

# AKTU B.Tech (CSE/IT)

Complete 2nd Year Syllabus & Curriculum Details

[mycollegeverse.in](http://mycollegeverse.in)

## SEMESTER III CURRICULUM

Code	Theory Subjects	Core Topics
KCS301	Data Structures	Arrays, Stacks, Queues, Linked Lists, Trees (AVL, B-Trees), Graphs, Hashing.
KCS302	Computer Organization & Architecture	Register Transfer, Micro-operations, CPU Design, Pipeline, Memory Hierarchy, I/O.
KCS303	Discrete Structures & Theory of Logic	Set Theory, Algebraic Structures, Lattices, Boolean Algebra, Propositional Logic.
KAS301	Technical Communication	Professional Communication, Writing Skills, Presentation Strategies.
--	Electronics Engineering	Semiconductors, Diode circuits, Transistor Biasing, Operational Amplifiers.

Code	Practical / Projects / Audit
KCS351	Data Structures Using C Lab
KCS352	Computer Organization Lab
KCS353	Discrete Structure & Logic Lab
KCS354	Mini Project or Internship Assessment
KNC301	Computer System Security (Non-Credit Audit Course)

# SEMESTER IV CURRICULUM

Code	Theory Subjects	Core Topics
KAS402	Maths IV	Partial Differential Equations, Statistics, Probability Distributions, Numerical Methods.
KCS401	Operating Systems	Process Scheduling, Deadlocks, Memory Management, File Systems, Disk Management.
KCS402	Theory of Automata & Formal Languages	DFA, NFA, Context-Free Grammar, Pushdown Automata, Turing Machines.
KIT401	Web Designing	HTML5, CSS3, JavaScript, XML, Web Hosting, UI/UX Principles.
KVE401	Universal Human Values	Self-exploration, Ethics, Relationship Harmony, Professional Responsibility.

Code	Practical / Audit
KCS451	Operating Systems Lab
KIT451	Web Designing Lab
KCS453	Python Language Programming Lab
KNC402	Python Programming (Non-Credit Audit Course)

**Pro Tip:** For detailed notes, previous year question papers (PYQs), and hand-written solutions for these subjects, stay connected with [mycollegeverse.in](https://mycollegeverse.in).