

Week #	Operating System	Database	Development	Aptitude	Soft skills
Week 1	1) Linux introduction. 2) Booting linux, 3) Basic shell commands 4) File system structure. 5) Putty		1) Logic building. 2) HTML, CSS basics. 3) JS basics	Pattern matching. Simple sequences.	Reading out short contents. Writing simple 1 line sentences.
Week 2	1) Security of files. 2) Installing software on linux, 3) Basic shell scripting, 4) Execute programs. 5) vi editor		1) JS program elements. 2) Dev tools - Git. 3) Data structures - arrays, strings, dates processing	Pattern elimination. Medium complex sequences.	Reading documents. Writing summary of details.
Week 3	1) Running and stopping processes, 2) Status checks for process and ports		1) Angular material concepts. 2) Basic UI programming.	High complex sequences. Simple arithmetic.	Taking notes in meeting. Asking clarifications. Comprehension.
Week 4	1) Install webserver 2) Install database. 3) Monitor details on webserver. 4) Monitor details on database	1) Use of excel for basic data processing. 2) Excel filter, sum, sort, vlookup, pivot	1) Responsive UI. 2) Call to server side. 3) NodeJS basics. 4) Dialogs, pages, grids	Trace the origin of problem from case studies.	Right usage of instant messaging. Right usage of emails. Words to avoid.
Week 5	1) Know standard syslog, db log, app server log. 2) See how to infer from log files	1) RDBMS concepts. 2) CRUD methodology. 3) Table creation. 4) Insert data. 5) Basic select	1) NodeJS view/model. 2) Business logic programming. 3) Data validations on UI and server side. 4) Type script	Standard questions to ask and steps to take.	Conversing one to one.
Week 6		1) Basic update. 2) Basic Delete. 3) Select with where and order by	1) Connecting DB from NodeJS. 2) Workflow programming. 3) Event loop. 4) ES6 library	2 step derivation problems.	Conversing one to one.
Week 7		1) Select with group by, 2) Aggregate functions. 3) Update and Delete with where clauses	1) Code commit with multiple programmers. 2) Conflict resolution. 3) Build and deploy	3 step derivation problems.	Conversing in a team meeting.
Week 8		1) Index files. 2) Views. 3) Load data from csv files	1) Efficient unit testing. 2) Advanced CSS. 3) File system handling. 4) Managing routes	Basics of area, volume, length, distance.	Conversing in a team meeting.
Week 9		1) Commit and rollback. 2) Triggers	1) React basics. 2) Reusable UI libraries. 3) Declarative code	Physics basics	Time management. Daily duties. Going the extra mile.
Week 10		1) Stored procedures. 2) Stored functions.	Async operations, async IO, handling basic HTTP requests, templating, routing, using express, and build APIs, environment variables, set up PM2 or nodemon.	Chemistry basics	Reverse presentation.
Week 11		1) MongoDB basics. 2) NoSQL concepts	1) Create micro services. 2) Persist data. 3) Authentication services	Matrices and operations.	Reverse presentation.
Week 12		1) JSON processing. 2) Mongo shell 3) Collections, documents, key/values	1) Webpacks. 2) npm packages. 3) Single page applications.	Simple linear equations.	Handling crisis moments.
Week 13		1) Data modeling. 2) CRUD operations. 3) Query operators	1) State management. 2) Charting and visualization. 3) Redux and hooks	Simple linear equations.	Handling crisis moments.

Week 14		1) Mongo storage classes.	1) Application of advanced searching and sorting in enterprise programs 2) Report generation. 3) Application delivery as a package	3 variable linear equations.	Teach a junior.
Week 15		1) Aggregations in Mongo 2) Mongo index and performance aspects	1) Impact analysis based on change requests. 2) Avoiding regressions. 3) Dealing with large data/result sets. 4) Optimizing request/response	3 variable linear equations.	Teach a junior.
Week 16			1) Application of standard proven designs 2) Introduction to application performance monitoring. 3) APM data on CPU, Memory, Disk, Network and transactions. 4) APM data on web server and databases	Simple interest, compound interest.	Prepare for interview. Attend mock interviews.
Week 17			1) Introduction to security testing. 2) OWASP top 10 concepts. 3) Install burp suite 4) Conduct tests using burp suite. 5) How to do security bug fixes	Geography of India, word games	Prepare for interview. Attend mock interviews.
Week 18			Project	Geography of India, word games	Prepare for interview. Attend mock interviews.
Week 19			Project	Daily aptitude tests	Prepare for interview. Attend mock interviews.
Week 20			Project	Daily aptitude tests	Prepare for interview. Attend mock interviews.