Kingdom of Saudi Arabia
Ministry of Education
University of Bisha
College of Engineering
Dept. of Electrical Engineering



المملكة العربية السعودية وزارة التعليـــــم جامعة بيشة

> كلية الهندسة قسم الهندسة الكهربائية

Course Syllabus

Course Code and Name	EE 26324 – Computer Programming
Credit and contact hours	3 (1, 2, 2) (Lecture, Tutorial, Lab)
Required or Elective	Required
Level / Year	Level (5) / Year (3)
Course Prerequisite	MATH26213 Differentiation and Integration – 2
Textbook	Stephen J. Chapman, "MATLAB Programming with Applications for Engineers", 1st Ed., Cengage Learning, 2013.
Course Description	This course covers the following topics: Fundamental concepts of programming using structured programming language, specially "MATLAB" – Introduction to MATLAB – Basic programming tools – variables, data types, operators and operands – Problem Solving With MATLAB – Matrices in MATLAB – Basic operations on one/two dimensional arrays – function definitions – MATLAB Programming Loop Statements and Vectorizing Code – Plotting Techniques with MATLAB – two and three dimensions plots – Applications in Numerical Analysis conditional and iterations structures.
Brief List of Topics to be Covered	 Algorithms and flowcharts – Introduction to PL – Basic program in PL – Introduction to MATLAB – MATLAB Windows. Mathematical Operations with Arrays. Operators and Operands. Plotting in MATLAB Iterations Statements Applications in Numerical Analysis Programming in MATLAB File Manipulations
Course is prerequisite for	EE26555 Computer applications in Power Systems