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RGPV B.Tech – ECE 3rd Semester Syllabus

📚 Core Subjects

BT-301: Mathematics-III

Numerical methods, Laplace and Fourier transforms, probability distributions, and statistical techniques. Applications in signal processing and systems.

EC-302: Electronic Measurements & Instrumentation

Measurement systems, error analysis, CRO, voltmeters, multimeters, power meters, and calibration techniques.

EC-303: Digital System Design

Boolean algebra, logic gates, combinational and sequential circuits, flip-flops, counters, and memory devices.

EC-304: Electronic Devices

Semiconductor physics, diodes, BJTs, FETs, MOSFETs, and optoelectronic devices. Includes biasing and small-signal models.

EC-305: Network Analysis

Circuit laws, mesh and nodal analysis, transient response, Laplace transforms, and frequency domain analysis.

🧪 Labs & Practicals

EC-306: Electronic Measurements Lab

Experiments on CRO, multimeters, signal generators, and calibration methods. Emphasis on accuracy and instrumentation.

EC-307: Digital System Design Lab

Logic gate implementation, flip-flops, counters, and multiplexers using simulation tools and breadboard setups.

EC-308: Electronic Devices Lab

Diode and transistor characteristics, biasing circuits, and amplifier configurations.

📥 Download Official Syllabus

- [Career Shiksha – ECE 3rd Sem Breakdown](#)
- [RGPV Scheme Portal](#)