

ST. XAVIER'S COLLEGE [AUTONOMOUS], KOLKATA

DEPARTMENT OF M.Sc. COMPUTER SCIENCE

SYLLABUS

Semester 1

- Paper M101: Data Structure and Analysis of Algorithm.
- Paper M102: Advanced Database Management system.
- Paper M103: Automata Theory and Compiler Design.
- Paper M104: Advanced Operating System.
- Paper M111: Laboratory 1 (Advanced OS LAB & PL SQL).
- Paper M112 Laboratory 2 (Programming in Java)

Semester 2

- Paper M201: Advanced Software Engineering.
- Paper M202: Computer Communication and Networking.
- Paper M203: Microprocessors and Micro-Controllers
- Paper M204: Multimedia and Internet Technologies
- Paper M211: Laboratory 3 (C++ and Computer Networks)
- Paper M212: Laboratory 4
(Internet Technologies – HTML, XHTML, XML, JavaScript, JSP, PHP)

Semester 3

- Paper M301: Digital Signal Processing
- Paper M302: Artificial Intelligence
- Paper M303: VLSI Design.
- Paper M304: Network Security and Cryptography
- Paper M311: Laboratory 5(J2EE and AI).
- Paper M312: Project 1

Semester 4

- Paper M401: MIS and E-Business
- Paper M402: Elective
(*Object Oriented Design, Mobile Computing, Embedded Systems, Soft Computing, Bio-Informatics*)
- Paper M411: Project
- Paper M412: Seminar
- Paper M413: Viva-Voce