# MKSSS's Cummins College of Engineering for Women, Pune (An Autonomous Institute Affiliated to Savitribai Phule Pune University)



### Autonomous Program Structure of Final Year B. Tech. Seventh Semester (Mechanical Engineering)

Academic Year: 2023-2024 Onwards

Course		<b>S</b>	Teaching Scheme Hours /Week		Examination Scheme			Total Marks		
Code	Course Title	Lecture	Tutorial	Practical	In Sem	End Sem	Practical	Oral		Credit
20ME701	Internship/Project	0	0	30	200	0	0	100	300	15
20HS702	Economics and Personal Finance (EPF) (Online)	2	0	0	100	0	0	0	100	2
	Grand Total	32	,						400	17

Credits	Marks	Teaching Hrs / week	Evaluation Mode
Internship / Project = 15	300	30	Presentations + Oral
HS- EPF (Online) = 3	100	2	ISE + ESE

#### **Duration of Internship / Project:**

- 1. Full Internship 6 Months
- 2. Full Project 6 Months
- 3. Combination: Internship 3 Months + Projects 3 Months (June-Aug + Sep- Nov)

For Internship / Project:

In-Sem-Reviews =Two ; ESE = One Review with external (Final)



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#### Final Year B. Tech. -- Semester-I

Course Name	Economics and Personal Finance	L	Т	P
Course Code	20HS701	3	-	-
Pre-requisite	Engineering Mechanics, Strength of Materials, Engineering Metallurgy			

Course Objectives: To make students

- 1.To enable students to acquire knowledge and develop an understanding of basic concepts and principles of Economics & Finance
- 2. To make students acquaint with standard concepts and tools that they are likely to find useful in their profession when employed in the firm/industry/corporation in public or private sector
- 3. To sensitize students to the current economic issues of the nation
- 4. To develop an understanding of the role of institutions in the functioning of an economy
- 5. To understand Markets and behaviour of the firm
- 6. To enhance financial literacy of engineering students.

Course Outcomes: After successful completion of the course, student will be able to

- CO1 Demonstrate the importance of National and International economy in ones economic life
- CO2 Analyse the behaviors of consumer, firms and market and its impact on corporate finance
- CO3 Apply financial techniques to evaluate companies and investments
- CO4 Develop Personal Financial strategies using various investment options and taxation

Unit/Module: 1	Macro Economics: Understanding Indian Economy- Domestic and International	3 hours	

Economics for Engineers, Definition and classification of Economics, Basic Economic Problems and Economic Systems, India Economy: Mixed economy, Sector-wise contributors Gross Domestic Product (GDP) of India, GDPs of other nations, Macroeconomics, Per Capita Income, Employment, Inflation calculation: Consumer Price Index (CPI), Wholesale Price Index (WPI), Fiscal Policy, Fiscal Deficit, Government expenditure and Taxation, Concept of Goods and Service Tax (GST), Monetary policy, Central Bank- Reserve Bank of India (RBI), Statutory Liquidity Ratio (SLR), Prime Lending Ratio (PLR), Cash Reserve Ratio (CRR).

Unit/Module: 2	Microeconomics: Understanding behaviors of	5 hours	ı
Omawiodule: 2	Consumers, Firms and Markets	3 Hours	i i

Consumer Behaviour, Concept of Demand and Supply, Determinants of Demand and Supply, Price Elasticity of Demand and Supply, Market Equilibrium and it's applications, Market and Market Structures- Perfect Competition, Monopolistic Competition, Oligopoly and Monopoly Cost Concepts, Product Costing and Pricing strategy.



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Unit/Module: 3 Personal Finance and Taxation I: Personal Financial strategies Background Concepts 6 hours

Financial analysis of a business firm: Statement of Profit and Loss, Balance Sheet, Analyzing various business firms though Ratio Analysis, Time value of money, Annuities. Calculations in Excel, International Trade and Comparative Advantage, International Financing: Foreign Exchange (FOREX) market and Exchange rates, Balance of Payment.

Unit/Module: 4 Personal Finance and Taxation II: Personal Financial strategies Goal Setting and Tax, Credit and Risk Management 7

Understanding Personal Finance: Financial Goal, Importance, Opportunity Costs in Decision Making, The Time Value of Money, Basics of Financial Planning, Personal financial statements, Cash flow and debt management, Tax Management: Taxes, Direct and Indirect, Income Tax slabs and sections, Other taxes, Credit Management: Consumer Loans, Credit cards, Credit Rating, Credit Information Bureau (India) Limited (CIBIL), Interest Rates, Understanding Monetary Policy, Risk Management: Insurance-Life and General, Types of life Insurance, Unit Linked Insurance Plan (ULIPS), Health Insurance, Vehicle Insurance and other major types, Understanding Insurance riders and decision making while buying insurance.

Unit/Module: 5 Personal Finance and Taxation III: Personal Financial strategies Investments in Bonds, Stocks and Mutual Funds, Retirement Planning

Investment in Government Securities: Bank Accounts, Government Securities, Bonds, Fixed Deposits, Gold Bonds, Investment in Stock Market: Introduction to Stock Market, Stock Exchange Sensitive Index (SENSEX), National Stock Exchange (NSE), Dematerialised account (Demat) Account, How to select stocks- Price per Earning (P/E) ratio, Fundamentals analysis, Investment in Mutual Funds: What is Mutual Fund, Types, Exchange Traded Funds, Net Asset Value (NAV), Factors for selection of Mutual Funds, Retirement Planning: Public Provident Fund (PPF), Employee Provident Fund (EPF), National Pension Scheme (NPS) and other Pension Funds, Annuity calculations.

Total Lab hours:	28	
	hours	

#### **Text Books:**

- 1.Paul A Samuelson, "**Economics''**, Indian Adaptation, Sudip Chaudhari, Anindya Sen, *Mc Graw Hill* (2010), 19th edition
- 2. Lawrence J Gitman, "Principles of Managerial Finance", Pearson. (2016) 11th edition
- 3. Prasanna Chandra, "**Finance Sense: Finance for Non-finance Executives**", 5th edition, CFMTMH professional series in Finance
- 4. Monika Halan, "Let's Talk Money" Harper Business 2018
- 5. P V Subramanya, "Retire Rich" TV18 Broadcast Ltd., 2019
- 6. Abhishek Kumar, "The Richest Engineer", Manjul Publishing House, 2016

#### Reference Books:

- 1. Lipsey, R.G. & Chrystal, K.A., "Economics", 11th Edition, Oxford University Press, 2007
- 2. K.K.Dewett, "Modern Economic Theory", S.Chand, 2005

