

**PONDICHERRY UNIVERSITY**  
**DEPARTMENT OF COMMERCE**  
**SCHOOL OF MANAGEMENT**

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**REGULATIONS AND SYLLABUS**  
**FOR**

**M. COM (BUSINESS FINANCE)**

**(CBCS) DEGREE PROGRAMME**

**[FOR THE YEAR 2021-22 ONWARDS]**

**DEPARTMENT OF COMMERCE, PONDICHERRY UNIVERSITY**  
**SCHOOL OF MANAGEMENT**  
**M. COM (BUSINESS FINANCE) (CBCS) DEGREE PROGRAMME**  
**LIST OF COURSES OFFERED**

**(APPLICABLE FROM THE ACADEMIC YEAR 2021-22 ONWARDS)**

Semester	Course Code	Title of the Paper	Hard/Soft	Credit	
I	MCOM4101	Financial Management	H	4	
	MCOM4102	Organizational Behavior	H	4	
	MCOM4103	Statistics for Business Decisions	H	4	
	MCOM4104	Income Tax Law and Practice	H	4	
	SCOM		Soft Core	S	3
			Soft Core	S	3
			Soft Core	S	3
		Soft Core	S	3	
II	MCOM4201	Decisions Accounting	H	4	
	MCOM4202	Financial Mathematics			
	MCOM4203	GST and Customs Law	H	4	
	MCOM4204	Financial Modeling	H	4	
	SCOM		Soft Core	S	3
			Soft Core	S	3
			Soft Core	S	3
		Soft Core	S	3	
III	MCOM5101	Financial Institutions and Instruments	H	4	
	MCOM5102	Investment & Portfolio Management	H	4	
	MCOM5103	Computer Aided Multivariate Data Analysis	H	4	
	MCOM5104	Corporate Finance Lab	H	4	
	SCOM		Soft Core	S	3
			Soft Core	S	3
			Soft Core	S	3
		Soft Core	S	3	
IV	MCOM5201	International Finance	H	4	
	MCOM5202	Equity Derivatives	H	4	
	MCOM5203	Behavioral Finance	H	4	
	SCOM		Soft Core	S	3
			Soft Core	S	3
			Soft Core	S	3
			Soft Core	S	3

## POOL OF SOFT CORE COURSES

### (APPLICABLE FROM THE ACADEMIC YEAR 2021-22 ONWARDS)

- (a) The Department of Commerce would offer courses from the pool of soft core courses to both BF and AT students depending upon the need of students and availability of professors.
- (b) Students who have done hard core course in any subject is not eligible to take soft core course in the same subject.
- (c) Students are free to take any number of soft courses from other departments; need not depend upon the courses from Department of Commerce.
- (d) Minimum 20 and maximum 60 students are permitted for each soft core course
- (e) Selection of students for a particular soft core course is to be made based on the merit list prepared from the eligibility test when more than 60 prefers to join.

Course Code	Title of the Paper	Soft/ Hard	Credit
<b>Management and Decision</b>			
SCOM01	Managerial Economics	S	3
SCOM02	Marketing Strategy	S	3
SCOM03	Human Resource Management	S	3
SCOM04	Strategic Management	S	3
SCOM05	Family Business Management	S	3
SCOM06	Direct and Indirect Tax Administration	S	3
SCOM07	Corporate Tax Planning and Management	S	3
<b>Decision Tools and Techniques</b>			
SCOM08	Machine Learning for Financial Decisions	S	3
SCOM09	Business Analytics for Decision Making	S	3
SCOM10	Principles of Artificial Intelligence	S	3
SCOM11	Computer applications in Business	S	3
SCOM12	Research Methodology	S	3
SCOM13	Statistics for Business Decisions	S	3
SCOM14	Operations Research	S	3
SCOM15	Financial Mathematics	S	3
<b>Investment and Risk Management</b>			
SCOM16	Stock and Forex Trading Lab	S	3
SCOM17	Multinational Financial Management	S	3
SCOM18	Fund Management in Commerce Banks	S	3
SCOM19	Commodity derivatives markets & applications	S	3
SCOM20	Investment Valuation	S	3
SCOM21	Financial Risk Management	S	3
SCOM22	Forensic Accounting and Fraud Risk Management	S	3
SCOM23	Personal Finance	S	3
SCOM24	Equity Derivatives (For students from AT and Other Departments)		
<b>Finance and Accounting</b>			
SCOM25	Merchant Banking and Financial Services	S	3
SCOM26	Corporate Governance	S	3

SCOM27	Strategic Financial Management	S	3
SCOM28	Multinational Financial Management		
SCOM29	Fund Management in Commercial Banks		
SCOM30	Project and Entrepreneurial Finance	S	3
SCOM31	International Accounting		
<b>General</b>			
SCOM32	Value added courses (Only up to III Semester)	S	3
SCOM33	Project / Internship and Viva	S	3
SCOM 34	Contemporary Legal Framework	S	#
	Softcore courses from Other Departments	S	3

**M.COM (BUSINESS FINANCE) DEGREE PROGRAMME  
REGULATIONS  
EFFECTIVE FROM THE ACADEMIC YEAR 2020-21 BATCH ONWARDS**

**AIM OF THE COURSE:** The course aims at specializing in specific areas of core competence of Commerce studies i.e. Business Finance. This is an area where commerce students have edge over others. It is designed to impart in depth knowledge and professional skills required for handling the finance related activities of business entities and corporate enterprises.

**ELIGIBILITY OF ADMISSION:** Any B.Com degree with a minimum of 50% marks.

**DURATION OF THE COURSE:** The normal duration of the course is two years spread over four semesters. The student has to earn minimum 90 credits to complete the course.

**MEDIUM:** The Medium of instruction shall be English

**COURSE STRUCTURE:**The Course Structure comprises of **Hard Core (60 Credits)** and **Soft Core (Minimum 12 Credits)**. A student is required to **earn at least 72 credits** to complete the course

**EXAMINATION:** Choice Based Credit System (CBCS) is followed in the department. The performance evaluation is based on grading. Grades are awarded at the end of each semester. The final Cumulative Grade Point Average is calculated based on the Grades obtained during the semester exams with the appropriate weightage based in respect of credits.

**DISTRIBUTION OF MARKS BETWEEN INTERNAL AND END SEMESTER EXAMINATION:**

**Internal Assessment** - 40 marks                      **End Semester Examination** – 60 marks

**Internal Assessment:** Internal Assessment is continuous and comprises of 40 marks. The assessment is based on:

- i. Internal Test 1 : 15 Marks
- ii. Internal Test 2 : 15 Marks
- iii. Assignment, seminar, quiz etc. : 10 Marks

(The respective teacher can decide on the distribution of marks between seminar, assignment, quiz etc., out of 10 marks)

**End Semester Examinations:** The end semester examinations **will be held for 100 marks and converted to 60 Marks**, consisting of Theory, problems and practical depending upon the papers taught and question paper is set and valued by the concerned course teacher himself or herself. After declaration of results within seven days, students can approach the concerned course teacher and inspect the papers valuation. In case if any student is not

satisfied with the valuation, they can apply to head of the Department after paying the prescribed fees for revaluation. The head of the department would follow the University regulation for revaluation.

**PASSING CONDITION:** The students should have a minimum of 40% marks in the End Semester Examination and a minimum of 50% marks in the internal and external put together to pass the examination. There are no minimum pass marks in internals assessment examination.

The failed and absentees of end semester examinations get a chance to write the examination **in the semester when the paper is offered not before**. Those who are not allowed to attend the examination due to shortage of attendance have to repeat **the same course after completing the two years**.

### **END SEMESTER EXAMINATIONS QUESTION PAPER PATTERN**

Time: 3 Hours

Maximum Marks: 100

#### **PART – A**

**(5 X 4 = 20 marks) - Answer All questions. .**

##### **Objective:**

- To test the conceptual understanding and subject Knowledge of students.

##### **Rules:**

- Questions should be from all Units of syllabus.
- Reproduction of words from syllabus in question should be avoided
- Both problems and theory questions can be asked.

#### **PART-B**

**(5 X 12 = 60 marks) –EITHER OR type of questions.**

##### **Objective:**

- To test the capability of application of concepts understood or knowledge acquired;

##### **Rules:**

- It is EITHER OR type of questions.
- Answers to these questions should be from independent thinking of students (there should not be any text book answers.
- Each Unit should have two questions in EITHER OR type; both questions are expected to be application of concepts learned by students.
- **Direct** Problems should not be asked in case of quantitative papers; application of concepts are to be asked (For example: i) Ratio analysis; students should be asked to write report to be submitted to Management on the financial performance through the calculated ratios; ii) Statistical Techniques: Students may be asked to use the calculated mean, standard deviation, probability for taking business decisions.)

#### **PART – C**

**(1 X 20 = 20 Marks)- Case Study/Computer Based Practical/Skill Based Question**

##### **Objective:**

- To test the skill acquired / use of computer in solving problems/ capacity of understanding the situation and take decisions.

##### **Rule:**

- In case of quantitative papers, students can be asked to solve the problems through computer (For example; Income Tax paper: question can be given to prepare online ITR in computer; in case of Portfolio Management: question can be given to form a portfolio through various online resources available.)
- In case of theory papers, students can be given live cases from current economic/stock market/financial/accounting situations

**MAXIMUM NUMBER OF YEARS PERMITTED AFTER COMPLETION OF SEMESTER IV TO COMPLETE THE COURSE:**

Two years under CBCS regulation.

**GUIDELINES TO DEAL WITH ATTENDANCE SHORTAGE:** The Students are permitted to proceed to the next semesters without break. Under this scheme, the students should repeat papers of the semester in which attendance shortage occurred whenever the paper is offered after completion of IV semesters. The minimum attendance requirement is 70% in each semester to recommend the student for writing the end semester examinations.

**ODD SEMESTER**

**FIRST SEMESTER**



## MCOM4101: FINANCIAL MANAGEMENT

Hard Core

4 Credits

<b>Prerequisites</b>	Basic finance knowledge, Budgeting, working capital etc.,
<b>Learning Objectives</b>	To provide an insight into the broad framework of Financial Management. It also attempts to impart the skills necessary for making financial decisions
<b>Learning Outcomes</b>	Various decision making like, Investment, capital structure, working capital and dividend
<b>Methodology</b>	Chalk and talk, Group Discussion, Group assignments, presentation
<b>Unit I</b>	<p><b>Overview</b></p> <p>Functions of financial manager – Profit Maximization – Wealth Maximization – financial health maximisation – Finance Function. Time Value of Money – Future Value – Present Value - Single flow -Annuity Flow- Multiple compounding periods – Doubling Period – Sinking Fund Factor etc. – risk return trade off</p>
<b>Unit II</b>	<p><b>Investment Decision</b></p> <p>Traditional and Discounted cash flow Techniques - Risk Analysis in Investment Decision. <b>Concept of Cost of Capital</b> – Components cost and overall Cost of capital – Cost of Debt – redeemable and irredeemable – Cost of Preference – Cost of Equity – Internal and External– Weighted Average Cost of Capital – Book Value – Market Value Weights</p>
<b>Unit III</b>	<p><b>Capital Structure Decision</b></p> <p>Sources of Finance – debt – Equity – Preference – Leverage – Operating leverage – Financial Leverage – Combined Leverage – Theories – Net Income Approach – Net Operating Income Approach – MM Approach – Traditional Approach – Practical - Determinants of capital structure</p>
<b>Unit IV</b>	<p><b>Title: Working Capital Management</b></p> <p><b>Contents:</b> Overall Considerations – Duration of Operating Cycle – Investment in Current Assets – Management of Individual Components – Cash Management – Receivables Management – Inventory Management – Current Asset Financing</p>
<b>Unit V</b>	<p><b>Dividend Decision</b></p> <p>Theories – Modigliani and Miller Approach – Walter Model – Gordon Model – Dividend Policy and Share Valuation – Stock Splits – Bonus Shares – Practical Aspects of Dividend Policy – Corporate Dividend Behavior</p>

<b>Reference Books</b>	James C.Van Horne ,Financial Management &Policy, Prentice Hall of India, New Delhi, Latest Edition
	Eugene H Brigham, Fundamentals of Financial Management, Dryden Press, New York, Latest Edition
	Pandey. I.M, Financial Management, Vikas Publishing House, New Delhi, Latest Edition
	Khan M.Y& Jain P.K. Financial Management, Tata McGraw Hill, New Delhi Latest Edition
	Prasanna Chandra, Financial Management Theory & Practice, Tata McGraw Hill Latest Edition
<b>Open Resources</b>	
<b>Tools and Softwares</b>	Basic finance function in Excel

**MCOM4102: ORGANISATIONAL BEHAVIOUR**

**Hard Core**

**4 Credits**

<b>Prerequisites</b>	Basic Knowledge of General Management
<b>Learning Objectives</b>	To provide comprehensive introduction to the area of organizational behaviour and to familiarize the functioning of the organizational environment.
<b>Learning Outcomes</b>	Demonstrate the applicability of the concept of Organisational Behaviour to understand the individual and group behavior of people in the organization.
<b>Methodology</b>	Lectures, Case study Analysis, Experiential exercises.
<b>Unit I</b>	<b>Introduction to OB</b>
	Introduction, Historical Perspective, Approaches, Importance, Framework for Learning OB, The Intricate Relation between MP and OB, Human Resources Management Relationship, Limitations of OB, Globalization and OB.
<b>Unit II</b>	<b>Personality and Perception</b>
	Introduction, Personality- Definition and Determinants, Personality Traits, Personality Attributes affecting OB, Definition, Importance and Factors Influencing Perception, Perception and Making Judgment about Others.
<b>Unit III</b>	<b>Organisation Culture &amp; Climate</b>
	Concepts, cultural differences and challenges, Introduction: Values, Attitudes, Definition and Concept of Emotions, Emotional Intelligence, Importance of Organizational Climate.
<b>Unit IV</b>	<b>Group Behaviour</b>
	Transactional Analysis-Levels of Self Awareness; Ego States; Life Positions; Transactions; Stroking; Uses of T.A.; Group Dynamics-Meaning and Nature of Group; Formal Groups – Committee, Task Force and Quality Circle; Informal Groups-Causes of Formation; Managing Informal Groups; Individual Vs. Group Decision Making.
<b>Unit V</b>	<b>Conflict, Negotiation and Stress</b>
	Introduction, Power, Politics, Conflict, Negotiations and Stress Management-Sources, Consequences and Coping Strategies. Morale-Nature, Factors Influencing and Methods of Measurement; Morale Building; Productivity and Morale;
<b>Reference Books</b>	Gerald A. Cole, Organisational Behaviour: Theory and Practice Thomson publication
	Stephen P. Robbins, Timothy A. Judge, Neharika Vohra, Organizational Behaviour Pearson Publication
	Gupta C.B, A Textbook of Organisational Behaviour S. CHAND Publication
	Chandrani Singh, Aditi Khatri, Principles and Practices of Management and Organizational Behaviour, SAGE Publications.
	Khanka S.S, Organizational Behaviour S. CHAND Publication

## MCOM4103: STATISTICS FOR BUSINESS DECISIONS

Hard Core

4 Credits

<b>Prerequisites</b>	Basic idea about the statistics and its application in Business decision
<b>Learning Objectives</b>	To familiarize the students with various Statistical Data Analysis tools that can be used for effective decision making. Emphasis will be on the application of the concepts learnt to various managerial situations.
<b>Learning Outcomes</b>	Emphasis will be on the application of the concepts learnt to various managerial situations
<b>Methodology</b>	Chalk and talk, Presentations, Assignment and software based problem solving
<b>Unit I</b>	<p><b>Title: Statistical Decision Theory</b></p> <p><b>Contents:</b> Attributes, variables (quantitative and qualitative), Scales of measurement: nominal, ordinal, interval and ratio, Measures of Central Tendency, Measures of Dispersion: Shape of the distribution: Skewness and Kurtosis, Z-Score, Chebychev and empirical rule. Decision environment, Expected profit under uncertainty, Utility theory</p>
<b>Unit II</b>	<p><b>Title: Measures of relations</b></p> <p><b>Contents:</b> Correlation Analysis: scatter diagram, linear, logistic and multinomial, Correlation: Meaning, Significance, Causation, Tests for significance of Correlation Coefficient</p>
<b>Unit III</b>	<p><b>Title: Probability</b></p> <p><b>Contents:</b> Meaning and need, Theorems of addition and multiplication, Conditional probability, Bayes' theorem, Random Variable- discrete and continuous. Probability Distribution: Meaning, characteristics (Expectation and variance) of Binomial, Poisson, exponential and Normal distribution, Central limit theorem</p>
<b>Unit IV</b>	<p><b>Title: Estimation</b></p> <p><b>Contents:</b> Population mean, Confidence intervals for the parameters of a normal distribution (one sample only), Introduction to testing of Hypothesis: Concept; Level of Significance; Process of testing; Type I and Type II error, standard error of estimates, Test of hypothesis concerning Mean: z test and ttest, F test</p>
<b>Unit V</b>	<p><b>Title: Non Parametric Tests</b></p> <p><b>Contents:</b> Chi-square tests; Sign tests Wilcoxon Signed – Rank tests; Wald – Wolfowitz tests; Kruskal – Wallis tests</p>
<b>Reference Books</b>	Keller, G. Statistics for Management and Economics (10th Edition). New Delhi: CENGAGE Learning, 2015.

	Levin, R. and Rubin, D, Statistics for Management (7th Edition). New Delhi: Pearson, 2012.
	Gupta S.P. Statistical Methods, Sultan Chand, New Delhi 2009
	Stine, R. and Foster, Statistics for Business (Decision making and Analysis) (2nd Edition), New Delhi: Pearson, 2014
	Arora & Arora, Statistics for Management, Sultan Chand, New Delhi, 2009
<b>Open Resources</b>	
<b>Tools and Softwares</b>	MS Excel, SPSS

**MCOM4104: INCOME TAX LAW AND PRACTICE****Hard Core****4 Credits**

<b>Prerequisites</b>	Knowledge on Income Tax Act
<b>Learning Objectives</b>	To create the capacity of the stakeholder to manage various tax issues for their practical Life and help them to undertake advisory positions in any organization.
<b>Learning Outcomes</b>	Assessment of tax for person, provisions relating to deductions and International perspectives of Taxation
<b>Methodology</b>	Chalk and talk, Assignments, seminar, presentations
<b>Unit I</b>	<b>Concept of Income Tax</b> Concept of Income. Residential Status of the Individual, HUF, AOP, Firm & Company- Relationship between Residential Status and Taxable Income- Exempted Incomes. Direct Tax Reforms.
<b>Unit II</b>	<b>Computation of Gross Total Income</b> Heads of Income, Computation of total income, Deductions, set off and carry forward of losses
<b>Unit III</b>	<b>Computation of Tax Liability</b> Tax Liability of Individuals, Tax Liability of Hindu Undivided Family. Tax Liability of Partnership Firms and Companies. Relief and Rebate
<b>Unit IV</b>	<b>Tax Authorities and Assessment</b> Income Tax Authorities. Kinds of Assessment. Types of Return. Filing & filing of Return. Penalties. Settlement Procedures
<b>Unit V</b>	<b>International Taxation</b> Basic Concepts. Treaties Shopping. International Tax Treaties, Double taxation avoidance agreement. Transfer Pricing and Computation. Consequence of Base erosion and profit shifting (BEPS). BEPS Action Plans. International Disputes Resolution Mechanism.
<b>Reference Books</b>	V.K. Singhania and Kapil Singhania , Direct Tax Law and Practice Taxmann Publication, 64 <sup>th</sup> Edition 2021 H.C. Mehrotra and S.P. Gopyal Income Tax Law and Accounts, Sahitya Bhawan Publications 42th editions 2021. Gaur and Narang Income Tax law and practices Kalyani Publication 43th edition 2021 Bhagawati Prasad direct tax law and Practice WishwaPrakashan 17th edition 2018 Direct Tax Code Bill 2010 Taxmann Publication2010
<b>Open Resources</b>	<a href="http://www.incometaxindia.gov.in">www.incometaxindia.gov.in</a>
<b>Tools and Softwares</b>	Online tax return tools

**EVEN SEMESTER**  
**SECOND SEMESTER**

## MCOM4201: DECISIONS ACCOUNTING

Hard Core

4 Credits

<b>Prerequisites</b>	Basic knowledge on Financial, Cost and Management accounting
<b>Learning Objectives</b>	To gain acquaintance with the principles of financial, Cost & Management Accounting
	To enable the students to take decisions using management accounting tools.
<b>Learning Outcomes</b>	Recall the importance of Management accounting and Imbibe critical thinking skills to analyze financial statements.
	Understanding the Budget & budgetary control and Standard costing techniques to achieve a desired cost objective.
	Understand the job ,contract and Process costing procedures and to build knowledge on new costing techniques for effective cost management
	Analyze Cost-volume-Profit techniques to determine Optimal managerial decisions like make or buy decisions, shut down or continue.
	Apply the financial statement like cash flow statement and funds flow statement in decision making process
<b>Methodology</b>	Teaching with visual aids and on Excel Sheets
	Assignments and Tests
	Problem Solving and Case Discussion
<b>Unit I</b>	<b>Mechanics of Financial Accounting</b>
	Financial Statements, Financial Accounting Regulations, Cash and Funds Flow Statements; Ratio Analysis.
<b>Unit II</b>	<b>Financial Statement Analysis</b>
	Assessing Financial Health, Asset Management, Cost Management, Leverage Management, Risk Management and Bench-marking.
<b>Unit III</b>	<b>Product Costing</b>
	Methods of Product Costing, Job Costing, Customer Costing, Process Costing, Indirect Cost and Allocation, Misallocation of indirect Cost; Activity based costing.
<b>Unit IV</b>	<b>Cost Analysis for Decision Making</b>
	Absorption Vs. Marginal Costing, Behaviour of costs, Break Even Analysis, BEP in Multi-Product Environment, Pricing Decision, Make or Buy Decision, Discontinuing product or closing of divisions, Optimal Product Mix, Operating Leverage.
<b>Unit V</b>	<b>Budgeting and Variance Analysis</b>
	Strategic Planning and Budgets, Budgeting Process, Preparation of Master Budget, Setting Standards, Variance Analysis: General Framework, Fixed and Variable Overhead Variance, Material Mix Variance, Sales and Sales Mix Variance and Investigating Variance.
	S.N. Maheswari, Management Accounts, Sultan Chand & Sons, New Delhi



<b>Reference Books</b>	Jain S. P and K.L. Narang : K.L: Advanced Costing, Kalyani Publishers Ludhiana 2009
	M.Y.Khan and P.K. Jain: Cost Accounting, Tata McGraw Hill Co., New Delhi 2009
	R.L. Gupta and Others: Advanced Accountancy, Sultan Chand Sons, New Delhi
	Charles T. Horagren: Cost Accounting: A Managerial Emphasis Pearson Prentice Hall, New Delhi 2009.
<b>Open Resources</b>	
<b>Tools and Softwares</b>	

**MCOM4202: FINANCIAL MATHEMATICS**

**Hard Core**

**4 Credits**

<b>Prerequisites</b>	Studied atleast one paper on Business Maths and/or Statistics at UG
<b>Learning Objectives</b>	Aims at the active and practical use of mathematics in Financial Market
	To gain knowledge on different models of Financial Markets
<b>Learning Outcomes</b>	Restate the Definition, Concept, Importance and scope of Financial mathematics
	Gaining conceptual knowledge and application skills on Vector analysis, Multiple integration and linear integral
	Solve the problems on Differential equations
	Application skills on numerical techniques in Finance
	Understanding the nature, assumptions and working of different models of Financial Markets
<b>Methodology</b>	Teaching with visual aids
	Assignments and Tests
	Problem Solving and Case Discussion
<b>Unit I</b>	<b>Introduction:</b>
	Concept, Importance and scope of Financial mathematics – Set theory, Basic Concept: Indices and logarithm, Permutations and Combinations and Quadratic Equation.
<b>Unit II</b>	<b>Multivariate Calculus and Mathematical Analysis:</b>
	Vector, Differentiation in several variables, Vector-valued functions, Maxima and minima in several variables, Multiple integrations, Line integrals, Surface integrals.
<b>Unit III</b>	<b>Differential Equations</b>
	First Order Differential Equations, Linear Second Order Differential Equations, Applications of Linear Second Order Differential Equations, Laplace Transforms, Systems of Linear Differential Equations, Introduction to PDE.
<b>Unit IV</b>	<b>Numerical Techniques in Finance:</b>
	Lattice Methods, The Binomial Tree, Review of Continuous-Time Finance, Monte Carlo Methods, Numerical Solutions of Parabolic PDE's
<b>Unit V</b>	<b>Matrices:</b>
	Matrix operations- Multiplication by scalar. Matrix addition and Multiplication. Matrix inverse, solving system of simultaneous equations Matrix determinants. - Matrices as transformations - Matrices applications The Matrix as a Collection of Securities, Matrix Multiplication and portfolios, The Identity Matrix and Arrow-Debreu Securities Inverse Matrix and Replicating Portfolios.
<b>Reference Books</b>	Sheldon M. Ross An Elementary Introduction to Mathematical Finance, Cambridge University Press

	Raymond H. Chan, Yves ZY. Guo, Spike T. Lee Financial Mathematics, Derivatives and Structured Products, Springer
	Ali Hirsa Computational Methods in Finance, CRC press
	Giuseppe Campolieti, Roman N. Makarov, Financial Mathematics: A Comprehensive Treatment CRC press
<b>Open Resources</b>	<a href="https://www.khanacademy.org/">https://www.khanacademy.org/</a>
<b>Tools and Softwares</b>	Spread sheets

**MCOM4203: GST AND CUSTOMS LAW**

**Hard Core**

**4 Credits**

<b>Prerequisites</b>	Knowledge on Taxation and Income Tax
<b>Learning Objectives</b>	To understand the indirect tax provisions and recent amendments regarding indirect tax system in India.
	To get expert opinion to finalize management decisions in connection with various indirect tax issues.
<b>Learning Outcomes</b>	Understand the concept of Indirect Tax and Custom Laws and exemption of duties
	Build knowledge on concepts of GST and the implementation of GST in India
	Classify the Goods and services exempted from tax and understand the procedures of registration and collection of tax
	Develop knowledge about Input Tax credit, tax credit in special circumstances and Reverse Charge Mechanism
	Understand the taxability procedure on goods and services and advanced ruling and e-Invoice
<b>Methodology</b>	Teaching with visual aids
	Assignments and Tests
	Quiz sessions and Case Discussion
<b>Unit I</b>	<b>Indirect Tax System</b>
	Principles of Taxation, Taxable Capacity. Scope, Indirect Taxes vs Direct Taxes. Indirect Taxes Reforms: VAT to GST, Indirect Taxes Planning.
<b>Unit II</b>	<b>Introduction to GST</b>
	Need for GST in India, Challenges in Designing GST. Origin- based versus Destination-based Taxation. Registration and Threshold. Composition Scheme. Tax Administration. GST Model. Compensation to States. GST Act & Rules
<b>Unit III</b>	<b>Levy &amp; Collection of GST</b>
	Tax invoice. Credit and Debit Note. Exemption from GST. E Way Bill. Return. Payment of Tax. Input Tax Credit. Job work. Refunds.
<b>Unit IV</b>	<b>Administration of GST</b>
	Goods and Services Tax Council. Advance Ruling. Demands and Recovery. Appeal and Revision. Offences & Penalties. Anti-Profiteering Measures. Avoidance of Dual Control.
<b>Unit V</b>	<b>Customs Laws</b>
	Introduction to Customs Law. Types of Customs Duty. Valuation for Customs Duty. Procedures for Imports and Export Baggage. Postal Articles. Stores. Exemptions. Remissions. Demand Recovery. Refunds Exports Incentives. Tribunal. Customs administration – Customs Act and Rules
<b>Reference Books</b>	CA Anoop Modi & CA Mahesh Gupta, GST & Customs Law, SBPD Publications 2018
	Bansal, K.M, GST & Customs Law, University Edition, 4 <sup>th</sup> Edition, January 2020,

	Datey V.S Indirect taxes – Laws and Practice, Taxmann Publication (P) Ltd., New Delhi.24th edn 2010
	V.K. Singhanian and Monica Singhanian Students guide to GST and Customs Law Taxmann Publication 5th edition 2020.
	V.S. Datey Elements at Central Excise and Customs Law Taxmann Publication 5th edition 2007
<b>Open Resources</b>	
<b>Tools and Softwares</b>	

**MCOM4204: FINANCIAL MODELLING**

**Hard Core**

**4 Credits**

<b>Prerequisites</b>	Exposure on Corporate Finance and Financial Management and Basic statistical applications.
<b>Learning Objectives</b>	To introduce you to the application of excel in finance
	To develop your ability in using spreadsheets for financial modeling
<b>Learning Outcomes</b>	Hands on experience in excel for financial functions
	Developing and Documenting excel models
	Insights on mechanics of Equity Analysis
	Testing methodology of Security Market Line
	Methodology and conduct of Event Studies
<b>Methodology</b>	Teaching with visual aids and Excel worksheet
	Assignments and Tests
	Quiz sessions and Case Discussion
<b>Unit I</b>	<b>Excel for Financial Analysis</b>
	Basic Excel features-Financial functions-Logical functions-Statistical functions-Look up and reference function-analysis tool pack
<b>Unit II</b>	<b>Building excel models</b>
	Documenting excel models- debugging excel models-Formula auditing tools-Financial statement forecasting-Review of theory and concepts-Modeling examples-Present Value and Net Present Value-The Difference between Excel's PV and NPV Functions-Internal Rate of Return and Loan Tables
<b>Unit III</b>	<b>Equity Analysis</b>
	Portfolio mean and variance-Risk return representation of portfolios-Using solver to find efficient points-combining risky and risk free securities-asset pricing-single index model-estimating beta coefficients-variance covariance matrix-value-at-risk.
<b>Unit IV</b>	<b>Testing the Security Market Line</b>
	The First-Pass Regression-The Second-Pass Regression-Testing CAPM using excel-Solving an Unconstrained Portfolio Problem-Solving a Constrained Portfolio Problem
<b>Unit V</b>	<b>Event Studies</b>
	Outline of an Event Study-Measuring the Stock's Behavior in the Estimation Window and the Event Window-Market-Adjusted and Two-Factor Models-The Event Window-Impact of Earnings Announcements on Stock Prices-Cumulative Abnormal Returns
<b>Reference Books</b>	Mary Jackson, Mike Staunton "Advanced Modelling using Excel and VBA John Wiley and sons limited 2007
	Gottlieb Isaac, "Next Generation Excel: Modeling in Excel for Analysts and MBAs John Wiley and sons limited 2009
	Chandan Senguptha "Financial Modeling: Using excel and VBA John Wiley and sons limited 2008

	Simon Benninga “Financial Modeling The MIT Press Cambridge, Massachusetts 2008
	Soubeiga, Eric, Mastering Financial Modeling: A Professional’s Guide to Building Financial Model in Excel, McGraw-Hill Professional, 2013.
<b>Open Resources</b>	
<b>Tools and Softwares</b>	

**ODD SEMESTER**

**THIRD SEMESTER**



**MCOM5101: FINANCIAL INSTITUTIONS AND INSTRUMENTS**

**Hard Core**

**4 Credits**

<b>Prerequisites</b>	General Knowledge about the Financial markets and its functions
<b>Learning Objectives</b>	To familiarize students with Financial System, Institutions & Market and to help them to acquire skill to deal with various financial instruments
<b>Learning Outcomes</b>	Indian Financial Systems with instruments and the role of intermediaries
<b>Methodology</b>	Chalk and talk, Presentations, Semiar
<b>Unit I</b>	<b>Financial System</b> Structure – Components – Markets – Institutions – Instruments – Services – Functions – Significance – Development of Financial Sector – Parameters of Development of Financial Sector
<b>Unit II</b>	<b>Financial Markets</b> : Capital Markets – Money Markets – Foreign Exchange Markets – Equity and Derivative Markets – Commodity Markets – Characteristics Features – Participants – Instruments – Challenges.
<b>Unit III</b>	<b>Financial Institutions in India</b> Banking – Commercial Banks –Spreads and NPAs – Capital Adequacy Norms – Capital Market Support – Development Financial Institutions: IFCI, IDBI, ICICI, SFCS, SIDBI etc - Development vs Commercial Banking – Universal Banking
<b>Unit IV</b>	<b>Insurance Companies</b> Evolution – Life Insurance – General Insurance – Role, growth and development of Private Companies in insurance business – Regulatory framework
<b>Unit V</b>	<b>Financial Instruments</b> : Primary and secondary market instruments – features, distinctions, Debt – Equity – Hybrid, Innovative Instruments – Mutual Funds – Financial Instruments for Foreign Capital – ADRs – GDRs – FCCB – P Notes – IDRs
<b>Reference Books</b>	Bhole L.M, “Financial Institutions & Markets”, Tata McGraw Hill Machiraju H.R., “Merchant Banking, New Age International, Latest Edition Khan, M.Y., “Indian Financial System, 4/e Tat McGraw-Hill Vasant Desai, “Financial Markets and Financial Services”, Himalaya Publishing Meir Kohn, Financial Institutions and Markets”, Oxford University Press

**MCOM5102: INVESTMENTS & PORTFOLIO MANAGEMENT**  
**Hard Core** **4 Credits**

<b>Prerequisites</b>	Basic Understanding of Financial Accounting, Corporate Finance and Statistics
<b>Learning Objectives</b>	To expose students on the various avenues available for effective investment and possible way to avoid risk in investments through portfolio Management.
<b>Learning Outcomes</b>	<ol style="list-style-type: none"> <li>1. Learn to compute historical and expected returns as well as the risk measures</li> <li>2. Construct and Manage a Portfolio</li> </ol>
<b>Methodology</b>	<ol style="list-style-type: none"> <li>1. Class lectures, interactive learning and practical problems</li> <li>2. Assignments to produce weekly performance report which tracks Stock, Bonds and Commodity.</li> <li>3. Students practice on trading simulation</li> </ol>
<b>Unit I</b>	<b>Introduction</b>
	Investment: Meaning - Nature - Scope – Objectives – Investment, Speculation and Gambling – Investment avenues – Sources of financial information. Return and Risk in Investment: Systematic Risk and Unsystematic risks; Portfolio: Meaning and its relevance in reducing risk - Measurement of Return and Risk of an individual security and portfolio including return through CAPM.
<b>Unit II</b>	<b>Stock Market Analysis</b>
	Fundamental Analysis -Economic - industry - Company Analysis. Technical Analysis - Dow Theory, Elliot’s Waves Theory, Efficient Market Hypothesis, and Computer aided Technical analysis.
<b>Unit III</b>	<b>Portfolio Analysis and Selection</b>
	Traditional portfolio analysis, Why portfolios, Effects of combining securities, Markowitz risk-return optimization; Portfolio Selection: Risk and Investor preferences, Selecting the best portfolio, Markowitz portfolio optimization, Sharpe portfolio optimization, Arriving at the optimal portfolio, Consideration of new securities; Traditional portfolio selection.
<b>Unit IV</b>	<b>Portfolio Evaluation and Revision</b>
	Concept of mutual fund and NAV, Sharpe’s – Treynor’s - Jensen’s performance index- Use of excel spreadsheet application; Meaning and Need for portfolio revision, Portfolio revision technique, Cost of portfolio revision.
<b>Unit V</b>	<b>Portfolio Simulation</b>
	Using virtual trading platforms like Dalal Street Investment Journal (DSIJ) Game, Yahoo Finance, Money Control, Investopedia stock stimulator etc. (Practical Based Unit)
<b>Reference Books</b>	1. Prasanna Chandra: Investment Analysis and Portfolio Management, Tata McGraw Hill, New Delhi.
	2. Francis J.C. – Investments: Analysis & Management, Mc Graw Hill
	3. Elton & Gruber- Modern Portfolio and Investment Analysis, John Wiley & Sons
	4. Donald E. Fischer and Ronald J. Jordan: Security Analysis and Portfolio Management, Prentice Hall, New Delhi.

	5. Avadhani V.A – Security Analysis & Portfolio Management, Himalaya Publishing House
<b>Open Resources</b>	Yahoo-Finance, Money Control, Investopedia, Economist, CNBC, BSE, NSE
<b>Tools and Softwares</b>	Access to Internet, Excel, Word, PowerPoint, SPSS

**MCOM5103: COMPUTER AIDED MULTIVARIATE DATA ANALYSIS**  
**Hard Core** **4 Credits**

<b>Prerequisites</b>	Should have studied Statistics at the UG level
<b>Learning Objectives</b>	The course is aimed at imparting advanced data analysis skills using software's like MINITAB and SPSS to enhance the research capability of a student.
<b>Learning Outcomes</b>	<ol style="list-style-type: none"> <li>1. Understanding the assumptions made in performing each analysis and test,</li> <li>2. Decide what method to use with their dataset,</li> <li>3. Analyse the data and get the results,</li> <li>4. And interpret the results and explain the findings to others.</li> </ol>
<b>Methodology</b>	Lectures, Assignments, Lab and a project. In the project, students will, Find dataset to apply multivariate analysis, Apply multivariate methods, Interpret the results, and Report the findings.
<b>Unit I</b>	<b>Introduction</b>
	Meaning, Definition- Concept, Measurement scales Measurement errors, Types of multivariate techniques – Guideline for Multivariate Analysis and interpretative. A structured approach to Multivariate model building.
<b>Unit II</b>	<b>Factor analysis</b>
	Meaning, Objectives, Assumptions, Process of deriving Factors and assessing overall fitness, Criteria for the number of Factors to Extract - CFA - Interpreting the Factors – Rotation of Factors – Varimax – Significance of Factor Loadings , Structural Equation Modeling (SEM)
<b>Unit III</b>	<b>Multiple Regression Analysis</b>
	Simple regression, Multiple Regression Objective of Multiple Regression – Assumptions – Estimating the Regression model and assessing the overall model Fit – Interpreting the Regression variate – Assessing Multi colinearity. Logit & Probit model – Discriminant & Cluster Analysis.
<b>Unit IV</b>	<b>Multiple Discriminant Analysis</b>
	Key terms – Objectives & Decision Process – Calculating Discriminate Z Scores – Potency Index – Rotation Loadings – Case wise Diagnostics – Assessing Overall Fit
<b>Unit V</b>	<b>Multivariate analysis of Variance</b>
	MANOVA – Univariate test – Multivariate ANOVA – Two group case: Hotel ling's T square – group MONOVA – Post hoc Tests – Interpreting results
<b>Reference Books</b>	<ol style="list-style-type: none"> <li>1. MANOVA – Univariate test – Multivariate ANOVA – Two group case: Hotel ling's T square – group MONOVA – Post hoc Tests – Interpreting results</li> </ol>
	<ol style="list-style-type: none"> <li>2. Johnson RA and DW Wichern., Applied Multivariate Statistical Analysis, Upper Saddle River, NJ, Prentice Hall</li> </ol>

	3. Affif and Clark., Computer Aided Multivariate Analysis, Lifetime Learning Publications, California
	4. SPSS, Inc., SPSS advanced Statistics Guide, Chicago, SPSS
	5. SAS Institute, Inc., SAS User's Guide: Statistics, Version 6, Cary, NC., SAS Institute
<b>Open Resources</b>	Companies Annual Reports, NSE, BSE, Money Market, Capital Market, Commodity Market, FOREX Market
<b>Tools and Softwares</b>	R, SAS, SPSS, MINITAB and Bloomberg

**MCOM5104: CORPORATE FINANCE LAB**

**Hard Core**

**4 Credits**

<b>Prerequisites</b>	<b>Basic functions in MS Excel</b>
<b>Learning Objectives</b>	Gives the hands on experience using real live data also it will help the students to give financial consultancy firms
<b>Learning Outcomes</b>	To enable the students to conduct Fundamental Analysis and Technical Analysis of company using real time data.
<b>Methodology</b>	Lectures, Assignments, Lab and a project.
<b>Unit I</b>	<b>Based on Annual Reports of Companies</b>
	Analysis of financial statements based on any five select annual reports, important ratios, funds flow analysis statements, examining the trends over a period of time. Comparison between cross category ratios, cross sectional analysis.
<b>Unit II</b>	<b>Bloomberg Based Data</b>
	<ul style="list-style-type: none"> <li>● Extraction of industry wise data on select fundamentals</li> <li>● Extraction of company specific data</li> <li>● Annual Data on select indicators across companies in a given industry</li> <li>● Data on select big business houses in India</li> <li>● Data on capital structure designs of select industries</li> <li>● Sector wise stock price indices</li> <li>● Company specific price charts and identification of events based on exercises: <ul style="list-style-type: none"> <li>○ Estimation of daily returns, weekly returns, monthly, quarterly and half yearly returns</li> <li>○ Working out leads and lags in the stock</li> <li>○ Identification of trends and patterns of share prices</li> </ul> </li> </ul>
<b>Unit III</b>	<b>Market SPSS Based Exercises</b>
	<ul style="list-style-type: none"> <li>● Calculation of correlation between funds and stock returns</li> <li>● Estimation of Multiple Regression Equation between select firm values and market returns</li> <li>● Dummy value regression, step-wise regressions</li> </ul>
<b>Unit IV</b>	<b>Multivariate Analysis</b>
	Factor Analysis and Principle Component Analysis
<b>Unit V</b>	Discriminate functions and Credit rating Cluster Analysis and Data distances
<b>Open Resources</b>	Bloomberg, Companies Annual Reports, NSE, BSE, Money Market, Capital Market, Commodity Market, FOREX Market
<b>Tools and Softwares</b>	Excel, SPSS, Eviews

**EVEN SEMESTER**  
**FOURTH SEMESTER**

**MCOM5201: INTERNATIONAL FINANCE**

**Hard Core**

**4 Credits**

<b>Prerequisites</b>	The students should have a basic knowledge of corporate finance and should be familiar with finance concepts
<b>Learning Objectives</b>	To explain the outcomes and reactions of MNC on various decisions
	To check the viability of an international project in terms of profitability and cash flows
	Effectively communicate the outcome of the analysis to all the stakeholders
<b>Learning Outcomes</b>	Apply the knowledge in foreign exchange
	To mitigate the exposure of currency fluctuations
	To help students to trade in foreign exchange
	To know various tools in handling currency exposure
<b>Methodology</b>	Lecture
	Case Study
	Lab involving practical's of currency trade
<b>Unit I</b>	Title: Foundations of International Finance
	Contents Evolution of Bretton woods system. Fixed and Flexible Exchange Rate arrangements. European Monetary System. International Economic Crises. Balance of Payments and its Components. BOP trends in major countries.
<b>Unit II</b>	Title: International Financial Markets and Instruments:
	Contents: International Money Market: Euro Currency Market. Euro Credits. Euro Notes. Cryptocurrency. International Bond Market: Credit Rating and indices of International Bond Market., International Equity Markets: Market Structure. Trading in International Equities. Cross-listing of equities. Instruments: GDRs. ADRs. IDRs. Global Registered Shares.
<b>Unit III</b>	Title: Foreign Exchange Exposure and Management
	Contents: Functions, Structure, participants of Forex Market. Foreign Exchange Rates: Spot, Forward, Futures, Options and Swap. International Parity Relationship, Management of Foreign Exchange Exposure: Transaction, economic and Translation exposure
<b>Unit IV</b>	Title: Foreign Direct Investment & cross border acquisition:
	Contents: Automatic Route, Government Route, Prohibited Sectors – Regulations on FDI & Cross Border Acquisition.
<b>Unit V</b>	Title: International Taxation & Disputes resolution:
	Contents: Basic Concepts. International Tax Treaties. BEPS Action Plans. International Disputes Resolution Mechanism.
<b>Reference Books</b>	Apte, P.G: International Financial Management, Tata McGraw Hill, New Delhi 2009,5th edition



	Shapiro, Alan. C: Multinational Financial Management, Prentice-Hall, New Delhi. 2006,8th edition
	Cheol S. Eun, Bruce G. Resnick: International Finance Management, Mc Graw Hill, 2009 5th Edition.
	Buckley, Adrian: Multinational Finance, Prentice-Hall, New Delhi, 2020 5th Edition.
<b>Open Resources</b>	<a href="https://www.udemy.com/course/international-finance-i/">https://www.udemy.com/course/international-finance-i/</a>
<b>Tools and Software</b>	Spread Sheets OLYMP trade

## MCOM5202: EQUITY DERIVATIVES

Hard Core

4 Credits

<b>Prerequisites</b>	Basic Knowledge of finance and Mathematics
<b>Learning Objectives</b>	To help students understand the concepts and equip them to take investment and trading positions in the options and futures market.
<b>Learning Outcomes</b>	Explain the need to hedge
	Calculate the payoffs one can receive through options
	Make option strategies
<b>Methodology</b>	Lecture
	Case Study
	Spreadsheet Modelling
<b>Unit I</b>	<b>Introduction to derivatives:</b> meaning and purpose of derivatives; forward contracts Future contracts options, swaps and other derivatives; Type of trader; Trading future contracts; Specification of the future contracts; Operation of margins, Settlement, and regulations. - Derivatives Market in India: –regulation, working, and trading activity.
<b>Unit II</b>	<b>Futures:</b> Hedgers and speculators; Future contracts; Future market –clearing house margins, trading future positions and taxation; Future prices and spot prices; Forward prices; vs. future prices; Futures vs. options
<b>Unit III</b>	<b>Options</b> Types of options; Options trading; Margins; Valuation of options; Binomial Option; Pricing Modal; Black -Scholes model, for Call Option; Valuation of put Options; Index options; options market exchange-traded options, over-the-counter options, quotes trading, margins, clearing, regulation, and taxations; Warrants and convertibles
<b>Unit IV</b>	<b>SWAPS</b> Mechanics of interest rate swaps, valuation of interest rate, swaps currency swaps, and valuation credit risk and swaps.
<b>Unit V</b>	<b>Derivatives Accounting &amp; Taxation:</b> scope and importance - Accounting & Taxation practices of Derivatives – Accounting Standard - reporting practices
<b>Reference Books</b>	Dhanesh Khatri, derivatives and Risk management, macmillan Publishers India Ltd, 2012.
	John C. Hull, SankarshanBasu, Options, Futures and other Derivatives, Pearson Education, Noida 2010
	Stafford Johnson, Introduction to Derivatives, Oxford University Press, 2009

	David A & Thomas W. Miller, Derivatives valuation and Risk Management, Oxford University Press 2003.
	Rene M. Stuly, Risk Management & Derivatives, Thomson south Western, 2007.
<b>Open Resources</b>	<a href="https://nptel.ac.in/courses/110/107/110107128/">https://nptel.ac.in/courses/110/107/110107128/</a>
<b>Tools and Software</b>	Spreadsheet Modelling

**MCOM5203: BEHAVIORAL FINANCE**

**Hard Core**

**4 Credits**

<b>Prerequisites</b>	Basic Knowledge of finance
<b>Learning Objectives</b>	The purpose is to develop a strategic and policy perspective of Behavioural Finance and Investment Management.
<b>Learning Outcomes</b>	Decision Making
	Avoiding heuristic bias
	Behavioral economics
<b>Methodology</b>	Case study
	Lecture
	Class discussions
<b>Unit I</b>	<b>Conventional Finance and Behavioural Finance</b>
	Assumptions, differences, and reconciliation. Neoclassical Finance; Empirical anomalies and their behavioral explanations: Investor behavior and its modeling.
<b>Unit II</b>	<b>Heuristic</b>
	Driven Biases, Frame Dependence, Socio-emotional influences; Information processing: Bayesian rationality, Heuristical shortcuts, Cognitive paths. Bounded rationality.
<b>Unit III</b>	<b>Behavioural challenges to corporate finance theories</b>
	Structure irrelevance and behavioral factors, dividend irrelevance, and behavioral factors.
<b>Unit IV</b>	<b>Corporate decision-making under behavioral influence</b>
	Behavioural challenges to asset management theories: Systematic underperformance. Active portfolio management and alpha hunting; Socio-psychological challenges to financial markets:
<b>Unit V</b>	<b>Market efficiency</b>
	Adaptive Markets Hypothesis and Market ecology
<b>Reference Books</b>	Prasanna Chandra, Behavioural Finance McGraw Hill Education
	James Montier, Behavioural Investing: A Practitioner's Guide to Applying Behavioural Finance, Wiley Finance
	William Forbes Behavioural Finance John Wiley & Sons
	Meir Statman Behavioral Finance: The Second Generation CFA Institute Research Foundation
	Sujata Kapoor, Jaya MamtaProsadBehavioural Finance SAGE Publications
<b>Open Resources</b>	<a href="https://www.coursera.org/learn/duke-behavioral-finance#about">https://www.coursera.org/learn/duke-behavioral-finance#about</a>
<b>Tools and Software</b>	Spread Sheet Modelling

**POOL OF SOFT CORE COURSES  
(APPLICABLE FROM THE ACADEMIC YEAR 2021-22 ONWARDS)**

- (a) The Department of Commerce would offer courses from the pool of soft core courses to both BF and AT students depending upon the need of students and availability of professors.
- (b) Students who have done hard core course in any subject is not eligible to take soft core course in the same subject.
- (c) Students are free to take any number of soft courses from other departments; need not depend upon the department.
- (d) Minimum 20 and maximum 60 students are permitted for each soft core course
- (e) Selection of students for a particular soft core course is to be made based on the merit list prepared from the eligibility test when more than 60 prefers to join.

Course Code	Title of the Paper	Soft/ Hard	Cre dit
<b>Management and Decision</b>			
SCOM01	Managerial Economics	S	3
SCOM02	Marketing Strategy	S	3
SCOM03	Human Resource Management	S	3
SCOM04	Strategic Management	S	3
SCOM05	Family Business Management	S	3
SCOM06	Direct and Indirect Tax Administration	S	3
SCOM07	Corporate Tax Planning and Management	S	3
<b>Decision Tools and Techniques</b>			
SCOM08	Machine Learning for Financial Decisions	S	3
SCOM09	Business Analytics for Decision Making	S	3
SCOM10	Principles of Artificial Intelligence	S	3
SCOM11	Computer applications in Business	S	3
SCOM12	Research Methodology	S	3
SCOM13	Statistics for Business Decisions	S	3
SCOM14	Operations Research	S	3
SCOM15	Financial Mathematics	S	3
<b>Investment and Risk Management</b>			
SCOM16	Stock and Forex Trading Lab	S	3
SCOM17	Multinational Financial Management	S	3
SCOM18	Fund Management in Commerce Banks	S	3
SCOM19	Commodity derivatives markets & applications	S	3
SCOM20	Investment Valuation	S	3
SCOM21	Financial Risk Management	S	3
SCOM22	Forensic Accounting and Fraud Risk Management	S	3
SCOM23	Personal Finance	S	3
SCOM24	Equity Derivatives (For students from AT and Other Departments)		
<b>Finance and Accounting</b>			
SCOM25	Merchant Banking and Financial Services	S	3

SCOM26	Corporate Governance	S	3
SCOM27	Strategic Financial Management	S	3
SCOM28	Multinational Financial Management		
SCOM29	Fund Management in Commercial Banks		
SCOM30	Project and Entrepreneurial Finance	S	3
SCOM31	International Accounting		
<b>General</b>			
SCOM32	Value added courses (Only up to III Semester)	S	3
SCOM33	Project / Internship and Viva	S	3
SCOM 34	Contemporary Legal Framework	S	#
	Softcore courses from Other Departments	S	3

**SCOM01- MANAGERIAL ECONMOMICS**

Soft Core

3 Credits

<b>Prerequisites</b>	Basic Knowledge in Economics
<b>Learning Objectives</b>	Objective of this paper is to provide the basic concepts in Managerial Economics
<b>Learning Outcomes</b>	Basics application of economics in Business decision making
<b>Methodology</b>	Chalk and talk, Presentation, Seminar, Group Discussion
<b>Unit I</b>	<b>Title:</b> Basic concepts of Managerial Economics
	<b>Contents:</b> Profits, revenue – costs – discounting – profit maximization – marginal analysis – regression analysis – objectives of the enterprise.
<b>Unit II</b>	<b>Title:</b> Demand
	<b>Contents:</b> Demand function – Law of demand, demand elasticity's, demand estimation and forecasting
<b>Unit III</b>	<b>Title:</b> Production and Costs
	<b>Contents:</b> Production Function – Employment decisions – cost curves in the short and long run – estimating cost functions
<b>Unit IV</b>	<b>Title:</b> Perfect competition
	<b>Contents:</b> Output decisions of firms, equilibrium of the industry in the short and long run – supply-demand analysis – effects of price control. Monopoly and simple Oligopoly – Price and output decisions under monopoly, discriminating monopoly, effects of price control, kinked demand curve hypothesis
<b>Unit V</b>	<b>Title:</b> Price practices
	<b>Contents:</b> Cost based pricing, Competition oriented pricing, - Limit pricing– Peak load pricing – Life Cycle pricing
<b>Reference Books</b>	Christopher R Thomas and S. Charles Murice (2005) Managerial Economics Concepts and Applications. New Delhi: Tata McGraw Hill.
	P.L. Mehta (2002) Managerial Economics - Analysis, Problems and Cases. New Delhi: Sultan Chand
	Watson and Getz (1995) Price Theory and its uses. AITBS
	Rahul A Shastri (2000) Microeconomic Theory. Hyderabad: Universities Press (Orient Longman)
	Ahuja H. L, Managerial Economics- Analysis for Managerial Decision Making, S. Chand, New Delhi
<b>Open Resources</b>	
<b>Tools and Softwares</b>	MS Excel

## SCOM02: MARKETING STRATEGY

Soft Core

3 Credits

<b>Prerequisites</b>	Basic Knowledge on Marketing management
<b>Learning Objectives</b>	The Objective of this course is to develop both theoretical and practical understanding to the various concepts of International Marketing
<b>Learning Outcomes</b>	Devising strategies to sell the product and segmentation
<b>Methodology</b>	Chalk and talk, presentations, seminar, Group Discussion
<b>Unit I</b>	<p>Title: Introduction</p> <p>Contents: Concept and Significance of Marketing Strategy; Marketing Strategy – Factors Considered in Formulating Marketing Strategy. Designing Strategic Marketing: Steps Involved in Corporate Strategic Planning, Competitive Strategies – Market Leader, Market Challenger, Market Followers and Market Nichers Strategies</p>
<b>Unit II</b>	<p>Title: Designing Marketing Mix Strategies</p> <p>Contents: Product Strategy – Steps Involved and Differentiation Tools; Product Life Cycle Marketing Strategies; Pricing Strategy – Steps in Pricing Strategy; Initiating and Responding to Price Changes; Channel Strategy – Steps Involved in Channel Strategy; Channel Dynamics; Communication Strategy – Developing Effective Communication; Managing Integrated Marketing Communication Process.</p>
<b>Unit III</b>	<p>Title: Customer-Orientation in Marketing</p> <p>Contents: Customer Relationship Marketing-Concept and Need for Customer Relationship Marketing; Process of Customer Relationship Marketing; Building Customer Satisfaction and Retention – Defining and Delivering Customer Value and Satisfaction; Nature of High Performance Business; Attracting and Retaining Customers</p>
<b>Unit IV</b>	<p>Title: Recent Issues in Marketing Strategy</p> <p>Contents: What customers want?: Customer value, Conjoint Analysis, Analytics for customer segmentation and targeting, Demand Forecasting &amp; Pricing, Pricing</p>
<b>Unit V</b>	<p>Title: Marketing Models for Strategies</p> <p>Contents: Marketing Mix Models and Advertising Models, Recommender System, Market Basket Analysis and RFM Analysis, Customer Churn &amp; Customer Lifetime Value, Text Mining and Sentiment Analytics, Text Mining and Product Innovation Management, Social Network Analysis for Marketing</p>
	Warren J. Keegan : Global Marketing Management, 8th Ed. PHI.2013



<b>Reference Books</b>	Philip R. Cateora : International Marketing, 16th Ed. Irwin, 2013 – Business Marketing, PHI, 2004
	SakOnkvist: International Marketing, Analysis and Strategy.4th Ed. PHI.2004
	Keith Lewis, Mathew Housden : Introduction to International Marketing: A Guide to Going Global. Crest Publishing House.2003
	Michael Czinkota, Ronkainen. International Marketing. 10th Ed. Cengage Learning, 2012
<b>Open Resources</b>	
<b>Tools and Softwares</b>	

**SCOM03: HUMAN RESOURCE MANAGEMENT**

Soft Core

3 Credits

<b>Prerequisites</b>	Basic knowledge on the functions of management
<b>Learning Objectives</b>	To impart knowledge on the concept and essential functions of human resource management.
<b>Learning Outcomes</b>	Understand the basic concept of human resource management and its evolution and challenges
	Articulate human resource planning using quantitative and qualitative dimensions
	Knowledge on different methods of training and performance appraisal methods and their link with compensation
	Strategies of Talent Management and Change Management
	Understand the concept of HR Analytics and its applications
<b>Methodology</b>	Teaching with visual aids
	Assignments and Tests
	Quiz sessions and Case Discussion
<b>Unit I</b>	<b>Introduction</b>
	Concept and Functions; Human Resource Development (HRD)-definition, goals and challenges; The changing environment of HRM – globalization, multi-cultural environment, technological advances, workforce diversity, corporate downsizing, changing skill requirement, Work life balance.
<b>Unit II</b>	<b>Human Resource Planning</b>
	Process, Forecasting demand and supply, Skill inventories, Succession planning; Job analysis. Recruitment – Source, process, Tests in selection; Orientation & Induction: Concept and process.
<b>Unit III</b>	<b>Performance, Training &amp; Compensation</b>
	Concept, Need, Types of Appraisal Methods, Training: Process, Methods; Compensation & Incentives, social security, retirement and other benefits.
<b>Unit IV</b>	<b>Recent issues in HRM</b>
	Talent management, Social recruitment, multi-cultural issues, Change management, Talent network, crowd sourcing and internal social networks, increased flexibility and productivity, supporting virtual workforce, Balanced Score Card.
<b>Unit V</b>	<b>HR Analytics</b>
	Basics of HR analytics, Evolution, Analytical value chain, Analytical model, typical application of HR Analytics. Types of Measures – HR Productivity Metrics and Human Capital Metrics. HR Analytics Maturity Model, CEO/ Managers – HR expectations on Analytics.
<b>Reference Books</b>	De Cenzo, D.A. and Robbins. (2010). Fundamentals of Human Resource Management (10th Edition). New York: John Wiley and Sons
	Dessler, G. (2015). Human Resource Management (14th Edition). Pearson

	Arun Monappa and Miza S Saiyadain (1999). Personnel Management (2nd Edition). New Delhi: Tata McGraw-Hill publishing Company Limited.
	Aswathapa K. (2005). Human Resource and Personal Management: Text and Cases. New Delhi: Tata McGraw-Hill Publishing Company Limited
	Dipak Kumar Bhattacharyya (2017), HR Analytics: Understanding Theories and Applications, Sage.
<b>Open Resources</b>	
<b>Tools and Softwares</b>	

**SCOM04: STRATEGIC MANAGEMENT**

Soft Core

3 Credits

<b>Prerequisites</b>	Understanding of basic Management Concepts
<b>Learning Objectives</b>	The course introduces the students with the global business conditions and familiarizes them with the strategies for meeting global competition.
<b>Learning Outcomes</b>	<ol style="list-style-type: none"> <li>1. Learn to Think Critically and understand complex business challenges</li> <li>2. Learn to Strategize, Collaborate for better implementation of Strategies</li> <li>3. Acquire Leadership skills to solve and implement strategic understanding to work for success in business</li> <li>4. Understand the Global Business Scenario and manage the Global Work Force</li> </ol>
<b>Methodology</b>	lectures will be given to elaborate on key theoretical models and frameworks, discussion of selected management and competitive strategy cases
<b>Unit I</b>	<p><b>International / Global business</b></p> <p>Background, Introduction, modes of international business, evolution of strategy in the internationalization process. The impact of Multinational Enterprise- evaluating the impact of MNE- economic, political and legal impact of MNE-impact of MNE in the internationalization process- operational impact of international business activities</p>
<b>Unit II</b>	<p><b>The Cultural Environment facing business</b></p> <p>Concept of culture- behavioural practices affecting the business, reconciliation of international differences; cultural needs in the internationalization process. The Political and Legal Environment facing business. The Government influence on trade- rationale for governmental intervention; forms of trade control.</p>
<b>Unit III</b>	<p><b>International Business Strategies</b></p> <p>Global Strategic Plan – Organizing strategy. International business negotiations - government versus company strength- negotiations in International Business- evolution of negotiations and diplomacy in the internationalization process- home country involvement in asset protection, multinational agreements and settlements.</p>
<b>Unit IV</b>	<p><b>Corporate Strategy and National Competitiveness</b></p> <p>Determinants and external variables in Porter’s diamond model of national competitiveness- ‘double diamond model’- benefits and effects of free trade agreements- relate the importance of globalization and national competitiveness to MNE strategies throughout the world.</p>
<b>Unit V</b>	<p><b>Collaborative Strategies</b></p> <p>Strategic Alliances: motives for collaborative arrangements-types of collaborative arrangements-collaborative strategies in the internationalization process. Mergers, Acquisitions &amp; Corporate Restructuring, Control Strategies: planning-organizational structure-location of decision making- control in the internationalization process-control mechanisms.</p>

<b>Reference Books</b>	1. Alan M. Rugman, Richard M. Hodgetts International Business: A Strategic Management Approach. New York: Mc. Graw Hill Inc.
	2. John Child and David Faulkner Strategies of Co-operation: Managing Alliances – Networks and Joint Ventures. New Delhi: Oxford University Press, 1998
	3. Patrick A. Gaughan Mergers, Acquisitions and Corporate Restructuring. New York: John Wily & Sons, Inc.
	4. Tony Grundy Breakthrough Strategies for Growth. . London: Pitman Publishing 1995.
	5. Abbass F. Alkhafaji, Strategic Management, First Edition, Jaico Publishing House.
<b>Open Resources</b>	
<b>Tools and Softwares</b>	

**SCOM05: FAMILY BUSINESS MANAGEMENT**

Soft Core

3 Credits

<b>Prerequisites</b>	Basics understanding about the family business
<b>Learning Objectives</b>	To expose the students of situational aspects family owned business, its growth and sustainability.
<b>Learning Outcomes</b>	Development and implementation of effective governance
	Devising strategies for family business
	Understanding the basics of succession planning
<b>Methodology</b>	Teaching with visual aids
	Assignments and Tests
	Quiz sessions and Case Discussion
<b>Unit I</b>	<b>Introduction</b>
	Overview of the family business. Effective governance and the family business, Issue of ownership and conflict in family. Capital structure of closely held business and family business, cash, growth. Issues and challenges in family business and closely held family business.
<b>Unit II</b>	<b>Developing Effective Governance</b>
	Understanding the relationships between family and business, management and ownership. Governance issues in family owned business, behavioral issues in closely held and family owned business & managed business. Conflict management and transition in family business
<b>Unit III</b>	<b>Growth Strategy</b>
	Growth strategy for family owned business. Different models in family business. Developing sustainable family business organization structure, ownership, team of advisors, board of directors and corporate governance.
<b>Unit IV</b>	<b>Succession Planning</b>
	Family succession, issues of succession in a family firm, preparing for succession planning. Legal norms of succession-succession acts, important provisions.
<b>Unit V</b>	<b>Future Prospects</b>
	Involving non-family members, power struggles and issues of succession in a family firm, Valuation of the closely held firm, the changing role of family in the family business.
<b>Reference Books</b>	Thomas Zellweger Managing the Family Business: Theory and Practice Edward Elgar Publishing
	Walter Vieira, Mita Dixit The 5Gs of Family Business SAGE Publications India.
	Kavil Ramachandran The 10 Commandments for Family Business SAGE Publications India.
	A. Gimeno, G. Baulenas, J. Coma-Cros Family Business Models: Practical Solutions for the Family Business Springer
	John L. Ward, Craig E. Aronoff, Family Business Governance: Maximizing Family and Business Potential By A Family Business publications
<b>Open Resources</b>	

**SCOM06: DIRECT AND INDIRECT TAX ADMINISTRATION**

Soft Core

3 Credits

<b>Prerequisites</b>	Basic knowledge on Direct and Indirect tax Laws
<b>Learning Objectives</b>	To understand the various administrative and regulatory provisions of Direct Tax and Indirect taxes in India.
<b>Learning Outcomes</b>	Gaining exposure on different types of taxes
	Organisational setup of Direct tax administration
	Organisational setup of Indirect tax administration
	Settlement and composition under direct and indirect tax laws
<b>Methodology</b>	Teaching with visual aids
	Assignments and Tests
	Quiz sessions and Case Discussion
<b>Unit I</b>	<b>Basic Concepts</b>
	Assessment Year, Previous Year, Types of Assesses, Incomes and Receipts . Reforms in Direct tax, Tonnage Tax, Securities Transaction Tax, Commodities Transaction Tax, Direct Tax Code.
<b>Unit II</b>	<b>Income Tax Authorities</b>
	CBDT, Director General, Commissioners and Powers of Authorities: Search & Seizure, Power to Call for Information, Power of Survey, Powers regarding discovery of Information. Types of Penalties, Various Procedures for Imposing Penalties.
<b>Unit III</b>	<b>Assessment</b>
	Best judgment Assessment, Self Assessment, Reassessment, Precautionary Assessment, Regular assessment, Important Provisions under Assessment. Various Types of Income Tax Returns and Income Tax forms- E-filing – Appeals and revisions – Refunds – Settlement Commission.
<b>Unit IV</b>	<b>Constitutional provisions</b>
	CBEC(Central Board of Excise & Customs) Organisation of Central Excise and Customs departments – Hierarchy – powers of commissioners – Deputy commissioners – Superintendant and Inspectors – Demands, Refund/Rebate of Central Excise Duty – Adjunctication Procedure in Central Excise – Search, Seizure Arrest and confiscation of goods under the Customs Act. – Advance Ruling authorities p application – Procedures formalities for scrutiny of application – Powers of authorities.
<b>Unit V</b>	<b>Settlement Commission for Excise and customs</b>
	composition and powers of the Commission – Appellate provisions in Central Excise, Customs and Service Tax – appeals to CESTAT (Customs, Excise and Service Tax Appellate Tribunal) procedure of Appeal to CESTAT – Orders of the CESTAT – Appeal before Supreme Court – Revision by Central Government – Reference to High Court/supreme Court Service tax Assessment – Filing of return of service Tax – appeals – penalties

<b>Reference Books</b>	V.K. Singhania and Kapil Singhania Direct Tax Law and Practice Taxmann Publication 64 <sup>th</sup> Edition, 2021
	H.C. Mehrotra and S.P. Gopyal Income Tax Law and Accounts, Sahitya Bhawan Publications 42th editions 2021.
	VS Datey, Indirect Taxes, Taxmann Publication, New Delhi, 24 <sup>th</sup> Edition, 2010
	CA Anoop Modi & CA Mahesh Gupta, GST & Customs Law, SBPD Publications 2018
	V.K. Singhania and Monica Singhania Students guide to GST and Customs Law Taxmann Publication 5th edition 2020.
<b>Open Resources</b>	
<b>Tools and Softwares</b>	



**SCOM07: CORPORATE TAX PLANNING AND MANAGEMENT**  
Soft Core 3 Credits

<b>Prerequisites</b>	Basic knowledge on tax provisions and tax planning
<b>Learning Objectives</b>	To understand the innovative ideas in corporate tax in India and to give expert advices to whom is required regarding various tax issues for decision-making.
<b>Learning Outcomes</b>	Giving expert advice in corporate tax planning
	Able to independently handle corporate tax planning
	Due diligence and compliance of tax laws
<b>Methodology</b>	Teaching with visual aids
	Assignments and Tests
	Quiz sessions and Case Discussion
<b>Unit I</b>	<b>Corporate taxation:</b>
	Taxable Income and Tax Liability. Problems on Computation of Taxable Income of Corporate. Minimum Alternative Tax. Dividend Distribution Tax. Tax on Income distributed to Unit holders. Tax incentives to the exporters.
<b>Unit II</b>	<b>Corporate Tax Management</b>
	Return of Income. Assessment. Advance Payment of Tax. Tax Deductions at Source. Tax Collection at Source. Appeals and revisions. Income Tax Authorities. Settlement of Cases. Advance Ruling for Non Residents. Search and Seizure. Penalties and Fine
<b>Unit III</b>	<b>Corporate Tax Planning</b>
	Introduction of Tax Planning. Tax planning with respect to Forms of Business. Nature of Business. Location of Business. Tax Planning Vs Tax Management. Tax Avoidance Vs Tax Evasion
<b>Unit IV</b>	<b>Tax Planning and Corporate Decisions</b>
	Tax planning for business. Capital Structure Decision. Dividend Distribution Decision. Own or Lease. Make or Buy Decision. Shutdown or Continue Decisions. Repair or Replace. Sale of Assets used for Scientific Research.
<b>Unit V</b>	<b>Tax Issues Relating to Business Restructuring</b>
	Amalgamation. Demerger. Conversion of Sole Proprietary into Company. Conversion of Firm into Company. Slump Sale. Transfer of Assets between Holding and Subsidiary Company.
<b>Reference Books</b>	V.K. Singhania and Monica Singhania Corporate Tax Planning and Business Tax Procedure Taxmann Publication Ltd., 64th edition 2021
	V.K. Singhania and Monica Singhania Corporate Tax Planning and Business Tax Procedure Taxmann Publication Ltd., 23th edition 2019
	Sally Jones and Shelley Rhodes Principal of Taxation for business and Investment Planning Tata McGraw Hill 4th edition 2010.
	H.C. Mehrotra and S.P. Goyal Income Tax Law including Tax Planning and Management Sahitya Bhawan Publications 42 <sup>nd</sup> edition 2021
	Girish Ahuja and Ravi Gupta. Direct Taxes Ready Reckoner with Tax Planning, Wolters Kluwer Publisher 21 <sup>st</sup> edition 2020

**SCOM08: MACHINE LEARNING FOR FINANCIAL DECISIONS**  
Soft Core **3 Credits**

<b>Prerequisites</b>	Statistics, Algorithms
<b>Learning Objectives</b>	To understand the concepts of machine learnings To appreciate supervised and unsupervised learning and its application To understand the theoretical and practical aspects of Probabilistic Graphical Models To appreciate the concepts and algorithms of reinforcement learning To learn aspects of computational learning theory
<b>Learning Outcomes</b>	Design a neural network for an application of your choice Identify applications suitable for different types of machine learning with suitable justification Implement probabilistic discriminative and generative algorithms for an application of your choice and analyze the results Use a tool to implement typical clustering algorithms for different types of applications Design and implement on HMM for a sequence model type of application
<b>Methodology</b>	Lectures Lab
<b>Unit I</b>	<b>Title Introduction:</b> Contents: Machine Learning – Machine Learning Foundation – Overview – Design of a Learning system – Types of machine learning – Applications Mathematical foundations of machine learning – random variable and probabilities – probability theory – Probability distribution – Decision theory – Bayes Decision Theory – Information Theory
<b>Unit II</b>	<b>Title: Supervised Learning</b> Contents: Linear Models for regression – Linear models for classification – Naïve Bayes – Discriminant Functions – Probabilistic Generative Models – Probabilistic Discriminative Models – Bayesian Logistic Regression – Decision Trees – Classification Trees – regression trees – Pruning, Neural Networks – Feed- Forward Network Functions – Back – Propagation – support vector machines – Ensemble methods – Bagging – Boosting
<b>Unit III</b>	<b>Title: Unsupervised Learning</b> Contents: Clustering – K- Means – EM algorithms – Mixtures of Gaussians, The Curse of Dimensionality – Dimensionality Reduction – Factor Analysis – Principal Component Analysis – Probabilistic PCA – Independent Component Analysis
<b>Unit IV</b>	<b>Title: Probabilistic Graphical Models:</b> Contents: Graphical Models – Undirected graphical models – Markov Random Fields – Directed Graphical Models – Bayesian Networks – Conditional independence properties – Inference – Learning – Generalization – Hidden Markov Models – Conditional Random Fields (CRFs).

<b>Unit V</b>	<p><b>Title: Advanced Learning</b></p> <p>Contents: Sampling – Basic Sampling methods – Monte Carlo, Reinforcement Learning – K –Armed Bandit – Elements – Model- Based Learning – Value Iteration – Policy Iteration. Temporal Difference Learning – Exploration Strategies – Deterministic and Non-Deterministic Rewards an Actions Computational Learning Theory – Mistake bound analysis, sample complexity analysis, VC dimension, Occam learning, accuracy, and confidence-boosting. Deep Learning – RNN, ReLU</p>
<b>Reference Books</b>	<p>Bishop, C. (2006). Pattern Recognition and Machine Learning. Berlin: Springer-Verlag.</p> <p>Lars Schmidt- Thieme, Data Analysis, Machine Learning and Applications, Springer.</p> <p>Theobald Oliver, Machine Learning for Absolute Beginners: A Plain English Introduction: 1, (Machine Learning from Scratch), Second Edition, Ebook</p> <p>Tom M. Mitchell, Machine Learning, McGraw Hill Education,</p> <p>Slawomir T. Wierzchon, Advances in Machine Learning II, Springer</p>
<b>Open Resources</b>	<p><a href="https://onlinecourses.nptel.ac.in/noc21_cs24/preview">https://onlinecourses.nptel.ac.in/noc21_cs24/preview</a></p>
<b>Tools and Software</b>	<p>Python and R</p>

**SCOM09: BUSINESS ANALYTICS FOR DECISIONS MAKING**

Soft Core

3 Credits

<b>Prerequisites</b>	Basic knowledge on data and data interpretation
<b>Learning Objectives</b>	The objective is to provide relevant experience in data analytics to take business decisions scientifically.
<b>Learning Outcomes</b>	Gaining exposure on different types of business analytics
	Knowledge on Measurement Scales and its applications
	Understanding the working of Linear Programming
	Workings on different methods of data forecasting
	Insights about data analytics softwares
<b>Methodology</b>	Teaching with visual aids
	Assignments and Tests
	Quiz sessions and Case Discussion
<b>Unit I</b>	<b>Introduction</b>
	Science of data driven decision making, Descriptive analytics, Predictive analytics and Prescriptive analytics; Big data analytics, web and social media analytics, Machine learning algorithms.
<b>Unit II</b>	<b>Data Analytics Software:</b>
	Analytical Software –Free andOpen Source Software Vs Paid Software: <b>R Language:</b> Commands and Syntax, Packages and Libraries, Data Types, Data Structures – Vectors, Matrices, Arrays, Lists, Factors, Data Frames, Importing and Exporting Data. <b>Excel:</b> Introduction to statistical operations. <b>PYTHON:</b> Introduction to statistical operations, programming and data analysis.
<b>Unit III</b>	<b>Descriptive analytics</b>
	Introduction, data Types and scales, types of data measurement scales, measures of central tendency, measures of variations, measures of shapes.
<b>Unit IV</b>	<b>Prescriptive Analytics</b>
	Linear programming - Model building, assumptions, sensitivity analysis, solving LP programming using graphical method, range of optimality and shadow price.
<b>Unit V</b>	<b>Forecasting techniques</b>
	Introduction, time series data and components of time series of data, forecasting techniques and forecasting accuracy, moving average method, single exponential smoothing, double and triple exponential smoothing, Crostons forecasting methods, ARIMA Model.
<b>Reference Books</b>	R.N.Prasad and Seema Acharya, (2016), Fundamentals of Business Analytics, Wiley.
	U Dinesh Kumar (2017), Business Analytics: The Science of Data - Driven Decision Making, Wiley.
	V. K. Jain (2018), Data Science and Analytics (with Python, R and SPSS Programme), Khanna Publishing

	Evans James (2017), Business Analytics (2 <sup>nd</sup> Edition), Pearson.
	Mark J. Bennett and Dirk L. Hugen (2016), Financial Analytics with R (Building a Laptop Laboratory for Data Science), Cambridge University Press
<b>Open Resources</b>	
<b>Tools and Softwares</b>	

**SCOM10: PRINCIPLES OF ARTIFICIAL INTELLIGENCE**  
Soft Core 3 Credits

<b>Prerequisites</b>	Knowledge of Programing
<b>Learning Objectives</b>	The course aims to provide basic concept of Artificial Intelligence and its application in Business, Finance and Accounting
<b>Learning Outcomes</b>	<ol style="list-style-type: none"> <li>1. Understanding of the basic areas of artificial intelligence including problem solving, knowledge representation, reasoning, decision making, planning, perception and action, and learning -- and their applications (e.g., data mining, information retrieval).</li> <li>2. Able to design and implement key components of intelligent agents of moderate complexity in Java and/or Lisp or Prolog and evaluate their performance</li> </ol>
<b>Methodology</b>	Lectures, Assignments, Lab and Project
<b>Unit I</b>	<b>Introduction</b>
	Overview - Foundations, Scope, Problems, and Approaches of AI. Intelligent agents: Reactive, Deliberative, Goal-driven, Utility-driven, and Learning agents, Artificial Intelligence programming techniques.
<b>Unit II</b>	<b>Problem-solving through Search</b>
	Forward and Backward, State-Space, Blind, Heuristic, Problem-Reduction, A, A*, AO*, Minimax, Constraint propagation, Neural, Stochastic, and Evolutionary search algorithms, Sample applications
<b>Unit III</b>	<b>Knowledge Representation and Reasoning</b>
	Ontologies, Foundations of knowledge representation and Reasoning, Representing and Reasoning about objects, Relations, Events, Actions, Time, and Space; Predicate Logic, Situation calculus, Description Logics, Reasoning with defaults, Reasoning about knowledge, Sample applications.
<b>Unit IV</b>	<b>Planning and Decision making</b>
	Planning as search, Partial order planning, Construction and Use of planning graphs. Representing and Reasoning with Uncertain Knowledge: Probability, Connection to logic, Independence, Bayes rule, Bayesian networks, Probabilistic inference, and sample applications. Decision-Making: Basics of utility theory, Decision theory, Sequential decision problems, Elementary game theory, Sample applications.
<b>Unit V</b>	<b>Machine Learning and Knowledge Acquisition</b>
	Learning from memorization, Examples, Explanation, and exploration. Learning nearest neighbor, Naive Bayes, and Decision tree classifiers, Q-learning for learning action policies, Applications. Sample Applications of AI, Student project presentations.
<b>Reference Books</b>	1. Stuart Russell and Peter Norvig, <a href="#">Artificial Intelligence: A Modern Approach, 3rd Edition</a> , By Pearson
	2. Knight, Kevin, Rich, Elaine, Nair, B; Artificial Intelligence, Third Edition, Tata McGraw-Hill Education Pvt. Ltd., 2008

	3. Kompella, Kashyap, Pelz-Sharpe, Alan, Artificial Intelligence, Third Edition, Deep Publishing
	4. Deepak Khemani, A First Course in Artificial Intelligence, McGraw Hill Education Pvt. Ltd, 2013
	5. <b>Prabhat Kumar</b> , Artificial Intelligence: Reshaping Life and Business, BPB Publication
<b>Open Resources</b>	
<b>Tools and Softwares</b>	Java, Python, C++, Lisp, and Prolog

**SCOM11: COMPUTER APPLICATIONS IN BUSINESS**

Soft Core

3 Credits

<b>Prerequisites</b>	Knowledge of Basic computer skills
<b>Learning Objectives</b>	This course is intended to introduce you to the application of excel in finance. The course seeksto develop your ability in using spreadsheets for financial modelling
<b>Learning Outcomes</b>	Understanding of the basic areas of computer applications.
<b>Methodology</b>	Lectures, Assignments, Lab and Project
<b>Unit I</b>	<b>Excel for Financial Modelling</b>
	Basic Excel features-Financial functions-Logical functions- Statistical functions-Look up and reference function-analysis tool pack
<b>Unit II</b>	<b>How to build good excel models</b>
	Documenting excel models- debugging excel models-Formula auditing tools-Financial statement forecasting-Review of theory and concepts-Modelling examples-Present Value and Net Present Value-The Difference between Excel's PV and NPV Functions-Internal Rate of Return and Loan Tables
<b>Unit III</b>	<b>Introduction to Equities using Excel</b>
	Portfolio mean and variance-Risk return representation of portfolios-Using solver to find efficient points-combining risky and risk free securities-asset pricing-single index model-estimating beta coefficients-variance covariance matrix-value-at-risk.
<b>Unit IV</b>	<b>Testing the Security Market Line</b>
	The First-Pass Regression-The Second-Pass Regression- Testing CAPM using excel-Solving an Unconstrained Portfolio Problem-Solving a ConstrainedPortfolio Problem.
<b>Unit V</b>	<b>Event Studies</b>
	Outline of an Event Study-Measuring the Stock's Behavior in the Estimation Window and the Event Window-Market-Adjusted and Two-Factor Models-The Event Window-Impact of Earnings Announcements on Stock Prices-Cumulative Abnormal Returns
<b>Reference Books</b>	Mary Jackson, Mike Staunton "Advanced Modelling using Excel and VBA John Wileyand sons limited 2007
	Gottlieb Isaac, "Next Generation Excel: Modeling in Excel for Analysts and MBAs JohnWiley and sons limited 2009
	Chandan Senguptha "Financial Modeling: Using excel and VBA John Wiley and sonslimited 2008
	Simon Benninga "Financial Modeling The MIT Press Cambridge, Massachusetts 2008
<b>Open Resources</b>	



## SCOM12: RESEARCH METHODOLOGY

Soft Core

3 Credits

<b>Prerequisites</b>	Basic Knowledge on statistics and application softwares
<b>Learning Objectives</b>	To impart knowledge on Research Methodology Theory and Techniques for identifying, analysing and interpreting research problems in the real life situations.
<b>Learning Outcomes</b>	Sensing the importance of Research and development of Research design.
	Gain knowledge about Data Acquisition, Data Pre-processing and preparation
	Understand the concepts and applications of <b>R and Excel Programming.</b>
	Computational skills on widely using statistical techniques in various business research areas.
	Build knowledge regarding new costing techniques and apply those techniques for effective cost management
<b>Methodology</b>	Teaching with visual aids
	Assignments and Tests
	Problem Solving and Case Discussion
<b>Unit I</b>	Introduction
	Basics and types of research, hypothesis and research design, sampling and estimation, measurement and scales; pilot study, reliability test, item analysis and use of Crobach Alpha.
<b>Unit II</b>	<b>Data</b>
	Data Acquisition, Data Pre-processing and preparation, Data quality and transformation, Data exploration and visualization, handling text data.
<b>Unit III</b>	<b>R and Excel Programming</b>
	Commands and Syntax, Packages and Libraries, Introduction to Data Types, Data Structures in R – Vectors, Matrices, Arrays, Lists, Factors, Data Frames, Importing and Exporting Data, Control Structure and functions. <b>Excel:</b> Introduction to statistical operations.
<b>Unit IV</b>	<b>Statistical Analysis</b>
	Inferential statistics, Linear Regression, Multiple Linear Regression, Non-Linear Regression, Forecasting models and clustering.
<b>Unit V</b>	<b>Interpretation and Report Writing</b>
	Importance of Interpretation; Pre-requisites of Interpretation; Errors in Interpretation; Essentials of a Good Research Report; Types of Reports; Layout of a Research Report; Writing up of the Report; Evaluating a Research Report.
<b>Reference Books</b>	Naresh Malhotra, Marketing Research: An Applied Orientation, Pearson
	Cooper & Schindler, Business Research Methods. New Delhi:TMGH
	Kothari, Research Methodology: Methods & Techniques, New Age Intl., NewDelhi
	Levin & Rubin, Statistics for Management. New Delhi:PHI
	Mark Gardener, “Beginning R The statistical Programing Language, Wiley India Pvt Ltd, New Delhi (2015)

**SCOM13: STATISTICS FOR BUSINESS DECISIONS**

Soft Core

3 Credits

<b>Prerequisites</b>	Basics of Statistics and interpretations of the statistics results
<b>Learning Objectives</b>	To familiarize the students with various Statistical Data Analysis tools that can be used for effective decision making. Emphasis will be on the application of the concepts learnt to various managerial situations.
<b>Learning Outcomes</b>	Applications of statistical softwares
	Interpretations of the results
	Making decisions based on the results
<b>Methodology</b>	Teaching with visual aids
	Assignments and Tests
	Quiz sessions and Case Discussion
<b>Unit I</b>	<b>Statistical Decision Theory</b> Attributes, variables (quantitative and qualitative), Scales of measurement: nominal, ordinal, interval and ratio, Measures of Central Tendency, Measures of Dispersion: Shape of the distribution: Skewness and Kurtosis, Z-Score, Chebychev and empirical rule. Decision environment, Expected profit under uncertainty, Utility theory.
	<b>Measures of relations</b> Correlation Analysis: scatter diagram, linear, logistic and multinomial, Correlation: Meaning, Significance, Causation, Tests for significance of Correlation Coefficient.
<b>Unit III</b>	<b>Probability</b> Meaning and need, Theorems of addition and multiplication, Conditional probability, Bayes' theorem, Random Variable- discrete and continuous. Probability Distribution: Meaning, characteristics (Expectation and variance) of Binomial, Poisson, exponential and Normal distribution, Central limit theorem.
	<b>Estimation</b> Population mean, Confidence intervals for the parameters of a normal distribution (one sample only), Introduction to testing of Hypothesis: Concept; Level of Significance; Process of testing; Type I and Type II error, standard error of estimates, Test of hypothesis concerning Mean: z test and t test, F test.
<b>Unit V</b>	<b>Non Parametric Tests</b> Chi-square tests; Sign tests Wilcoxon Signed – Rank tests; Wald – Wolfowitz tests; Kruskal – Wallis tests
	<b>Reference Books</b> Keller, G. Statistics for Management and Economics (10th Edition). New Delhi: CENGAGE Learning, 2015. Levin, R. and Rubin, D, Statistics for Management (7th Edition). New Delhi: Pearson, 2012. Gupta S.P. Statistical Methods, Sultan Chand, New Delhi 2009 Stine, R. and Foster, Statistics for Business (Decision making and Analysis) (2nd Edition), New Delhi: Pearson, 2014 Arora & Arora, Statistics for Management, Sultan Chand, New Delhi, 2009

<b>Open Resources</b>	<a href="http://gretl.sourceforge.net">http://gretl.sourceforge.net</a>
<b>Tools and Softwares</b>	MS Excel, SPSS

**SCOM14: OPERATIONS RESEARCH**

Soft Core

3 Credits

<b>Prerequisites</b>	Basics of business mathematics
<b>Learning Objectives</b>	To equip students with Operations Research techniques for taking managerial decisions.
<b>Learning Outcomes</b>	Cost cutting and profit maximisation through Linear programming
	Assigning the job
	Management and control of Inventory
<b>Methodology</b>	Teaching with visual aids
	Assignments and Tests
	Quiz sessions and Case Discussion
<b>Unit I</b>	<b>Introduction</b>
	Concept and Significance of operations Research Evolution of operations research; Steps in designing operations research studies; Operations research models.
<b>Unit II</b>	<b>Linear Programming and its Applications</b>
	Graphic method and simplex method; Duality problem; Transportation problem; Assignment problem.
<b>Unit III</b>	<b>Waiting Line Models</b>
	Waits and Services; Mathematical distribution of queues; Basic models of queuing theory and applications.
<b>Unit IV</b>	<b>Inventory Control</b>
	Deterministic models and probabilistic models.
<b>Unit V</b>	<b>Game Theory</b>
	Zero sum game; Pure and mix strategies; Criteria of sharing strategies. Net – Work Analysis: Introduction to PERT and CPM; Application areas of PERT and CPM.
<b>Reference Books</b>	Sharma J.K.: Operations Research – Theory and Applications, Macmillan India Ltd., New Delhi 3rd edition 2006
	R. Panneerselvam – Operation Research Prentice Hall of India Private Ltd., New Delhi.(2007)2nd edition
	Hiller & Lieberman “introduction to Operations Research Tata McGraw Hill, New Delhi (2009) 8th ed.
	Vazsonyi, Andrew and Herbert F.Spriner: Quantitative Analysis for Business, Prentice Hall, New Delhi.Special Indian edition
	Vohra, N.D.: Quantitative Techniques in Management, Tata McGraw – Hill, New Delhi. 2008
<b>Open Resources</b>	
<b>Tools and Softwares</b>	MS Excel

**SCOM15: FINANCIAL MATHEMATICS**

Soft Core

3 Credits

<b>Prerequisites</b>	Studied atleast one paper on Business Maths and/or Statistics at UG
<b>Learning Objectives</b>	Aims at the active and practical use of mathematics in Financial Market
	To gain knowledge on different models of Financial Markets
<b>Learning Outcomes</b>	Restate the Definition, Concept, Importance and scope of Financial mathematics
	Gaining conceptual knowledge and application skills on Vector analysis, Multiple integration and linear integral
	Solve the problems on Differential equations
	Application skills on numerical techniques in Finance
<b>Methodology</b>	Teaching with visual aids
	Assignments and Tests
	Quiz sessions and Case Discussion
<b>Unit I</b>	<b>Introduction</b>
	Concept, Importance and scope of Financial mathematics – Set theory, Basic Concept: Indices and logarithm, Permutations and Combinations and Quadratic Equation.
<b>Unit II</b>	<b>Multivariate Calculus and Mathematical Analysis</b>
	Vector, Differentiation in several variables, Vector-valued functions, Maxima and minima in several variables, Multiple integrations, Line integrals, Surface integrals.
<b>Unit III</b>	<b>Differential Equations</b>
	First Order Differential Equations, Linear Second Order Differential Equations, Applications of Linear Second Order Differential Equations, Laplace Transforms, Systems of Linear Differential Equations, Introduction to PDE.
<b>Unit IV</b>	<b>Numerical Techniques in Finance</b>
	Lattice Methods, The Binomial Tree, Review of Continuous-Time Finance, Monte Carlo Methods, Numerical Solutions of Parabolic PDE's
<b>Unit V</b>	<b>The Simplest Model of Financial Markets</b>
	One-Period Finite State Model, Securities and Their Par-Offs, Securities as Vectors, Operations on Securities, The Matrix as a Collection of Securities, Matrix Multiplication and portfolios, Systems of Equations and Hedging, Linear Independent and Redundant Securities, The Structure of the Marketed Subspace. The Identity Matrix and Arrow-Debreu Securities, Matrix Inverse, Inverse Matrix and Replicating Portfolios, Complete Market Hedging Formula.
<b>Reference Books</b>	Suresh Chandra, S. Dharmaraja, Aparna Mehra, Reshma Khemchandani Financial Mathematics: An Introduction Alpha Science International Limited
	Raymond H. Chan, Yves ZY. Guo, Spike T. Lee Financial Mathematics, Derivatives and Structured Products, Springer
	Ali Hirsra Computational Methods in Finance, CRC press

	Sheldon M. Ross An Elementary Introduction to Mathematical Finance, Cambridge University Press
	Giuseppe Campolieti, Roman N. Makarov, Financial Mathematics: A Comprehensive Treatment CRC press
<b>Open Resources</b>	<a href="https://nptel.ac.in">https://nptel.ac.in</a>
<b>Tools and Softwares</b>	

**SCOM16: STOCK AND FOREX TRADING LAB**

**Soft Core**

**3 Credits**

<b>Prerequisites</b>	Basic knowledge of Financial Market Operation
<b>Learning Objectives</b>	To introduce the operations of the security market
	To understand the Trading Process, settlement, and legal frameworks
<b>Learning Outcomes</b>	Students who complete this course can do stock and forex trading.
<b>Methodology</b>	Practical Sessions
	Lab
	Live trading
	<p><b>List of practical:</b></p> <ul style="list-style-type: none"> <li>• Evaluation of New Issue application forms</li> <li>• Identification of Risk Factors and Project viability in New Issues</li> <li>• Exploring the NEAT and BOLT screen based trading</li> <li>• Order types, Order Booking</li> <li>• Opening up of a DP account, PAN, etc</li> <li>• Trading and Settlement activities of on-line trading</li> <li>• Preparation of Technical Charts, exploring trends</li> <li>• Fundamental Analysis of Industry and identification of growth stocks</li> <li>• Company specific events and identification of stock price reaction to Dividend and Bonus announcements</li> <li>• Index Preparation and examining the portfolio performance</li> <li>• Clearing and Settlement activities and MIS Reporting</li> <li>• Marketing of Mutual Funds and Infrastructure Bonds – Critical Factors</li> <li>• F&amp;O Segment – Broader features of the Screen trading</li> <li>• F&amp;O Segment – Calculation of Cost of Carry, impounded costs</li> <li>• F&amp;O Segment – Sport Market linkage</li> <li>• Forex trading – Basics</li> <li>• Determination of Merchant Rates</li> <li>• Forward Trading</li> <li>• Currency Derivatives</li> </ul>
<b>Tools and Software</b>	The trading app provided by respective brokers

**SCOM17: COMMODITY DERIVATIVES: MARKETS & APPLICATIONS**  
**Soft Core** **3 Credits**

<b>Prerequisites</b>	Basic knowledge on derivatives markets and its instruments
<b>Learning Objectives</b>	To give necessary knowledge to students through introduction to commodity derivative markets, regulatory framework, risk management and spot and futures market operations
<b>Learning Outcomes</b>	To enable students to understand the general commodity market scenario in India The student will also acquaint with practical aspects of commodity derivative market application and the regulation governing this sector.
<b>Methodology</b>	Course activities consist of lectures, case study analysis, group discussions, seminar, Presentation, assignment writing and tests. Solving problems and evaluating decisions involving the financial data of selected banks will be integral part of instruction
<b>Unit I</b>	<b>Introduction to Global Commodity Markets</b>
	International Exchanges and History of Commodity Markets: History of Commodities Market * Physical Commodity (Spot) markets * Instruments, Exchanges, and Strategies • Commodity Forward Contracts, Futures, Options and Swaps • Requirement of Commodity Futures • Need for Commodity Derivatives Exchanges in Any Economy • Different Components of the Commodity Ecosystem • Different international Commodity Derivatives Exchanges: An Overview
<b>Unit II</b>	<b>Commodities Regulatory Framework in India</b>
	FCRA * FMC * Kabra Committee Report * Abhijit Sen Committee Report Etc. SEBI Act. Banking Act. Warehousing Development and Regulation Act. APMC Act
<b>Unit III</b>	<b>Arbitrage and Spread Trading Strategies</b>
	Cash and Carry Arbitrage * Reverse Cash and Carry Arbitrage * Spread Trading: Intra-Commodity / Inter-Commodity
<b>Unit IV</b>	<b>Price Risk Management Using Commodity Prices</b>
	Price risk management includes hedge strategies using commodity futures * concept of contango and backwardation * definition of hedging * basis risk * basis in contango and backwardation * Futures prices and relationship with cost of carry and cash prices * Concept of Continuous compounding * Who are the different participants and intermediaries in Commodities market * Basis Risk and scenario analysis* Investment strategies using futures * spread strategy * arbitrage using futures * cash and carry and reverse cash and carry arbitrage
<b>Unit V</b>	<b>Commodity Market Operations</b>
	Exchange Operations, Clearing & Settlement, Trading & Surveillance, Exchange Risk Management, Delivery Mechanism and Warehouse Receipts, Spot Markets: Trading mechanism Process of collection of cash prices * Due date rate * Margins * Risk management & surveillance (exchange perspective) * RMS parameters * Margins * Surveillance * Clearing &



	<p>settlement mechanism * clearing entities * funds movement * mark-to-market process * membership structure in global commodity exchanges * The delivery mechanism in commodity markets, role of quality certification agencies, warehouses, delivery types (seller's option, both option, compulsory delivery), and the exchange delivery process itself * Concept of warehouse receipts * Dematerialisation and Rematerialisation in Commodities market * Dematerialization of warehouse receipts, and spot (physical commodity) market operations * Demonstration of MCX Trader's Workstation—the online trading platform</p>
<b>Reference Books</b>	<p>Commodity Derivatives” by Indian Institute of Banking and Finance, ISBN 9780230634152, Macmillan Publishers India, 2007</p>
	<p>Commodity Derivatives: Markets and Applications”, by Neil C.Schofeild, Published by John Wiley &amp; Sons, ISBN:0470019107</p>
	<p>Commodities &amp; Commodity Derivatives: Modeling and Pricing for Agriculture, Metal &amp; Energy”, by Helyette Geman, Published by John Wiley &amp; Sons, ISBN: 0470012188</p>
	<p>Introduction to Commodity Forwards and Futures”, by Prof.Christopher Culp, Published by JohnWiley &amp; Sons, 2001</p>
	<p>Indian Commodity Market: Derivatives &amp; Risk Management”, by Prof.Palanichamy, Dr.Shunmugam &amp; Dr.Velmurugan.PS</p>
<b>Open Resources</b>	

**SCOM18: INVESTMENT VALUATION**

Soft Core

3 Credits

<b>Prerequisites</b>	Basics of investment
<b>Learning Objectives</b>	Enable students to develop financial models practiced in Industry. To provide students with practical knowledge on Valuing the Firm.
<b>Learning Outcomes</b>	Understanding the various investment valuation techniques
	Measuring the earning
	Valuation implications on market efficiency
<b>Methodology</b>	Teaching with visual aids
	Assignments and Tests
	Quiz sessions and Case Discussion
<b>Unit I</b>	<b>Introduction to Valuation</b>
	Approaches to valuation – Discounted Cash flow Valuation Relative Valuation –Contingent Claim Valuation Understanding financial statement – asset measurement and valuation-Measuring Finance Mix-Measuring earnings and profitability-Measuring risk
<b>Unit II</b>	<b>Basics of Risk</b>
	Equity Risk and expected return-Alternative models for equity Risk-Comparative analysis of equity risk models –Models of default Risk-Option Pricing Theory and Models Basics of Option Pricing-Determining option value-option pricing Models-Extensions of option Pricing Models.
<b>Unit III</b>	<b>Market efficiency and Investment Valuation Implications of Market efficiency</b>
	Testing Market efficiency-Market anomalies-Riskless rate and Risk Premium equity Risk Premium Default spread on Bonds-Cost of equity and Capital-Best Practices at firms.
<b>Unit IV</b>	<b>Measuring earnings</b>
	Adjusted Earnings-From earnings to Cash Flow-re investment Needs-Estimating Growth-Historical growth-Fundamental determinants of Growth-Closure in Valuation-survival Issue-Dividend discount models-Free cash flow to equity discount-firm valuation.
<b>Unit V</b>	<b>Estimating equity value per share</b>
	Fundamental principles of relative valuation-earnings multiples-book value multiples-revenue multiples and sector specific multiples-Valuing financial services firm-Valuing firms with negative of abnormal returns-valuing young or start up firms-Probabilistic approaches to valuation.
<b>Reference Books</b>	Damodaran Aswath Investment valuation “tools and techniques for determining the value of any asset Wiley India (P) Ltd.2012
	Simon Benninga “Financial Modeling” The MIT Press Cambridge Massachusetts 2008
	Krishna Palepu,Paul Healy Business Analysis and Valuation: Using Financial StatementsCengageLearnin, 2007
	Gottlieb Isaac, “Next Generation Excel: Modeling in Excel for Analysis and MBAs John Wiley and sons limited 2009

	Titman, Sheridan, Martin, JohnD, Valuation: The Art and Science of Corporate Investment Decisions, Addition-Wesley Series in Finance.
<b>Open Resources</b>	
<b>Tools and Softwares</b>	

**SCOM19: FINANCIAL RISK MANAGEMENT**

Soft Core

3 Credits

<b>Prerequisites</b>	Basic understanding of financial risk
<b>Learning Objectives</b>	The course aims at familiarizing the students with principle and practices of Financial Risk Management and enables them to develop decision-making skills in management risk.
<b>Learning Outcomes</b>	Measurement of various financial risk viz, equity, forex and commodity
	Application of risk management techniques
	Understanding the hedging techniques
<b>Methodology</b>	Teaching with visual aids
	Assignments and Tests
	Quiz sessions and Case Discussion
<b>Unit I</b>	<b>Financial Risk</b>
	Definition and evolving styles of risk management. Organizing for Financial Risk Management - Role of risk manager- policies-decision making and execution – Exposure to Risk and Diversification - specific and market risk-forecasting market movements. Forwards and Futures: market volatility.
<b>Unit II</b>	<b>Managing Equity Risk</b>
	Specific risks- managing market risk-Markowitz and Sharpe Single Index models. Managing Bond Risk - market conventions and yields-bonds with special features- yield curves- hedging with futures and options. Managing Interest Rate and Currency Risk - one period forwards and futures- interest options- currency options and hedging longer term interest rate and currency exposures
<b>Unit III</b>	<b>Foreign Exchange Risk Management</b>
	Various foreign exchange rate risk management strategies- foreign exchange market in India.
<b>Unit IV</b>	<b>Emergence of Commodity Risk Management</b>
	Basic understanding of commodities-investment opportunities in commodities in India-working of commodity exchanges- importance of risk management in commodity derivatives- future of commodity derivatives. Financial Risk Management: Case Studies
<b>Unit V</b>	<b>Hedging and the “Greeks”</b>
	“Greeks”- delta, gamma, vega, theta & rho, The basic Principle: Delta Hedging, Asset Mismatch, Maturity mismatch, basis risk, and minimum-variance hedging, Delta-Gamma hedging using options, Value at Risk.
<b>Reference Books</b>	Brain A. Eales Financial Risk Management. London:Mc Graw – Hill, 1995
	Steve L. Allen, Financial Risk Management: A Practitioner's Guide to Managing Market and credit risk, Wiley Finance
	Dun & Bradstreet, Financial Risk Management, TATA Mcgraw Hill
	Peter Christoffersen, Elements of Financial Risk Management, Academic Press
	Geoffrey Poitras, Commodity Risk Management: Theory and Application, Routledge

**SCOM20: FORENSIC ACCOUNTING AND FRAUD RISK MANAGEMENT**  
**Soft Core** **3 Credits**

<b>Prerequisites</b>	Knowledge of Accounting and Statistics
<b>Learning Objectives</b>	<b>To impart knowledge of using accounting and other tools to detect fraud and manage the fraud risk in the business organization.</b>
<b>Learning Outcomes</b>	Fraud
	Investigating and Managing the Fraud
	Supporting the criminal Prosecution in case of need
<b>Methodology</b>	Teaching with visual aids
	Assignments and Tests
	Quiz sessions and Case Discussion
<b>Unit I</b>	<b>Introduction</b>
	Essence of Forensic Accounting – Forensic Accounting vs Traditional Accounting Application of Forensic Accounting. Forensic Accounting Skills – Auditing – Investigation – Risk Analysis – Criminology – Digital Forensics. Responsibilities Forensic Accountant – Consulting – Valuation – Non-authoritative Guidance.
<b>Unit II</b>	<b>Fraud theories</b>
	Fraud – Meaning -Types – Theories of Fraud - Fraud Triangle- Fraud Diamond – Fraud Pentagon – Fraud Hexagon - Fraud Tree. Fraud Schemes – Occupational Fra – Money Laundering – Organized Crimes - Victims. Internal Auditor – Roles Responsibilities – Liabilities. Forensic Auditing -Fraud Audit Report - Fraud Cont Theory.
<b>Unit III</b>	<b>Fraud Risk Management</b>
	Risks – Risk classifications. Risk of material misstatements - Type of misstatement Organizational Fraud Risk – Enterprise-wide risk – Business process risk – Fra penetration risk. Fraud Risk Detection and assessment - Risk Assessment Factor Fraud Prevention and Response – Fraud Deterrence- Fraud Deterrence Cycle.
<b>Unit IV</b>	<b>Forensic Investigation</b>
	Investigative Techniques- Analysis tool for investigator- Investigative Process – Gathering and Documenting Evidences - Rules of Evidence - Report of Investigation –Criminal Prosecution support.
<b>Unit V</b>	<b>Forensic Analytics</b>
	Basics of Data Mining – Structured vs unstructured data – Methods of data acquisition – Data visualization – Visual statistics - Time series analysis - Advances in IT systems– Basics of Machine Learning Algorithm – Neural Network Analysis.
<b>Reference Books</b>	Michael A. Crain, William S. Hopwood, Carl Pacini& George R. Young; Essentials Forensic Accounting; John Wiley & Sons, New Jersey, 2016.
	B. Lev. Financial Statement analysis; A New Approach, Prentice Hall
	Thomas W. Golden, Steven L. Skalak, Mona M. Clayton & Jessica S. Pill; A Guide Forensic Accounting Investigation; John Wiley & Sons, New Jersey; Second Editio 2011.

	Leonard W. Vona; Fraud Risk Assessment: Building a Fraud Audit Program; John Wiley & Sons, New Jersey, 2008.
	Howard Silverstone, Michael Sheetz, Stephen Pedneault & Frank Rudewi; Forensic Accounting and Fraud Investigation for Non-Experts; John Wiley & Sons, New Jersey; Third Edition, 2012.
	Felix I. Lessambo; Auditing, Assurance Services, and Forensics: A Comprehensive Approach; Palgrave Macmillan, 2018.
	Mark J. Nigrini; Forensic Analytics: Methods and Techniques for Forensic Accounting Investigations; John Wiley & Sons, New Jersey, 2011.
	Tommie W. Singleton & Aaron J. Singleton; Fraud Auditing and Forensic Accounting; John Wiley & Sons, New Jersey; Fourth Edition, 2010.
<b>Open Resources</b>	
<b>Tools and Softwares</b>	

## SCOM21: PERSONAL FINANCE

Soft Core

3 Credits

<b>Prerequisites</b>	Basic knowledge on Income tax and investments
<b>Learning Objectives</b>	To find direction and guidance in one's financial decisions
	To understand how each financial decision affects other areas of finance
	To ensure the financial stability for adapting to life changes
<b>Learning Outcomes</b>	Knowledge on investment selections
	Investment evaluations
	Portfolio constructions
<b>Methodology</b>	Teaching with visual aids
	Assignments and Tests
	Quiz sessions and Case Discussion
<b>Unit I</b>	<b>Introduction</b>
	Savings-Investment-Advances for Investment-Selection of Advances-Mix for Portfolio of Such selected Advances- Criterion to be considered for investment-type of Securities- Income tax and personal finance of an individual.
<b>Unit II</b>	<b>Investment in Government Securities</b>
	PPF-NSC-NSS-Infra Structural-Bonds- Regulations-Governance.
<b>Unit III</b>	<b>Investment in Post office and Bank Deposits</b>
	All Types of post office related Deposits and all types of Bank Deposits including Deposits in corporate sector-Regulation –Governance.
<b>Unit IV</b>	<b>Investment in Traditional Products</b>
	Gold-Real estate-Mutual fund-return-Risk associated regulation –Criteria to be considered
<b>Unit V</b>	<b>Investment in Equity shares</b>
	Meaning Criteria-Risk & Return Associated- How to Select Share-Formation Portfolio.
<b>Reference Books</b>	Personal finance-Kapoor Jack.R, Diabay Les.R & Hughes Robert J, Tata Mc Graw-Hill Publishing Co Pvt Ltd- New Delhi
	Personal finance: Users Perspective-Joehnk Michael D & Gitman Lawrence J-Cengage learning India Pvt. Ltd, New Delhi
	Contemporary personal finance- Boone Louis & Kurtz David.L, Ra New Delhiomhouse business division, New Delhi
	Guide to personal finance-Stillman Richard J, Tata Mc Graw- Hill Publishing Co.Pvt.Ltd- New Delhi
	Theory and problem of personal finance & consumer economic , Rosenberg Robert R & Naples, Ralph.V, Tata Mc Graw- Hill Publishing Co.Pvt. Ltd- New Delhi.
	Personal finance Planning- Gitman Lawrence J, Dryden Press
<b>Open Resources</b>	
<b>Tools and Softwares</b>	

## SCOM22: EQUITY DERIVATIVES

Soft Core

3 Credits

<b>Prerequisites</b>	Basic Knowledge of finance and Mathematics
<b>Learning Objectives</b>	To help students understand the concepts and equip them to take investment and trading positions in the options and futures market.
<b>Learning Outcomes</b>	Explain the need to hedge
	Calculate the payoffs one can receive through options
	Make option strategies
<b>Methodology</b>	Lecture
	Case Study
	Spreadsheet Modelling
<b>Unit I</b>	<b>Introduction to derivatives:</b> meaning and purpose of derivatives; forward contracts Future contracts options, swaps and other derivatives; Type of trader; Trading future contracts; Specification of the future contracts; Operation of margins, Settlement, and regulations. - Derivatives Market in India: –regulation, working, and trading activity.
<b>Unit II</b>	<b>Futures:</b> Hedgers and speculators; Future contracts; Future market –clearing house margins, trading future positions and taxation; Future prices and spot prices; Forward prices; vs. future prices; Futures vs. options
<b>Unit III</b>	<b>Options</b> Types of options; Options trading; Margins; Valuation of options; Binomial Option; Pricing Modal; Black -Scholes model, for Call Option; Valuation of put Options; Index options; options market exchange-traded options, over-the-counter options, quotes trading, margins, clearing, regulation, and taxations; Warrants and convertibles
<b>Unit IV</b>	<b>SWAPS</b> Mechanics of interest rate swaps, valuation of interest rate, swaps currency swaps, and valuation credit risk and swaps.
<b>Unit V</b>	<b>Derivatives Accounting &amp; Taxation:</b> scope and importance - Accounting & Taxation practices of Derivatives – Accounting Standard - reporting practices
<b>Reference Books</b>	Dhanesh Khatri, derivatives and Risk management, macmillan Publishers India Ltd, 2012.
	John C. Hull, SankarshanBasu, Options, Futures and other Derivatives, Pearson Education, Noida 2010
	Stafford Johnson, Introduction to Derivatives, Oxford University Press, 2009



	David A & Thomas W. Miller, Derivatives valuation and Risk Management, Oxford University Press 2003.
	Rene M. Stuly, Risk Management & Derivatives, Thomson south Western, 2007.
<b>Open Resources</b>	<a href="https://nptel.ac.in/courses/110/107/110107128/">https://nptel.ac.in/courses/110/107/110107128/</a>
<b>Tools and Software</b>	Spreadsheet Modelling

**SCOM23: MERCHANT BANKING AND FINANCIAL SERVICES**  
**Soft Core** **3 Credits**

<b>Prerequisites</b>	Basic Understanding about the financial intermediaries
<b>Learning Objectives</b>	Aimed to equip students to with various financial services to provide advice or to get jobs into the companies, which are specializing in it
<b>Learning Outcomes</b>	Role and responsibilities of Merchant Banker, Rules and Regulations relating to Merchant banking in India
<b>Methodology</b>	Chalk and talk, Presentation, Assignment
<b>Unit I</b>	<b>Merchant Banking</b> Meaning; Origin; Merchant Banks and Commercial Banks; Services of Merchant Banks; Regulations - SEBI, Companies Act 2013, Stock and commodity Exchanges; Merchant Banking in India – Registration, Licensing procedure and Challenges
<b>Unit II</b>	<b>Financial Services</b> Fee based Services – Merchant Banking Services – Issue of Securities – IPO – FPO – (Application Supported by Blocked Amount) ASBA – Book Building – Buyback of Shares – Depositories – Debenture Trusteeship – Stock Broking Services - Portfolio Management – Fund Based Services – Lease Financing – Hire Purchase – Bill Discounting – Factoring – Forfeiting – Wealth Management
<b>Unit III</b>	<b>Underwriting</b> Meaning and Nature of Underwriting; Forms of Underwriting; Need and Significance of Underwriting; Underwriting of Capital Issues in India; SEBI’s Guidelines on Underwriting
<b>Unit IV</b>	<b>Credit Rating</b> Meaning and Functions of Credit Rating; Significance of Credit Rating; Credit Rating in India; Rating Process and Methodology; Credit Rating Agencies in India; Limitations of Rating; Future of Credit Rating in India
<b>Unit V</b>	<b>Stock Broking &amp; Depository services</b> Introduction; Stock Brokers; Sub-Brokers; Foreign Brokers; Stock Market Trading. Depository services: Meaning and Objectives of Depository Services; Depository Process; Trading in a Depository System; Depository System in India; Depository Institution in India; SEBI Regulations
<b>Reference Books</b>	L M Bhole& Jitendra Mahakud, Financial Institutions and Markets: Structure, Growth & Innovations, Mcgraw Hill Education (India) Private Limited Clifford Gomez, Financial Markets, Institutions, and Financial Services, PHI Learning Private Limited Bharati V. Pathak, The Indian Financial System: Markets, Institutions and Services Pearson Publication Das, Subhash Chandra, The Financial System In India: Markets, Instruments, Institutions, Services and Regulations, PHI Learning Private Limited

	Sunil Parameswaran, Fundamentals of Financial Instruments: An Introduction to Stocks, Bonds, Foreign Exchange and Derivatives, Wiley Finance
<b>Open Resources</b>	
<b>Tools and Softwares</b>	

## SCOM24: CORPORATE GOVERNANCE

Soft Core

3 Credits

<b>Prerequisites</b>	Basic knowledge on Corporate Finance & Companies Act 2013
<b>Learning Objectives</b>	To provide an in-depth study of the evolution and development of corporate Governance along with the issues and practices that governs corporate sectors.
<b>Learning Outcomes</b>	<ol style="list-style-type: none"> <li>1. Understand the concepts of corporate governance</li> <li>2. Value the shareholder and stakeholder rights and responsibilities</li> <li>3. Relationship between Corporate Governance, Corporate Finance, Investments and Shareholders wealth maximising</li> <li>4. Solve case studies in the field of corporate governance and apply knowledge to different cases</li> </ol>
<b>Methodology</b>	Lectures, Assignments, Case discussion
<b>Unit I</b>	<b>Conceptual framework of corporate governance</b>
	Theories – Evolution – Principles of corporate Governance - Economic of organization and information – understanding of the shareholder VS stakeholder concept of governance.
<b>Unit II</b>	<b>Corporate and Board Management</b>
	Corporate Ownership structure- Board of directors: types of directors - role, composition, systems and procedures – Functional committees – executive remunerations
<b>Unit III</b>	<b>Legal and regulatory framework of corporate Governance</b>
	Legislative provisions of corporate governance in India: Companies Act 2013, LODR – legislative framework in US, UK and other developed nations
<b>Unit IV</b>	<b>Board Committees and role of professionals</b>
	Need – Functions – Advantages – scopes and constitution of Board Committees, Board Charter – terms of reference and accountability and performance appraisals – independence - role of professionals in board committees.
<b>Unit V</b>	<b>Corporate Governance Codes and Practices</b>
	Major expert Committees reports – case studies on corporate governance – Indian and overseas perspective – value creation through corporate Governance - corporate governance rating
<b>Reference Books</b>	1. A.C. Fernando, Corporate Governance, Principles, policies and Practices –, Pearson Education
	2. Neeti Shikha, Geetanjali Sharma, Corporate Governance in India: Principles and Policies, CENGAGE Publication.
	3. Indian Institute of Corporate Affairs, Corporate Governance, Taxmann
	4. Neil Minow Robert A. G. Monks, Corporate Governance, 4 <sup>th</sup> Edition, Wiley India Private Limited.
	5. Companies Act 2013 and Rules; SEBI (Listing Obligations and Disclosure Requirements) Regulations, 2015; Journal and E-Bulletin “Chartered Secretary” and “Student Company Secretary” published by

	ICSI
<b>Open Resources</b>	Newspapers and magazines, Corporate Governance –National Portal of India

**SCOM25: STRATEGIC FINANCIAL MANAGEMENT**

Soft Core

3 Credits

<b>Prerequisites</b>	Basic knowledge about strategic management
<b>Learning Objectives</b>	It is to familiarize the students with the concepts and approaches of managing corporate finance from a Strategic perspective.
<b>Learning Outcomes</b>	Effective application of strategies
	Making strategic decisions
<b>Methodology</b>	Lecture
	Case study and discussions
<b>Unit I</b>	<b>Title: Financial Policy and Corporate Strategy</b>
	Contents: strategic decision-making framework, the interface of financial policy and strategic management, balancing financial goal and sustainable goals.
<b>Unit II</b>	<b>Title: Risk Analysis in Capital Budgeting</b>
	Cash flow projection - Impact of taxation, depreciation, inflation and working capital, capital budgeting decision: certainty equivalent approach, evaluation of risky investment proposal, simulation and decision tree analysis, sensitivity analysis, capital rationing, adjusted net present value, replacement decision and application of real options in capital budgeting. Preparation of project report.
<b>Unit III</b>	<b>Title: Leasing decision including cross-border leasing:</b>
	Contents: Leasing: concepts, types, importance, benefits and limitation, lease evaluation. Cross border leasing
<b>Unit IV</b>	<b>Title: Mergers and acquisition:</b>
	Contents: Meaning, process and types, legal and regulatory requirements. Merger acquisition agreement. Adverse competitive effects of a merger. Corporate takeovers: coinsurance effects cross border takeover, forms of takeover and takeover defenses, control transaction: leveraged buyout, management buyout, spin-off, and asset divestiture.
<b>Unit V</b>	<b>Capital Restructuring</b>
	Contents: concepts, types and importance, legal aspects. Refinancing and rescue financing, reorganization of debtors and creditors, sale of assets and targeted stock offerings, downsizing and layoff programs, negotiated wage give-back, employee buyouts.
<b>Reference Books</b>	Prasanna Chandra Financial Management: Theory and Practice. New Delhi: Tata Mc Graw Hill
	Tony Grundy, Gerry Johnson & Kevan Scholes Exploring Strategic Financial Management Europe: Prentice-Hall.
	SOFAT, RAJNI, HIRO, PREETI Strategic Financial Management PHI Learning Private Limited

	CMA KALYANI KARNAStrategic Financial ManagementCorporate Plus Publications Private Limited
	CA Dr. K.M. Bansal, CA Anjali Agarwal Strategic Financial Management Taxmann
<b>Open Resources</b>	<a href="https://nptel.ac.in/courses/110/108/110108047/">https://nptel.ac.in/courses/110/108/110108047/</a>
<b>Tools and Software</b>	Spider impact KPI fire

**SCOM26: MULTINATIONAL FINANCIAL MANAGEMENT**  
**Soft Core** **3 Credits**

<b>Prerequisites</b>	Understanding of Financial Management and International Finance
<b>Learning Objectives</b>	To develop basic understanding on financial management of MNC's with special emphasis on cost of capital, Portfolio investment, International taxation and managing political risk
<b>Learning Outcomes</b>	To enable students to understand the basics of Multinational Financial Management To enable students to demonstrate an understanding of the international portfolio, capital structure and working capital management.
<b>Methodology</b>	Course activities consist of lectures, case study analysis, group discussions, seminar, Presentation, assignment writing and tests. Solving problems and evaluating decisions involving the financial data will be integral part of instruction
<b>Unit I</b>	<b>Organisational Set up of Banks</b> Growth and Importance of Multinational finance – Theory of Comparative Advantage – Goals of International Finance Management, Globalization of the world economy and major trends – Significance of Multinational corporations – FDI Global trends in FDI, Reasons for investing overseas – Cross – border mergers and acquisitions; Political risk and FDI - : measurement and management of political risk
<b>Unit II</b>	<b>International Portfolio Investment and its benefits</b> International diversification through country funds, ADRs and ETFs
<b>Unit III</b>	<b>International Capital Structure and Cost of Capital</b> International capital budgeting – Discounting and non-discounting methods – Capital budgeting from the parent firms perspective
<b>Unit IV</b>	<b>Multinational Working Capital Management</b> Short term overseas financing sources, Management of international cash balances, inventory & account receivables.
<b>Unit V</b>	<b>International trade finance</b> Letter of credit, Forfeiting, Countertrade, Government assistance for exporting; <b>International tax environment</b> – objectives on international taxation – types of taxation – national tax environment – tax heavens – controlled foreign corporation; <b>Transfer pricing</b> and related issues.
<b>Reference Books</b>	Apte P.G. International Financial Management, Tata McGraw hill New Delhi. 2009 5 <sup>th</sup> edition Shaprio, Alan C: Multinational Financial Management Prentice Hall, New Delhi, 2009 9 <sup>th</sup> edition Cheol S. Eurn, Bruce G. Resnick, International Financial Management, Mc Graw – Hill- Irwin, 5 <sup>th</sup> edition - 2009 Buckley, Adrian multinational finance, Prentice Hall New Delhi. 5 <sup>th</sup> edition



	Maurice. D. levi, International finance – the markets and financial management and multinationalbusiness, Mc Graw Hill, Inc, 3 <sup>rd</sup> edition, ISBN -0-07-037687-5
<b>Open Resources</b>	

**SCOM27: FUND MANAGEMENT IN COMMERCIAL BANKS**

**Soft Core**

**3 Credits**

<b>Prerequisites</b>	Understanding of Financial Management, Financial Accounting and Financial Market
<b>Learning Objectives</b>	The course is designed to provide conceptual and practical understanding of the principles and technique involved in the management of banking institutions
<b>Learning Outcomes</b>	To enable students to understand the general banking scenario in India To enable students to demonstrate an understanding of the financials of the bank. The student will also acquaint himself with practical banking application and the regulation governing this sector.
<b>Methodology</b>	Course activities consist of lectures, case study analysis, group discussions, seminar, Presentation, assignment writing and tests. Solving problems and evaluating decisions involving the financial data of selected banks will be integral part of instruction
<b>Unit I</b>	<b>Organisational Set up of Banks</b>
	Board of Directors; Functions; Duties and Responsibilities; Statutory Provisions Regarding Board of Directors in State Bank of India and other Commercial Banks and Development Banks.
<b>Unit II</b>	<b>Liquidity Management</b>
	General Principles; Territories of Bank Liquidity; Properties in the use of Funds; Resource Allocations in Commercial banks and Development Banks; Management of Cash.
<b>Unit III</b>	<b>Management of Capital Funds</b>
	Functions; Necessity; Adequacy; Present Positions of Capital Funds in Indians Banks; Problems and Prospects of Capital Management in Commercial and Development Banks.
<b>Unit IV</b>	<b>Management of Deposits and Primary Reserves</b>
	Factors Influencing the Level of Individual Bank's Deposits; Legal Reserves; Forces Influencing Level of Working Reserve; Nature of Secondary Reserves; Functions and Management of Secondary Reserves.
<b>Unit V</b>	<b>Management of Loans</b>
	Characteristics of Commercial Bank Loans in India; Cardinal Principles of Sound Bank Lending; Loan Policy; Evaluating Credit Worthiness of Applicants; Supervision and Organisation of Bank Lending.
<b>Reference Books</b>	Kanhaiya Singh, Commercial Bank Management Mcgraw Hill Education
	Johannes Wernz, Bank Management and Control: Strategy, Capital and Risk Management Springer
	Bharati V. Pathak, The Indian Financial System: Markets, Institutions and Services Pearson
	IIBF, Bank Financial Management, Macmillan Education India
	Sujatra Bhattacharyya, Indian Financial System, Oxford University Press
<b>Open Resources</b>	<a href="http://www.imf.org">www.imf.org</a> , <a href="http://www.bis.org">www.bis.org</a>

**SCOM28: ENTREPRENEURSHIP**

Soft Core

3 Credits

<b>Prerequisites</b>	Basic knowledge about project finance
<b>Learning Objectives</b>	To enrich the students on various aspects of establishing and managing SME's and managing finances.
<b>Learning Outcomes</b>	Apply principles in the entrepreneurial and family business
	Preparing a startup business plan
	Defending the business plans
<b>Methodology</b>	Lecture
	Case studies
	Making sample projects for funding
<b>Unit I</b>	<b>Introduction</b>
	Meaning and Importance, Evolution of term 'Entrepreneurship', Factors influencing entrepreneurship': Psychological factors, Social factors, Economic factor, Environmental factors; Characteristics of an entrepreneur, Entrepreneur and Entrepreneur, Types of entrepreneur: According to Type of Business, According to Use of Technology, According to Motivation, According to Growth, According to Stages; .New generations of entrepreneurship viz. social entrepreneurship, Edupreneurship, Health entrepreneurship, Tourism entrepreneurship, Women entrepreneurship etc; Barriers to entrepreneurship.
<b>Unit II</b>	<b>Entrepreneurial Motivation and Creativity</b>
	Motivation, Maslow's theory, Herjburg's theory, McGragor's Theory, McClelland's Need – Achievement Theory; Culture & Society; Values / Ethics; Risk taking behavior; Creativity: Creativity and entrepreneurship, Steps in Creativity, Innovation and inventions: Using left brain skills to harvest right brain ideas, Legal Protection of innovation, Skills of an entrepreneur, Decision making and Problem Solving (steps indecision making)
<b>Unit III</b>	<b>Support and Assistance</b>
	Assistance to an entrepreneur; New Ventures, Industrial Park (Meaning, features, & examples), Special Economic Zone (Meaning, features & examples), Financial assistance by different agencies, MSME Act Small Scale Industries, Carry on Business (COB) licence, Environmental Clearance, National Small Industries Corporation (NSIC), Government Stores Purchase scheme (e-tender process), Excise exemptions and concession, Exemption from income tax, Quality Standards with special reference to ISO, Financial assistance to MSME, Modernisation assistance to small scale unit,
<b>Unit IV</b>	<b>Supporting Organisations</b>

	The Small Industries Development Bank of India(SIDBI), The State Small Industries Development Corporation(SSIDC), Export oriented units: Incentives and facilities to exports entrepreneurs, Export oriented zone, Export-Import Bank of India; Shilpabandhu-M Incentives for entrepreneurs State Industrial Development Corporation (SIDC), State Financial Corporation (SFCs); Directorate General of Supplies and Disposals(DGS & D) : Registration with DGS & D, Registration Categories, Registration Procedure 4.21.4 Benefits of DGS & D, Information facilities centre in DGS & D: Khadi and Village Industries Commission (KVIC): Industrial Estate: Financing of Industrial Estates
<b>Unit V</b>	<b>Project Report</b> Introduction, Idea Selection, Selection of the Product / Service, Aspects of a Project, Phases of a Project, Project Report,Contents of a Project Report, Proforma of a Suggested Project Report for a manufacturing Organization, Small Businesses.
<b>Reference Books</b>	Chaudhary, S: Project Management, Tata McGraw Hill, New Delhi.
	Vasant Desai, <i>The Dynamics of Entrepreneurial Development and Management</i> , Himalaya Publishing House, 2009.
	Timothy, D.R., and W.R. Sewell: Project Appraisal and Review, Macmillan, India.
	David I Cleloyd, " Project Management" McGraw Hill, New Delhi 1999
	Poornima M. Charantimath, 'Entrepreneurial Development And Small Business Enterprises", Pearson Education Licensee, New Delhi 2006.
<b>Open Resources</b>	<a href="https://onlinecourses.nptel.ac.in/noc20_ge08/preview">https://onlinecourses.nptel.ac.in/noc20_ge08/preview</a>
<b>Tools and Software</b>	Wave accounting Wix (website building software)

## SCOM29: INTERNATIONAL ACCOUNTING

Soft Core

3 Credits

<b>Prerequisites</b>	Basic knowledge on accounting standard including IFRS
<b>Learning Objectives</b>	To expose students to the prevailing International Accounting Systems
	To increase the employability of students in MNCs
<b>Learning Outcomes</b>	Understand the concepts of International accounting system
	Identifying the country differences in accounting practices
	Comparative analysis of major accounting issues
<b>Methodology</b>	Teaching with visual aids
	Assignments and Tests
	Quiz sessions and Case Discussion
<b>Unit I</b>	<b>International Dimensions of Accounting</b>
	Introduction-Definition-Importance-Scope of international Accounting-Status of International Accounting Education: World Scenario in India-Internationalization of the Accounting Profession: Introduction-The Accounting Profession in Selected Countries-Internationalization of the Profession- International Dimensions of Financial Reporting: Introduction Variables that influence Transnational reporting-Reporting practices-International Financing Reporting System(IFRS)-Salient Features –Need-Provisions-Applications in India-USA-UK and other Countries
<b>Unit II</b>	<b>Country Differences and Harmonization of Accounting Practices</b>
	Accounting differences-Why National Practices differ-How Practices differ-How differences are addressed(Harmonization)Concept of Harmonization-Need for Standardization-Impediments to Standardization- Endeavors towards Harmonization-Institution-IASC-The European Union-UN
<b>Unit III</b>	<b>International Accounting Standards Committee</b>
	Origins & Operations-Achievements- Current Issues – The Standards - Components and Structure of Financial Statements-Balance sheet items – Income Statement Items-Consolidated Financial Statements-Cash flow Statement-Requirements relating to particular Enterprises
<b>Unit IV</b>	<b>Comparative Analysis of Major Accounting Issues</b>
	Legal basis of Accounting regulation-Existence of a Conceptual Frame work-Additional components of Financial Statements- General Approaches Asset Valuation-Internally Generates intangibles & Research & Development-Goodwill-Tangible Fixed Assets-Investments-Current assets-leases-Provisions-Deferred taxes
<b>Unit V</b>	<b>Accounting Differences and Financial Statement Analysis</b>
	Different approaches to Analysis-The place of Financial ratios-Factors that Generate Differences: Presentation of Financial Statements-Methods of Financing –[Main problems in Financial Statement Analysis-Scope of Consolidation –Revaluation of Assets-Depreciation and Provisions-Leasing – Accounting for goodwill-Deferred Taxation –Capitalized Expenses-Transactions in Foreign Currencies-Extraordinary and Exceptional items-Changes in Accounting Principles OR Generally Accepted Accounting Practices(GAAP) India-USA-UK-Germany-France-Japan

<b>Reference Books</b>	International Accounting, Mohapatra Das.A.K., Prentice Hall of India, New Delhi
	International accounting, Rathore, Shirin, PHI learning, New Delhi.
	International Accounting-Peter Walton, International Thomson Business press
	International accounting a user perspective-Saudagaran, Shahorkh.M, Cengage Learning India Pvt. Ltd, New Delhi
	Comparative international accounting -Nobes Christopher & Parker Robert, Research Education Asia, New Delhi
<b>Open Resources</b>	
<b>Tools and Softwares</b>	

**SCOM32: VALUE ADDED COURSE****Soft Core****3 Credits**

For acquiring 3 credits, courses should be selected which has minimum 12 hour per week from any one the following institutes. Prior registration and approval with the Department is a must for getting credit.

<b>Prerequisites</b>	As per the Requirements of the course floated on the online platforms
<b>Learning Objectives</b>	The student has to register and complete a certification course offered by any one of the online platform (certification from any one module)
<b>Learning Outcomes</b>	Student can opt their subject based on their interest & Requirements
<b>Methodology</b>	As adopted by the respective courses
<b>Option I</b>	NISM
<b>Option II</b>	NSE – NCFM
<b>Option III</b>	Indian Institute of Banking and Finance
<b>Option IV</b>	MCX – Commodity Professionals
<b>Option V</b>	BSE Institute Limited (bsebti.com)
<b>Open Resources</b>	Respective websites of the Institute
<b>Tools and Softwares</b>	

**SCOM33: SUMMER PROJECT AND VIVA – VOCE****Soft Core****3 Credits**

<b>Prerequisites</b>	Knowledge on Accounting, Finance, Stock Market, Banking and Insurance.
<b>Learning Objectives</b>	This paper aimed to equip student with the advances and industry specific activities of the business through research or internship and apply the theoretical knowledge learned.
<b>Learning Outcomes</b>	Students will be equipped with practical skills and knowledge.
<b>Methodology</b>	The students are expected to undertake either internship or research project (may be primary or secondary source based) in any one of the areas of Finance, Accounting, and Taxation at the end of II semester during summer vacation for 45 days.
	Report is to be submitted in the third semester, which will be evaluated along with the III Semester examination.
	Project report evaluation consists of both internal and external marks of 40 and 60 respectively.
	Internal marks of 40 would be awarded based on two presentations (mid term and final) to be made by students in the presence of all the faculty members of the department. Each presentation would carry 20 marks.
	Final report can be submitted only when student has made two presentations; if any student fails to make two presentations then he/she will have to repeat in the next year when this paper is offered.
	Final report would be evaluated for 60 marks, based on the quality of report and performance in viva.
	All faculty of the department with external examiners will hold viva voce examination.
	Any student who fails in “project report” is expected to redo the entire process in the next year when paper is offered.



**SCOM34: CONTEMPORARY LEGAL FRAME WORK**

Soft Core

3 Credits

<b>Prerequisites</b>	Basics of Corporate Laws
<b>Learning Objectives</b>	To give an overview about contemporary legislation very well applicable to Modern Business units
<b>Learning Outcomes</b>	Understanding the various Laws that are applicable to business entity
	Basics provisions of the enactment and its scope
<b>Methodology</b>	Teaching with visual aids
	Assignments and Tests
	Quiz sessions and Case Discussion
<b>Unit I</b>	<b>Competition Law</b>
	Anti Competitive agreements – prohibitions of abuse of dominant position – combinations – competition Commission of India – Inquiry into certain agreements and dominant position – inquiry on complaints u/s 19 – power to grant interim relief power to forward compensation – Execution of orders of commission – appeal duties of Director – general penalties – Competition advocacy
<b>Unit II</b>	<b>Foreign Exchange Management Act</b>
	Objective and definitions under FEMA – Dealings in foreign exchange – holding of foreign exchange etc. current account transactions, capital account transactions – export of goods and service realization and repatriation of foreign exchange – Exemptions authorized person – penalties and enforcement – Compounding of offences - Directorate of enforcement – Appellate Tribunal etc.
<b>Unit III</b>	<b>Environmental Legislation</b>
	Legal and regulatory frame work – procedures for obtaining various environment clearances – role and function of Environment of Environment Tribunal / Authority – Appearance before Environment Tribunal / Authority – Environment Audit. Enforcement of International Environmental law: Kyoto protocol norms. Water: water and environment (Protection) law – various Boards and their functions and powers; duties of occupier of specified industries to ensure adherence to standards; offence by companies. Air pollution: Concept of sustainable development, Government policy regarding environment – salient features of the Air (Prevention and control of pollution) law
<b>Unit IV</b>	<b>Consumer Protection Act</b>
	Genesis of the law – objects and definitions – Rights of consumers under the Consumer Protection Act – Nature and scope of remedies – Consumer protection – appearance before consumer dispute Redressal Forums.
<b>Unit V</b>	<b>Insurance Law Current Legal Environment</b>
	Insurance Act 1938 (as amended) & Insurance Regulatory & Development Act – An overview - Insurance Sector Reforms – The Insurance Regulatory Development Authority (IRDA) Act, 1999– ARDA (Investment) Regulations

	2000 – IRDA Guidelines for insurance Brokers Securities and Exchange Board of India (SEBI) Act, 1992 – SEBI Guidelines.
<b>Reference Books</b>	Kapoor, N.D. “Elements of mercantile laws”, Sultan Chand & Sons New Delhi
	Maheshwari, S.N & Maheshwari, S.K “ A Manual of Business laws”, Himalaya Publishing House, Bombay
	K.C Mishra and M. Bakshi, legal and Regulatory Aspects of Insurance, CENGAGE learning, Delhi
	Kenneth A. Abraham, Kenneth S. Abraham Insurance laws and Regulation: Cases and Material, Foundation Press
	Lew, Julton D.M and Clive Stand Brook (eds), International Trade Law & Practice, Euromoney Publications, London
<b>Open Resources</b>	
<b>Tools and Softwares</b>	