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جامعة فلسطين التقنية – خضوري
 دائرة الجودة والنوعية
 طولكرم- ص.ب 7
 هاتف: 09/2677923
 فاكس: 09/2677922
 بريد إلكتروني: quality@ptuk.edu.ps

College	College of information Technology		
Course Title	Linear Algebra	Course Number:	19041222
Year	2023/2024	Semester:	Second Semester
Prerequisite(s)	Calculus 2		
Instructor	Dr. Taqwa Al-Khader		
Instructor's e-mail	t.alkhader@ptuk.edu.ps		
Office Hours			
Class Time	[12:30_2:00] Mon / Wed	Class Room:	
Course description	Linear equations, matrices, determinants, vector spaces and subspaces, linear transformation, eigenvalues and eigenvectors, similarity of square matrices, diagonalization. First order differential equation. The existence and uniqueness theorem differential equation of Higher order.		
Objectives	<p>On successful completion of this course the student will be able to achieve the following objectives:</p> <ul style="list-style-type: none"> • how to analyze and solve a linear system of equations. • important characteristics of matrices, such as fundamental subspaces, rank, determinant, eigenvalues and eigenvectors. • how to recognize linear transformation. • important concepts of vector spaces such as independence, basis, dimensions. • recognize and classify ordinary differential equations. • solve linear first-order ordinary differential equations. • solve constant-coefficient linear second-order differential equations. 		
Course Intended Learning Outcomes (CILOs)			

