

**Course Instructor:** Dr Chiranjib Sur

**Course Webpage:** <https://chiranjibsuruf.github.io/courses/da626.html>

**Email:** [chiranjib@iitg.ac.in](mailto:chiranjib@iitg.ac.in)

**Objectives:**

**Prerequisites:**

**Course Code:** DA626

**Course Name:** Recommendation System Design Using Deep Learning

**Credits:** 3-0-0-6

**Syllabus:** History of Recommendation System, Matrix Factorization, Collaborative Filtering, Context-Based Filtering, Hybrids Methods, Nearest Neighbors, Graphical Neural Network, Evaluation methods of recommendation system (several families of metrics, including ones to measure prediction accuracy, rank accuracy, decision-support, and other factors such as diversity, product coverage, and serendipity). Linguistic and statistical techniques for text mining and content analysis, Semantic Web and ontologies, Semantic Recommendation systems. Ethical aspects of Recommendation systems.

**Textbooks:**

- To be updated.

**References:**

- To be updated.