SCERT Kerala · Class 11 · Computer Applications

Computer Applications

ORIGINAL STUDY COMPANION
PADIKAM
CLASS 11 | COMMERCE
Computer Applications -
Commerce 2026
Kerala SCERT / prescribed NCERT core lessons
8 chapter lessons
Quick explanations, core points, exam practice and chapter-specific notation in one
consistent format.
Padikam explanations are independently written. Official textbooks are used as the coverage map, chapter sequence and terminology
reference.

Contents
01 Computing System
02 Data Representation
03 Programming Concepts
04 Elements of Python
05 Python Control Structures and Data Handling
06 Computer Networks
07 Cyber Security
08 AI and its Applications
Study rhythm
Read the quick explanation, recall the core points aloud, then answer the prompts without looking
back. Use the official textbook links for full prescribed readings, activities and diagrams.
Textbook and verification links
1. https://scert.kerala.gov.in/hss-2026/
2. https://drive.google.com/file/d/1dx5nkQwzLwI5X1PyF_BGcv2X24XpDh_R/view

CHAPTER 01
Computing System
Quick understanding
Understand computer evolution, organisation, software, data processing, FOSS, green computing and
e-waste.
Core points Check your learning
Hardware, software and user form a working system. Draw the functional-unit diagram.
CPU, memory and input-output units cooperate Compare system and application
through stored instructions. software.
Responsible computing includes open access and
environmental care.
One-line recall Hardware, software and user form a working system.

CHAPTER 02
Data Representation
Quick understanding

Encode numbers, characters and logic in forms a computer can process.
Core points Check your learning
Binary is the machine-level number system. Convert a business value between number systems.
Conversions use place value and repeated division or grouping. Perform binary arithmetic and identify overflow.
Complements support signed arithmetic.
One-line recall Binary is the machine-level number system.
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CHAPTER 03
Programming Concepts
Quick understanding
Turn a problem into an algorithm, flowchart and testable program plan.
Core points Check your learning
Define inputs, process and outputs before coding. Design an algorithm for discount calculation.
Algorithms must be finite, unambiguous and effective. Convert a flowchart into pseudocode.
Test data should include normal, boundary and invalid cases.
One-line recall Define inputs, process and outputs before coding.
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CHAPTER 04
Elements of Python
Quick understanding
Use Python variables, types, operators and input-output for simple commerce calculations.
Core points Check your learning
Input text often needs numeric conversion. Write a GST or simple-interest calculator.
Meaningful variable names improve maintainability.
Trace data types in a short script.
Expressions follow precedence.
Code pattern
amount = float(input("Amount: "))
net = amount - discount
One-line recall Input text often needs numeric conversion.
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CHAPTER 05
Python Control Structures and Data Handling
Quick understanding
Use decisions, loops and collections to process repeated business data.
Core points Check your learning
Selection implements rules and slabs. Write a graded-discount program.
Loops aggregate transaction data. Summarise sales using a list or dictionary.
Strings, lists and dictionaries organise simple records.
Code pattern
for sale in sales:
total += sale
if total > target:

bonus = total * 0.05
One-line recall Selection implements rules and slabs.
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CHAPTER 06
Computer Networks
Quick understanding
Explain communication components, network types, media, devices and internet services.
Core points Check your learning
Protocol is an agreed rule for communication. Design a small office network.
LAN, MAN and WAN differ mainly in scale and Compare wired and wireless media.
ownership.
Addressing and routing move data to the correct
destination.
One-line recall Protocol is an agreed rule for communication.
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CHAPTER 07
Cyber Security
Quick understanding
Protect systems and commercial data from malware, fraud, social engineering and unauthorised access.
Core points Check your learning
Confidentiality, integrity and availability are core Analyse a payment-fraud scenario.
goals.
Create a cyber-safety checklist for a
Strong authentication and backups reduce risk. business.
Human judgement is essential against phishing.
One-line recall Confidentiality, integrity and availability are core goals.
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CHAPTER 08
AI and its Applications
Quick understanding
Recognise how machine learning and intelligent systems support prediction, service and decision-making.
Core points Check your learning
AI systems learn patterns from data and may inherit Evaluate an AI use in commerce.
bias.
List benefits, risks and safeguards for
Applications include recommendation, fraud automated decisions.
detection and chat support.
Human oversight remains necessary for
accountability.
One-line recall AI systems learn patterns from data and may inherit bias.
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