| Department | General Studies | Major |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Course Name | Mathematics | Course Code Credit Hours CRH | MATH 121 |  |  |  |  |  |
| Prerequisites | - |  | 3 |  | CTH |  |  | 4 |
|  |  |  | L | 3 | P | 0 | T | 1 |

## Course Description :

Mathematics represents a basic document and an introduction to the trainee in diplomas of electronic technology, electrical technology, mechanical technology and communication technology to some basic skills corresponding to the twenty-first century skills, and it covers a number of the basic mathematical topics including polynomials, matrices, determinants, equations, differentiation and integration.

## General Objective:

Provide the trainee with the knowledge and mental skills such as logical thinking skills, problem solving ,decision making, and enabling him to use the computer and mathematical softwares to address the mathematical models in order to qualify trainees to understand the specialized courses according to quality standards and to serve the market requirements.
Detailed Objectives:
Trainee will be able to:
1- To perform calculations on polynomials.
To perform calculations on matrices.
To calculate determinants.
To solve equations.
To calculate limits.
To calculate continuous function.
To solve problems with differentiation.
To employ integration calculation methods in mathematical applications.

## Safety Procedures:

1- Maintaining public safety in the surrounding environment.
2- Complying with emergency guidelines.
3- Preserving the Corporation's properties of tools and equipment.
4- Leaving the classroom clean and tidy.
5- Reporting any faults.



| Textbooks |  | Mathematics for Scientific and Technical Students,by H.G. Davies (Author), G.A. Hicks (Author) |  |
| :---: | :---: | :---: | :---: |
|  |  | PRECALCULUS MATHEMATICS FOR CALCULUS -6 Edition JAMES STEWART, LOTHAR REDLIN and SALEEM WATSON , 2006 |  |
|  |  | basic mathematics for college students by alan s. tussy |  |
|  | - | Matrix Theory with Applications,by GOLDBERG (Author) |  |
|  | - | Schaum's Theory \& Problems of Matrices, by Frank Ayres Jr. |  |
|  | - | Introduction to Analysis (3rd Edition),William R. Wade |  |
|  | - | Calculus, Early Transcendentals Seventh Edition, J.Stewart |  |
|  |  | حساب التفاضل والتكامل والهندسة التحليلية، وليم ه دورفي | - |

