Data Fusion
L-T-P 3-0-0 Cr. - 3

Objective:

1. To understand the principles of Data Fusion.
2. To be familiar with the Data Fusion algorithms and their Implementation.

MODULE – I

Fusion Models, Sensors and Intelligence, Approaches to handle uncertainty, Neuro-Probabilist Approach, Neo-Calculist Approach, Neo-Logistic Approach, Neo-Possibilist Approach.

MODULE – II

Target Tracking, Single Sensor Single Target Tracking, Multi Sensor Single Target Tracking, Multi Sensor Multi Target Tracking, Interacting Multiple Models.

MODULE – III

Target Classification, Target Aggregation, Model based Situation Assessment – Bayesian Belief Network. Model based Situation Assessment.

MODULE – IV

Handling Non Linear and Hybrid Models, Decision Support, Fusion Models, Cognitive Agents for Data Fusion, Distributed Fusion

Outcome:

1. Technical knowhow of the Data Fusion for real time applications.

Recommended Books:

1. High Level Data Fusion, Subrata Das, Barnes & Noble

3.Pre-Dissertation