Kingdom of Saudi Arabia
Jouf University
College of Science
Department of Mathematics

المملكة العربية السعودية
جامعة الجوف
كلية العلوم
رمزه (51/9/44)
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Program Manual

DEPARTMENT OF MATHEMATICS

Bachelor in Mathematics Program

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Program establishment

The Department of Mathematics is one of the departments in the College of Science. The Department was established in 1423 H (2002), since then, it has grown both in reputation and stature, upholding the college's traditions, mission and vision. The department includes many faculty members of various scientific ranks (professor, associate professor and assistant professor) and they are assisted by lecturers, teaching assistants. The department, through its various programs, offers many courses in pure mathematics, applied mathematics and statistics. The student gets a bachelor degree in mathematics after successfully passing 134 credit hours. The department contributes to providing the labor market with qualified graduates to work in many sectors in the Saudi society.

Program mission

Providing knowledge and skills in the field of mathematics and its applications to achieve educational research, and community outcomes through a suitable study plan, qualified faculty members, and a stimulating scientific environment.

Program objectives

▪ To apply quality standards to the Bachelor of Mathematics to align its graduates with the labor market ongoing needs.

▪ To develop a suitable study plan that contributes to enhance skills of graduates in critical thinking, problem solving, and decision making.

▪ To qualify faculty members and to train students to use software packages in a stimulating scientific environment.

▪ To provide scientific research outputs in the field of mathematics and its applications and to improve the research skills of the program students.

▪ Providing community initiatives and partnerships in cooperation with those interested in the field of mathematics and its applications.

Graduate attributes

By the end of the program, a graduate will have the ability to:

▪ Apply mathematical knowledge in real-life situations.

▪ Master critical thinking, problem-solving, and decision making.

▪ Communicate effectively.

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- Master technology and digital skills.

- Master teamwork, and take responsibility.

- Have self-management, reliability, and punctuality.

- Commitment to ethical and professional standards.

Program learning outcomes

By the end of the program, student will be able to

- Demonstrate knowledge of basic concepts in pure and applied mathematics and statistics.

- Explain mathematical ideas and techniques within a certain topic in mathematics.

- Apply knowledge to verify axioms, solve broadly defined, complex, unanticipated problems, and produce corrected proofs.

- Analyze problems based on critical thinking to find connections and derive correct conclusions.

- Evaluate solutions based on reasoning, computational tools, and appropriate mathematical or statistical software to make correct decisions.

- Communicate effectively with a range of audiences.

- Perform work effectively, and responsibly to establish goals, plan tasks, and meet deadlines as part of a team and as a team leader.

- Evaluate Life-long learning and self-learning skills.

- Discuss ethical and professional responsibilities in mathematics situations by focusing on ethics guide lines from the AMS and Saudi Association for Mathematical Sciences.

Domains of the program learning outcomes			
PLOs	**Knowledge and Understanding**	**Skills**	**Values**
PLO1: Demonstrate knowledge of basic concepts in pure and applied mathematics and statistics.	✓		
PLO2: Explain mathematical ideas and techniques within a certain topic in mathematics.	✓		
PLO3: Apply knowledge to verify axioms, solve broadly defined, complex, unanticipated problems, and produce corrected proofs.		✓	
PLO4: Analyze problems based on critical thinking to find connections and derive correct conclusions.		✓	

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PLO5: Evaluate solutions based on reasoning, computational tools, and appropriate mathematical or statistical software to make correct decisions.		✓	
PLO6: Communicate effectively with a range of audiences.		✓	
PLO7: Perform work effectively, and responsibly to establish goals, plan tasks, and meet deadlines as part of a team and as a team leader.			✓
PLO8: Evaluate Life-long learning and self-learning skills.			✓
PLO9: Discuss ethical and professional responsibilities in mathematics situations.			✓

Professional occupations/jobs

By the end of the program, students will be prepared for the following professions and occupations:

1. Faculties and Universities in KSA (Lecturers, Tutors, Employees).

2. Research and IT Centers (Researchers – Data analytic).

3. Economic Sectors (Data analytic, Strategic planning, Administrations) such as ARAMCO, SABIC.

4. General and private sectors that require mathematical skills, such as:

   ▪ Ministry of Education.

   ▪ Ministry of Finance,

   ▪ General Organization for Social Insurance,

   ▪ The Central Department of Statistics and Information,

   ▪ Banks.

Bachelor's program admission criteria

Applicants seeking for registration in mathematics program must meet the entry requirements as per admission guidelines on the website set by the College of Science and the Deanship of Admission and Registration at the Jouf university. Applicants can apply electronically through electronic portal for admission announced on the official website.

Official websites:

Website of the Deanship of Admission and Registration

Electronic manual for the Deanship of Admission and Registration

The admission criteria can be summarized as below.

FIRST: The Department Council determines the number of students to be admitted in the upcoming academic year according to the available capabilities.

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SECOND: The following prerequisites must be met before prospective students can be admitted.

▪ The applicant must hold the General Secondary Certificate or its equivalent from inside or outside Saudi Arabia.

▪ The General Secondary Certificate or its equivalent must have been obtained within the last five years (Exceptions can only be decided by the University Council in light of persuasive reasons)

▪ The applicant must be of good moral character.

▪ The applicant must pass any interviews or tests decided by the Department Council .

▪ The applicant must be medically fit.

▪ The applicant must obtain an approval to the study from his /her employer if he/she works in any government or private institution.

▪ The applicant must meet any other conditions determined and announced by the University Council at the time of application.

Third: Admitted students are chosen from among candidates who meet all entrance standards based on their grades in the general secondary certificate, personal interviews, and admission tests. (if any).

Admission criteria for International students

Jouf University's admission requirements for international students are listed below.

▪ The applicant must hold the General Secondary Certificate or its equivalent from inside or outside Saudi Arabia.

▪ The General Secondary Certificate or its equivalent must have been obtained within the last five years.

▪ The age of the applicant should not be less than17 years and not more than 25 years.

▪ The applicant must have passed the National Center for Capacity Assessment test for internal scholarships (achievement for scientific faculties).

▪ The applicant must have a valid legal residence (for internal scholarships)

▪ The applicant must pass any interviews or tests decided by the Department Council.

▪ The applicant has never been admitted as a scholarship student at Jouf university or any other Saudi Arabian educational institution.

▪ The student should not be expelled from Jouf University or any other university for disciplinary reasons

▪ The applicant must meet any other conditions determined and announced by the University Council at the time of application.

▪ If the applicant works in any government or private institution, he / she must acquire permission from

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his / her employer to study.

Admission criteria for students with special needs

Students with special needs who are eligible for aptitude and achievement tests are accepted, except for students with visual impairment, based on the decision of the Director of the National Center for Measurement and Evaluation in Higher Education No. 575/A on 22/12/1431 AH. Additional conditions for the admission of students with special needs are determined by the department.

Student registration in the program

First: Early registration

The early registration process can be carried out in accordance with the mechanism established by the Deanship of Admission and Registration in collaboration with the colleges.

Second: Formal registration

▪ The student is allowed to register or drop the courses he/she wishes to study as follows:

A. He/she can register the courses he / she wishes to study one week before the beginning of the semester and before the end the first week of the semester

B. He/she can drop courses that he does not want to study during the period specified by the university calendar.

C. The registration must not exceed the maximum limit of the academic load and not less than the minimum limit as mentioned below in this rule.

▪ The registration process of a student's courses is done after consultation with his/her academic advisor, where the student is responsible about any failure or errors resulted from his/her ignorance of instructions

▪ The student him/herself must carry out the registration process ,and he/she is not entitled to appoint a representative on his behalf at all.

▪ The registration process can be done automatically to certain college students or students of a certain level if necessary

▪ In case a student does not register any course during the regular registration period ,he/she is considered as a discontinued student.

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Third: Registration approval

▪ In the case of automatic registration, the student must approve his/her schedule in his/her personal profile on the University system during the deletion and addition period

▪ The student is suspended from the study and described in the computer system as" discontinued due to non-registration "if he did not approve his/her schedule during the deletion and addition period.

Fourth: Study load

The study load is the total number of hours (units) of the courses registered by the student in the semester, and determined according to the following rules:

▪ Minimum Limit: The minimum course load is 12 credit hours per semester and one credit hour per summer semester.

▪ Maximum limit: The maximum course load is 20 credit hours per semester and 10 credit hours per summer semester.

A. A student who has been warned academically is not entitled to increase his/her study load over 14 hours.

B. A student who gets a pass grade is not entitled to increase his/her study load over 16 hours

C. A student who gets a good grade is not entitled to increase his/her study load over 18 hours.

D. Graduate students are allowed to exceed the maximum limit with no more than 24 credit hours in the semester and 12 credit hours in the summer semester.

Fifth: Academic warning

A Student is given an academic warning if his/her cumulative GPA is less than 2.0 out of 5.0

Student transferring

Accepting transferring students may be done from outside Jouf University according to the following controls:

▪ The student must have studied at a college or university recognized by the Ministry of Higher Education for at least one semester.

▪ The student should not fail the GPA.

▪ He should not be dismissed from the university from which he was transferred for disciplinary reasons.

▪ The transfer should not be from an academic degree to a higher degree.

▪ The number of prescribed units that the transferred student is required to study at Jouf University must

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not be less than(60%) of the number of prescribed units required to obtain a bachelor's degree from the university.

▪ The sum of the period the student spent in the university from which he is transferred and the remaining period at Jouf University should not exceed the average period between the minimum and maximum stay in the college.

▪ The student must meet the requirements for admission to the department.

▪ The student's GPA is not less than (2.75) out of (5).

▪ The transfer procedures are completed before the end of the first week of the beginning of the semester , and if this period is exceeded ,the transfer shall be for the next semester.

▪ The transfer movement will be recorded in the student's academic record.

▪ The transferred student is equivalent to no more than (40%) of the approved study plan hours for the Department of mathematics

▪ The grades obtained by the student in the courses referred to him are not included in the calculation of his cumulative GPA.

▪ The equivalent Course Grade is not less than" good "and is equivalent in the number of units.

▪ The content of the course to be equated must not be less than (70%) of the course content in the mathematics Department.

▪ If, it is discovered after the student's transfer that he was previously dismissed for disciplinary reasons , his registration shall be considered cancelled from the date of acceptance of his transfer to the university.

Transferring the student to another college within the university shall be according to the following controls:

▪ The student should not have spent more than four semesters, provided that preparatory program semesters are not counted.

▪ The transfer procedures end during the first week of the semester ,and if the procedures exceed this period ,the transfer is for the next semester .The student is not transferred until at least one semester has passed in the college from which he is transferred.

▪ A student is allowed to transfer once during his university studies or twice if one of them is the preparatory year.

▪ A student who is transferred to the preparatory year is returned to his previous section in the event that

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he did not pass it ,and that is only once.

▪ The academic record of the student transferred from one college to another shall be recorded for all the subjects he previously studied ,including grades ,semester and cumulative averages throughout his studies at the university.

Transferring from one major to another within the college:

▪ When transferring from one department to another within the college ,the controls mentioned in the executive rule for transferring the student to another college within the university are taken into consideration.

▪ Approval of the department to which he is transferred.

▪ The academic record of the student transferred from one major to the last shall be recorded in all the subjects he previously studied ,including the semester and cumulative grades and averages throughout his studies at the university

Visiting student

First: For a student of the mathematics department at Jouf University who wishes to study as a visitor at another university or college:

▪ The student must have an academic record) GPA (for at least one semester at the university prior to his request to study as a visiting student.

▪ The student must obtain prior approval from the student's college to allow him to study as a visiting student with specifying the courses that he will study ,and the college may require obtaining a certain rate to equalize the course ,and it is directed to study by an official letter from the Deanship of Admission and Registration.

▪ The study must be in a recognized college or university.

▪ The course that the student will study outside the university is equivalent or (equivalent) by not less than70% in its vocabulary and its academic units are not less than one of the courses included in the graduation requirements.

▪ The maximum number of units of study that can be calculated from outside the university as a visiting student is (20%) of the total units of graduation from Jouf University.

▪ The averages of the courses that are equivalent to the visiting student at another university are not calculated in his cumulative GPA ,and the courses are recorded in his academic record.

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▪ The student must provide the Deanship of Admission and Registration with his results obtained within a week of starting the study in the first semester following the period of his studies as a visitor ,and if he does not submit his results ,he is considered cut off from those semesters (except for the summer semesters)

▪ The maximum number of semesters that a student is allowed to study as a visitor is two semesters

Second: For a student of another university and wants to study as a visiting student. In the mathematics department, Jouf university:

▪ To obtain prior written approval from his university to study a visiting student at Jouf University, and he must mention in the letter the decisions of the mathematics Department of Jouf University that the student will study.

▪ To obtain the approval of the mathematics Department.

▪ The courses for the student are registered by the competent authority, taking into account all the registration controls in the courses.

▪ At the end of his studies, the student is provided with a letter explaining the results of the courses he studied.

System of study

In order to be granted a Bachelor of Science Program in Mathematics, it is necessary for the student to successfully complete 134 credit units distributed as follows:

▪ Total University Requirements = 23 Credit Hours

▪ Total College Requirements = 19 Credit Hours

▪ Total Department Requirements = 92 Credit Hours

Duration of Study

In order to be granted a Bachelor of Science Program in Mathematics, it is necessary for the student to complete 134 credit units distributed in 8 semesters. The student must undertake a senior project in the final year of his studies.

Curriculum structure

The student must complete 134 credit hours with an overall GPA of at least 2.0 out of 5 to be awarded a Bachelor of Science degree in Mathematics. The student must take a graduation project in the final year. The credit hours distributed in 8 semesters as shown in table below.

Bachelor in MTH curriculum structure				
Program Structure	Required/ Elective	No. of courses	Credit Hours	Percentage

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Institution Requirements	Required	8	19	14.5 %
	Elective	5 (Student chooses 2 courses)	4	3%
College Requirements	Required	6	19	14.5 %
	Elective	0	0	0%
Program Requirements	Required	25	74	55%
	Elective	9 (Student chooses 5 courses)	15	11%
Capstone Course/Project	Required	1	3	2%
Total		**54**	**134**	**100%**

Course coding

Each course has a code which includes (3 letters) and (3 digits) as detailed in the table below.

Course codes (Alphabetic)

Code	Course Group
ARB	Arabic Language
BUS	Business Administration
CHM	Chemistry
CIS	Computer & Information Systems
EDU	Education
ENGL	English Language
ISL	Islamic Culture
MTH	Mathematics, Statistics
PHS	Physics
BIO	Principles of Biology

Program study plan

Study Plan for the bachelor program in mathematics are distributed through 8 levels as mentioned in the table below.

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
Level 1	ENGL103	English Language (1)	Required	--	3(2,0,2)	Institution
	MTH 101	Introductory Mathematics	Required	--	3(2,0,2)	College
	BIO 101	Principles of Biology	Required	--	3(2,2,0)	College
	ISL 101	Fundamentals of Islamic Culture	Required	--	2(2,0,0)	Institution

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Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
	CIS 101	Computer Skills	Required	--	3(2,2,0)	Institution
	EDU 101	University Life Skills	Required	--	2(2,0,0)	Institution
Level 2	ENGL104	English Language (2)	Required	ENGL 103	3(2,0,2)	Institution
	PHS 101	General Physics (1)	Required	--	4(3,2,0)	College
	MTH 102	Differential Calculus	Required	MTH 101	3(2,0,2)	College
	CHM 101	General Chemistry (1)	Required	--	4(3,2,0)	College
	ARB 100	Arabic Language Skills	Required	--	2(2,0,0)	Institution
	ISL 100	Studies in the Biography of the Prophet	Required	--	2(2,0,0)	Institution
Level 3	MTH 203	Integral Calculus	Required	MTH 102	3(2,0,2)	Department
	MTH 231	Basics of Mathematics	Required	MTH 102	3(2,0,2)	Department
	MTH 271	General Statistics	Required	MTH 101	2(1,0,2)	College
	MTH 221	Mathematical Softwares	Required	CIS 101	3(2,2,0)	Department
	ARB102	Writing Skills	Required	ARB 100	2(2,0,0)	Institution
	ISL XXX	University Elective Course	Elective	--	2(2,0,0)	Institution
Level 4	MTH 204	Advanced Calculus	Required	MTH 203	3(2,0,2)	Department
	MTH 211	Real Analysis (1)	Required	MTH 203&MTH231	3(2,0,2)	Department
	MTH 241	Linear Algebra	Required	MTH 231	3(2,0,2)	Department
	MTH 242	Number Theory	Required	MTH 231	3(2,0,2)	Department
	MTH 272	Probability	Required	MTH 203&MTH271	3(2,0,2)	Department
Level 5	MTH 305	Differential Equations	Required	MTH 204	3(2,0,2)	Department
	MTH 343	Numerical Analysis (1)	Required	MTH 221& MTH 241	3(2,2,0)	Department
	MTH 332	(1) Abstract Algebra	Required	MTH 241& MTH 242	3(2,0,2)	Department
	MTH 322	Mathematical Linear Programming	Required	MTH 241	3(2,0,2)	Department
	MTH 351	Statics	Required	MTH 203	3(2,0,2)	Department
	BUS 101 /EDU 102	University Elective Course	Elective	--	2(2,0,0)	Institution
Level 6	MTH 306	Partial Differential Equations	Required	MTH 305	3(2,0,2)	Department
	MTH 312	Real Analysis (2)	Required	MTH 211	3(2,0,2)	Department
	MTH 373	Data Analysis	Required	MTH 272& MTH 343	3(2,2,0)	Department
	MTH 333	Abstract Algebra (2)	Required	MTH 332	3(2,0,2)	Department
	MTH XXX	Math Elective Course 1	Elective	--	3(2,0,2)	Department
	MTH XXX	Math Elective Course 2	Elective	--	3(2,0,2)	Department
	MTH 461	Topology	Required	MTH 312	3(2,0,2)	Department

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Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
Level 7	MTH 413	Special functions	Required	MTH 312	3(2,0,2)	Department
	MTH 414	Complex Analysis	Required	MTH 312	3(2,0,2)	Department
	MTH 445	Numerical Analysis (2)	Required	MTH 242& MTH 305& MTH 343	3(2,0,2)	Department
	MTH 424	Mathematical Biology	Required	MTH 343	3(2,2,0)	Department
	MTH XXX	Math Elective course 3	Elective	--	3(2,0,2)	Department
Level 8	MTH 462	Functional Analysis	Required	MTH 312	3(2,0,2)	Department
	MTH 407	Differential Geometry	Required	MTH 241& MTH 306	3(2,0,2)	Department
	MTH 499	Graduation Project	Required	Complete 100 Units	3(0,6,0)	Department
	MTH XXX	Math Elective course 4	Elective	--	3(2,0,2)	Department
	MTH XXX	Math Elective course 5	Elective	--	3(2,0,2)	Department

Elective courses for level 6: Student chooses two of the three courses mentioned below

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
Level 6	MTH334	Introduction to Combinatorics	Elective	MTH241	3	Department
	MTH344	Advanced Linear Algebra	Elective	MTH241	3	Department
	MTH335	Discrete Mathematics	Elective	MTH332	3	Department

Elective courses for level 7: Student chooses one of the three courses mentioned below

Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
Level 7	MTH446	Computational Linear Algebra	Elective	MTH343	3	Department
	MTH452	Dynamics	Elective	MTH351	3	Department
	MTH491	Selected Topics	Elective	-----	3	Department

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Elective courses for level 8: Student chooses two of the three courses mentioned below						
Level	Course Code	Course Title	Required or Elective	Pre-Requisite Courses	Credit Hours	Type of requirements (Institution, College or Department)
Level 8	MTH425	Optimization Techniques	Elective	MTH322	3	Department
	MTH436	Dynamical Systems	Elective	MTH306	3	Department
	MTH474	Advanced Probability	Elective	MTH373	3	Department

Program Advisory Committee

A program advisory committee is formed to oversee the program's efforts to improve and develop the academic performance. Its tasks include providing advice and recommendations towards developing the program's performance in academic terms, as well as linking the mathematics program with the needs of the labor market. In this context, members of the committee were selected from academic personalities and employers in the various fields and specializations of difference of field of mathematics, with at least half of the committee members being experts and knowledgeable to benefit from their experiences and expertise in providing in-depth advice and exchanging opinion on what matters to the program in its development path as well as raising efficiency and quality of the bachelor program. The main tasks for this committee are

▪ Discussing and evaluating the operational plan for the Bachelor in Mathematics program and its annual reports.

▪ Studying the compatibility between the objectives of the program and the requirements of the labor market.

▪ Contribute to the formulation of effective attributes for the program graduate.

▪ The committee serves as a link between the university represented in the program and the labor and job markets.

▪ Discussing the bachelor in mathematics program specification before approval.

▪ Discuss the annual reports for the program.

▪ Discussing the improvement plans and its relevant results.

▪ Discussing the annual performance indicators report for the program and the relevant improvement action plans.

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- Discussing any developments, updates, and reviewing in the program before approval.

- Proposing actions for justification and correction if necessary.

Program policies and regulations

- Student Manual for Admission and Registration.

https://drive.google.com/file/d/1wr2kWsPT02JTLWV58stBu2QwQBQN2tUl/view?usp=sharing

- Student Manual for Study & Tests

https://drive.google.com/file/d/1A81i5PXpcf_COXYSDiFlNN9YqV77mxBM/view?usp=sharing

- Student Guidance and Advising Manual

https://drive.google.com/file/d/19dVlXSqqr4IbMzsHz_jg-41ZjUUPgzID/view?usp=sharing

- Student Manual for Rights & Duties

https://drive.google.com/file/d/1yxHvIGFGYUIOby6JiAEs17GJEzYFwpZw/view?usp=sharing

- Student Manual for Complaints & Grievances.

https://drive.google.com/file/d/1QnpWE4jcOeWgkT6BLpDH2-Q_z5sOpjpV/view?usp=sharing

- Faculty Members' Manual (Rights, Duties, Complaints and Grievances)

https://drive.google.com/file/d/1QMh6SQoppPPoqRrqLYMOfgXs5a2XGsvP/view?usp=sharing

Discipline rules for student

- University student rights and obligations document.
- Regulation of student clubs at Jouf University.
- Organizational rules for the Student Advisory Council.
- Rules and Regulations of Undergraduate Study and Examination.

Provided services to students

Academic Guidance

(Academic, career, psychological and social)

A meeting held at the beginning of each semester headed by the college dean, in which the heads of departments shall participate in order to clarify the rights and duties of the students.

Academic Counseling: Students are academically supported by their academic advisor, who works with them through the academic advisor's work document, which is listed below.

- Preparing a special file (paper or electronic) for each student who has been assigned the task of

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supervising them.

▪ Holding meetings with the guiding group students at the beginning of the semester and throughout the school year and to inform them of the guiding hours

▪ Introducing the guided students to the university's systems and regulations

▪ Urging the guided students to commit to conducting all registration, deletion, addition, withdrawal, etc. according to their announced dates from the Deanship of Admission and Registration on the electronic portal

▪ Ensuring that the student registers the curricula for the required number of hours according to his cumulative average and his study plan.

▪ Inform students who are guided by the decisions that have previous requirements in the study plan.

▪ Introduce the guided students to the university calendar, and ensure that they received their schedules on the electronic portal.

▪ Urging guided students to attend lectures, adhere to university systems and regulations, and list into their problems and suggestions.

▪ Assisting students in adapting to and selecting majoring cases, especially new ones, and working to overcome barriers and issues. Responding to student inquiries using blackboard or other social media platforms.

▪ If the student's' GPA is less than 2.00, he will be warned for the first time, and the guide must explain what this is, why it is happening and what the repercussion are.

▪ Paying special attention to struggling students, intensifying communication with them in order to enhance their academic conditions, and assisting them in resolving obstacles in their academic conditions, and assisting them in resolving obstacles in their academic progress.

▪ Organizing an orientation meeting at the beginning of each semester of each year to introduce the student, the new curriculum, the College, its system, its nature and its departments. The expected Jobs for the department,

▪ Organizing courses, training sessions, workshops and lectures to teach students new skills and prepare college students for Exams.

▪ Helping students solve their psychological and social problems that directly affect Academic achievement.

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- Coordinating with the College Guidance Unit and perform assigned tasks

- Early guidance for students to register their courses of next semester and to prevent conflicts and problems and avoid them in the last semester.

  - Address the problems of students who fail and guide them appropriately.

  - Activation of the E-Counseling. 1) Helping students to discover their tendencies and abilities and to acquire the skills to search for a job that suits their qualifications and to make appropriate decisions for their future.

Career Counseling

Career counseling provides students who are expected to graduate with information on the area in which they can work, and how to prepare for the start of career (career counseling) and

- Helping students to discover their tendencies and abilities and to acquire the skills to search for a job that suits their qualifications and to make appropriate decisions for their future

- Preparing students to join the labor market by providing them with the required skills such as writing a proper resume-preparing for job interviews.

- Directing students how to develop their skills and ability during the university period to suit the labor market and the Kingdom's vision2030.

- Continuous communication with graduates who have been hired, follow-up evaluation of their job performance and benefit from their experiences.

Psychological counseling

Psychological counseling aims to

- Help the student to recognize their abilities and benefit from it to solve their problems and market height decisions.

- Applying psychological tests and clinical interviews for diagnosis and psychotherapy through psychological sessions and converting some cases that need psychiatric treatment.

- Supporting the student or store psychological balanced unto the occurrence of social and cultural changes, scientific and technological advances and means of communication it has changed many values and trends.

- Counseling and psychological support to control the fear, anxiety and frustration that dominates the student due to the transition from one stage to another, and then the transition from study to work.

- Helping the student to understand himself to be able to choose the appropriate career for them and their

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scientific and practical abilities so that the student succeeds in his work and achieves satisfaction and proper compatibility.

▪ Contributing to solving problems resulting from family change, such as housing, marriage and family planning problems, in addition to solving work problems.

Social Counseling:

▪ Follow-up of students who have failed to study due to social conditions.

▪ Enable students to adapt and overcome social problems by providing social counseling services.

▪ Study cases of students who are eligible for financial aid.

▪ Enabling the student to build social relationships with colleagues and faculty members.

▪ Enhancing the university student's role in community service.

▪ Enhancing students with special needs at the university to achieve the principles of self-independence and social equality.

▪ Promote the principles of religion and patriotism.

Special supports

(Low achievers, disabled, gifted and talented)

Based on the system of care for the disabled issued by the Royal Decree No. (M / 37) dated 23/9/1421 AH, and in the belief of Jouf University that education is a legitimate right for all spectrums of society, male and female alike, has been formed a unit with special needs, as one of the units of the Deanship Students' Affairs is concerned with overcoming all the difficulties and challenges faced by the university students.

Low achievers students

▪ College evaluates the profiles of academic achievement of students and monitor their performance during the year.

▪ Early during the year, academic affairs committee prepares a list with names of students who are struggling and performing below standard.

▪ The list is forwarded to the assigned academic advisor who initiates a remediation process.

▪ Academic advisors meet with students and immediately provide feedback.

▪ Recommendations for additional assistance of special cases are forwarded to the Dean of college.

▪ The system permits that failing students are given a second chance and are allowed to retake the exam.

▪ The college council requests that a departmental investigation and action-oriented review is triggered if

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the scores for a particular exam fall below college benchmark.

Disabled students

▪ The college launches periodical awareness campaign to support people with special needs.

▪ Urged the employees of the college not to use the facilities and equipment meant for people with special needs. Besides, the availability of facilities for people with special needs in all buildings of the college and parking.

Gifted and talented students

Rewarding of gifted, talented and outstanding students via factual, moral reward or facilities to participate in extra-curricular and recreational activities

Educational sources

الدعم الفني للمكتبات

البلاك بورد
برنامج الوعي المعلوماتي ILP
Information Literacy Program

المكتبة الجامعية
الفهرس الآلي لجامعة الجوف

المكتبة الرقمية
SDL

Students activities

The main objectives of students' activities are:

▪ Contribute to building the student's personality culturally, socially, mathematically, and artistically, and to direct him to achieve a balanced personality and love for its homeland and its leadership.

▪ Creating a fertile environment for creativity and innovation for students.

▪ Discovering students 'talents, developing them, refining them, and employing their creative energies in what is fruitful and beneficial.

▪ Participating in the formation of the student's personality, discovering and developing his capabilities and talents.

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▪ Raising the spirit of fair competition for students, strengthening social relations with their colleagues, teachers and their community, and making monthly, quarterly and annual competitions.

▪ Holding sports, scientific and cultural competitions between students of the program and the college to raise the spirit of competition between them.

▪ Investing the student's spare time with useful work that will lead him to achieve his goals and increase their skills.

▪ Carrying out scientific and social trips for students; to raise their cultural and social awareness.

▪ Selection of distinguished students' elements in internal cultural and sports competitions; to represent the college in the various central competitions (sports and cultural) organized by the Deanship of Student Affairs at the university level.

▪ Recreation through purposeful, well-thought-out programs designed according to educational foundations.

▪ Holding sports and entertainment courses among the college's employees to create a kind of cohesion and harmony among all the college's employees.

▪ Expressing our loyalty and belonging to the homeland.

Classrooms, Facilities and Laboratories

Classrooms

Most of the courses at the mathematics program plan of study are taught in normal classrooms. The normal classroom at the University includes a computer to which faculty have access in addition to a monitor and presentation systems.

Classrooms for mathematics program (Main campus – Male section)

No.	Room Number	Building	Capacity	Area (squared meter)
1	**F54**		**20**	**45.6**
2	**F55**	**College of Science (Main campus –male section)**	**20**	**45.6**
3	**F80**		**20**	**45.6**
4	**F81 (LAB)**		**25**	**52**
5	**F96**		**20**	**45.6**
6	**F95**		**20**	**45.6**

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7	F96		30	58.4
8	SO56		20	45.6
9	SO54		20	45.6
10	SO58		50	104

Classrooms for mathematics program (Main Campus - Female section)

No.	Room Number	Building	Capacity	Area (squared meter)
1	W-121		20	45.6
2	W-118		20	45.6
3	W-201		20	45.6
4	G-125 (LAB)	College of Science (Main campus - female section)	20	45.6
5	W-209		20	45.6
6	W-228		20	45.6
7	W-227		30	58.4
8	W-230		20	45.6
9	SO54		20	45.6
10	SO58		50	104

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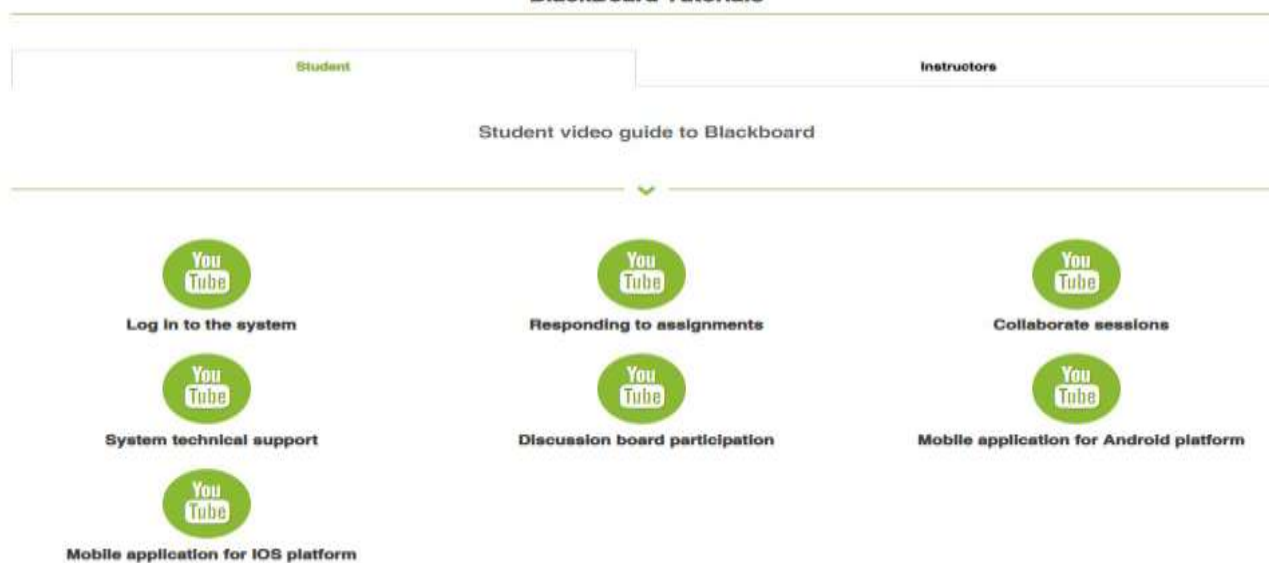
Facilities and Laboratories

Mathematics Department contains two major laboratories in various fields of specialization in mathematics. These laboratories are equipped with the modern devices that contribute in improving the efficiency and quality of the educational process in the course levels as well as the graduation projects, which is reflected in the efficiency and quality of the program outputs. In addition, these laboratories are supporting the scientific research process for students and staff members in the department.

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E-learning

E-learning and distance learning are one of the tools by which Jouf University is reaching its goals in placing the University at the regional and global level in the quality of learning outcomes in general and e-learning in particular. Blackboard is an online learning management system designed to help teachers and students interact in online lectures or use online study materials, as well as activities that complement regular teaching (face-to-face). Blackboard enables faculty members to provide curriculum materials, dialogue forums, chats and short online exams, as well as academic resources. Digital references, multiple tools, software, and appropriate electronic information bases and systems that provide users with access to information, research materials and scientific fields from within or outside the University. The program also has the appropriate techniques, services and environment for decisions that provide remote electronics according to its own standards.

BlackBoard Tutorials

| Student | Instructors |

Student video guide to Blackboard

Log in to the system

Responding to assignments

Collaborate sessions

System technical support

Discussion board participation

Mobile application for Android platform

Mobile application for IOS platform

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Approval Data (for the revised version)

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