CLASS 12 Computer — LO's Aligned Monthly Split-up Syllabus (April 2026–March 2027) + Portion Boundaries + Exams + Weightage + Question Paper Design + Blueprint (For CM SoE)

Developed by:- Jharkhand Council Of Educational Research & Training (Curriculum Division)

Month	Teaching Days (Available)	NCERT Chapter Titles	Sub-topics / Portion Boundary	LOs (*LO Mapping - IDs)	Practicals / Activities (Minimum)	Assessment / Exams (प्रश्न पत्र एवं उत्तर कुंजिका निर्माण)
Apr 2026	23	Computational Thinking and Programming-II (Start)	Revision of Python topics covered in Class XI; Functions: built-in, module and user-defined functions; parameters and arguments; default parameters; positional parameters; return value(s); flow of execution; scope of variable. Portion boundary: Functions complete.	LO1	Function-writing drill; argument and scope activity; project topic selection.	Project RAIL (April portion): 05-05-2026; प्रश्न पत्र एवं उत्तर कुंजिका निर्माण : DIET Hazaribag एवं DIET Jamtara द्वारा
May 2026	14	Computational Thinking and Programming-II — Exception Handling + Text Files	Exception handling using try-except-finally; introduction to files; text file open modes; with clause; write(), writelines(), read(), readline(), readlines(). Portion boundary: Text file basics complete.	LO1, LO2	Text file read/write practicals; exception handling set.	Project RAIL (May portion): 16-06-2026; प्रश्न पत्र एवं उत्तर कुंजिका निर्माण : DIET Latehar एवं DIET Lohardaga द्वारा
Jun 2026	12	Computational Thinking and Programming-II — Binary File + CSV + Stack	seek() and tell(); text-file data manipulation; binary file operations using pickle; CSV file using csv module; stack operations using list. Portion boundary: Unit 1 programming tools substantially complete.	LO2, LO3	Binary file search/update; CSV practical; stack implementation using list.	Project RAIL (June portion): 07-07-2026; प्रश्न पत्र एवं उत्तर कुंजिका निर्माण : DIET Ramgarh एवं DIET Ranchi द्वारा
Jul 2026	23	Computer Networks (Start)	Evolution of networking; communication concepts; sender, receiver, message, media, protocols; bandwidth; data transfer rate; IP address; circuit switching and packet switching. Portion boundary: networking fundamentals complete.	LO4	Network terminology worksheet; IP address examples; switching comparison chart.	Project RAIL (July portion): 04-08-2026; प्रश्न पत्र एवं उत्तर कुंजिका निर्माण : DIET Simdega एवं DIET West Singhbhum द्वारा
Aug 2026	22	Computer Networks (Finish)	Transmission media; wired and wireless media; network devices; PAN, LAN, MAN, WAN; Bus, Star, Tree topology; protocols — HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS, TELNET, VoIP; WWW, HTML, XML, domain names, URL, website, web browser, server, hosting. Portion boundary: Unit 2 complete.	LO4	Media/device chart; topology comparison; protocol table; web basics worksheet.	Half Yearly Examination: 07-09-2026 to 12-09-2026 (covers Apr–Aug taught portion)
Sep 2026	14	Database Management (Start)	Database concepts; relational data model; relation, attribute, tuple, domain, degree, cardinality, keys; SQL introduction; DDL and DML; data types; constraints; create/show/use/drop database; create/describe/alter/drop table. Portion boundary: SQL structure complete; query practice started.	LO5	Student table creation; DDL exercises; half-yearly remediation.	Project RAIL (September portion): 06-10-2026; प्रश्न पत्र एवं उत्तर कुंजिका निर्माण : DIET Deoghar एवं DIET Dhanbad द्वारा
Oct 2026	21	Database Management (Finish)	insert, delete, select, operators, aliasing, distinct, where, in, between, order by, null, is null, is not null, like, update, aggregate functions, group by, having clause, joins: cartesian product, equi-join and natural join. Portion boundary: SQL complete.	LO5	SQL query sets on one table / two tables; join practice; result verification tasks.	Project RAIL (October portion): 03-11-2026; प्रश्न पत्र एवं उत्तर कुंजिका निर्माण : DIET Garhwa एवं DIET Giridih द्वारा

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Nov 2026	16	Python-SQL Connectivity + Quick Revision	Interface of Python with SQL database: connect(), cursor(), execute(), commit(), fetchone(), fetchall(), rowcount; insert/update/delete/display data; connectivity applications; use of %s format specifier or format(). Portion boundary: Full syllabus completed by Nov 2026.	LO2, LO5	Python-SQL connectivity programs; report file completion; project file review and viva preparation.	Syllabus completion target for Class 12: Nov 2026
Dec 2026	15	Full Syllabus Practice & Remedial	Mixed practice: functions, file handling, stack, networking, SQL, Python-SQL connectivity; competency and case-based practice.	LO1, LO2, LO3, LO4, LO5	2 full mock papers; practical file completion; project review; targeted remedial teaching.	Pre-Board + Remedial + Practice: 07-12-2026 to 12-12-2026 (Full syllabus)
Jan 2027	17	Revision + Sample Papers + Previous Year Questions + Pre-Board-II / Mock Test	Unit-wise and mixed revision; time management; answer-writing; debugging and case-based correction.	LO1, LO2, LO3, LO4, LO5	Timed Python + SQL practice; connectivity drill; viva rehearsal.	Pre-Board-II / Mock Test (Full syllabus): as per Board/school schedule
Feb 2027	18	Board Examination Preparation / Board Examination	Final revision and examination readiness; mixed practice of important terms, diagrams / numericals / source-based / case-based / application questions as applicable to the subject.		Rapid revision sheets + oral viva / practical / project support (where relevant) + teacher feedback.	Board Examination (as per Board schedule)
Mar 2027	20	Board Examination (continued, if applicable) / Post-exam Academic Support	Board examination continuation / light post-exam academic engagement, bridge work, reading / enrichment / record completion as applicable.		Bridge activities / portfolio / reading enrichment / feedback.	Board Examination / Post-exam school support (as applicable)

LOs (*LO Mapping - IDs)

LO ID	NCERT Learning Outcome
LO1	apply the concept of function
LO2	explain and use the concept of file handling
LO3	use basic data structure: Stacks
LO4	explain basics of computer networks
LO5	use Database concepts, SQL along with connectivity between Python and SQL

Distribution of Marks

Unit No.	Unit Name	Marks			
1	Computational Thinking and Programming -2	40			
2	Computer Networks	10			
3	Database Management	20			
	Total	70			

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Practical

S.No.	Unit Name	Marks (Total=30)			
1. Lab Test:	1. Python program (60% logic + 20% documentation + 20% code quality)	8			
	2. SQL queries (4 queries based on one or two tables)	4			
2. Report file:	*Minimum 15 Python programs. *SQL Queries – Minimum 5 sets using one table / two tables. *Minimum 4 programs based on Python – SQL connectivity	7			
3	Project (that uses most of the concepts that have been learnt in Classes 11 and 12)	8			
4	Viva voce	3			