10/1434	8/10/1435 H	11 desktop 3 printing machine 6 landline 8 smart Whiteboard tools 1 Copier quality 10 scanner	Provide the required needs.	quality unit	resources and equipment committee	Head of department
2. Prepare a plan, in cooperation with the competent authorities to develop and maintain and preserve the devices department	A Committee of members of the program with a mandate to prepare a plan in cooperation with the competent authorities.	10/10/1434	8/10/1435 H	Provision of spare parts and cables for the smart Board while providing all the necessary teaching resources	A maintenance plan and follow-up, and stick to them.	quality unit	resources and equipment	quality unit
3. Provide Labs and classrooms for all the decisions of the program achieve goals	Raise the request to the competent authorities of these requirements and follow up is	10/10/1434	8/10/1435 H	Following completion of the processing plant for students	Provide Labs and classrooms for all the decisions of the program	quality unit	resources and equipment	quality unit

set equipped.	required.			suffice students associate math program	corresponding to the needs of the program.			
4. Place the maintenance plan and the development of the periodic review and evaluation.	Flexible date for the periodic evaluation of the plan, the end of the semester, for example, and stick to it.	10/10/1434	8/10/1435 H	Provide tools and smart Board cable, and retained when the Secretary of the section to facilitate routine maintenance	Evaluation of total assessment plan	quality unit	resources and equipment	quality unit
5. seek to know the scientific research equipment and facilities and circulated to faculty and students in the program can take advantage of them.	Contact the competent authorities to obtain information.	10/10/1434	8/10/1435 H	Bulletin of the latest computer hardware and software for math courses	Provide this information and take advantage of them.	quality unit	resources and equipment	quality unit
6. To provide effective substantive support to the employees of the program and its students.	Select the technical support at the University and make it available to staff and students	10/10/1434	8/10/1435 e		Measuring the degree of satisfaction of	quality unit	resources and equipment	quality unit
	Provide the competent	10/10/2012	10/8/1434	Effective communicatio		quality unit	resources and	quality unit

	authority with feedback on the performance of the services provided by the technical support department to upgrade their performance.			n after graduation and opened ways for the solution of problems faced by employees of the Department after graduation	beneficiaries of services.		equipment	

Report of the seventh standard improvement plan (facilities management and equipment)

After the inspection and examination of the potential of the department and refer to a plan to improve the Department of

Mathematics of the previous year for the seventh standard (facilities management and equipment)

Summarize what has been done and what needs to be improved from the following tables:

Initiatives	Activities	Saved	Resources required
1. To provide the department with the latest version of equipment that employees of the program to achieve its objectives.	Provide the Administration with the requirements of the program.	4 desktop 5 printing machine (4 normal ink + 1 colors)	11 desktop 3 printing machine 6 landline 8 smart Whiteboard tools 1 Copier quality 10 scanner
2. Prepare a plan, in cooperation with the competent authorities to develop and maintain and preserve the devices section.	A Committee of members of the program with a mandate to prepare a plan in cooperation with the competent authorities.	No cables	Provision of spare parts and cables for smart Board
3. Provide Labs and classrooms for all the decisions of the program achieve goals set equipped.	Raise the request to the competent authorities of these requirements and follow up is required.	It was the beginning of the processing plant for students (under construction)	Processing plant for the students of equal number of students studying mathematics

4. Place the maintenance plan and the development of the periodic review and evaluation.	Flexible date for the periodic evaluation of the plan, the end of the semester, for example, and stick to it.	Maintenance records was created to raise the head section	Provide tools and smart Board cable, and retained when the Secretary of the section to facilitate routine maintenance
5. seek to know the scientific research equipment and facilities and circulated to faculty and students in the program can take advantage of them.	Contact the competent authorities to obtain information.	What was the collection of references to service decisions and reporting quickly provided	Bulletin of the latest computer hardware and software for courses math example c language c and Fortran original
6. to provide effective substantive support to the employees of the program and its students.	Select the technical support at the University and make it available to staff and students and to provide the competent authority with feedback on the performance of the services provided by the technical support department to upgrade their performance.	Alumni were contacted and their contacts	Effective communication after graduation and opened ways for the solution of problems faced by employees of the Department after graduation

Report of Facilities and Equipment (Overall Rating :***)

Adequate facilities and equipment must be available for teaching and learning in the program of mathematics department. It must be followed up over the use of facilities and equipment, and that the assessment is carried on a regular basis for their adequacy through Consultations with faculty, staff and students.

Much of the responsibility for this standard will rest with institutional rather than program administration. However regardless of who is responsible for provision of facilities and equipment their adequacy can have a significant effect on the quality of a program. In this section comment should be made on matters that impact on the quality of delivery of the program regardless of who has responsibility for them. These matters would include, for example, adequacy of classroom availability and maintenance of equipment, maintenance, and technical support for IT equipment in meeting program needs.

Annex Facilities at mathematics department include sufficient space and state-of-the-art technology which allow mathematics department to deliver effective and efficient learning and

a conducive learning environment, while good use of these facilities and equipment enable students to take responsibility for their own learning. The use of these facilities and equipment are assessed regularly in terms of their suitability for all stakeholders, i.e. students, faculty members.

The basic components of this standard are:

- Public policy and planning

- Quality of facilities and equipment and adequacy

- Management and administration of the facilities and devices

- Information Technology

Comments and a general description of good practice

The facilities must provide consistently healthy environment, safe, and attractive, students, and faculty members, and all those involved in the educational institution, and must conform to the terms of the normal planning and construction, and the requirements of the teaching and learning of high quality.

Relay educational institution use the facilities, and there have procedures to ensure conversion utilities to use a few for other purposes after doing the necessary arrangements for the protection of valuable equipment and easy disrepair.

In programs that require laboratories or technical equipment including computing facilities must be what provides effective maintenance and include regular maintenance scheduled. And there must be a technical support is available with the possibility of immediate response in case of equipment breakdown.

It must provide the classroom needs of all media to help provide effective learning with appropriate technical support.

Evidence and performance indicators Can be obtained to provide evidence of the quality of the facilities, equipment, software and documentation of the planning process, the polls for user satisfaction, and the availability of equipment compared with other educational institutions offering similar programs, as well as through direct observations by the evaluator.

And provide assessments of the status of equipment and maintenance schedules information about the quality and maintenance of the facilities and infrastructure. Regulations and codes of conduct for the use of facilities and equipment are expensive evidence on the quality of management practices such facilities and equipment, and security arrangements. Performance indicators, inter alia degrees polls for user satisfaction, and available statistics on crashes devices, compared to the

availability of equipment in the educational institution to those found in other similar institutions.

Report on subsections of the standard:

Policy and Planning

Representatives participate in the program planning process for the provision of facilities and equipment and maintenance, and to ensure the development of appropriate specifications for the needs of the program. And check the provision of facilities and equipment balance between the needs of the program and policies of the educational institution in order to ensure compatibility of systems and resources available.

Optimization

The university Provided to our department number of laptops and became e very faculty member in our department has a laptop computer, in addition to providing a number of desktop computers to ensure work continuity so they can avoid some of the faults.

The mathematics department council had been consulted the faculty members in the purchase of books approved the teaching program and then compile (tell) all the books to be submitted to the Dean of the College to be provided, taking into account that all the books from the beginning of 2010

Make copies of the records of maintenance facilities for faculty members to avoid faults, and for the continuity of the quality of teaching.

Committee's recommendation

Should be consult with faculty members in the equipment before buying the facilities and equipment's a serious consult and make a timetable for procurement processes and equipment, and be clear to the members of the faculty section.

Must be replace laptops every 5 years until cope with modern software specifications on the difficult that require special drivers for the Department of Mathematics program.

Provide a sufficient number of important equipment to ensure quality example of this photocopiers and scanners, and regular printing machines and colorful printers.

Quality of and Adequacy of Facilities

Must be facilities and equipment have a high degree of quality, with the use of effective strategies to assess the adequacy of the need for the program, and quality, and related services.

Optimization

The Committee of the Security and Safety unit in mathematics department constructed the full inventory of the contents of the department of the equipment and facilities belonging to faculty members, students and workers building new administration, which moved him the beginning of the academic year 1432 - 1433 H and construct illustrative maps for faculty offices , classrooms for the department , the library public and the mosque to facilitate access to them.

Created computer lab was for the students in the mathematics program and prepares a place for students to receive counseling from the privacy of faculty as well as the offices of the department faculty members.

Committee's recommendation

Must be continue the operations of Feedback To assess the quality of the user bases on the adequacy of facilities and quality and in addition specific mechanisms to deal with these views and respond to them.

Must be continuing the operations improved facilities for students, staff and faculty members with physical disabilities.

The following table demonstrates side of the main learning facilities in the Department of mathematics:

Class rooms	Computer lab	Video conference room
*7	1	1

*7 of them are equipped with smart boards.

Besides that, each faculty member has a special office equipped with a PC with required software.

Figures G7.1 and G7.2 shows the overall evaluation of the member's faculty to the quality and adequacy of the classrooms facilities at mathematics department in Majmaah University and KSU University and its tables.

Strongly agree	Agree	True to some extent	Disagree	Strongly Disagree
27	44	23	4	2
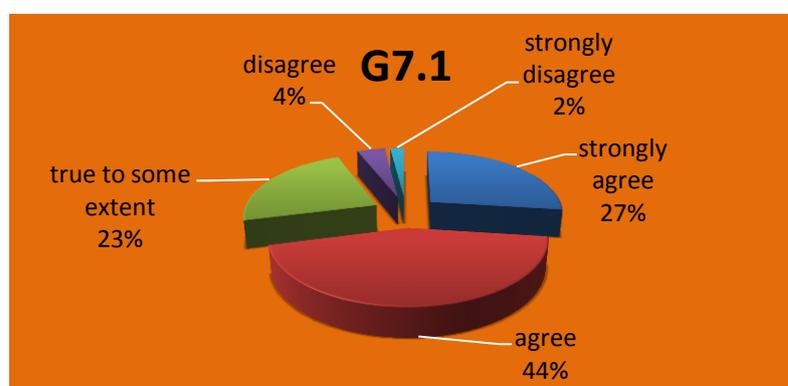
Strongly agree	Agree	True to some extent	Disagree	Strongly Disagree
10	19	48	13	10

G7.2

- strongly disagree 10%
- strongly agree 10%
- agree 19%
- disagree 13%
- true to some extent
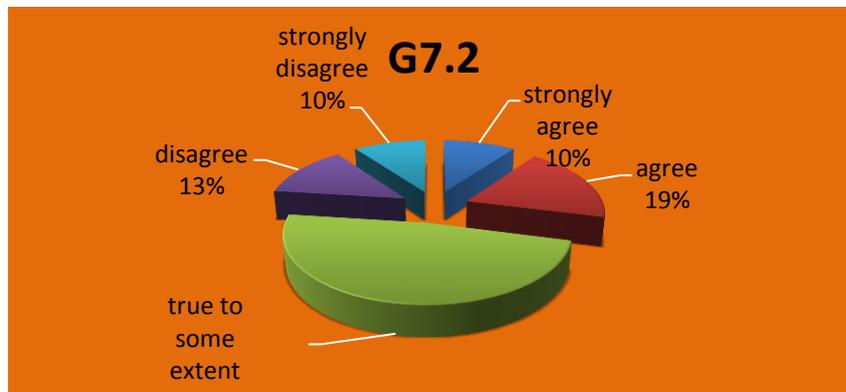
As part of the Questionnaire for faculty's assessment for the College Readiness for the first semester of the academic year 1434/1435H of faculty assured that the classrooms and laboratories they use were ready.

Safety requirements

1- The Department of Safety and Security in the University provides security systems and   guards to secure the facilities, Cameras are available thought the facilities with 24 hours   monitoring.
2- Fire evacuation policy and fire drills are practiced in all places.
3- First aid kits are available in all faculties.
4- Also, the College has emergency plans, safety signs, emergency exit signs and laboratory   safety manuals.

Management and Administration

Management must be facilities and equipment and support services to ensure efficient and effective use of the facilities available.

All equipment's in the Department as well as those with the faculty members are recorded in lists in the main store in the university.

The maintenance of this equipment's is available through the main workshop in the University as well as through the workshop in the College. Equipment's which are out of service can be replaced according to the University regulations.

Security systems are in available to protect privacy of sensitive personal and institutional information against electronic threats. Also, the security of the equipment's is monitored electronically as well as through the security men available 24 hours on all exit gates in the buildings of the College.

Cleaning services for the infrastructure in the Department as well as get rid of the wastes are available and effective.

Optimization

The college staff completes lists of equipment for the department with the provision of cleaning and waste disposal adequate and effective.

The department committee construct a tabulator Procedures for Utility Regulation few special department to cope with what the department to serve most of the scientific departments in the branch and the university.

Committee's recommendation

Must be following a specific procedures and accurate to assess the state of equipment on a regular basis with the provision of the actual maintenance branch with the possibility of substitution in the case of strong breakdown.

The main equipment's needed for the research purposes for faculty members in the Department of mathematics are PC computers, which are available for all faculty members in their offices, and uploaded with required software and connected to internet points.

Also, these requirements are available in the computer labs in the Department.

Information Technology

Must be computers, software and related support services is suitable for the program, and managed so as to ensure optimal use, effective and safe to them.

IT department was an area of improvement in the past so it is one of the priorities of the strategic plan. Working in accordance with the Strategic Plan, significant additions and enhancements

Were successfully implemented like:

1) Installed the latest hardware

2) Network infrastructure

3) Internet bandwidth expanded and services upgraded

4) An upgrade to smart classrooms throughout the University

Each faculty members is provided with a laptop computer and a college wide wireless internet service is provided. Technical Support is provided around the clock. Security systems are in place to protect privacy of sensitive personal and institutional information and to protect against externally introduced viruses.

Optimization

College provides all faculty members with portable computing devices provide some special services smart boards.

Collage Created computer lab to a special section so that all the students of the program to associate the use of automated ancestry and Inter Net.

The college provided for each faculty member port has its own Internet quickly satisfactory.

The mathematics department organizes some technical workshops among faculty members teaching and scientific research How to use some of the sites to improve e-learning.

Committee's recommendation

Must be available Opportunities for faculty to present their views regarding the plans for the purchase, maintenance and replacement of equipment and software in the enterprise.

Evaluation of facilities and equipment for the program

1- Computer labs are equipped with computers and software .

2- Classrooms equipped with both blackboards and smart boards.

3- Existence of Video conference rooms.

4- Existence of information security systems against electronic threats.