

PCB AE EXAM 60 DAYS

Perfect for the focused, hardworking student aiming higher



CORE PRIORITIES

AREA	MODULES	WEIGHT	STRATEGY
Environmental & Chemical	IV & V	~60 Marks	Deep conceptual + numerical mastery
Civil Engineering	II & III	~30 Marks	Daily rotation with problem-based learning
Mathematics	I	~10 Marks	Daily practice (target 100% accuracy)

STRUCTURE OF THE PLAN

Phase 1 Foundation (Day 1 - 20)

Phase 2 Environmental & Chemical Core
(Day 21 - 45)

Phase 3 Final Revision & Mock Tests
(Day 46 – 60)

Phase 1 – Foundation (Day 1–20)

 **Focus:** Engineering Maths + Civil Fundamentals + Start Environmental basics

Day	Main Civil / Environment / Chemical Topics	Daily Maths Workout
1	Engineering Mechanics – Forces, Moments, Equilibrium	Matrices & Determinants
2	Strength of Materials – Stress, Strain, Elastic Constants	Eigen values & vectors
3	RCC – Design philosophies, Limit state concept	Partial Differentiation

Phase 1 – Foundation (Day 1–20)

Day	Main Civil / Environment / Chemical Topics	Daily Maths Workout
4	RCC – Singly & Doubly Reinforced Beams	Maxima & Minima (2 variables)
5	Steel Structures – Tension & Compression Members	Taylor & Maclaurin Series
6	Building Materials – Concrete, Admixtures, IS Codes	ODE (First Order)
7	Building Construction – Foundations, Masonry, Roofs	ODE (Second Order)

Phase 1 – Foundation (Day 1–20)

Day	Main Civil / Environment / Chemical Topics	Daily Maths Workout
8	Construction Management – CPM, PERT, Valuation	Laplace Transforms
9	Survey – Levelling, Contours, Theodolite	Complex Analysis basics
10	Fluid Mechanics – Properties of fluids, Flow types	Vector Differentiation
11	Fluid Mechanics – Pipe flow, Losses, Turbines	Gradient, Divergence, Curl


Phase 1 – Foundation (Day 1–20)

Day	Main Civil / Environment / Chemical Topics	Daily Maths Workout
12	Hydrology – Precipitation, Runoff, Hydrograph	Fourier Series
13	Irrigation – Duty, Delta, Crop Water Requirement	Partial Differentiation revision
14	Geotech – Soil Properties & Classification	Laplace Equation Practice
15	Geotech – Permeability, Compaction, Consolidation	Differential Eqns review

Phase 1 – Foundation (Day 1–20)

Day	Main Civil / Environment / Chemical Topics	Daily Maths Workout
16	Geotech – Bearing Capacity, Earth Pressure	Numerical methods overview
17	Transportation – Highway Geometric Design	Statistics & Probability
18	Transportation – Pavement Design & CBR	Regression & Correlation
19	Environmental – Water Demand, Population Forecast	Differential Eqns review
20	Environmental – Water Treatment (Sedimentation, Filtration)	Laplace practice + Test 1

Phase 2 – Environmental & Chemical Core (Day 21 – 45)

 **Priority:** Pollution control, wastewater, air & solid waste management + chemical processes.

Day	Core Topics	Daily Maths Workout
21	Sewer Design, BOD, COD, Sewer Appurtenances	Vector revision
22	Wastewater Treatment Units – Screening, Grit, Sedimentation	Laplace applications
23	Biological Treatment – ASP, Trickling Filter, RBC	ODE Test 2
24	Sludge Treatment – Digestion, Drying Beds	Series practice

Phase 2 – Environmental & Chemical Core (Day 21 – 45)

Day	Core Topics	Daily Maths Workout
25	Industrial Wastewater – Dairy, Paper, Tannery	Matrix & Determinant Test
26	Air Pollution – Sources, Effects, Dispersion Models	Probability practice
27	Air Pollution Control – Cyclone, ESP, Scrubber	Fourier review
28	Solid Waste Mgmt – Collection, Processing, Landfill	Gradient & Curl problems

Phase 2 – Environmental & Chemical Core (Day 21 – 45)

Day	Core Topics	Daily Maths Workout
29	E-Waste, Bio-Medical, Nuclear Waste, Noise Control	Vector Revision Test
30	Environmental Acts – Water Act, Air Act, EPA	Laplace Test 3
31	Environmental Mgmt – EIA, ISO 14001, EMS	Calculus recap
32	Climate Change, Kyoto, Montreal, Kigali Protocols	ODE mixed set

Phase 2 – Environmental & Chemical Core (Day 21 – 45)

Day	Core Topics	Daily Maths Workout
33	Sustainable Development, Green Building	Fourier practice
34	Renewable Energy, Carbon Credit & Trading	Probability revision
35	Process Calculations – Mole Concept, Material Balance	Matrix practice
36	Energy Balance, Heat Capacity, Enthalpy	Differential Eqn set

Phase 2 – Environmental & Chemical Core (Day 21 – 45)

Day	Core Topics	Daily Maths Workout
37	Thermodynamics – 1st & 2nd Law, Entropy	Laplace application
38	Reaction Engineering – Kinetics, Reactor Types	Series + Vector combo
39	Catalysis, Diffusion, Porous Media	Problem Test 4
40	Process Instrumentation – Pressure, Temperature, Flow	Complex Analysis revision

Phase 2 – Environmental & Chemical Core (Day 21 – 45)

Day	Core Topics	Daily Maths Workout
41	pH & Spectroscopic Analysis methods	Vector Test 5
42	Numerical Practice – Process Calc Problems	Quick Math Drill
43	Industrial Pollution Case Studies + ISO Standards	Formula Revision
44	Waste Minimisation & Cleaner Production	Practice Paper – Maths
45	Revision – Environmental & Chemical Modules	Combined Mock Maths Test

Phase 3 – Final Revision & Mock Tests (Day 46 – 60)

 **Goal:** Link theory application exam mindset.

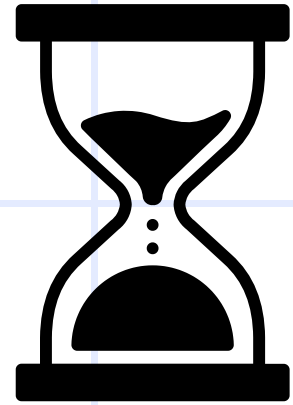
Day	Focus	Task
46 - 48	Civil Engineering Revision (Structures, Geotech, Survey)	Rapid short-notes review
49 - 51	Environmental Engineering Revision	Solve previous PSC & AE papers
52 - 54	Chemical & Process Engg Revision	Formula sheet & numerical test
55 - 56	Mock Test 1 & Analysis	Identify weak areas

Phase 3 – Final Revision & Mock Tests (Day 46 – 60)

Day	Focus	Task
57 - 58	Mock Test 2 & Topic Brush-up	Target weak modules
59	Full Syllabus Revision + Quick MCQs	Timed practice
60	Final Full-Length Mock + Reflection	Strategy for exam day

PCB AE
EXAM
60 DAYS

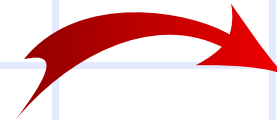
Daily Schedule Example



7 - 9 AM

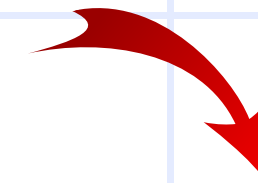


Mathematics Workout
(Problem practice)



10 - 1 PM

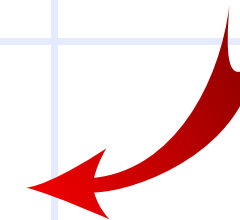
Core Subject Study
(Environmental or Chemical)



2 - 5 PM

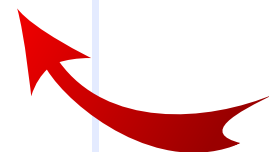


Civil Subject (Structures/
Geo/Fluid/Survey rotation)



MCQs + Short Revision

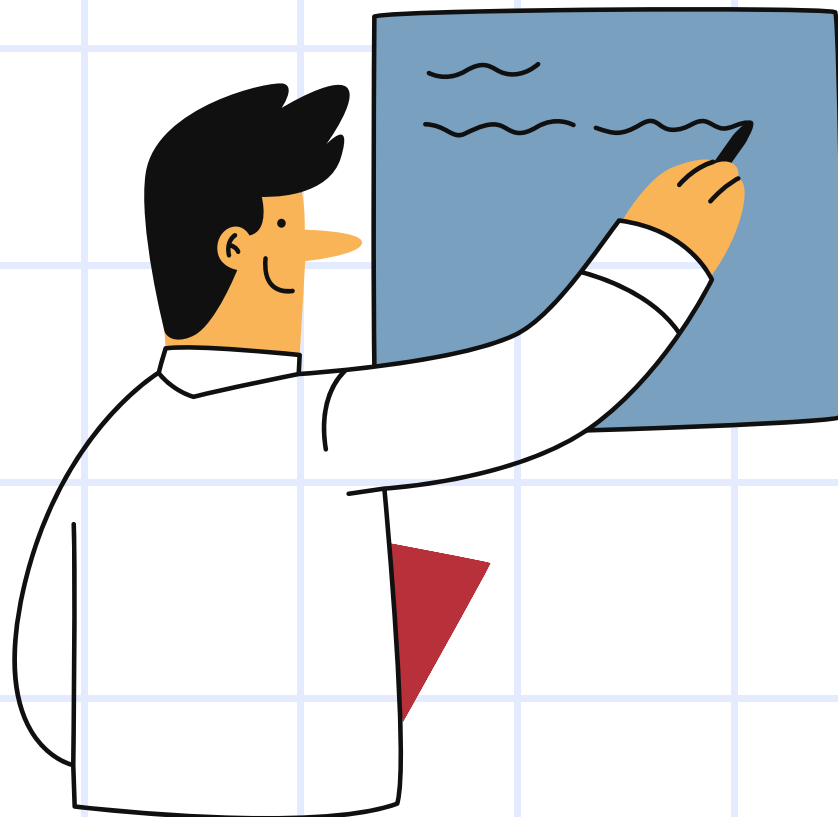
6 - 8 PM



15 min Summary
Notes Update

NIGHT

TIPS



- **Maintain three notebooks:**
Civil Core Notes
Environmental/Chemical Core
Maths Formula & Tricks
- **Weekly mini-test on Sundays (20 MCQs each from 3 modules).**
- **Use KPSC AE Previous Papers + GATE Civil Environmental sets for applied practice.**
- **Prioritize Module IV & V (60 marks total) → review thrice during the plan.**



PCB AE EXAM
2026 JAN 19 ന്

60

ദിവസം മാത്രം!

ഹരിത

PRE-recorded Classes

EXCLUSIVELY FOR

PCB AE

തയ്യാറെടുപ്പ് തുടങ്ങാം സിവില് റെസിനോടൊപ്പം

www.civilianz.com

FOR MORE DETAILS

82 81 00 33 66



All the best!

