Program Schema with LTP

Semester	Course Code	Core	Course Name
Sem 1	SC001	Skilling	Front-end web development
Sem 1	FC001	Foundation	Critical thinking 101
Sem 1	DC004	Academic	Discrete Mathematics
Sem 1	FC002	Foundation	Professional skills for the workplace
Sem 1	DC001	Academic	The breadth of computer science 1
Sem 1	SC002	Skilling	Problem solving using programming
Sem 1	DC013	Academic	Design for developers
Sem 2	SC003	Skilling	Back-end web development
Sem 2	SC004	Skilling	Databases
Sem 2	FC003	Foundation	Learning how to learn
Sem 2	DC002	Academic	The breadth of computer science 2
Sem 2	SC005	Skilling	Full stack Development
Sem 3	FC0012	Foundation	Economics, Politics and Rural Society Development
Sem 3	FC005	Foundation	Mathematical thinking 101
Sem 3	DC008	Academic	Database Management Systems
Sem 3	DC010	Academic	Object Oriented Programming
Sem 3	IW	Integrated Work	Integrated work with a partner company
Sem 3	DC013	Academic	Object Oriented Programming Lab
Sem 4	FC006	Foundation	How human languages work?
Sem 4	FC007	Foundation	Tools and techniques for creative thinking
Sem 4	DC006	Academic	Operating Systems
Sem 4	DC003	Academic	Data Structure and Algorithms
Sem 4	IW	Integrated Work	Integrated work with a partner company
Sem 4	DC014	Academic	Operating Systems Lab
Sem 5	FC008	Foundation	English LSRW
Sem 5	FC004	Foundation	Principles of Science
Sem 5	DC005	Academic	Computer Organization & Architecture
Sem 5	DC011	Academic	Compiler Design
Sem 5	DC007	Academic	Design & Analysis of Algorithms
Sem 5	IW	Integrated Work	Integrated work with a partner company
Sem 6	FC010	Foundation	Discovering Self
Sem 6	FC011	Foundation	Fundamentals of Business Management
Sem 6	DC009	Academic	Formal Language & Automata Theory
Sem 6	DC012	Academic	Computer Networks
Sem 6	IW	Integrated Work	Integrated work with a partner company
Sem 7	FC009	Foundation	Introduction to philosophy
Sem 7	FCE1	Foundation	Elective - From the set of recommended courses
Sem 7	DCE1	Academic	Elective - From the set of recommended courses
Sem 7	DCE2	Academic	Elective - From the set of recommended courses
Sem 7	IW	Integrated Work	Integrated work with a partner company
Sem 8	OE1	Open Elective	Any approved open elective across any field
Sem 8	IW	Integrated Work	Integrated work with a partner company

The four cores of Program

Foundation Core

A set of courses crafted to take a liberal approach to help students develop crucial 21st-century skills and cognitive abilities in both professional and personal life.

Skilling Core

Courses oriented toward Full Stack Development, that start with basic programming eventually lead to high-level product development.

Academic Core

Designed to inculcate strong foundational knowledge in computer science, these courses are thoughtfully crafted to impart the concepts, their applications, and practical labs associated with them.

Integrated Work

Relevant (paid) work experience in global tech companies where students gain real-world application development expertise, workplace exposure, and industry-ready skills.