College: Science – AL-Zulfi Department: Mathematics Program: B.Sc. (Mathematics)

(D) Actions

Code
MUP20a

Student Learning Outcome Code: a1 On successful completion of this program, students should be able to Reproduce and Define fundamentals and concepts of Mathematics.	1	Revision of the basic knowledge needed for the course at the beginning of the semester (give the revision two weeks)
	2	Increase questions and home works on the initial Mathematical skills
Student Learning Outcome Code: a2 On successful completion of this program, students should be able to Reproduce fundamentals and concepts of General sciences and Computer skills.	1	Increasing the discussion area in every lecture to allow students to explain the exercise solution
	2	Increasing the reports about reviewing all solution steps and let the students absorb the solution idea
Student Learning Outcome Code: a3 On successful completion of this program, students should be able to Continue to acquire and outline mathematical and statistical knowledge and skills appropriate to professional activities	1	Increase reports and searching in the internet for mathematical applications
	2	Continuous review for every lecture of the course and encouraging students to learn new mathematical knowledge(Make a quarter of an hour (1/4 Hr.) of each lecture to review the previous lecture)
Student Learning Outcome Code: b1	1	Increasing lecture to solve different types of equation and students can make some errors or mistakes which can be corrected in the class.

On successful completion of this program, students should be able to Construct mathematical arguments and proofs and apply the underlying unifying structures of Mathematics.	2	Construct several problems and check student answers to gain practice with every lesson and give discussion area to students to present a short presentation about mathematical theorems
Student Learning Outcome Code: b2 On successful completion of this program, students should be able to Develop and explain critical thinking skills to solve problems that can be modeled mathematically	1	Construct several problems to let them learn some giving process of solving some types of problems, equations, exercise, etc. rather than complicated methods which can be used in other advanced levels.
	2	Try to develop the critical thinking skills of the course by giving Some exercises to this, quizzes to train the students to prove theorems by using mathematical strategies
Student Learning Outcome Code: c1 On successful completion of this program, students should be able to Demonstrate the work independently and within a team	1	Increasing a specific time to accomplish some tasks such as: writing a report, solving some problems, etc.
	2	Dividing students into small group and make a seminar for all groups in one lecture per month discuss one item of course syllabus.
Student Learning Outcome Code: c2 On successful completion of this program, students should be able to Illustrate and bear responsibility for different situations	1	About five to ten minutes before the lecture start to focus on improving discussion skills about how to discuss" Problem – solving"
	2	Organizes short report of a given task for different situations and presented as PowerPoint and let students introduce that before the end of the semester in the front of department staff.
Student Learning Outcome Code: c3 On successful completion of this program, students should be able to Analyze and realize the codes of ethics and their importance	1	Increasing discussion and meeting in university mosque about the principles of Islam in cheating and several Islamic ethics.
	2	About five to ten minutes before the lecture start, we talk to the students very friendly and very kindly about cheating in exams and insisting on applying the

		regulations of the university when such problems occur.
Student Learning Outcome Code: d1 On successful completion of this program, students should be able to Communicate mathematical ideas, both orally and in writing	1	Make internal workshops (short seminar) for students to communicate with their lecturers orally by open the door to some scientific discussion
	2	About five to ten minutes before the lecture lecturer should talk about " how to write correct Mathematics by continuous training and corrections "
Student Learning Outcome Code: d2 On successful completion of this program, students should be able to Critically interpret numerical and graphical data	1	Try to develop the Communication skills of the course by give the students tasks to measure mathematical skills, Creating working groups and discussing a team work
	2	Mathematics department started give the students special workshops (computer software as mat lap, word, power point, etc.) separated of program contact hours to help students to Critically interpret numerical and graphical data