COURSE LEARNING OUTCOMES

DEPARTMENT: Mathematics, Malda College

After studying this course, you should be able to:

- 1. explain the geometric meaning of each of the metric space properties (M1) (M3) and be able to verify whether a given distance function is a metric
- 2. decide whether given functions are or are not metrics;
- 3. distinguish between open and closed balls in a metric space and be able to determine them for given metric spaces
- 4. define convergence for sequences in a metric space and determine whether a given sequence in a metric space converges
- 5. state the definition of continuity of a function between two metric spaces.
- 6. understand whether examples of metric spaces are complete or not using Cauchy sequences.