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RGPV B.Tech – ECE 4th Semester Syllabus

📚 Core Subjects

ES-401: Energy & Environmental Engineering

Covers energy systems, sustainability, ecosystems, biodiversity, pollution control, and environmental ethics. Includes case studies and disaster management.

EC-402: Signals & Systems

Time and frequency domain analysis, Laplace and Fourier transforms, convolution, sampling, and system properties. Includes LTI systems and stability.

EC-403: Analog Communication

AM, FM, PM modulation techniques, transmitters, receivers, noise analysis, and bandwidth considerations. Includes analog signal transmission and reception.

EC-404: Control Systems

Feedback systems, transfer functions, stability analysis, root locus, Bode plots, and PID controllers. Includes time and frequency domain techniques.

EC-405: Analog Circuits

Amplifiers, oscillators, filters, multivibrators, and feedback circuits using BJTs and FETs. Includes small-signal and large-signal analysis.

🧪 Labs & Practicals

EC-406: Simulation Lab

MATLAB/Simulink-based experiments on signal processing, control systems, and analog communication. Includes modeling and simulation tasks.

EC-407: Analog Communication Lab

Experiments on modulation/demodulation, signal generation, and receiver design using kits and simulation tools.

EC-408: Analog Circuits Lab

Design and testing of amplifier circuits, oscillators, and filters using breadboards and simulation software.

📥 Download Official Syllabus

- [Career Shiksha – ECE 4th Sem Breakdown](#)
- [RGPV Scheme Portal](#)