

RGPV 2nd Semester Study Timetable

Date Range: 18 June 2025 – 15 July 2025

Final paper begins: 16 July 2025

Subjects Covered:

1. Engineering Chemistry
2. Basic Electrical & Electronics Engineering (BEEE)
3. Mathematics-II (M-2)
4. Engineering Graphics
5. English for Communication

This timetable is designed to help you systematically cover all important topics, balance theory with practice, and include regular revision plus mock tests.

Generated on: 18 June 2025

Important Topics by Subject (RGPV Syllabus-Aligned)

Engineering Chemistry:

- Water & Boiler Feed Water – hardness, softening (lime-soda, zeolite, ion-exchange), desalination, standards
- Polymers & Composites – mechanisms, specialty polymers, FRP
- Phase Rule & Alloys – water system, heat treatment
- Fuels & Combustion – analysis, calorific value, fuel cells
- Corrosion & Surface Chemistry – electrochemical corrosion, prevention, adsorption, nanomaterials

BEEE:

- DC Circuits – KVL, KCL, network theorems
- AC Circuits – phasors, resonance, power factor, 3-phase basics
- Magnetic Circuits & Transformers – tests, efficiency
- Electrical Machines – DC, induction basics
- Electronics – PN diode, rectifiers, BJT/FET, op-amps, logic gates

Mathematics-II (M-2):

- Differential Equations – 2nd order, Cauchy-Euler, applications
- Series Solutions – Bessel & Legendre functions
- Laplace Transform & Inverse, applications
- Fourier Series & Basics of Fourier Transform
- Vector Calculus – grad, div, curl, integral theorems

Engineering Graphics:

- Orthographic Projections – principal & missing views
- Isometric Projection & Dimensioning
- Sections of Solids
- Development of Surfaces
- Intersection of Solids & Intro to CAD

English for Communication:

- Grammar – articles, tenses, voice, narration

- Vocabulary building & usage
- Technical Writing – reports, letters, e-mails, CV
- Comprehension & précis
- Presentation & Group Discussion skills

Daily Study Blocks & Weekly Rotation

Daily Time Blocks:

- Morning (08:00-10:00) – Theory Block A
- Late Morning (10:30-12:30) – Theory Block B
- Afternoon (15:00-17:00) – Practice / Drawing
- Evening (19:00-21:00) – Quick Revision + English

Subject Rotation (18 June → 13 July):

- Monday: M-2 (Block A) + Engineering Chemistry (Block B)
- Tuesday: BEEE (A) + Engineering Graphics (B)
- Wednesday: M-2 (A) + BEEE (B)
- Thursday: Engineering Chemistry (A) + Engineering Graphics (B)
- Friday: M-2 (A) + Engineering Chemistry (B)
- Saturday: BEEE (A) + Engineering Graphics (B)
- Sunday: Weekly Revision + Mock Test / Previous Papers

Mock Tests:

- 29 June (Sunday) – Full syllabus test 1
- 06 July (Sunday) – Full syllabus test 2
- 13 July (Sunday) – Final rehearsal test

Last Three Days (14-15 July):

- ▷ 14 July – Formula & Concept Flashcards + Weak-area drills
- ▷ 15 July – Complete rest by evening; light revision only
- ▷ 16 July – Go ace the exam!

Week-wise Milestones & Focus

Week 1 (18-22 Jun):

- M-2: Differential Equations Units 1-2
- Eng. Chemistry: Water chemistry & treatment
- BEEE: DC circuits basics
- Eng. Graphics: Orthographic projections fundamentals

Week 2 (23-29 Jun):

- M-2: Laplace Transform & applications
- Eng. Chemistry: Polymers & composites
- BEEE: AC circuits & power factor
- Eng. Graphics: Isometric projection & dimensioning

Week 3 (30 Jun-06 Jul):

- M-2: Fourier Series, Vector Calculus
- Eng. Chemistry: Fuels, combustion, phase rule
- BEEE: Transformers & machines basics
- Eng. Graphics: Sections & development of surfaces

Week 4 (07-13 Jul):

- Comprehensive Revision & Mock Tests
- Previous year question papers practice
- English: Presentation rehearsal & writing drills

Week 5 (14-15 Jul):

- Final revision, flashcards, rest & mental prep