SANT GADGE BABA AMRAVATI UNIVERSITY GAZETTE

Official Publication of Sant Gadge Baba Amravati University

PART- TWO

(Extra Ordinary)

Tuesday, the 10th February, 2026

NOTIFICATION

No. 21/2026 Date: 10/02/2026

Subject: Implementation of new syllabus of Semester IV of the Under-graduate Courses of various branches of Engineering & Technology stream as per NEP-2020.

It is notified for general information of all concerned that the authorities of the University have accepted to implement the new syllabus of the Subject **Principles of Economics & Management/Engineering Economics/ Social Science & Engineering Economics** of Semester IV of the Under-graduate Courses as per NEP-2020 guidelines which is common for the branches Mechanical Engineering, Electronics & Telecommunication Engineering, Computer Science & Engineering, Computer Engineering, Artificial Intelligence & Data Science, Computer Science & Engineering (Data Science), Electrical Engineering, Electrical Engineering (Electronics & Power), Chemical Engineering, Chemical Technology (Food, Pulp & Paper, Oil & Paint and Petrochemical Tech.) to be implemented from the academic session 2025-2026 & onwards as mentioned below:

Principles of Economics & Management/ Engineering Economics/Social Science & Engineering Economics

[4ME217EM/4ET217EM/4CS217EM/4KE217EM/4AD217EM/4DS217EM/4EP217EM/4EE217EM/4CH217EM/4CT218EM]

Lecture: **02 Hrs/w** Tutorial: **0**
University Exam: **30** Internal Assessments: **20**
Credits: **02** Teaching Scheme: **20 Hours**
Theory Paper (Hrs.): **02:00 Hrs**

Course Objectives:

To provide engineering students from diverse disciplines with basic economic reasoning, cost awareness, and entrepreneurial orientation, enabling them to understand business, startup, and societal applications of engineering knowledge.

Course Outcomes (Cos)

After completing this course, the students will be able to:

- Understand basic economic concepts relevant across disciplines
- Apply cost and demand concepts in real-life engineering and business situations
- Identify entrepreneurial opportunities and prepare a basic project idea
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UNIT–I: Basics of Engineering Economics: [Marks: 10]

Meaning and Scope of Engineering Economics. Role of Economics in Multidisciplinary Engineering Decisions. Basic Economic Concepts: Scarcity, Choice, Opportunity Cost, Utility and Marginal Utility. Demand Analysis: Meaning and Types of Demand, Determinants of Demand, Elasticity of Demand. Demand Forecasting: Purpose and Importance, Methods of forecasting. **(7 Hours)**

UNIT–II: Cost Concepts and Break-even Analysis: [Marks: 10]

Factors of Production and Production Function. Cost Concepts: Fixed and Variable Cost, Average and Marginal Cost. Break-even Analysis: Concept, Assumptions and Significance, Break-even Chart. Depreciation: Meaning and Need, Straight Line and Written Down Value Method, Basic Idea of Taxation for Engineers. **(7 Hours)**

UNIT–III: Entrepreneurship and Project Awareness: [Marks: 10]

Concept and Importance of Entrepreneurship in Engineering, Entrepreneurial Traits and Competencies. Types of Enterprises: Manufacturing, Service, Startup, MSME. Government Support System: Role of District Industries Centre (DIC), Banks and Financial Institutions. Product / Service Selection: Basic Factors. Introduction to Project Report: Market Feasibility, Technical Feasibility, Financial Feasibility Overview. Concept of Working Capital. **(6 Hours)**

Reference Books:

1. Managerial Economics by D. Salvatore, Tata McGraw Hill.
2. Entrepreneurship Development by C. B. Gupta & P. Srinivasan.
3. MSME & Startup India official publications.
4. Management Accounting by Khan M. Y., Jain P. K., Tata McGraw Hill, 1995.
5. Environmental Engineering and Management by Suresh K. Dhamija, S. K. Kataria and Sons, New Delhi.
6. Entrepreneurship: New Venture Creation – David H. Holt.
7. Handbook of Small Scale Industry by P. M. Bhandari.
8. Managerial Economics, V. L .Mote McGraw-Hill.

Sd/-
(Dr.Avinash Asanare)
Registrar
Sant Gadge Baba Amravati University

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