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RGPV B.Tech – 2nd Semester Syllabus (Common to All Branches)



Core Subjects

BT-201: Engineering Mathematics-II

Topics include vector calculus, multiple integrals, complex numbers, Fourier series, and partial differential equations. Applications in engineering modeling and analysis.

BT-202: Engineering Chemistry

Covers chemical bonding, thermodynamics, electrochemistry, polymers, nanomaterials, and water treatment. Emphasis on industrial relevance and lab applications.

BT-203: Basic Mechanical Engineering

Introduces thermodynamics, IC engines, refrigeration, power transmission, and manufacturing processes. Includes mechanical systems and energy conversion.

BT-204: Computer Programming

Covers C language fundamentals, data types, control structures, functions, arrays, pointers, file handling, and basic algorithms. Focus on structured programming.

BT-205: Environmental Studies

Topics include ecosystems, biodiversity, pollution control, environmental ethics, and sustainable development. Includes case studies and field awareness.



Labs & Practicals

BT-206: Engineering Chemistry Lab

Experiments include titration, viscosity, conductivity, water analysis, and polymer synthesis. Focus on chemical techniques and safety.

BT-207: Mechanical Engineering Workshop

Hands-on with carpentry, fitting, welding, sheet metal, and machine tools. Students learn basic fabrication and safety protocols.

BT-208: Computer Programming Lab

Practical sessions on C programming, debugging, and algorithm implementation. Includes mini-projects and structured coding exercises.



Download Official Syllabus

- [RGPV Scheme Portal](#)
- [Career Shiksha Breakdown](#)
- [Kopykitab Syllabus Hub](#)