

AUTONOMOUS

(Approved by AICTE, New Delhi, Accredited by NBA (CIV,ECE,MECH,CSE), NAAC with 'A+' grade & Permanently Affiliated to JNTU-GV, Vizianagaram)

Dakamarri, Bheemunipatnam Mandal, Visakhapatnam Dist. – 531 162 (A.P.)

Ph: +91-8922-248001, 248002 Fax: +91-8922-248011

E-mail: principal@raghuenggcollege.com website: www.raghuenggcollege.com

RAGHU ENGINEERING COLLEGE (AUTONOMOUS) VISAKHAPATNAM

(Approved by AICTE, New Delhi, Accredited by NBA (CIV,ECE,MECH,CSE), NAAC with 'A+' grade & Permanently Affiliated to JNTU-GV, Vizianagaram)

Dakamarri, Bheemunipatnam Mandal, Visakhapatnam Dist. – 531 162 (A.P.) Ph: +91-8922-248001, 248002 Fax: +91-8922-248011

E-mail: principal@raghuenggcollege.com website: www.raghuenggcollege.com

INSTITUTE VISION

Envisioning to be a world class technical institution by synergizing quality education with ethical values.

INSTITUTE MISSION

- To encourage training and research in cutting-edge technologies.
- To develop and strengthen strategic links with the industry.
- To kindle the zeal among the students and promote their quest for academic excellence.
- To encourage extra-curricular activities along with good communication skills.

OUALITY POLICY

RAGHU Engineering College underscores ethical values along with innovative teaching through an interactive, activity-based pedagogy; establishes the best of infrastructural facilities, inculcates engineering temper among the students through the use of the latest Information and Communication Technologies, and strives for an efficient, responsive and transparent administration in all areas.

REC SULL

RAGHU ENGINEERING COLLEGE

AUTONOMOUS

(Approved by AICTE, New Delhi, Accredited by NBA (CIV,ECE,MECH,CSE), NAAC with 'A+' grade & Permanently Affiliated to JNTU-GV, Vizianagaram)

Dakamarri, Bheemunipatnam Mandal, Visakhapatnam Dist. – 531 162 (A.P.)

Ph: +91-8922-248001, 248002 Fax: +91-8922-248011

E-mail: principal@raghuenggcollege.com website: www.raghuenggcollege.com

Department of Computer Science and Engineering

VISION

To generate competent professionals to become part of the industry and research organizations at the national and international levels.

MISSION

To impart high quality professional training in undergraduate level with emphasis on basic principles of computer science and Engineering and to foster leading edge research in the fast-changing field.

To inculcate professional behavior, strong ethical values, innovative research capabilities and leadership abilities in the young minds so as to work with a commitment.

- M1:To impart high quality professional training at undergraduate level with emphasis on basic principles of computer science and Engineering and to foster leading edge research in the fast-changing field.
- M2:To inculcate innovative research capabilities and leadership abilities in the young minds so as to work with a commitment.
- M3:To inculcate professional behavior, strong ethical values in the young minds so as to work with a commitment.

PROGRAMME EDUCATIONAL OBJECTIVES(PEOs)

PEO 1: To produce graduates with a strong foundation in mathematics, science, engineering fundamentals, laboratory and work-based experiences to formulate and solve engineering problems in computer science engineering domains and shall have proficiency in implementation software tools and languages.

PEO 2: To progressively impart training to the students for success in various engineering positions within the core areas in computer science engineering, computational or adapting to the latest trends by learning themselves.

PEO 3: To produce graduates having the ability to pursue advanced higher studies and research. To have professional and communication skills to function as leaders and members of multidisciplinary teams in engineering and other industries with strong work ethics, organizational skills, teamwork, and understanding of the importance of being a thorough professional.



AUTONOMOUS

(Approved by AICTE, New Delhi, Accredited by NBA (CIV,ECE,MECH,CSE), NAAC with 'A+' grade & Permanently Affiliated to JNTU-GV, Vizianagaram)

Dakamarri, Bheemunipatnam Mandal, Visakhapatnam Dist. – 531 162 (A.P.)

Ph: +91-8922-248001, 248002 Fax: +91-8922-248011

E-mail: principal@raghuenggcollege.com website: www.raghuenggcollege.com

MAPPING OF MISSION STATEMENTS WITH PEOS

MS/PEO	PEO 1	PEO 2	PEO 3
MS 1	3	2	2
MS 2	2	3	2
MS 3	2	2	3

1-Slight, 2- Moderate, 3- Substatial



AUTONOMOUS
(Approved by AICTE, New Delhi, Accredited by NBA (CIV,ECE,MECH,CSE), NAAC with 'A+' grade & Permanently Affiliated to JNTU-GV, Vizianagaram)

Dakamarri, Bheemunipatnam Mandal, Visakhapatnam Dist. - 531 162

Ph: +91-8922-248001, 248002 Fax: +91-8922-248011

E-mail: principal@raghuenggcollege.com website: www.raghuenggcollege.com

	PROGRAM OUTCOMES
	Graduates of Computer Science and Engineering Will:
PO 1	Engineering knowledge: Apply the knowledge of mathematics, science, engineering
	fundamentals, and an engineering specialization to solve complex engineering
	problems.
PO 2	Problem analysis: Identity, formulate, review research literature, and analyze complex
	engineering problems reaching substantiated conclusions using first principles of
	mathematics, natural sciences, and engineering sciences.
PO 3	Design/development of solutions: Design solutions for complex engineering problems
	and design system components or processes that meet the specified needs with
	appropriate consideration for public health and safety and the cultural, societal, and
	environmental concerns.
PO 4	Conduct investigations of complex problems: Use research-based knowledge and
	research methods, including design of experiments, analysis, interpretation of data, and
	synthesis of the information to provide valid conclusions.
PO 5	Modern tool usage: Create, select, and apply appropriate techniques, resources, and
	modern engineering and IT tools, including prediction and modeling to complex
	engineering activities with an understanding of the limitations.
PO 6	The engineer and society: Apply reasoning informed by the contextual knowledge to
	assess societal, health, safety, legal and cultural issues and the consequent
PO 7	responsibilities relevant to the professional engineering practice. Environment and sustainability: Understand the impact of the professional
107	engineering solutions in societal and environmental contexts, and demonstrate the
	knowledge of and need for sustainable development.
PO 8	Ethics: Apply ethical principles and commit to professional ethics, responsibilities, and
100	norms of the engineering practice.
PO 9	Individual and team work: Function effectively as an individual and as a member or
	leader in diverse teams and multidisciplinary settings.
PO 10	Communication: Communicate effectively on complex engineering activities with the
	engineering community and with society at large, such as being able to comprehend and
	write effective reports and design documentation, make effective presentations, and
DO 11	give and receive clear instructions.
PO 11	Project management and finance: Demonstrate knowledge and understanding of the
	engineering and management principles and apply these to one's work as a member and
	leader in a team, to manage projects and in multidisciplinary environments.
PO 12	Life-long learning: Recognize the need for, and have the preparation and ability to

REC POLITICAL DE LA COLOR DE L

RAGHU ENGINEERING COLLEGE

AUTONOMOUS

(Approved by AICTE, New Delhi, Accredited by NBA (CIV,ECE,MECH,CSE), NAAC with 'A+' grade & Permanently Affiliated to JNTU-GV, Vizianagaram)

Dakamarri, Bheemunipatnam Mandal, Visakhapatnam Dist. – 531 162 (A.P.)

Ph: +91-8922-248001, 248002 Fax: +91-8922-248011

E-mail: principal@raghuenggcollege.com website: www.raghuenggcollege.com

engage in independent and life-long learning in the broadest context of technological
change.

PROGRAM SPECIFIC OUTCOMES (PSOs)

- **PSO 1:** Apply the concepts and techniques of the Computer Science & Engineering branch and the Mathematical foundations in the significant domains to address the complex engineering problems.
- **PSO 2:** Employ emerging computer languages, computer networks, database management systems and platforms in developing innovative career prospects as an entrepreneur.
- **PSO 3:** Apply the knowledge of interdisciplinary skills, and domain-specific tools in working system processes to implement and deploy a quality-based software product to meet evolving needs.

Mapping of PEOs with POs and PSOs

PEO/PO	PO-1	PO-2	PO-3	PO-4	PO-5	PO-6	PO-7	PO-8	PO-9	PO-10	PO-11	PO-12	PSO-1	PSO-2	PSO-3
PEO 1	3	3	3	3	2	2	2	2		2		3	3	2	2
PEO 2	2	3	3	3	2	2	2	2	3	2	3	3	3	3	3
PEO 3	3	2	2	3	2	2	2	3	3	3	3	3	3	3	3

1-Slight, 2- Moderate, 3- Substatial



AUTONOMOUS

(Approved by AICTE, New Delhi, Accredited by NBA (CIV,ECE,MECH,CSE), NAAC with 'A+' grade & Permanently Affiliated to JNTU-GV, Vizianagaram)

Dakamarri, Bheemunipatnam Mandal, Visakhapatnam Dist. – 531 162 (A.P.)

Ph: +91-8922-248001, 248002 Fax: +91-8922-248011

E-mail: principal@raghuenggcollege.com website: www.raghuenggcollege.com

((23HM101) MANAGERIAL ECONOMICS AND FINANCIAL ANALYSIS										
(Common to CSE, CSM, CSD, CSC, CSO)											
Programme &Branch	B.Tech -CSE	Sem	Category	L	Т	P	Credit				
Prerequisite s:		4	Management Course-1	2	0	0	2				
Preamble	The main objectives of	of the cours	se is to make student								

Course Objectives:

The course objectives of Theory of Computation are to discuss and make student familiar with the

- To inculcate the basic knowledge of microeconomics and financial accounting
- To make the students learn how demand is estimated for different products, input-output relationship for optimizing production and cost
- To Know the Various types of market structure and pricing methods and strategy
- To give an overview on investment appraisal methods to promote the students to learn how to plan long-term investment decisions.
- To provide fundamental skills on accounting and to explain the process of preparing financial statements.

Course Contents:

Managerial Economics	Contact Hours: 9
Introduction - Nature, meaning, significance, functions, and	
advantages. Demand-Concept, Function, Law of Demand - Demand	
Elasticity- Types - Measurement. Demand Forecasting- Factors	
governing Forecasting, Methods.	
Production and Cost Analysis	Contact Hours: 9
Introduction - Nature, meaning, significance, functions and	
advantages. Production Function— Least- cost combination— Short	
run and long run Production Function- Iso-quants and Iso-costs, Cost	
	advantages. Demand-Concept, Function, Law of Demand - Demand Elasticity- Types – Measurement. Demand Forecasting- Factors governing Forecasting, Methods. Production and Cost Analysis Introduction – Nature, meaning, significance, functions and

AUTONOMOUS
(Approved by AICTE, New Delhi, Accredited by NBA (CIV,ECE,MECH,CSE), NAAC with 'A+' grade & Permanently Affiliated to JNTU-GV, Vizianagaram)

Dakamarri, Bheemunipatnam Mandal, Visakhapatnam Dist. - 531 162

Ph: +91-8922-248001, 248002 Fax: +91-8922-248011

E-mail: principal@raghuenggcollege.com website: www.raghuenggcollege.com

	Even Analysis (BEA) - Determination of Break-Even Point (Simple	
	Problems).	
Unit-3	Business Organizations and Markets	Contact Hours: 9
	Introduction – Forms of Business Organizations - Sole Proprietary -	Contact Hours.
	Partnership - Joint Stock Companies - Public Sector Enterprises.	
	Types of Markets - Perfect and Imperfect Competition - Features of	
	Perfect Competition Monopoly- Monopolistic Competition—	
	Oligopoly-Price-Output Determination - Pricing Methods and	
	Strategies Strategies	
Unit-4	Capital Budgeting	Contact Hours: 9
-	Introduction – Nature, meaning, significance. Types of Working	001111101110111
	Capital, Components, Sources of Short-term and Long-term Capital,	
	Estimating Working capital requirements. Capital Budgeting—	
	Features, Proposals, Methods and Evaluation. Projects – Pay Back	
	Method, Accounting Rate of Return (ARR) Net Present Value (NPV)	
	Internal Rate Return (IRR) Method (sample problems)	
Unit-5	Financial Accounting and Analysis	Contact Hours: 9
	Introduction – Concepts and Conventions- Double-Entry	
	Bookkeeping, Journal, Ledger, Trial Balance- Final Accounts	
	(Trading Account, Profit and Loss Account and Balance Sheet with	
	simple adjustments). Introduction to Financial Analysis - Analysis	
	and Interpretation of Liquidity Ratios, Activity Ratios, Capital	
	structure Ratios and Profitability.	



AUTONOMOUS
(Approved by AICTE, New Delhi, Accredited by NBA (CIV,ECE,MECH,CSE), NAAC with 'A+' grade & Permanently Affiliated to JNTU-GV, Vizianagaram)

Dakamarri, Bheemunipatnam Mandal, Visakhapatnam Dist. - 531 162

Ph: +91-8922-248001, 248002 Fax: +91-8922-248011

E-mail: principal@raghuenggcollege.com website: www.raghuenggcollege.com

1	Varshney & Maheswari: Managerial Economics, Sultan Chand.									
2	Aryasri: Business Economics and Financial Analysis, 4/e, MGH.									
	Reference Books:									
1	Ahuja Hl Managerial economics Schand.									
2	S.A. Siddiqui and A.S. Siddiqui: Managerial Economics and Financial	S.A. Siddiqui and A.S. Siddiqui: Managerial Economics and Financial Analysis, New Age								
_										
	International.	nternational.								
3	Joseph G. Nellis and David Parker: Principles of Business Economics, Pearso	n, 2/e, New Delhi.								
4	Domnick Salvatore: Managerial Economics in a Global Economy, Cengage.									
Web	References:									
1	https://www.slideshare.net/123ps/managerial-economics-ppt									
2	https://www.slideshare.net/rossanz/production-and-cost-45827016									
3	https://www.slideshare.net/darkyla/business-organizations-19917607									
4	https://www.slideshare.net/balarajbl/market-and-classification-of-market									
5	https://www.slideshare.net/ruchi101/capital-budgeting-ppt-59565396									
6	https://www.slideshare.net/ashu1983/financial-accounting									
Prear	,									
	RSE OUTCOMES:	BT Mapped								
Upon	completion of the course, students shall have ability to	(Highest Level)								
CO	Understand the fundamentals of Economics viz., Demand,	Understanding								
	Production, cost, revenue and markets									
	Apply the Concept of Production cost and revenues for effective Business	Apply								
CO	decision									
CO	Analyze how to invest their capital and maximize returns	Analyze								
CO		Evaluate								
CO	Develop the accounting statements and evaluate the financial performance	Evaluate								



AUTONOMOUS

(Approved by AICTE, New Delhi, Accredited by NBA (CIV,ECE,MECH,CSE), NAAC with 'A+' grade & Permanently Affiliated to JNTU-GV, Vizianagaram)

Dakamarri, Bheemunipatnam Mandal, Visakhapatnam Dist. – 531 162 (A.P.)

Ph: +91-8922-248001, 248002 Fax: +91-8922-248011

E-mail: principal@raghuenggcollege.com website: www.raghuenggcollege.com

Mapping of Cos with POs and PSOs

COs/PO s	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO1 0	PO1 1	PO1 2	PSO1	PSO2	PSO3
CO 1															
CO 2															
CO 3															
CO 4															
CO 5															
1 _ Slight	2 _ 1	Anders	to 3	_ Subs	tantia	I RT.	Rloo	n's Ta	vonon	137					

1 – Slight, 2 – Moderate, 3 – Substantial, BT- Bloom's Taxonomy

ASSESSMENT PATERN – THEORY										
TEST	Remembering (K1)%	Understanding (K2)%	Applying (K3)%	Analyzing (K4)%	Evaluating (K5)%	Creating (K6)%	Total%			
MID-1	25	30	30	15			100			
MID-2	25	30	30	15			100			
SEE	30	35	25	5			100			
*± 3% n	nay be varied									

(Signature)
Head of the Department
(Seal/Stamp)

(Signature) Principal (Seal/Stamp)