(Vision for the Future)

FOUNDATION PROGRAM

Course Syllabus
FPML 100: FP Math for Law
Fall - 2023-2024 (Term 1)

(A) University Vision, Mission and Values

Vision

Dhofar University aspires to occupy a distinct position among the leading institutions of higher education in the Arab Region.

Mission

To provide quality teaching and learning, conduct research in an inspiring environment conducive to creativity and innovation, and engage with the community.

Core Values

The core values of Dhofar University are:

- **Excellence** – Our commitment to excellence drives us to do better consistently.
- **Integrity** – We believe in honesty and coherence between our words and actions.
- **Responsibility** – We accept full responsibility for our actions all the times.
- **Commitment** – We are committed to give our best and deliver what we promise.
- **Transparency** – For us, transparency is the foundation of trust.
- **Adaptability** – We believe adaptability is the key to success in an ever-changing environment.

(B) Foundation Program Vision and Mission

Vision

Foundation Program aspires to become one of the leading GFPs in the Arab region, equipping students to be more competitive in colleges inside and outside Oman.

Mission

To expose students to rich, engaging curricula using innovative teaching and learning strategies that enable students to tap their learning potential to become autonomous, life-long learners

(C) Course/ Instructor/ Coordinator Information

Course Code	:	FPML 100
Course Title	:	FP Math for Law
Credit Hours	:	NA [4 Teaching Hours per week]
Pre-requisite	:	NA
Co-requisite	:	NA
Delivery Mode	:	Lecture/Tutorial

Course Schedule (For all sections):

Section	Class Room	Days	Time	Instructor Name	Email	Office Room	Office Telephone
1	COMC XXXA	2 (ST)	08:00-10:00	TBD	TBD	FP XXXA	TBD
2	COMC XXXA	2 (MW)	10:00-12:00	TBD	TBD	FP XXXA	TBD

Course Coordinator   :   Mohammad Mustafa
Email   :   **m_mustafa@du.edu.om**
Office Extension   :   7570
Office Room   :   224 A

(D) Course Description

The aim of this course is to help incoming students to understand basic concepts of Mathematics. This four-hour one course reinforces basic concepts and terminologies through the medium of the English language. The course covers real number systems, basic rules of addition, subtraction, multiplication and division, Properties of basic arithmetic operations, Polynomials, Graphing Linear equations using intercepts, Metric Units conversions, equations of circles, straight lines, Basic Trigonometric Functions and Pythagorean Theorem.

(E) Course Learning Outcomes:

	Course Learning Outcomes	Assessment Tools
1	Identify the Set notations and their subsets, the different set names, and apply operations.	FA / Quiz 1/ Summative/ Midterm
2	Apply basic mathematical operations on real numbers.	FA / Quiz 1/ Summative/ Midterm
3	Identify properties of the four-basic arithmetic operations and use them to simplify expressions. (Commutative, associative)	Summative/ Midterm
4	Use measurements and unit conversion (metric units)	Summative/ Midterm
5	Define polynomial types, apply the basic operations on polynomials, combining like terms.	FA /Assignment 1/ Summative/ Midterm
6	Graphing Straight Lines Using Intercepts.	FA /Assignment 1/ Summative/ Midterm
7	Finding distance and Slope of a line.	Summative/ Midterm
8	Find the equation of lines in standard form.	FA / Quiz 2/ Summative/ Final
9	Identify, graph the circle, and write the equation of a circle in standard form	FA / Quiz 2/ Summative/ Final
10	Define angles in radian and degree measures.	FA /Assignment 2 Summative/ Final
11	Define basic Trigonometric Functions and solve right triangle using Pythagorean theorem.	FA /Assignment 2 Summative/ Final

(F) Additional Materials, References and Resources

Textbook	Algebra for College Students: Jerome Kaufmann, Karen L. Schwitter, Thomson Brooks/Cole, 2007, 10th Edition, ISBN 1-285- 19578-7
Reference Books	NA
Handouts	Moodle, OneDrive, Math Worksheets
Useful Websites	Kuta Software
Software(s)	NA
Other Resources	PPT, Videos
e-learning Resources	Moodle, OneDrive

(G) Teaching/ Learning Strategies and Use of Technology

The lecture would include tutorials; homework; assignments; in-class participation; and short quizzes. Students need to refer the textbooks and/or internet sites together with the handouts to update their knowledge and cope up with the assignments and other assessments. Regular class attendance is important and will be monitored. Students are expected to develop their skills for at least 4 hours a week.

(H) Weekly Course Content Outline: Refer to Math for Law study plans for specific details.

Week No.	Topics/Activities to be Covered
1	Placement Tests/Registration
2	• Sets & Real numbers • Basic mathematical Operations on real numbers. (addition and subtraction)
3	• Basic mathematical Operations on Real numbers. (multiplication & Division)
4	• Properties of basic arithmetic operations. (Commutative, Associative). • Measurement and Unit Conversion (metric Units).
5	• Adding and subtracting polynomia • Graphing Straight Lines Using Intercepts.
6	• Finding distance and Slope of a line.
7	Midterm Exams
8	• Determining the Equation of a Line • Circles. (Graphing and finding equation of circle)
9	• Define angles using radian measure and convert between radian and degree measure
10	• Solve a right-angle triangle using Pythagorean theorem.
11	Revision on Final Exam
12	Final Exams

(I) Assessment Tools and Schedule

Assessment Tools	Grade Proportion	Week/Dates
Midterm exam	30%	7th week
Continuous Assessment	30%	Ongoing in class
Final Exam	40%	End of Term
Total	**100%**	

(J) Important Information for Students

1) University Academic Integrity Policy

The university requires its student to adhere to the academic integrity policy and avoid indulgences in the acts of cheating, collusion or plagiarism during examinations or continuous assessment. Any act of academic misconduct will invite sanctions as per DU policy.

(Please refer to DU student handbook and Academic Integrity Policy for detailed guidelines.)

2) Class Attendance Rules

Attendance of all classes and course-related activities is obligatory. The maximum absences allowed for a student is 25% of the total number of classes of a particular course. Before reaching the withdrawal stage, LOGSIS warns the students by way of three warnings sent to their DU email account by DAR. This email messages to students is a formal communication of the university with its students so students are strongly advised to access their DU email accounts on daily basis to track their absences, along other important things, to respond appropriately when needed.

3) The warnings of absences are as follows:

   a) **First warning**: this is when a student's absence reaches **07%** of the total number of classes of a particular course.

   b) **Second warning**: this is when a student's absence reaches **14%** of the total number of classes of a particular course.

   c) **Final warning:** this is when a student's absences reach **21%** of the total number of classes of a particular course.

If the absence crosses 25%, the student will be dismissed from the course and a "WA" will be shown in his/her transcript against the dismissed course and dismissal letter will be sent to his DU email account.

4) Withdrawal from course. NA

5) End-Term Evaluation by Students

All students are required to complete "Online Evaluation" of Course, Graduate Attributes and Course Instructor at the end of the term. The specific dates for evaluation shall be announced by the course instructor in the class. It is mandatory for the students to complete this online evaluation, without which their final grades shall not be announced.

6) Additional information, if any

For the benefits of the group, all students are asked to participate actively in all aspects of the course. Those wishing to succeed must:

- Arrive on time and attend all classes.
- Complete all work on assigned dates.
- Complete all writing assignments on assigned dates.
- Take part in oral discussion and make presentations as assigned.
- Participate in class on a regular basis.
- Never miss quizzes, tests, presentations and other alternative assessments as they prepare you for your midterms and also finals.

Students are promoted to the college if their Cumulative Final Grade is 50 or above.

If a student misses any test (midterm/final), the student will only be given a make-up test with a valid excuse approved by the FPC.