

[Summary]

[Elementary Difference Equations & Their Applications to Economics]

Subject: Business Economics

Course: B.A., 6th Semester,

Undergraduate

Paper No. & Title: Paper – 631

Advanced Mathematical

Techniques

Unit No. & Title: Unit - 4

Difference Equations

Lecture No. & Title: 1:

Elementary Difference Equations & Their Applications to Economics

Summary:

- ➤ A difference equation is an equation that contains a dependent variable, independent variable and its finite difference.
- The maximum difference of the difference intervals of the equation is the *order* of a difference equation.
- ➤ A function *y* of *x* is called a *solution* of a difference equation if every value of *y* satisfies the difference equation for all values of the independent variable *x*.