

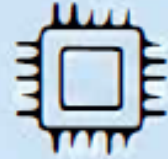
DSAI Learning Modules

Foundation Modules (Years 1-2)



Data Analytics

- Introduction to Data Analytics
- Mathematics for Data Science I
- Mathematics for Data Science II
- Statistics for Data Science
- Statistical Analysis



Computer Science

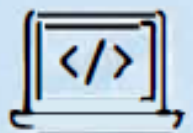
- Computation Structures
- Computer System Design
- Software Construction
- Principles of Algorithms
- Discrete Optimization



Programming & AI

- Intro to Data Science and Programming
- Python for Data Science
- Practical Programming in C
- Big Data Management
- Principles of Machine Learning
- Principles of Deep Learning

Advanced Modules (Years 3-4)



AI Engineering

- Natural Language Processing
- Generative AI
- AI Engineering
- Data Science and AI Project I
- Data Science and AI Project II



AI Application

- AI & Intelligent Product Development
- Cybersecurity and Applications
- Quantum Information and Computation
- Text Mining & Deep Learning
- Business Analytics and AI Project



Digital Technology & Business

- Select courses from BE/DBI major

DSAI and DBI

DSAI

Tech-first program with business competency

Future AI / data specialists, engineers, technical innovators

- Programming and Software Engineering (Python, C, R, SQL, Optimization)
- Data Science Foundations
- AI Engineering and Projects
- Generative AI, Natural Language Processing, Deep Learning
- Network and Cybersecurity

Key Distinction

Best Fit For

Unique Emphasis

DBI

Business-first program with strong tech competency

Future digital business leaders, entrepreneurs, tech-savvy managers

- Entrepreneurship and Innovation
- Digital Marketing
- Applied AI / IoT in Business
- Strategy and Sustainability
- Supply Chain, HR, Service Management

Shared Course Topics



Management and Marketing



Digital Business and Entrepreneurship



Finance and Fintech



Customer / Market Analytics



Blockchain and E-business