

King Fahd University of Petroleum and Minerals

Department of Mathematics

Math 102 Recitation Lab Syllabus, Term 232 (2023-2024)

Coordinator: Dr. Slim Belhaiza

Course Code and Title: Math 102, Calculus II

Textbook: Larson, R. & Edwards, B., Calculus: Early Transcendental Functions, Metric Version, 7th edition, Cengage Learning, Inc., 2019.

Recitation Manual: Math 102 Recitation Manual for Python, Department of Mathematics, KFUPM, 2023.

Recitation Lab. Objectives:

- Acquaint students with Python.
- Foster the development of solution skills in Calculus II using Python.

Grading Policy:

	Date	Time	Place	Material	Percentage
Midterm (8 MCQ)	TBA			Lab. 1 to Lab 7.	8 points
Final Exam (12 MCQ)	TBA			Comprehensive	12 points
					20 points

Other Exam Issues:

- No student will be allowed to take the exam if he/she does not bring his/her KFUPM ID, or National/Iqama ID, or Driver's License with him/her to the exam hall.
- Students are not allowed to have their mobiles, smart watches, or any electronic device in the exam hall. A violation of this will be considered an attempt of cheating.

Missing an Exam: In case a student misses an exam (Midterm or the Final Exam) for a legitimate reason (such as medical emergencies), he/she must bring an official excuse from Students Affairs. Otherwise, he/she will get a score of zero in the missed exam.

Attendance: Students are expected to attend all recitation lab classes.

If a student misses a lab, he/she is responsible for any announcement made in that recitation lab.

The Usage of Mobiles in Lab: Students are not allowed to use mobiles for any purpose during the recitation lab time. Students who want to use electronic devices to take notes must take permission from their instructor. Violations of these rules will result in a penalty decided by the instructor.

Academic Integrity: All KFUPM policies regarding ethics apply to this course. See the Undergraduate Bulletin in the Registrar's website.

Coverage Plan

Week	Date (2024)	Section	Title
1	Jan. 14-19	5.2 & 5.3	Introduction + Areas and Distances
2	Jan. 21-26	5.1 & 5.4	Antiderivatives+ The Fundamental Theorem of Calculus
3	Jan. 28- Feb 1	5.5	The Substitution Rule
4	Feb. 4- 9	5.7, 5.8 & 5.9	Natural Logarithmic+ Inverse Trigonometric+ Hyperbolic Functions
5	Feb 11-16	7.1	Areas Between Curves
6	Feb. 18-23	7.2 & 7.3	Volumes by Disks + Washers
7	Feb. 25-29	7.4	Arc Length and Surfaces of Revolution
Midterm Exam (Lab 1. To Lab. 7)			
8	Mar. 3-8	8.2 & 8.3	Integration by parts + Trigonometric Integrals
9	Mar. 10-15	8.4 & 8.5	Trigonometric Substitution + Partial Fractions
10	Mar. 17-22	8.7 & 8.8	Rational Functions of Sine and Cosine + Improper Integrals
11	Mar 24-28	9.1 & 9.2	Sequences + Series and Convergence
Eid Al-Fitr Holidays			
12	Apr. 21-26	9.3 & 9.4	Integral Test + p -series and comparison of series
13	Apr. 28- May 2	9.5 & 9.6	Alternating Series + Root Tests
14	May 5-10	9.8 & 9.10	Power Series + Taylor and Maclaurin Series
15	May 12-17	Final Exam (Comprehensive)	