IT562 - Recommendation Engine and Applications (3 – 0 – 2 – 4)
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Category: Group Core

Prerequisite: Prior coursework (either at undergraduate level or master's level) with grade BB (70%+) or higher
- Linear Algebra
- Probability & Statistics
- Programming

Foundation for: Advanced Recommendation Engine

Course Description
This course is designed to give an introductory understanding of modern recommendation systems - how they are designed for different applications that are scalable. The course covers all the different categories of recommendation systems, detailing architectural design principles. At the same time, it exposes the student to the mathematical and algorithmic foundations.

Course Content
- Recommendation System vs. Search Engines
- Parameters for recommendation
- Taxonomy of recommendation systems
- Collaborative Filtering based recommendation
- Content Filtering based recommendation
- Reinforcement learning based recommendation
- Case study: E-commerce
- Case study: Book
- Case study: Scholarly Articles
- Project

Suggested Text
- Recommendation System - The Textbook -- Charu Aggarwal (available in DA-IICT RC)

Grading Policy
- In-sem exam: 40%
- Final Project: 60%