

BS Data Science Curriculum (2024) - AI, DS, and IT Subjects

■ Artificial Intelligence (AI) Subjects

- CS24-380 / 380L — Artificial Intelligence
- CS24-480 — Machine Learning
- CS24-481 — Generative AI
- Artificial Neural Networks & Deep Learning
- Natural Language Processing
- Computer Vision
- Speech Processing
- Text Mining

■ Data Science (DS) Subjects

- DS24-380 / 380L — Introduction to Data Science
- DS24-480 / 480L — Data Mining
- DS24-410 / 481 — Data Visualization
- DS24-390 / 381 — Data Warehousing & Business Intelligence
- Big Data Analytics
- Platforms & Architectures for Data Science
- Topics in Data Science
- SEO and Analytics
- Advanced Statistics (MT24-312)
- Probability & Statistics (MT24-311)
- Linear Algebra (MT24-310)

■■ Information Technology (IT) Subjects

- CS24-120 / 220 / 221 — Programming Fundamentals, OOP, Data Structures
- CS24-260 / 260L — Computer Networks
- CS24-240 / 240L — Database Systems
- CS24-330 — Operating Systems
- CS24-320 — Analysis of Algorithms
- CS24-250 — Software Engineering
- CS24-230 — Computer Organization & Assembly Language
- CS24-231 — Digital Logic Design
- CS24-261 — Information Security
- CS24-450 — Parallel & Distributed Computing
- IT24-300 — Web Technologies
- IT24-350 — System & Network Administration
- IT24-460 — Cyber Security
- CS24-351 — Web Engineering
- CS24-442 — Management Information Systems
- CS24-440 — Advanced Database Management Systems
- Blockchain Technologies
- Software Project Management
- Mobile Application Development
- Software Requirement Engineering
- Business Process Analysis
- HCI & Computer Graphics
- Multimedia Systems