Computer Applications

ORIGINAL STUDY COMPANION
PADIKAM
CLASS 12 | COMMERCE
Computer Applications -
Commerce
Kerala SCERT / prescribed NCERT core lessons
11 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.

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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://www.hsslive.in/2015/05/plus-two-2-new-text-booksscert.html
2. https://samagra.kite.kerala.gov.in/
3. https://www.hsslive.in/2015/06/plus-two-computer-application-notes.html

CHAPTER 01
Review of C++ Programming
Quick understanding
A reliable C++ program combines data types, expressions, input-output, conditions and loops in a
traceable sequence.
Core points Check your learning
Choose a data type that matches range and Explain the central idea of Review of C++
precision. Programming in your own words.
Operator precedence can be made explicit with Apply one idea from Review of C++
parentheses. Programming to a textbook-style
example or source.
Trace branches and loops with a table before
debugging syntax.

Code pattern
```
double amount, rate;
cin >> amount >> rate;
double interest = amount * rate / 100.0;
cout << interest;
```
One-line recall Choose a data type that matches range and precision.
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CHAPTER 02
Arrays
Quick understanding
An array stores same-type values in contiguous indexed positions and supports repeated processing with loops.
Core points Check your learning
Valid indices run from zero to size minus one. Explain the central idea of Arrays in your own words.
A two-dimensional array represents rows and columns. Apply one idea from Arrays to a textbook-style example or source.
Bounds errors can corrupt results even when code compiles.
Code pattern
```
int marks[5] = {72, 81, 90, 66, 88};
int total = 0;
for (int i = 0; i < 5; ++i) total += marks[i];
```
One-line recall Valid indices run from zero to size minus one.
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CHAPTER 03
Functions
Quick understanding
Functions divide a program into named, reusable operations with parameters, local variables and return values.
Core points Check your learning
A prototype tells the compiler the function interface. Explain the central idea of Functions in your own words.
Value parameters copy data; reference parameters can modify the caller object. Apply one idea from Functions to a textbook-style example or source.
Scope determines where a name is visible.
Code pattern
```
double simpleInterest(double p, double r, double t) {
return p * r * t / 100.0;
}
```
One-line recall A prototype tells the compiler the function interface.
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CHAPTER 04
Web Technology
Quick understanding
Business web services depend on clients, servers, protocols, addresses and resources working together.
Core points Check your learning
HTTP transfers requests and responses. Explain the central idea of Web Technology in your own words.

Adomain name is resolved through DNS.
Apply one idea from Web Technology to
Dynamic pages can use user input and stored data.
a textbook-style example or source.
One-line recall HTTP transfers requests and responses.
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CHAPTER 05
Web Designing Using HTML
Quick understanding
HTML structures business information with headings, links, tables, forms and semantic sections.
Core points Check your learning
Use tables only for tabular data. Explain the central idea of Web
Designing Using HTML in your own
Associate each input with a label.
words.
Keep structure meaningful before adding
Apply one idea from Web Designing
presentation.
Using HTML to a textbook-style example
or source.
Code pattern
<form action="order.php" method="post">
<label>Quantity <input name="qty" type="number" min="1"></label>
<button>Order</button>
</form>
One-line recall Use tables only for tabular data.
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CHAPTER 06
Client-Side Scripting Using JavaScript
Quick understanding
JavaScript gives immediate browser-side calculation, validation and interaction.
Core points Check your learning
Convert input text before doing arithmetic. Explain the central idea of Client-Side
Scripting Using JavaScript in your own
Events trigger functions in response to user action.
words.
Never trust client validation as the only security
Apply one idea from Client-Side Scripting
check.
Using JavaScript to a textbook-style
example or source.
Code pattern
function total(price, qty) {
return Number(price) * Number(qty);
}
One-line recall Convert input text before doing arithmetic.
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CHAPTER 07
Web Hosting
Quick understanding
Apublished business website needs suitable hosting, domain configuration, tested files and ongoing
maintenance.

Core points Check your learning
Hosting plans differ in capacity and control. Explain the central idea of Web Hosting
in your own words.
DNS connects names to services.
Apply one idea from Web Hosting to a
Backups, HTTPS and access control protect
textbook-style example or source.
continuity.
One-line recall Hosting plans differ in capacity and control.
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CHAPTER 08
Database Management System
Quick understanding
A business database organises customers, products and transactions while enforcing valid
relationships.
Core points Check your learning
A primary key identifies each row. Explain the central idea of Database
Management System in your own words.
Foreign keys connect related tables.
Apply one idea from Database
Transactions help preserve consistency when
Management System to a textbook-style
several changes belong together.
example or source.
One-line recall A primary key identifies each row.
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CHAPTER 09
Structured Query Language
Quick understanding
SQL answers business questions by selecting, joining, grouping and updating structured records.
Core points Check your learning
Use aggregate functions with correct grouping. Explain the central idea of Structured
Query Language in your own words.
JOIN prevents unrelated row combinations.
Apply one idea from Structured Query
Back up data and restrict destructive commands.
Language to a textbook-style example or
source.
Code pattern
SELECT Category, SUM(Amount) AS Total
FROM Sales
GROUP BY Category
ORDER BY Total DESC;
One-line recall Use aggregate functions with correct grouping.
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CHAPTER 10
Enterprise Resource Planning
Quick understanding
ERP integrates major business functions around shared processes and data.
Core points Check your learning
Modules may cover finance, sales, inventory and Explain the central idea of Enterprise
human resources. Resource Planning in your own words.

Integration reduces duplicate entry but increases dependence on data quality.
Implementation requires process study, training and change management.
One-line recall Modules may cover finance, sales, inventory and human resources.
Apply one idea from Enterprise Resource Planning to a textbook-style example or source.
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CHAPTER 11
Trends and Issues in ICT
Quick understanding
Modern ICT changes commerce through mobile services, cloud platforms, analytics and automation while creating ethical and security duties.
Core points
Technology adoption should solve a defined business need.
Privacy and accessibility are design requirements.
E-waste and energy use are part of system cost.
One-line recall Technology adoption should solve a defined business need.
Check your learning
Explain the central idea of Trends and Issues in ICT in your own words.
Apply one idea from Trends and Issues in ICT to a textbook-style example or source.
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