Mathematics department

First sem:

1 Name of the course- calculus

This paper aim is to develop the concept of differential calculus

Course outcome:

(a) Understand – successive differentiation, partial derivatives, its application , integration and its application
(b) Learn about: tangent, normal, area, volume.
(c) Know: the application of calculus.

2. Name of the course: algebra and trigonometry- this paper is developed for modern algebra, classical algebra and trigonometry.

Course outcome:

(a) Understand – the modern and classical algebra
(b) Learn about: abstract algrbra, classical algebra and trigonometry.
(c) Know: group, subgroup, cubic equation and matrice.

Second sem:

1 NAME OF THE COURSE .co-ordinate geometry

This paper aim is to develop for the two dimensional geometry and three dimensional geometry of higher level.

Course outcome:

(a) Understand –different coordinate system for 2D and 3D .
(b) Learn about: tangent, normal, shortest distance of two lines, sphere and cone .
(c) Know: the @d and 3D and its application.

2. **differential equation- this paper is developed for the concept of first order ordinary and partial differential equation.**

Course outcome:

(a) Understand – ordinary differential equation and partial differential equation.
(b) Learn about: the solution of differential equation of first order equation.
(c) Know: method of solution.

Third sem:

1. **Name of the course Abstract algebra-**
   this paper is developed for homomorphisom of groups and rings

Course outcome:

(a) Understand – the homomorphism of groups, rings, vector space .
(b) Learn about: the theorems on groups, rings and vector space
(c) Know: how to prove the theorems on abstract algebra and problems.

2.Name of the course: Linear algebra and vectors-

this paper is developed for linear algebraic system and vector calculus.

Course outcome:

(a) Understand – successive differentiation, partial derivatives, its application , integration and its application
(b) Learn about: tangent, normal, area, volume.
(c) Know: the application of calculus.

For commerce stream:

First sem

1. **Name of the course: Business mathematics**

   This paper is developed for basic knowledge of algebra, coordinate geometry , and calculus.

Course outcome:

(a) Understand – algebra, coordinate geometry, differentiation, integration and its application
(b) Learn about: application of mathematics in commerce
(c) Know: the importance of mathematics in business and commerce

Second sem:

1. **Name of the course : Business Staticstics**

   The paper is develop for the use of statistical knowledge in business and financial activites.

Course outcome:

(a) Understand –the different statistical methods used in business and its application
(b) Learn about: basic statistics
(c) Know: how to use the statistical tools in financial activites.