

AE PWD Study Plan >>> 180 Days

CIVILIANZ
CENTRE FOR CIVIL ENGG. COMPETITIVE EXAMS
GATE · AE · JE-CIVIL

A Note Before You Begin

This journey you're starting is not just about cracking an exam — it's about building the discipline, knowledge, and confidence that will define your career as a Civil Engineer. Every topic in this plan is a step towards your goal, and every day you follow it brings you closer to success. There will be days when it feels tough, but remember — persistence beats talent when talent stops trying. Stay consistent, believe in yourself, and trust the process. Your hard work will speak for you in the exam hall.

*This study plan is carefully curated by the expert academic team at **Civilianz**, based on the latest Kerala PSC AE Civil exam trends and proven preparation strategies. However, we understand that **every student is unique** — so feel free to adapt this plan to your personal pace, strengths, and learning style while ensuring complete syllabus coverage.*

The Civilianz Code

- **Follow the Plan with Discipline** – This schedule is designed to cover the syllabus completely and strategically. Missing a day can create gaps, so stick to it as much as possible.
- **Be Consistent** – Small, regular efforts are far more effective than long, irregular study bursts.
- **Understand Before You Memorize** – Focus on conceptual clarity first; formulas and facts will stay longer when you understand their application.
- **Revise Frequently** – Keep a separate revision notebook for formulas, definitions, and key concepts.
- **Practice PYQs Daily** – This will familiarise you with question patterns and difficulty levels of Kerala PSC exams.
- **Time Management is Key** – Train yourself to solve questions within a fixed time limit.
- **Use Short Notes** – Maintain concise notes for each topic for quick revision before the exam.
- **Stay Healthy & Rest Well** – Balanced sleep, good food, and short breaks improve focus and retention.
- **Trust the Process** – Follow this plan sincerely, and you will see progress over time.
- **Customise if Needed** – If certain topics take you more or less time than scheduled, adjust the plan — but make sure every subject gets its due attention.

About this Plan- The Sprint Method

Your preparation journey is divided into **5-day segments** called “Sprints”.
In each sprint, you’ll work on **two subjects every day**:

- 1. **Everyday Subject** – A lighter, general study area to keep your pace consistent and cover broader ground.
- 2. **Core Subject** – A technical topic that demands deeper focus, problem-solving, and concept mastery.

This plan follows a **Flash Study with Frequent Revision Strategy** — designed to keep your mind sharp, retain concepts longer, and make sure nothing slips away before the exam.

A significant portion of the schedule is **dedicated purely to revision and question practice**. This isn’t by accident — frequent, focused revision is what transforms a topic from “studied” to “thoroughly mastered.” By revisiting subjects multiple times in quick cycles, you’ll not only strengthen your memory but also spot patterns, link concepts, and solve problems with confidence.

Remember — **every sprint is a step forward**, and with each one, you’re building not just knowledge, but exam-day readiness.

Class & Study Schedule

SPRINT 1			
Day	Learn Everyday Subject	Core Topics	Subject
Day 1	BRICK	Population Forecasting & Water demand, Source and Conveyance of water	EE
Day 2	BRICK MASONRY	Orgin of soil,Basic properties of soil, Index Properties of soil	GT
Day 3	STONE MASONRY	Soil Classification and Soil structure, soil permeability	GT
Day 4	LIME	Quality of water- Physical, Chemical, Biological	EE
Day 5	STONE	Full topics	ESTIMATION
Day 6	Question workout		

SPRINT 2			
Day	Learn Everyday Subject	Core Topics	Subject
Day 7	CEMENT	Force, system of force, motion, centroid	EM
Day 8	LINTEL	Plain sedimentation, Coagulation, Filtration	EE
Day 9	ARCH	Effective Stress, Seepage Analysis, Stress distribution	GT
Day 10	STAIR	Disinfection, Distribution system, miscellaneous water treatment	EE
Day 11	TIMBER	Consolidation and Compaction	GT
Day 12	Question workout		

Your Daily Checkpoint

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“Start the day by revising yesterday’s concepts — knowledge builds like concrete, layer by layer.”

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SPRINT 3			
Day 13	MORTAR	Full topics	ESTIMATION
Day 14	CARPENTRY & JOINERY	Introduction to waste water engg, Hydraulic design of sewer, sewer appurtances & sewer types	EE
Day 15	METALS AND ALLOYS	Shear strength of soil, stability of slopes, lateral earth pressure	GT
Day 16	DOORS & WINDOWS	Friction, Elastic bodies, SHM, Work Energy power	EM
Day 17	ROOF 1	Characteristics of sewage, sewage treatment, disposal of waste	EE
Day 18	Question workout		

SPRINT 4			
Day 19	CEMENT	Full topics	EM
Day 20	ROOF 2	Bearing capacity of soil, shallow foundation, pile foundation, soil exploration	GT
Day 21	DAMP PROOFING	Solid waste Management, Air pollution, Noise pollution, House Drainage, Sanitary fittings, Plumbing systems, Miscellaneous topics	EE
Day 22	PLASTICS	Full topics	EM
Day 23	BRACING & FORM WORK	Full topics	GT
Day 24	DOORS AND WINDOWS	Brick, Brick masonry, stone, stone masonry, lime	BM
Day 25	Question workout		



“Allocate at least 15 minutes a day for formula recall — they’re your tools in the exam workshop.”

SPRINT 5			
Day 26	POINTNG	Full topics	EE
Day 27	TILES	Stress and strain	MOS
Day 28	DEEP FOUNDATION	History of roads, Highway alignment, Highway crosssection elements, sight distance	TE
Day 29	ARCH	Introduction , Precipitation, measurement of rainfall, losses in precipitation	HYDROLOGY
Day 30	PLASTERING	Cement, Lintel, Arch, Stair, Timber	BMC
Day 31	Question workout		

SPRINT 6			
Day 32	PAINTS & VARNISHES	Design of horizontal curves, Extra widening of curves, Transition curves, Gradient	TE
Day 33	FOUNDATION ENGINEERING	Brick, Brick masonry, Stone, Stone Masonry, Lime, Cement	BMC
Day 34	CONCRETE TECHNOLOGY	Vertical curves, Highway materials and testing, Design of pavements	TE
Day 35	ESTIMATION	Principal Stress & Strain, Strain energy	MOS
Day 36	Question workout		

Your Daily Checkpoint

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SPRINT 7			
Day 37	BRICK	Design of pavements, Traffic Engg	TE
Day 38	BRICK MASONRY	Shear force and Bending moment	MOS
Day 39	STONE	Traffic Engg, Hill roads, Low cost roads, Railway	TE
Day 40	STONE MASONRY	REVISION	GT
Day 41	LIME	Railway & airport	TE
Day 42	CONCRETE TECHNOLOGY	Runoff, Hydrographs, Ground water hydrology	HYDROLOGY
Day 43	Question workout		

SPRINT 8			
Day 44	BRICK	Design of pavements, Traffic Engg	TE
Day 45	BRICK MASONRY	Shear force and Bending moment	MOS
Day 46	STONE	Traffic Engg, Hill roads, low cost roads, Railway	TE
Day 47	STONE MASONRY	REVISION	GT
Day 48	LIME	Railway & airport	TE
Day 49	CONCRETE TECHNOLOGY	Runoff, Hydrographs, Ground water hydrology	HYDROLOGY
Day 50	Question workout		

Your Daily Checkpoint

“Don’t just solve problems, understand the ‘why’ behind each solution.”

SPRINT 9			
Day 51	ARCH	Full topics	TE
Day 52	CEMENT	Classification of crops, Design of canals, Cross drainage works, Bridge and tunnelling	IRRIGATION
Day 53	LINTEL	Theory of simple bending & shear stress in beams	MOS
Day 54	STAIR	Full topics	TE
Day 55	MORTAR	Hydology full topic	HYDROLOGY
Day 50	Question workout		


SPRINT 10			
Day 51	TIMBER	Deflection of beams	MOS
Day 52	METALS AND ALLOYS	Full topics	TE
Day 53	FLOOR	Torsion, Spring, Thin & Thick shells, Columns	MOS
Day 54	ROOF		
Day 55	Question workout		

SPRINT 11			
Day 56	BRACING & FORM WORK	Shear, Torsion, Slab	RCC
Day 57	TYPES OF BUILDING	Properties of fluids, Pressure and its measurements	FM
Day 58	COFFERDAM & CAISSON	Fluid Statics, Buoyancy, Fluid Kinematics	FM
Day 59	Question workout		

Your Daily Checkpoint

“Mark every tough question you face today — they’ll be your revision checkpoints later.”

SPRINT 12			
Day 60	BRACING & FORM WORK	Shear, Torsion, Slab	RCC
Day 61	TYPES OF BUILDING	Properties of fluids, Pressure and its measurements	FM
Day 62	COFFERDAM & CAISSON	Fluid Statics, Buoyancy, Fluid Kinematics	FM
Day 63	Question workout		

SPRINT 13			
Day 64	SITE INVESTIGATION	Column, Footing, Bond	RCC
Day 65	PAINTS & VARNISHES	Boundry Layer, open channel flow	FM
Day 66	BUILDING BY LAWS	Fluid Dynamics, Notches, Weirs, Orifices, Mouth piece, Flow through pipes, viscous flow	FM
Day 67	DAMP PROOFING	Revision: Methods of irrigation, Diversion head works, dams, spillways	IRRIGATION
Day 68	RAILWAY	Dimension analysis & Model analysis, Fluid Dynamics, Notches, Weirs, Orifices, Mouth piece, Flow through pipes, Viscous flow	FM
Day 69	CONCRETE TECHNOLOGY	Limit state of serviceability, Prestressed, Water tank and Miscellaneous topics	RCC
Day 70	 Question workout		

Your Daily Checkpoint

“Mix theory and numericals daily — a strong structure needs both design and execution.”

SPRINT 14			
Day 71	BUILDING BY LAWS	Hydraulic machines and Impact of Jet	FM
Day 72	RAILWAY	Full topics	RCC
Day 73	CONCRETE TECHNOLOGY	Full Topics	FM
Day 74	UPA	Revision: Classification of crops, Design of canals, Cross Drainage works, Bridge and tunnelling	IRRIGATION
Day 75	CPM	REVISION	RCC
Day 76	Question workout		

SPRINT 15			
Day 77	FLOOR	Steel Fastners	STEEL
Day 78	ROOF 6	Tension Member	STEEL
Day 79	FLOOR	Compression Member, Beam, Plate girders, Industrial Roofs	STEEL
Day 80	AIRPORT	Deflection in Beams and Frames	SA
Day 81	CPM	Survey Fundamentals, Chain survey, Compass Survey, Plane table, levelling	SURVEY
Day 82	ESTIMATION	Full Topics- REVISION	ESTIMATION

Your Daily Checkpoint

“Stay honest with your timings — exam success is as much about speed as it is about accuracy.”

SPRINT 16			
Day 83	FLOOR	Steel Fastners	STEEL
Day 84	ROOF 6	Tension Member	STEEL
Day 85	FLOOR	Compression Member, Beam, Plate girders, Industrial Roofs	STEEL
Day 86	AIRPORT	Deflection in Beams and Frames	SA
Day 87	CPM	Survey Fundamentals, Chain survey, Compass Survey, Plane table, levelling	SURVEY
Day 88	ESTIMATION	Full Topics- REVISION	ESTIMATION

SPRINT 17			
Day 89	FLOOR	Steel Fastners	STEEL
Day 90	ROOF 6	Tension Member	STEEL
Day 91	FLOOR	Compression Member, Beam, Plate girders, Industrial Roofs	STEEL
Day 92	AIRPORT	Deflection in Beams and Frames	SA
Day 93	CPM	Survey Fundamentals, Chain survey, Compass Survey, Plane table, levelling	SURVEY
Day 94	ESTIMATION	Full Topics- REVISION	ESTIMATION

Your Daily Checkpoint

“Stay honest with your timings — exam success is as much about speed as it is about accuracy.”

SPRINT 18			
Day 95	FLOOR	Steel Fastners	STEEL
Day 96	ROOF 6	Tension Member	STEEL
Day 97	FLOOR	Compression Member, Beam, Plate girders, Industrial Roofs	STEEL
Day 98	AIRPORT	Deflection in Beams and Frames	SA
Day 99	CPM	Survey Fundamentals, Chain survey, Compass Survey, Plane table, levelling	SURVEY
Day 100	ESTIMATION	Full Topics- REVISION	ESTIMATION

SPRINT 19			
Day 101	CPM	Survey Fundamentals, Chain survey, Compass Survey, Plane table, levelling	SURVEY
Day 102	BRICK MASONRY	Plastic Analysis	STEEL
Day 103	STONE MASONRY	Full Topics	STEEL
Day 104	ROOF 7	Classification of structures- arches and truss	SA
Day 105	DOOR	Contouring, Theodolite, Triangulation, Tacheometry, Curve, Hydrographic survey, Adv. Survey	SURVEY
Day 106	Question workout		

Your Daily Checkpoint

“If you get stuck, break the problem into smaller parts — just like breaking down a construction phase.”

GATE • SPRINT 20 • JE-CIVIL			
Day 107	BRICK	Full Topics	SURVEY
Day 108	BRICK	REVISION	EM
Day 109	STONE	REVISION	GT
Day 110	ESTIMATION	REVISION	EM
Day 111	MASONRY	REVISION	SA
Day 112	Question workout		

SPRINT 21			
Day 113	BRICK	Full Topics	SURVEY
Day 114	BRICK	REVISION	EM
Day 115	STONE	REVISION	GT
Day 116	ESTIMATION	REVISION	EM
Day 117	MASONRY	REVISION	SA
Day 118	Question Workout		

Your Daily Checkpoint

“Drink water, take a short walk, then return with a fresh mind — even machines need cooling time.”

RANKBOOSTER + REVISION STUDY PLAN (SPRINT 22)		
Day 119	BRICK	EE
Day 120	BRICK MASONRY	EE
Day 121	STONE	EE
Day 122	STONE MASONRY	EE
Day 123	LIME	EE
Day 124	REVISION	

RANKBOOSTER + REVISION STUDY PLAN (SPRINT 23)		
Day 125	ARCH	TE
Day 126	CEMENT	TE
Day 127	LINTEL	TE
Day 128	MORTAR	TE
Day 129	STAIR	TE
Day 130	REVISION	

Your Daily Checkpoint

“Teach today’s topic to someone else — it’s the best way to test your own clarity.”

RANKBOOSTER + REVISION STUDY PLAN (SPRINT 24)		
Day 131	TIMBER	RCC
Day 132	DOORS & WINDOWS	RCC
Day 133	CARPENTARY & JOINERY	RCC
Day 134	METALS AND ALLOYS	RCC
Day 135	FLOOR	RCC
Day 136	REVISION	

RANKBOOSTER + REVISION STUDY PLAN (SPRINT 25)		
Day 137	ROOF	HYDROLOGY
Day 138	GLASS	HYDROLOGY
Day 139	ROOF	IRRIGATION
Day 140	DAMP PROOFING	IRRIGATION
Day 141	PLASTICS	IRRIGATION
Day 142	REVISION	

Your Daily Checkpoint

“End the day by listing 3 things you learned — tomorrow, you’ll build on them.”

RANKBOOSTER + REVISION STUDY PLAN (SPRINT 26)		
Day 143	BRACING & FORM WORK	FM
Day 144	TYPES OF BUILDING	FM
Day 145	BUILDING BY LAWS	FM
Day 146	TILES	FM
Day 147	COFFERDAM & CAISSON	FM
Day 148	REVISION	

RANKBOOSTER + REVISION STUDY PLAN (SPRINT 27)		
Day 149	SITE INVESTIGATION	STEEL
Day 150	PAINTS & VARNISHES	STEEL
Day 151	FOUNDATION ENGINEERING	STEEL
Day 152	ESTIMATION	STEEL
Day 153	ESTIMATION	STEEL
Day 154	REVISION	

Your Daily Checkpoint

“Carry forward any unfinished topics — never leave a foundation half-laid.”

RANKBOOSTER + REVISION STUDY PLAN (SPRINT 28)		
Day 155	ESTIMATION	EM
Day 156	CT	EM
Day 157	CT	GT
Day 158	CT	GT
Day 159	CPM	GT
Day 160	REVISION	

RANKBOOSTER + REVISION STUDY PLAN (SPRINT 29)		
Day 161	CPM	GT
Day 162	CPM	GT
Day 163	GT	RAILWAY
Day 164	TE	RAILWAY
Day 165	TE	RAILWAY & AIRPORT
Day 166	REVISION	

Your Daily Checkpoint

“Challenge yourself with one extra problem daily — growth happens outside comfort zones.”

RANKBOOSTER + REVISION STUDY PLAN (SPRINT 30)		
Day 167	STEEL	MOS
Day 168	RCC	MOS
Day 169	RCC	MOS
Day 170	UPA	MOS
Day 171	UPA	MOS
Day 172	FULL REVISION	SA

RANKBOOSTER + REVISION STUDY PLAN (SPRINT 31)		
Day 173	FULL REVISION	SURVEY
Day 174	FULL REVISION	SURVEY
Day 175	FULL REVISION	SURVEY
Day 176	FULL REVISION	RCC
Day 177	FULL REVISION	RCC
Day 178	FULL REVISION	GT
Day 179	FULL REVISION	GT
Day 180	FULL REVISION	GT

Marching to the Finish Line

Remember, this plan was designed not just to cover the syllabus, but to strengthen your understanding through **frequent revisions, question practice, and strategic sprints**. The true key to success lies in how consistently you’ve executed it and how effectively you’ve adapted it to your own pace and strengths.

In these final days before the exam, focus on:

- **Revision over new learning** – consolidate what you already know.
- **Question practice under timed conditions** – simulate the real exam.
- **Maintaining calm and confidence** – a prepared mind performs best.

This is your moment to bring together **months of hard work, discipline, and dedication**. Walk into the exam hall knowing you’ve built your preparation like a well-engineered structure – strong, balanced, and ready to perform under pressure.

Civilianz wishes you the very best.
Now go, and make your success inevitable.

- Engineered with Precision & Heart

❤️**Civilianz Family**