Lectures of Electrical Engineering Department

Subject Title: Mathematics

Class: First Stage – Second Semester

		Lecture sequences: السيد عامر محمد جرجيس	First lecture	Instructor Name:
Lecture Contents		**The major contents:** 1- Area and Estimating with Finite Sums. 2- Distance Traveled . 3- Average Value of a Nonnegative Continuous Function. 4- Finite Sums and Sigma Notation. 5- The Definite Integral.		
		The detailed contents: 1- Algebra Rules for Finite Sums 2- Properties of Definite Integrals. 3- 4-		

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Subject Title: Mathematics

Class: First Stage – Second Semester

Instructor Name:	First lecture	Lecture sequences:السيد عامر محمد جرجيس	
		The major contents: **1- Area Under the Graph of a Nonnegative.** **2- Average Value of a Continuous Function.** **3- Mean Value Theorem.** **4- Fundamental Theorem – Part 1** **5- Fundamental Theorem – Part 2**	Lecture Contents
		The detailed contents: **1- The Integral of Rate .** **2-** **3-** **4-**	

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Lecture sequences: السيد عامر محمد جرجيس	First lecture	Instructor Name:
The major contents: **1- Indefinite Integrals** **2- The Power Rule .** **3- Substitution Rule .** **4- The Integrals of sin^2 (x) and cos^2(x)**		
The detailed contents: **1- Substitution and Area Between Curves.** **2- Definite Integrals of Symmetric Function .**		

(Lecture Contents)

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Lecture Contents	Lecture sequences: السيد عامر محمد جرجيس	Second lecture	Instructor Name:
	The major contents: **1- Areas Between Curves .** **2- Integration with Respect to y .** **3- Arc Length of a Plane Curve .** **4- Area of Surface of Revolution .**		
	The detailed contents: **1-** **2-** **3-** **4-**		

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	Lecture sequences: السيد عامر محمد جرجيس	Third lecture	Instructor Name:
Lecture Contents	**The major contents:** **1- Volume of Solids Revolution .** **2- The Disk Method .** **3- The Washer Method .** **4- Volumes by Cylindrical Shells .**		
	The detailed contents: **1-** **2-** **3-** **4-**		