



# B.Com. (Investment Management) Programme

## Under Choice Based Credit, Grading and Semester System

### Course Structure

#### S.Y.B.Com. (Investment Management)

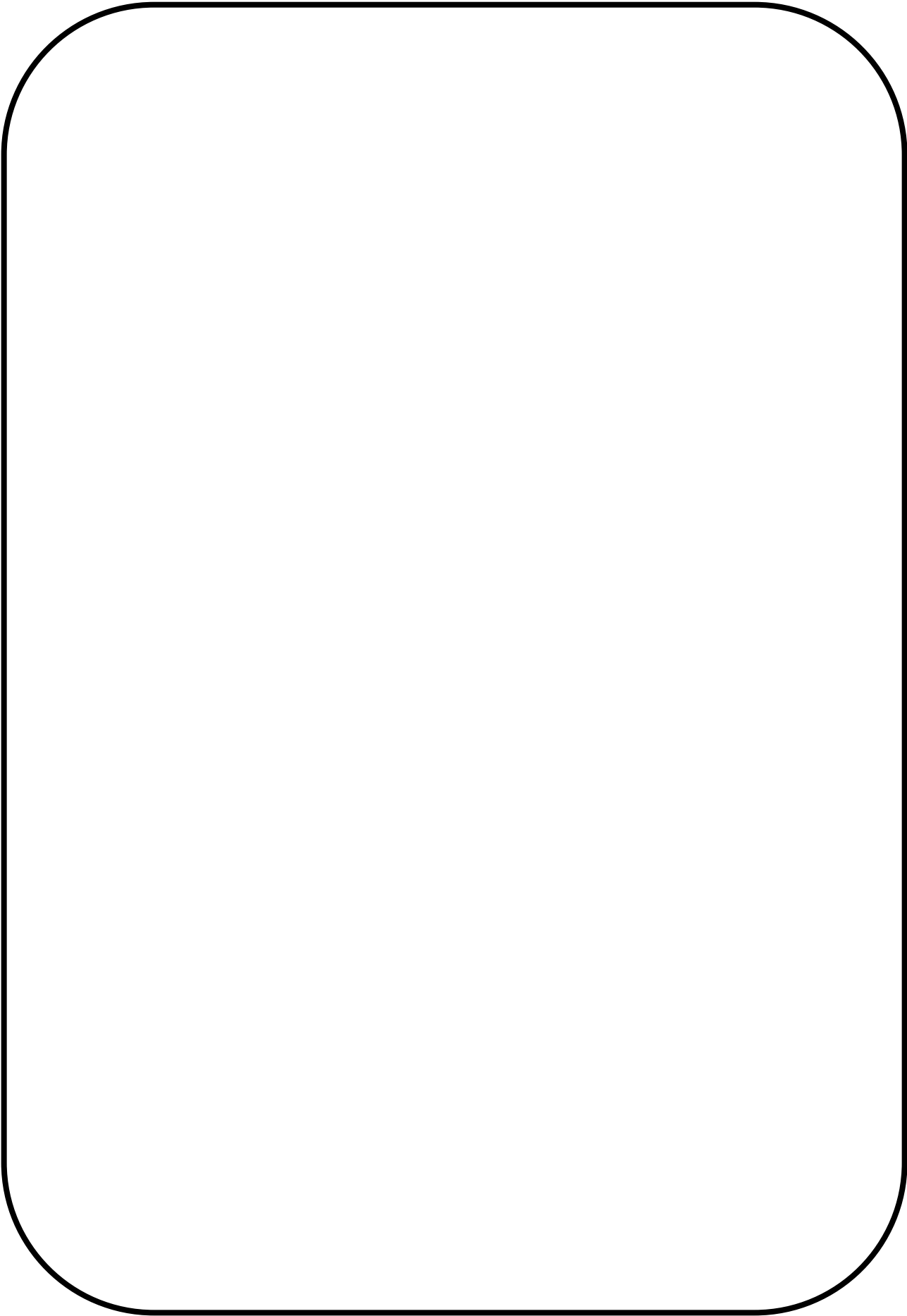
(To be implemented from Academic Year- 2017-2018)

No. of Courses	Semester III	Credits	No. of Courses	Semester IV	Credits
<b>1</b>	<b>Elective Courses (EC)</b>		<b>1</b>	<b>Elective Courses (EC)</b>	
1,2 & 3	*Any three courses from the following list of the courses	<b>09</b>	1,2 & 3	**Any three courses from the following list of the courses	<b>09</b>
<b>2</b>	<b>Ability Enhancement Courses (AEC)</b>		<b>2</b>	<b>Ability Enhancement Courses (AEC)</b>	
<b>2A</b>	<b>Ability Enhancement Compulsory Course (AECC)</b>		<b>2A</b>	<b>Ability Enhancement Compulsory Course (AECC)</b>	
4	Information Technology in Investment Management - I	<b>03</b>	4	Information Technology in Investment Management - II	<b>03</b>
<b>2B</b>	<b>*Skill Enhancement Courses (SEC)</b>		<b>2B</b>	<b>**Skill Enhancement Courses (SEC)</b>	
5	Any one course from the following list of the courses	<b>02</b>	5	Any one course from the following list of the courses	<b>02</b>
<b>3</b>	<b>Core Courses (CC)</b>		<b>3</b>	<b>Core Courses (CC)</b>	
6	Security Analysis and Portfolio Management – I	<b>03</b>	6	Security Analysis and Portfolio Management – II	<b>03</b>
7	Mutual Fund Management	<b>03</b>	7	Business Economics-II	<b>03</b>
<b>Total Credits</b>		<b>20</b>	<b>Total Credits</b>		<b>20</b>

<b>*List of Skill Enhancement Courses (SEC) for Semester III (Any One)</b>			<b>**List of Skill Enhancement Courses (SEC) for Semester IV (Any One)</b>		
1	Foundation Course – III (An Overview of Investment Management)		1	Foundation Course – IV (An Overview of Banking & Insurance)	
2	Foundation Course-Contemporary Issues- III		2	Foundation Course-Contemporary Issues-IV	
3	Foundation Course in NSS - III		3	Foundation Course in NSS – IV	
4	Foundation Course in NCC - III		4	Foundation Course in NCC – IV	
5	Foundation Course in Physical Education - III		5	Foundation Course in Physical Education -IV	

<b>*List of Elective Courses (EC) for Semester III (Any Three)</b>			<b>**List of Elective Courses (EC) for Semester IV (Any Three)</b>		
1	Financial Management - I		1	Financial Management –II	
2	Cost and Management Accounting		2	Direct Taxation	
3	Fundamentals of Capital Market		3	Fundamentals of Equity Market	
4	Financial Services		4	Financial Derivatives	
5	Marketing of Investment Products		5	Introduction to Equity Research	

**Note: Course selected in Semester III will continue in Semester IV**



***Revised Syllabus of Courses of B.Com. (Investment Management)  
Programme at Semester III  
with Effect from the Academic Year 2017-2018***

***1. Elective Courses (EC)***

***Financial Management - I  
Modules at a Glance***

<b>Sr. No.</b>	<b>Modules</b>	<b>No. of Lectures</b>
1	Introduction to Finance and Financial Management	15
2	Financial Goal Setting & Time value of Money	10
3	Investment Decisions: Capital Budgeting	15
4	Financial Decisions	20
Total		60

Sr. No.	Modules / Units
1	<b>Introduction of Finance and Financial Management</b> <b>A) Introduction to Finance</b> <ul style="list-style-type: none"> <li>Meaning and definition of finance</li> <li>Importance of finance</li> <li>Types of Finance: Public and Private</li> <li>Sources of finance <ul style="list-style-type: none"> <li>Long term Sources : Term Loans, Debentures, Bonds, Zero Coupon bonds, Convertible Bonds, Equity shares, Preference shares, CD, CP, Public Deposits</li> <li>Short Term sources: Bank Finance, Trade Credit ,Other Short Term Sources</li> <li>Venture Capital and Hybrid Financing</li> </ul> </li> </ul> <b>B) Financial Management</b> <ul style="list-style-type: none"> <li>Meaning and Importance of Financial Management</li> <li>Scope of Financial Management</li> <li>Functions and Objectives of Financial Management</li> <li>Primary Objective of Corporate Management</li> <li>Agency Problem</li> <li>Organization of Finance Function</li> </ul> Emerging role of Finance Managers in India <b>C) Objectives of the Firm</b> <ul style="list-style-type: none"> <li>Profit Maximization and Shareholders Wealth Maximization</li> <li>Profit V/s Value Maximization</li> </ul>
2	<b>Financial Goal Setting &amp; Time value of Money</b> <b>A) Financial Goal Setting</b> <ul style="list-style-type: none"> <li>Introduction</li> <li>Financial Forecasting – Meaning, Techniques, Benefits</li> <li>Approaches to Financial Planning</li> <li>Economic Value Added (EVA)– Measurement &amp; Components</li> <li>Free Cash Flow (FCF)</li> </ul> <b>B) Time Value of Money</b> <ul style="list-style-type: none"> <li>Concept</li> <li>Present Value</li> <li>Annuity</li> <li>Techniques of Discounting</li> <li>Techniques of Compounding.</li> </ul>
3	<b>Investment Decisions: Capital Budgeting</b> <b>A) Capital Budgeting</b> <ul style="list-style-type: none"> <li>Nature of Capital Budgeting</li> <li>Purpose of Capital Budgeting</li> <li>Capital Budgeting Process</li> <li>Types of Capital Investment</li> <li>Basic Principle of Measuring Project Cash Flows</li> <li>Increment Principle, Long Term Funds Principle, Exclusion of Financial Cost Principle, Post Tax Principle</li> <li>Probability technique for measurement of cash flow</li> <li>Capital Budgeting Techniques: Net Present Value Profitability Index and Discounted Pay Back Method.</li> <li>A Comparison; Project Selection Under Capital Rationing</li> </ul> (Note: Problems on computation of cash flow, ranking of projects on various

	techniques, selection and analysis with / without capital rationing)
<b>Sr. No.</b>	<b>Modules / Units</b>
<b>4</b>	<b>Financial Decisions</b>
	<p><b>A) Cost of Capital :</b></p> <ul style="list-style-type: none"> <li>• Introduction and Definition of Cost of Capital</li> <li>• Measurement of Cost of Capital</li> <li>• Measurement of WACC using book value and market value method.</li> <li>• Measuring Marginal Cost of Capital</li> </ul> <p><b>B) Capital Structure Decisions:</b></p> <ul style="list-style-type: none"> <li>• Meaning and Choice of Capital Structure</li> <li>• Importance of Optimal Capital Structure</li> <li>• EBIT -EPS Analysis</li> <li>• Capital Structure Theories</li> <li>• Dividend Policies (Walter &amp; Gordon)</li> </ul>

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***1. Elective Courses (EC)***

***Cost and Management Accounting***

***Modules at a Glance***

Sr. No.	Modules	No. of Lectures
1	Unit Costing and Reconciliation of cost and financial accounts	15
2	Job Costing and Process Costing	15
3	Marginal Costing	15
4	Introduction to Standard Costing	15
Total		60

Sr. No.	Modules / Units
1	<b>Unit Costing and Reconciliation of cost and financial accounts</b>
	<p><b>A) Introduction to Costing</b></p> <ul style="list-style-type: none"> <li>• Meaning, Nature, Scope, Objective of Cost Accounting</li> <li>• Financial Accounting v/s Cost Accounting</li> <li>• Advantages and Disadvantages of Cost Accounting</li> <li>• Elements of Costs-Cost classification</li> <li>• Installation of Cost Accounting System</li> </ul> <p><b>B) Unit costing and Reconciliation of cost and financial accounts.</b>  Note- Practical problems based on preparation of cost sheet reconciliation of cost and financial accounts.</p>
2	<b>Job Costing and Process Costing</b>
	<p><b>A) Job Costing</b></p> <ul style="list-style-type: none"> <li>• Job cost cards and databases</li> <li>• Collecting direct costs of each job</li> <li>• Attributing overhead costs to jobs</li> <li>• Applications of job costing</li> </ul> <p><b>B) Process Costing</b></p> <ul style="list-style-type: none"> <li>• Introduction, Meaning, Scope and Objectives</li> <li>• Measurement of Process loss, Abnormal gains and losses</li> <li>• Joint products and by products.</li> </ul> <p>(Excluding Equivalent units and Inter-process profit)</p>
3	<b>Marginal Costing</b>
	<p><b>A) Marginal Costing</b></p> <ul style="list-style-type: none"> <li>• Meaning, Application, Advantages, Limitations</li> <li>• Calculation of Contribution, Breakeven analysis , Profit-Volume Ratio, Margin of Safety and Required Sales to earn desired Profits.</li> </ul> <p>Note Simple Practical problems based on Marginal Costing excluding decision making</p>
4	<b>Introduction to Standard Costing</b>
	<p><b>A) Introduction to Standard Costing</b></p> <ul style="list-style-type: none"> <li>• Various types of standards and Setting of standards</li> <li>• Basic concepts of Material and Labour variance analysis.</li> </ul> <p>Note:-Simple Practical problems based on Material and Labour variances excluding sub variances and overhead variances</p>

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***1. Elective Courses (EC)***

***Fundamentals of Capital Market***

***Modules at a Glance***

Sr. No.	Modules	No. of Lectures
1	Introduction to Capital Market	15
2	Market Infrastructure for Capital Markets	15
3	Introduction to Collective Investment Scheme	15
4	Resource Mobilization in International Market.	15
Total		60

Sr. No.	Modules / Units
1	<b>Introduction to Capital Market</b>
	<p><b>A) Overview of Capital Market</b> - Indian Capital Market, Authorities Governing Capital Markets in India, Profile of Securities Market, Securities Market Reforms and Regulatory Measures to Promote Investor Confidence, Features of Developed Capital Market: IOSCO , Overview of Depository System in India.</p> <p><b>B) Capital Market Instruments and Rating-</b> Capital Market Instruments: Equity, Debentures, Preference Shares, Sweat Equity, Non-Voting Shares, Share Warrants, Derivatives and Hybrid Instruments.</p> <p><b>C) Rating and Grading of Instruments:</b> Concept, Scope, Significance and Factors influencing Ratings of Instruments.</p>
2	<b>Market Infrastructure for Capital Markets</b>
	<p><b>A) Introduction to Stock exchange</b> – Functions and significance, Operation and Trading Mechanisms of Stock exchanges , Types of Delivery , Margins, Margin Trading , Book Closure and Record Date, Trading of Partly Paid Shares and Debentures ,Trend Line, Trading Volume, Turnover and Outstanding Position, Market Making, Short Selling, Securities Lending and Borrowing, Straight Through Processing and Direct Market Access (DMA)</p>
3	<b>Introduction to Collective Investment Scheme</b>
	<p><b>A) Introduction to SEBI (Collective Investment Schemes) Regulations, 1999</b> – An Overview, Application fee to accompany the application, Furnishing of information , Conditions for eligibility, Grant of certificate, Terms and conditions, Procedure where registration is not granted, Restrictions on business activities, Obligations of collective investment management company(CIMC), Submission of information and documents, Trustees and their obligations, Contents of trust deed, Eligibility for appointment as trustee, Termination of trusteeship, Termination of the agreement with the collective investment management company(CIMC), Procedure for launching of schemes, Disclosures in the offer document , Allotment of units and refunds of money, Unit certificates, Transfer of units, Investments and segregation of funds, Listing of scheme and Winding up of scheme</p>
4	<b>Resource Mobilization in International Market.</b>
	<p><b>A) Introduction to Global Finances</b> – Introduction to Depository Receipts, ADR &amp; GDR, Depository Receipts Scheme 2014 , Pricing of securities, Sponsored ADR/GDR issue, Two-way Fungibility scheme , Provisions of Companies Act, 2013 relating to issue of GDRs, Companies (Issue of Global Depository Receipts) Rules, 2014, Procedure for issuance of GDR/FCCBs , Approvals required , Appointment of Intermediaries, Principal Documentation, Pre and Post Launch – Additional Key Actions</p> <p><b>B) Foreign Currency Exchangeable Bonds</b> – An introduction, Difference between FCCB and FCEB, Issue of Foreign Currency Exchangeable Bonds (FCEB) Scheme,2008, Foreign Currency Convertible Bonds and Ordinary Shares (Through Depository Receipt Mechanism) Scheme, 1993 and External Commercial Borrowings (ECB) - Forms and Features</p>

***Revised Syllabus of Courses of B.Com. (Investment Management)  
Programme at Semester III with Effect from the Academic Year 2017-  
2018***

***1. Elective Courses (EC)***

***Financial Services***

***Modules at a Glance***

Sr. No.	Modules	No. of Lectures
1	Introduction to Traditional Financial Services	15
2	Securitization	15
3	Financial Services - I	20
4	Financial Services - II	10
Total		60

Sr. No.	Modules / Units
1	<b>Introduction to Traditional Financial Services</b>
	<p><b>A) Financial Services:-</b> Concept, Objectives, Functions, Characteristics, Introduction to Financial Service Market, Growth of Financial Services in India, Problems in Financial Services Sector, Introduction to Banking and Non-Banking Companies.</p> <p><b>B) Factoring and Forfaiting:</b> Introduction, Types of Factoring, Theoretical Framework, Factoring Cost, Advantages and Disadvantages of Factoring, Factoring in India, Factoring v/s Forfaiting, Working of Forfaiting, Benefits and Drawbacks of Forfaiting.</p> <p><b>C) Bill Discounting:</b> Introduction, Framework, Bill Market Schemes, Factoring V/s Bill Discounting in Receivable Management.</p>
2	<b>Securitization</b>
	<p><b>A) Issue Management and Intermediaries:</b> Introduction, Merchant Bankers/ Lead Managers, Underwriters, Bankers to an Issue, Brokers to an Issue</p> <p><b>B) Stock Broking:</b> Introduction, Stock Brokers, Sub Brokers, Foreign Brokers, Trading and Clearing/Self Clearing Members, Stock Trading ( Cash and Normal) Derivative Trading</p> <p><b>C) Securitization:</b> Definition, Securitization v/s Factoring, Features of Securitization, Pass Through Certificates, Securitization Mechanism, Special Purpose Vehicle, Securitisable Assets, Benefits of Securitization.</p>
3	<b>Financial Services - I</b>
	<p><b>A) Lease and Hire-Purchase:</b> Meaning, Types of Lease - Finance Lease, Operating Lease, Advantages and Disadvantages of Leasing, Leasing in India, Legal Aspects of Leasing. Definition of Hire Purchase, Hire Purchase and Instalment Sale Characteristics, Hire, Purchase and Leasing, Advantages of Hire Purchase, Problems of Hire Purchase.</p> <p><b>B) Housing Finance:</b> Introduction, Background of Housing Finance Industry, Housing Finance Policy Aspect, Sources of Funds, Market of Housing Finance, Housing Finance in India- Major Issues, Housing Finance in India – Growth Factors, Introduction to Housing Finance Institutions in India, National Housing Bank (NHB), Guidelines for Asset Liability Management System in HFC, Fair Trade Practice Code for HFC's, Housing Finance Agencies</p> <p><b>C) Venture Capital:</b> Introduction, Features of Venture Capital, Types of Venture Capital, Financing Stages, Disinvestment mechanisms, Venture Capital Investment process.</p>
4	<b>Financial Services - II</b>
	<p><b>A) Credit Rating Services -</b> Meaning, Origin, Features, Advantages of Rating, Regulatory Framework, Credit Rating Agencies, Credit Rating Process, Credit Rating Symbols. Credit Rating Agencies in India, Limitations of Rating</p> <p><b>B) Consumer Finance -</b> Introduction, Sources, Types of Products, Consumer Finance Practice in India, Terms, Pricing, Marketing and Insurance of Consumer Finance, Consumer Credit Scoring, Case for and against consumer Finance.</p>

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***Marketing of Investment Products***

***Modules at a Glance***

Sr. No.	Modules	No. of Lectures
1	Introduction to Marketing	15
2	Introduction to Financial Products	15
3	Buying Behaviour	10
4	E- Marketing	20
Total		60

Sr. No.	Modules / Units
1	<b>Introduction to Marketing</b>
	A) <b>Introduction to Marketing</b> - Meaning, Definition of Marketing, Marketing concept and its evolution, Difference between marketing and selling, Concept of services- Difference between goods and services, Goods service continuum, Service marketing triangle- Characteristics of services- Marketing mix elements( 4 and 7 Ps)- Environmental analysis-Macro and Micro Environment
2	<b>Introduction to Financial Products</b>
	A) <b>Introduction to Financial Products</b> - Financial service products meaning and Features, Investment related products- concepts and features-classification. B) <b>Marketing fundamentals</b> - Market segmentation, Distribution channels-pricing, Decision-factors affecting pricing-pricing policies, Role of regulators in pricing-structure and Marketing of financial products based on client requirements. C) <b>CRM</b> - Importance of CRM in Marketing of Financial Services-CRM and Relationship, Marketing-CRM, Concept-CRM implementation and evaluation.
3	<b>Buying Behaviour</b>
	A) <b>Consumer's buying behavior</b> -Factors affecting buying behavior, Need and importance of competition analysis, Porters five force model. B) <b>Marketing Strategies</b> - Market entry strategies Recent trends in marketing of investment products, Marketing through social networking channels.
4	<b>E- Marketing</b>
	A) <b>Introduction to E- Marketing</b> – Meaning, Objectives, Features, Scope, Benefits, Problems and Techniques B) <b>E-Marketing Tools</b> – Introduction, Objectives, E-mail Marketing, Creating a website, Social Media Marketing, Pay per Click Advertising, Search Engine Optimization, Blogging and Classified Advertising C) <b>Application of E- Marketing</b> - Introduction, Objectives, Online Advertising, Direct Response Medium, Role of Distribution in E-Marketing, Lead Generation Platform, Customer Service Mechanism and Relationship Building Medium.

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***2A. Ability Enhancement Courses (AEC)***

***Information Technology in Investment Management- I***

***Modules at a Glance***

Sr. No.	Modules	No. of Lectures
1	E-Commerce	10
2	Support Systems	15
3	E-Payments	15
4	MS-Office: Packages for Institutional Automation	20
Total		60

Sr. No.	Modules / Units
1	<b>E-Commerce</b>
	<p>A) <b>Introduction to Electronic Commerce</b> - E-Commerce Framework, E-Commerce and media convergence, Anatomy of E-Commerce Applications, E-Commerce Consumer and Organization Applications</p> <p>B) <b>The network Infrastructure for Electronic Commerce</b> - Market forces influencing the I-way, Components of I-way, Network Access Equipment</p> <p>C) <b>E-Commerce and World Wide Web</b> - Architectural framework of E-Commerce, WWW and its architecture, hypertext publishing, Technology behind the web, Security and the Web</p>
2	<b>Support Systems</b>
	<p>A) <b>Management Information System (MIS)</b> - Definition of MIS, Role and Impact of MIS, MIS and Users, MIS as a Control System, MIS –a support to the Management, Management Effectiveness and MIS, Organization as a System, MIS: Organization Effectiveness</p> <p>B) <b>Enterprise Resource Planning(ERP)</b> - Definition of ERP, Need of ERP, History of ERP, Benefits of ERP, ERP applications and Emerging trends, ERP –A Subset of Enterprise Applications</p> <p>C) <b>E-CRM:</b> - Customer Relationship Management, Typical Business Touchpoints, Orbitz</p>
3	<b>E-Payments:</b>
	<p>A) <b>E-payment systems</b> – An overview, B2C payments, B2B payments. Types of E- payment system – Credit card payment, debit cards, accumulating balance, online stored value payment systems, digital cash, digital (electronic) wallets, agile wallet, smart cards and digital cheques, plastic money, Secure Electronic Transaction (SET) Protocol</p>
4	<b>MS-Office: Packages for Institutional Automation</b>
	<p>A) <b>Ms-Word:</b> Usage of smart art tools, bookmark, cross-reference, hyperlink, mail merge utility and converting word as PDF files.</p> <p>B) <b>Ms-Excel:</b> Manipulating data, Working with charts, Working with PIVOT table and what-if analysis; Advanced excel functions-Vlookup(), hlookup(),pv(),fv(), pvschedule(),goal seek(), confidence(),AVERAGE(), averagea(),averageif(), averageifs(),MIN(), MAX(), COUNT(),COUNTA(), countif(), countifs(), ROUND(), INT(), avedev(), nested functions, name ,cells/ranges/constants, relative, absolute &amp; mixed cell reA) ferences, &gt;,&lt;&gt;=operators, Logical functions using if, and, or, not, date and time functions &amp; annotating formulae.</p> <p>C) <b>Macros:</b> Creating and executing VBA macros embedded in an excel sheet.</p>

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***2B. Skill Enhancement Courses (SEC)***

***Foundation Course – III  
(An Overview of Investment Management)***

***Modules at a Glance***

<b>Sr. No.</b>	<b>Modules</b>	<b>No. of Lectures</b>
1	Security Contract Act	10
2	Risk management	10
3	Fundamentals of Investments and its avenues	15
4	Financial literacy and Individual Investing	10
<b>Total</b>		<b>45</b>

Sr. No.	Modules / Units
1	<b>Security Contract Act</b>
	A) <b>Security Contract Act</b> – Important Terms, Objectives, Types of Contract, Stock Exchange Recognition, Refusal of Recognition, Listing and Delisting of Security, Byelaws, Functions, Appellate Authority, Cancellation, Fines and penalties.
2	<b>Risk management</b>
	<p>A) <b>Risk management:</b> - Concept of Risk, Type of Risk –systematic risk unsystematic risk, Risk management process, Risk identification, Risk evaluation, Risk mitigation, Risk handling.</p> <p>B) <b>Risk Governance</b> - Importance and Scope of Risk Governance, Risk and Three lines of Defense, Risk Management and Corporate Governance</p> <p>C) <b>Risk Assurance</b> – Purpose and Sources of Risk Assurance, Nature of Risk Assurance Reports and Challenges of Risk</p> <p>D) <b>Risk and Stakeholders Expectations</b> – Identifying the range of stakeholders and responding to stakeholders expectations.</p>
3	<b>Fundamentals of Investments and its Avenues</b>
	<p>A) <b>Fundamentals of Investments:-</b> Meaning and definition, Need and importance of investment, Investment objectives, Elements of Investment, Investment avenues, Taxes and investments, Place of liquidity in investment decisions, Importance of investment management.</p> <p>B) <b>Sources and Avenues of Investments:</b> - Bank Products, Banks and credit unions, Bonds, Stocks, Investment Funds, Annuities. Features of Equity Share &amp; Preference Share, Features of Debenture, Valuation of Equity Shares and its Techniques, Valuation of Debentures and its Techniques. Valuation of bullion Gold and Silver, Characteristics and Important features of Investment in bullion, Bullion Market and its operations, Factor influencing demand and supply of bullion, Gold ETF, Linkage with foreign exchange and currency.</p>
4	<b>Financial literacy and Individual Investing</b>
	<p>A) <b>Introduction to Financial literacy:</b> Meaning, need and importance of financial literacy, Components of financial literacy, Individual economic system, personal finance planning, RBI initiatives in financial literacy.</p> <p>B) <b>Individual Investing</b> - Getting ready to invest - Saving versus investing - Getting started – discipline and planning are key - Define your goals and investment time frame - Decide if you need income, growth or both - Understand the risks - Diversify to minimize risk - Recognize the importance of cost and tax.</p>

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***2B. Skill Enhancement Courses (SEC)***

**Foundation Course- Contemporary Issues- III**

***Modules at a Glance***

<b>Sr. No.</b>	<b>Modules</b>	<b>No. of Lectures</b>
1	Human Rights Provisions, Violations and Redressal	12
2	Dealing With Environmental Concerns	11
3	Science and Technology I	11
4	Soft Skills for Effective Interpersonal Communication	11
<b>Total</b>		<b>45</b>

Sr. No.	Modules / Units
<b>1</b>	<b>Human Rights Violations and Redressal</b>
	<p><b>A.</b> Scheduled Castes- Constitutional and legal rights, Forms of violations, Redressal mechanisms. <b>(2 Lectures)</b></p> <p><b>B.</b> Scheduled tribes- Constitutional and legal rights, Forms of violations, Redressal mechanisms. <b>(2 Lectures)</b></p> <p><b>C.</b> Women- Constitutional and legal rights, Forms of violations, Redressal mechanisms. <b>(2 Lectures)</b></p> <p><b>D.</b> Children- Constitutional and legal rights, Forms of violations, Redressal mechanisms. <b>(2 Lectures)</b></p> <p><b>E.</b> People with Disabilities, Minorities, and the Elderly population- Constitutional and legal rights, Forms of violations, Redressal mechanisms. <b>(4 Lectures)</b></p>
<b>2</b>	<b>Dealing With Environmental Concerns</b>
	<p><b>A.</b> Concept of Disaster and general effects of Disasters on human life- physical, psychological, economic and social effects. <b>(3 Lectures)</b></p> <p><b>B.</b> Some locally relevant case studies of environmental disasters. <b>(2 Lectures)</b></p> <p><b>C.</b> Dealing with Disasters - Factors to be considered in Prevention, Mitigation (Relief and Rehabilitation) and disaster Preparedness. <b>(3 Lectures)</b></p> <p><b>D.</b> Human Rights issues in addressing disasters- issues related to compensation, equitable and fair distribution of relief and humanitarian approach to resettlement and rehabilitation. <b>(3 Lectures)</b></p>
<b>3</b>	<b>Science and Technology – I</b>
	<p><b>A. Development of Science-</b> the ancient cultures, the Classical era, the Middle Ages, the Renaissance, the Age of Reason and Enlightenment. <b>(3 Lectures)</b></p> <p><b>B. Nature of science-</b> its principles and characteristics; Science as empirical, practical, theoretical, validated knowledge. <b>(2 Lectures)</b></p> <p><b>C. Science and Superstition-</b> the role of science in exploding myths, blind beliefs and prejudices; Science and scientific temper- scientific temper as a fundamental duty of the Indian citizen. <b>(3 Lectures)</b></p> <p><b>D. Science in everyday life-</b> technology, its meaning and role in development; Interrelation and distinction between science and technology. <b>(3 Lectures)</b></p>
<b>4</b>	<b>Soft Skills for Effective Interpersonal Communication</b>
	<p><b>Part A</b> <b>(4 Lectures)</b></p> <p>I) Effective Listening - Importance and Features.</p> <p>II) Verbal and Non-Verbal Communication; Public-Speaking and Presentation Skills.</p> <p>III) Barriers to Effective Communication; Importance of Self-Awareness and Body Language.</p> <p><b>Part B</b> <b>(4 Lectures)</b></p> <p>I) Formal and Informal Communication - Purpose and Types.</p> <p>II) Writing Formal Applications, Statement of Purpose (SOP) and Resume.</p> <p>III) Preparing for Group Discussions, Interviews and Presentations.</p> <p><b>Part C</b> <b>(3 Lectures)</b></p> <p>I) Leadership Skills and Self-Improvement - Characteristics of Effective Leadership.</p> <p>II) Styles of Leadership and Team-Building.</p>

## References

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2. Bajpai, Asha, *Child Rights in India*, Oxford University Press, New Delhi, 2010.
3. Bhatnagar Mamta and Bhatnagar Nitin, *Effective Communication and Soft Skills*, Pearson India, New Delhi, 2011.
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7. Motilal, Shashi, and Nanda, Bijoy Lakshmi, *Human Rights: Gender and Environment*, Allied Publishers, New Delhi, 2007.
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11. Sathe, Satyaranjan P., *Judicial Activism in India*, Oxford University Press, New Delhi, 2003.
12. Singh, Ashok Kumar, *Science and Technology for Civil Service Examination*, Tata McGraw Hill, New Delhi, 2012.
13. Thorpe, Edgar, *General Studies Paper I Volume V*, Pearson, New Delhi, 2017.

### Projects / Assignments (for Internal Assessment)

- i. Projects/Assignments should be drawn for the component on Internal Assessment from the topics in **Module 1 to Module 4**.
- ii. Students should be given a list of possible topics - at least 3 from each Module at the beginning of the semester.
- iii. The Project/Assignment can take the form of Street-Plays / Power-Point Presentations / Poster Exhibitions and similar other modes of presentation appropriate to the topic.
- iv. Students can work in groups of not more than 8 per topic.
- v. Students must submit a hard / soft copy of the Project / Assignment before appearing for the semester end examination.

### QUESTION PAPER PATTERN (Semester III)

The Question Paper Pattern for Semester End Examination shall be as follows:

**TOTAL MARKS: 75**

**DURATION: 150 MINUTES**

QUESTION NUMBER	DESCRIPTION	MARKS ASSIGNED
<b>1</b>	<b>i.</b> Question 1 A will be asked on the meaning / definition of concepts / terms from all Modules. <b>ii.</b> Question 1 B will be asked on the topic of the Project / Assignment done by the student during the Semester <b>iii.</b> In all 8 Questions will be asked out of which 5 have to be attempted.	<b>a)</b> Total marks: 15 <b>b)</b> For 1 A, there will be 3 marks for each sub-question. <b>c)</b> For 1 B there will be 15 marks without any break-up.
<b>2</b>	Descriptive Question with internal option (A or B) on Module 1	15
<b>3</b>	Descriptive Question with internal option (A or B) on Module 2	15
<b>4</b>	Descriptive Question with internal option (A or B) on Module 3	15
<b>5</b>	Descriptive Question with internal option (A or B) on Module 4	15

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***2B. Skill Enhancement Courses (SEC)***

***Foundation Course in NSS - I***

***Modules at a Glance***

<b>Sr. No.</b>	<b>Modules</b>	<b>No. of Lectures</b>
1	Value System & Gender sensitivity	12
2	Disaster preparedness & Disaster management	10
3	Health, hygiene & Diseases	13
4	Environment & Energy conservation	10
<b>Total</b>		<b>45</b>

Sr. No.	Modules / Units
<b>1</b>	<b>Value System &amp; Gender sensitivity</b>
	<b>UNIT - I – Value System</b> Meaning of value, Types of values- human values and social responsibilities- Indian value system- the concepts and its features <b>UNIT - II - Gender sensitivity and woman empowerment</b> Concept of gender- causes behind gender related problems- measures Meaning of woman empowerment- schemes for woman empowerment in India
<b>2</b>	<b>Disaster preparedness &amp; Disaster management</b>
	<b>UNIT - I - Basics of Disaster preparedness</b> Disaster- its meaning and types Disaster preparedness- its meaning and methods <b>UNIT - II - Disaster management</b> Disaster management- concept- disaster cycle - role of technology in disaster response- role of as first responder – the study of ‘Avhan’ Model
<b>3</b>	<b>Health, hygiene &amp; Diseases</b>
	<b>UNIT - I - Health and hygiene</b> Concept of complete health and maintenance of hygiene <b>UNIT - II - Diseases and disorders- preventive campaigning</b> Diseases and disorders- preventive campaigning in Malaria, Tuberculosis, Dengue, Cancer, HIV/AIDS, Diabetes
<b>4</b>	<b>Environment &amp; Energy conservation</b>
	<b>UNIT - I Environment and Environment enrichment program</b> Environment- meaning, features , issues, conservation of natural resources and sustainability in environment <b>UNIT - II Energy and Energy conservation program</b> Energy- the concept, features- conventional and non- conventional energy Energy conservation- the meaning and importance

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***2B. Skill Enhancement Courses (SEC)***

**Foundation Course in NCC - III**

***Modules at a Glance***

<b>Sr. No.</b>	<b>Modules</b>	<b>No. of Lectures</b>
1	National Integration & Awareness	10
2	Drill: Foot Drill	10
3	Adventure Training and Environment Awareness and Conservation	05
4	Personality Development and Leadership	10
5	Specialized subject (ARMY)	10
<b>Total</b>		<b>45</b>

Sr. No.	Modules / Units
1	<b>National Integration &amp; Awareness</b>
	<p><b>Desired outcome:</b> The students will display sense of patriotism, secular values and shall be transformed into motivated youth who will contribute towards nation building through national unity and social cohesion.</p> <p>The students shall enrich themselves about the history of our beloved country and will look forward for the solutions based on strengths to the challenges to the country for its development.</p> <ul style="list-style-type: none"> <li>• Freedom Struggle and nationalist movement in India.</li> <li>• National interests, Objectives, Threats and Opportunities.</li> <li>• Problems/ Challenges of National Integration.</li> <li>• Unity in Diversity</li> </ul>
2	<b>Drill: Foot Drill</b>
	<p><b>Desired outcome:</b> The students will demonstrate the sense of discipline, improve bearing, smartness, turnout, develop the quality of immediate and implicit obedience of orders, with good reflexes.</p> <ul style="list-style-type: none"> <li>• Side pace, pace forward and to the rear</li> <li>• Turning on the march and whiling</li> <li>• Saluting on the march</li> <li>• Marking time, forward march and halt in quick time</li> <li>• Changing step</li> <li>• Formation of squad and squad drill</li> </ul>
3	<b>Adventure Training, Environment Awareness and Conservation</b>
3A	<b>Adventure Training</b>
	<p><b>Desired outcome:</b> The students will overcome fear &amp; inculcate within them the sense of adventure, sportsmanship, esprit-d-corp and develop confidence, courage, determination, diligence and quest for excellence.</p> <ul style="list-style-type: none"> <li>• Any Two such as – Obstacle course, Slithering, Trekking, Cycling, Rock Climbing, Para Sailing, Sailing, Scuba Diving etc.</li> </ul>
3B	<b>Environment Awareness and Conservation</b>
	<p><b>Desired outcome:</b> The student will be made aware of the modern techniques of waste management and pollution control.</p> <ul style="list-style-type: none"> <li>• Waste management</li> <li>• Pollution control, water, Air, Noise and Soil</li> </ul>
4	<b>Personality Development and Leadership</b>
	<p><b>Desired outcome:</b> The student will inculcate officer like qualities with desired ability to take right decisions.</p> <ul style="list-style-type: none"> <li>• Time management</li> <li>• Effect of Leadership with historical examples</li> <li>• Interview Skills</li> <li>• Conflict Motives- Resolution</li> </ul>

Sr. No.	Modules / Units
5	<b>Specialized Subject: Army Or Navy Or Air</b>
	<p><b><u>Army</u></b>  <b>Desired outcome:</b> It will acquaint, expose &amp; provide knowledge about Army/ Navy/ Air force and to acquire information about expanse of Armed Forces ,service subjects and important battles</p> <p><b>A. Armed Force</b></p> <ul style="list-style-type: none"> <li>• Task and Role of Fighting Arms</li> <li>• Modes of Entry to Army</li> <li>• Honors and Awards</li> </ul> <p><b>B. Introduction to Infantry and weapons and equipments</b></p> <ul style="list-style-type: none"> <li>• Characteristics of 5.56mm INSAS Rifle, Ammunition, Fire power, Stripping, Assembling and Cleaning</li> <li>• Organization of Infantry Battalion.</li> </ul> <p><b>C. Military history</b></p> <ul style="list-style-type: none"> <li>• Study of battles of Indo-Pak War 1965,1971 and Kargil</li> <li>• War Movies</li> </ul> <p><b>D. Communication</b></p> <ul style="list-style-type: none"> <li>• Characteristics of Walkie-Talkies</li> <li>• Basic RT Procedure</li> <li>• Latest trends and Development (Multi Media, Video Conferencing, IT)</li> </ul> <p style="text-align: center;"><b>OR</b></p> <p><b><u>Navy</u></b></p> <p><b>A. Naval orientation and service subjects</b></p> <ul style="list-style-type: none"> <li>• Organization of Ship- Introduction on Onboard Organization</li> <li>• Naval Customs and Traditions</li> <li>• Mode of Entry into Indian Navy</li> <li>• Branches of the Navy and their functions</li> <li>• Naval Campaign (Battle of Atlantic, Pearl Harbour, Falkland War/Fleet Review/ PFR/ IFR)s</li> </ul> <p><b>B. Ship and Boat Modelling</b></p> <ul style="list-style-type: none"> <li>• Types of Models</li> <li>• Introduction of Ship Model- Competition Types of Model Prepare in NSC and RDC</li> <li>• Care and handling of power-tools used- maintenance and purpose of tools</li> </ul>

Sr. No.	Modules / Units
	<p><b>C. Search and Rescue</b></p> <ul style="list-style-type: none"> <li>• Role of Indian Coast Guard related to SAR</li> </ul> <p><b>D. Swimming</b></p> <ul style="list-style-type: none"> <li>• Floating and Breathing Techniques- Precautions while Swimming</li> </ul> <p style="text-align: center;"><b>OR</b></p> <p><b><u>AIR</u></b></p> <p><b>A. General Service Knowledge</b></p> <ul style="list-style-type: none"> <li>• Organization Of Air Force</li> <li>• Branches of the IAF.</li> </ul> <p><b>B. Principles of Flight</b></p> <ul style="list-style-type: none"> <li>• Venturi Effect</li> <li>• Aerofoil</li> <li>• Forces on an Aircraft</li> <li>• Lift and Drag</li> </ul> <p><b>C. Airmanship</b></p> <ul style="list-style-type: none"> <li>• ATC/RT Procedures</li> <li>• Aviation Medicine</li> </ul> <p><b>D. Aero- Engines</b></p> <ul style="list-style-type: none"> <li>• Types of Engines</li> <li>• Piston Engines</li> <li>• Jet Engines</li> <li>• Turboprop Engines</li> </ul>

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***2B. Skill Enhancement Courses (SEC)***

**Foundation Course in Physical Education - III**

***Modules at a Glance***

<b>Sr. No.</b>	<b>Modules</b>	<b>No. of Lectures</b>
1	Overview of Nutrition	10
2	Evaluation of Health, Fitness and Wellness	10
3	Prevention and Care of Exercise Injuries	10
4	Sports Training	15
<b>Total</b>		<b>45</b>

Sr. No.	Modules / Units
1	<b>Overview of Nutrition</b>
	<ul style="list-style-type: none"> <li>• Introduction to nutrition &amp; its principles</li> <li>• Role of Nutrition in promotion of health</li> <li>• Dietary Guidelines for Good Health</li> <li>• Regulation of water in body and factors influencing body temperature.</li> </ul>
2	<b>Evaluation of Health, Fitness and Wellness</b>
	<ul style="list-style-type: none"> <li>• Meaning &amp; Concept of holistic health</li> <li>• Evaluating Personal health-basic parameters</li> <li>• Evaluating Fitness Activities – Walking &amp; Jogging</li> <li>• Myths &amp; mis-conceptions of Personal fitness</li> </ul>
3	<b>Prevention and Care of Exercise Injuries</b>
	<ul style="list-style-type: none"> <li>• Types of Exercise Injuries</li> <li>• First Aid- Importance &amp; application in Exercise Injuries</li> <li>• Management of Soft tissues injuries</li> <li>• Management of bone injuries</li> </ul>
4	<b>Sports Training</b>
	<ul style="list-style-type: none"> <li>• Definition, aims &amp; objectives of Sports training</li> <li>• Importance of Sports training</li> <li>• Principles of Sports training</li> <li>• Drug abuse &amp; its effects</li> </ul>

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***3. Core Courses (CC)***

***Security Analysis and Portfolio Management – I***

**Modules at a Glance**

<b>Sr. No.</b>	<b>Modules</b>	<b>No. of Lectures</b>
1	Portfolio Management – An Introduction	10
2	Portfolio Analysis and Selection	20
3	Portfolio Revision and Evaluation	15
4	Bond Valuation	15
<b>Total</b>		<b>60</b>

Sr. No.	Modules / Units
1	<b>Portfolio Management – An Introduction</b>
	<p>A) <b>Investment</b>- Meaning, Characteristics, Objectives, Investment V/s Speculation, Investment V/s Gambling and Types of Investors</p> <p>B) <b>Portfolio Management</b> – Meaning, Evolution, Phases, Role of Portfolio Managers, Advantages of Portfolio Management.</p> <p>C) <b>Investment Environment</b>- Investment Environment in India and factors conducive for investment in India.</p>
2	<b>Portfolio Analysis and Selection</b>
	<p>A) <b>Portfolio Analysis</b> – Meaning and its Components, Calculation of Expected Return and Risk, Calculation of Covariance, Risk – Return Trade off.</p> <p>B) <b>Portfolio Selection</b> – Meaning, Feasible Set of Portfolios, Efficient Set of Portfolios, Selection of Optimal Portfolio, Markowitz Model, Limitations of Markowitz Model, Measuring Security Return and Portfolio Return, Risk under Single Index Model and Multi Index Model.</p>
3	<b>Portfolio Revision and Evaluation</b>
	<p>A) <b>Portfolio Revision</b> – Meaning, Need, Constraints and Strategies.</p> <p>B) <b>Portfolio Evaluation</b> – Meaning, Need, Measuring Returns (Sharpe, Treynor and Jensen Ratios) and Decomposition of Performance</p>
4	<b>Bond Valuation</b>
	<p>A) <b>Bond Valuation</b> – Meaning, Measuring Bond Returns – Yield to Maturity, Yield to call</p> <p>B) <b>Bond Pricing</b> – Introduction, Bond Pricing Theorems, Bond Risks and Bond Duration.</p>

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***3. Core Courses (CC)***

***Mutual Fund Management***

***Modules at a Glance***

<b>Sr. No.</b>	<b>Modules</b>	<b>No. of Lectures</b>
1	Introduction to Mutual Fund	15
2	Classification of Mutual Fund	15
3	Fund Selection Criteria	10
4	Financial Planning in Mutual fund	20
<b>Total</b>		<b>60</b>

Sr. No.	Modules / Units
1	<b>Introduction to Mutual Fund</b>
	<p><b>A) Introduction to Mutual Fund</b> - History &amp; Origin, Definition, Meaning, Characteristics, Advantages, Disadvantages, Limitations of Mutual Funds, Ethics in Mutual Fund. Entities involved – Sponsor, Trust, Trustee, Asset Management Company, Registrar and Transfer Agent (RTA) and Fund Houses in India.</p> <p><b>B) Legal Framework</b> - Role of regulatory agencies for Mutual funds – SEBI, RBI, AMFI, Ministry of Finance, SRO, Company Law Board, Department of Company's affairs, Registrar of Companies MF guidelines on Advertisement , Accounting , Taxation and Valuation norms, Guidelines to purchase Mutual Funds, Investor protection and MF regulations, Grievance mechanism in India</p>
2	<b>Classification of Mutual Fund</b>
	<p><b>A) Types of Mutual Funds</b> - ( Introduction and Characteristics)</p> <ul style="list-style-type: none"> <li>• Functional/Operational – Open ended, close ended, Interval,</li> <li>• Portfolio-Income, Growth, Balanced, MMMF</li> <li>• Geographical/ Location-Domestic, Offshore</li> <li>• Miscellaneous - Tax Saving Funds, Exchange Traded Funds, Balance Funds, Fixed Term Plan, Debt Funds, Systematic Investment Plan and Systematic Transfer Plan.</li> </ul> <p><b>B) Introduction to Portfolio Maturity, Calculations of NAV, Entry Load, Exit Load</b></p>
3	<b>Fund Selection Criteria</b>
	<p><b>A) Fund Rating and Ranking</b> – Its need and importance. Basis of Ratings, Interpretation of Funding Rating by CRISIL, CARE and ICRA, Selection Criteria (Size, Stability, Credit Portfolio, Performance)Performance Measurement – Rolling Returns and Benchmarking</p>
4	<b>Financial Planning in Mutual fund</b>
	<p><b>A) Basics of Financial Planning</b> – Financial Planning Steps, Life Cycle, Wealth Cycle, Risk Profiling, Asset Allocation, Contingency Funds.</p> <p><b>B) Investors Guide towards Financial Planning</b> – Eligibility for investment in MF, KYC ( Individuals, Micro SIPs, Institutional Investors, Fund Category Guidance ( Long Bond Funds, Short Bond Funds, Ultra Short Bond Funds) , Need for financial Advisor, Difference between advisor and Distributor, Colour Coding MF products, Bank FD's V/s Mutual Funds, Dividend V/s Growth Option</p> <p><b>C) Developing Model Portfolio for Investors</b> – Model Portfolios meaning, Step by Step Approach of Building Model Portfolio</p>



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***1. Elective Courses (EC)***

***Financial Management -II***

***Modules at a Glance***

Sr. No.	Modules	No. of Lectures
1	Working Capital Management	10
2	Management of Components of Working Capital	15
3	Financial Planning	15
4	Financial Policy and Corporate Strategy	15
Total		60

Sr. No.	Modules / Units
1	<b>Working Capital Management</b>
	<p><b>A) Introduction to Working Capital Management</b> – Meaning, Need, Importance, Scope, Types of working capital, Operating cycle and Estimating working capital needs of an organization.</p> <p><b>B) Financing Working Capital Requirements</b> – Sources of short term finances – Trade credit, Certificate of deposits, Commercial Papers, Bank Credit</p>
2	<b>Management of Components of Working Capital</b>
	<p><b>A) Management of Cash and Marketable Securities:</b> Motives for Holding Cash; Objectives of Cash Management; Factors Determining Cash Needs; Basic Strategies of Cash Management; Cash Management Techniques / Processes; Marketable Securities; and Cash Management Practices in India.</p> <p><b>B) Receivable Management:</b> Objectives; Credit Policies; Credit Terms; and Collection Policies.</p> <p><b>C) Inventory Management:</b> Objectives and Techniques.</p>
3	<b>Financial Planning</b>
	<p><b>A) Introduction to Budgetary Control</b> - Meaning and Essentials of Budget, Types of Budget, Advantages of Budgeting, Zero Based Budgeting and Master Budget.</p> <p><b>B) Introduction to Sales Budget, Production Budget, Material Budget, Cash Budget and Flexible Budget.</b></p>
4	<b>Financial Policy and Corporate Strategy</b>
	<p><b>A) Introduction to Strategic Financial Management</b> - Meaning of Strategic Financial Management, Strategic financial decision making framework and Functions of Strategic financial management</p> <p><b>B) Business Risk and Financial Risk</b> - Introduction, Debt v/s Equity Financing , Types of Leverages, Investment Objective/Criteria for Individuals/Non-business Purpose</p>

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***1. Elective Courses (EC)***

***Direct Taxation***

***Modules at a Glance***

<b>Sr. No.</b>	<b>Modules</b>	<b>No. of Lectures</b>
1	Introduction to Direct Taxation	10
2	Heads of Income – I	20
3	Heads of Income – II	10
4	Computation of Total Income and Taxable Income of an Individual	20
<b>Total</b>		<b>60</b>

Sr. No.	Modules / Units
<b>1</b>	<b>Introduction to Direct Taxation</b>
	<p>A) Basic Terms ( S. 2,3,4) Assesse, Assessment, Assessment Year, Annual Value, Business, Capital Assets, Income, Previous Year, Person, Transfer.</p> <p>B) Determination of Residential Status of Individual, Firm, HUF and Company</p> <p>C) Scope of Total Income (S.5)</p>
<b>2</b>	<b>Heads of Income – I</b>
	<p>A) Salary ( S.15-17)</p> <p>B) Income from House Property(S. 22-27)</p> <p>C) Profit &amp; Gain from Business and Profession(S. 28, 30,31,32, 35, 35D,36,37, 40, 40A and 43B)</p>
<b>3</b>	<b>Heads of Income- II</b>
	<p>A) Capital Gain (S. 45, 48, 49, 50 and 54)</p> <p>B) Income from other sources (S.56- 59)</p> <p>C) Exclusions from Total Income (S.10) (Exclusions related to specified heads to be covered with relevant heads of income)</p>
<b>4</b>	<b>Computation of Total Income and Taxable Income of an Individual</b>
	<p>A) Deductions from Total Income S. 80C, 80CCC, 80D, 80DD, 80E, 80U, 80TTA</p> <p>B) Computation of Taxable Income</p>

### Notes

1. The Syllabus is restricted to study of particular sections, specifically mentioned rules and notifications only.
2. All modules / units include Computational problems / Case Study.
3. The Law in force on 1<sup>st</sup> April immediately preceding the commencement of Academic year will be applicable for ensuing Examinations.

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***1. Elective Courses (EC)***

***Fundamentals of Equity Market***

***Modules at a Glance***

<b>Sr. No.</b>	<b>Modules</b>	<b>No. of Lectures</b>
1	Introduction to Equity Market	10
2	Components of Equity Market	20
3	Law relating to Issue of Shares	15
4	Evolving Role of Equity Market	15
<b>Total</b>		<b>60</b>

Sr. No.	Modules / Units
1	<b>Introduction to Equity Market</b>
	A) Meaning and Definition of equity shares, Growth of corporate sector and the simultaneous growth of equity shareholders, Trade-off between ownership and management in companies, Development of equity culture in India
2	<b>Components of Equity Market</b>
	<p>A) <b>Basics of Primary Market</b> - IPO , Book building, Red-Herring Prospectus -it's unique features, Green Shoe option, Sweat equity, ESOP, Right issue of shares, Non-voting shares and Role of merchant bankers in fixing the price</p> <p>B) <b>Market For Equity</b> – Secondary Markets- Definition and functions of Stock Exchanges, Evolution and Growth of Stock Exchanges, Stock Exchanges in India, NSE, BSE, OTCEI and Overseas Stock Exchanges, Recent Development in Stock Exchanges and Stock Market Indices.</p> <p>C) <b>Dealings in Stock Exchanges</b> - Role of Brokers, Stock Market Quotations, Procedure for buying &amp; selling shares, BOLT - On Line Trading/ NEAT System, Clearing &amp; Settlement systems</p>
3	<b>Law relating to Issue of Shares</b>
	A) <b>Issue and Listing of Securities</b> - Listing of Securities, Issue of Capital and Disclosure Requirements (ICDR), Procedure for issue of various types of shares and debentures, Employee Stock Option Scheme and Employee Stock Purchase Scheme, Delisting of Securities.
4	<b>Evolving Role of Equity Market</b>
	<p>A) <b>Role of Equity Markets in economic development</b> - Need for attracting more investors towards equity, Need for strengthening secondary markets, Link between primary Market and secondary market.</p> <p>B) Developments in the Indian Equity Market, Channelizing domestic savings &amp; investments, Role of FDI &amp; Foreign Institution Investment, Role of Retail Investors and Role of SEBI in promoting equity markets</p>

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***1. Elective Courses (EC)***

***Financial Derivatives***

***Modules at a Glance***

<b>Sr. No.</b>	<b>Modules</b>	<b>No. of Lectures</b>
1	Introduction to Derivatives market	10
2	Introduction to Trading Systems	15
3	Introduction to Forwards and Futures	20
4	Introduction to Options	15
<b>Total</b>		<b>60</b>

Sr. No.	Modules/ Units
1	<b>Introduction to Derivatives market</b>
	A) <b>Derivatives</b> – Meaning, Elements of a derivative contract, Factors driving growth of derivatives market, Types of derivatives, Types of underlying assets, Participants in derivative market, Advantages & Disadvantages of trading in derivatives market.
2	<b>Introduction to Trading Systems</b>
	A) <b>Basics of Index</b> - Introduction to index, Significance of index, Types of stock market indices, Attributes of an index, Index management, Major indices in India and Application of indices. B) <b>Introduction to Trading Systems</b> - Meaning, Selection criteria of stocks for trading, Selection criteria of index for trading, Adjustments for corporate actions.
3	<b>Introduction to Forwards and Futures</b>
	A) <b>Introduction to Forwards and Futures</b> – Meaning and limitations of forward, Meaning and features of future contract. B) <b>Futures terminology</b> – spot price, future price, contract cycle, expiration day, tick cycle, contract size, contract value, basis, cost of account, initial margin, marking to market, open interest and volume traded, contract specifications, price band, position in derivatives markets. C) Difference between futures and forwards, Pay off for futures, Pricing of futures and Uses of futures.
4	<b>Introduction to Options</b>
	A) <b>Option Market</b> - Basics of options, Option terminology – index option, stock option, buyer of option, writer of option, American option, European Option, option price and premium, lot size, expiration day, spot price, strike price, ITM option, ATM option, OTM option, intrinsic value, time value, open interest, exercise of option, assignment of option, Pay off charts for option B) Pricing fundamentals of options, Black & Scholes Model, Uses of options and Option trading strategies.

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***1. Elective Courses (EC)***

***Introduction to Equity Research***

***Modules at a Glance***

<b>Sr. No.</b>	<b>Modules</b>	<b>No. of Lectures</b>
1	Equity Research – An Overview	15
2	Fundamentals of Research	15
3	Company Analysis	15
4	Valuation Principles	15
Total		60

Sr. No.	Modules / Units
1	<b>Equity Research – An Overview</b>
	<p><b>A) Introduction</b> – Meaning, Goals of equity research, Elements of equity research, Process of equity research, Types of equity research, Classification of stocks, Market participants, Role of equity research in capital market and Different approaches to equity research.</p> <p><b>B) Introduction to Research Analyst Profession</b> – Role of research analyst, Responsibilities of research analyst, Basic principles of interaction with Clients/ Companies, Qualities of Research Analyst.</p>
2	<b>Fundamentals of Research</b>
	<p><b>A) Fundamentals of Research</b> – Key points considered before investing, Research on business and stocks, Overview of Fundamental analysis, Technical analysis and Behavioural finance.</p> <p><b>B) Economy Analysis</b> – Principles of macro and micro economics, key economic variables for carrying fundamental analysis, sources of information/data for carrying economic analysis</p> <p><b>C) Industry Analysis</b> – Theories for analysis for industry performance – Michael Porter’s Five Force Model for Industry Analysis, PESTLE Analysis, BCG Analysis, SCP Analysis. Key industry drivers and sources of information for industry analysis.</p>
3	<b>Company Analysis</b>
	<p><b>A) Qualitative Dimensions</b> – Understanding business and business models, Company’s SWOT Analysis, Management Quality and its governance system, Pricing power and sustainability of power, Success factors of the company, Compliance orientation of company and sources of information.</p> <p><b>B) Quantitative Dimensions</b> – History of Business V/s Future of Business, Reading of financial statements, Peer comparison, dividend and earning history of the company and Role of corporate actions of the company.</p>
4	<b>Valuation Principles</b>
	<p><b>A) Introduction to Valuation</b> – Difference between price and valuation, Need for valuation, Sources of value in business, Discounted cash flow model for business valuation, Absolute Valuations v/s Price Value Sense, Earning based value matrices, Asset based valuation matrices, Trading &amp; Transaction Multiples, SOTP valuation</p> <p><b>B) Fundamentals of Risk and Return</b> – Introduction to Compounded Annual Growth Rate, Risk in investments, Sensitivity analysis , Comparison of equity returns with bond returns and Behavioural biases influencing investments.</p>

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***2A. Ability Enhancement Courses (AEC)***

***Information Technology in Investment Management  
II***

***Modules at a Glance***

<b>Sr. No.</b>	<b>Modules</b>	<b>No. of Lectures</b>
1	E-Business	10
2	Security for E-Business	15
3	Cyber Law and Security	15
4	MS-Office: Packages for Institutional Automation	20
<b>Total</b>		<b>60</b>

Sr. No.	Modules / Units
1	<b>E-Business</b>
	<p>A) <b>Introduction, E-Commerce</b> – Definition, History of E-commerce, types of E-Commerce B to B etc. Comparison of traditional commerce and e-commerce. E-Commerce business models – major B2 B, B2C model, Consumer-to-Consumer (C2C), Consumer-to-Business (C2B) model, Peer to-Peer (P2P) model and Advantages/ Disadvantages of e-commerce</p> <p>B) Web auctions, Virtual communities, Portals, E-business revenue models.</p>
2	<b>Security for E-Business</b>
	<p>A) <b>Security threats</b>– An overview, Implementing E-commerce security, Encryption – Decryption, Cryptography methods, SSL protocol, Firewalls.</p> <p>B) <b>Threat hunting</b>: Definition of Threat hunting, Threat Hunting vs. Threat detection, Benefits and challenges of threat hunting, Best Practices for threat hunting, Considerations for threat hunting and threat detection, Threat hunting/detection software.</p>
3	<b>Cyber Law and Security</b>
	<p>A) <b>Cyber Crimes</b> - Various threats and attacks, Phishing, Key Loggers, Identity Theft, Call &amp; SMS forging, e-mail related crimes, Denial of Service Attacks, Hacking, Online shopping frauds, Credit card frauds, Cyber Stalking</p> <p>B) <b>Cyber Security</b> - Computer Security, E-Security, Password Security and Reporting internet fraud</p> <p>C) <b>Cyber Law</b> - Need of Cyber Law, History of Cyber Law in India, Legal Aspects of E-Business, Information Technology Act 2000 - salient features.</p>
4	<b>MS-Office: Packages for Institutional Automation</b>
	<p>A) <b>MS-PowerPoint presentation</b>: Internal links between slides, hyperlinks, embedding multimedia content onto the slides (video/audio/stylish text), slide animation, timer, creating new presentation by existing theme, import online themes, creating a template of presentation, save and run the slide show(.ppsx)</p> <p>B) <b>Applications of Internet</b>: - Introduction to e-mail, writing professional e-mails, creating digitally signed documents, Google drive: usage of Google drive in storing the Google documents, excel sheets, presentations and PDF files.</p> <p>C) <b>Use of outlook express</b>: Configuring outlook express, Creating and managing profile in outlook, Sending and receiving e-mails via outlook express, Emailing the merged documents, Boomerang facility of email.</p>

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***2B. Skill Enhancement Courses (SEC)***

***Foundation Course – IV  
(An Overview of Banking & Insurance)  
Modules at a Glance***

<b>Sr. No.</b>	<b>Modules</b>	<b>No. of Lectures</b>
1	Introduction to Banking Sector	10
2	Regulatory and Developmental Framework governing Banking & Insurance sector	10
3	Introduction to Life and Health Insurance	10
4	Microfinance & Financial Inclusion	15
<b>Total</b>		<b>45</b>

Sr. No.	Modules / Units
1	<b>Introduction to Banking Sector</b>
	<p>A) <b>Introduction to Banking Sector</b> – Meaning of Banking Companies, primary and secondary functions of banks, banking system in India, Overview of RBI, Public, Private, Co-operative, Payment Bank and Regional Rural Banks</p> <p>B) <b>Introduction to Insurance Sector</b> – Meaning of Insurance Companies, Functions, Principles, Types of insurance policies and their advantages &amp; disadvantages.</p> <p>C) Significance and Role of Banking and Insurance in mobilizing savings, investment, wealth accumulation and economic growth.</p>
2	<b>Regulatory and Developmental Framework governing Banking &amp; Insurance sector</b>
	<p>A) <b>Overview of Regulatory Architecture</b> – Banking Regulation Act 1949, Banking Regulation Act (Amendment 2015), Payment and Settlement Act 2007, Negotiable Instrument Act 1881</p> <p>B) <b>Overview of Regulatory Architecture relating to Insurance</b> - Introduction to Insurance Act 1938 , IRDA Act 1999 and The Insurance Laws (Amendment) Act, 2015</p> <p>C) Developmental Activities of RBI and IRDA</p>
3	<b>Introduction to Life and Health Insurance</b>
	<p>A) <b>Life Insurance Business</b> – Components, Human Life Value Approach, Mutuality, Principle of risk pooling, Life Insurance Contract, Determinants of risk premium.</p> <p>B) <b>Health Insurance</b> – Meaning, IRDA regulations, Determinants of health insurance, Health Insurance Market in India and Determinants of risk premium.</p>
4	<b>Microfinance &amp; Financial Inclusion</b>
	<p>A) <b>Microfinance</b> - Introduction, Need and Code of Conduct for Microfinance Institutions in India, Advantages, Purpose, Limitations and Models of SHG – Bank Linkage Program, Role of NABARD and SIDBI, Portfolio Securitization, SHG-2, NRLM and SRLM, Priority Sector and its Classification</p> <p>B) <b>Financial Inclusion</b> - Need &amp; Extent, RBI Committee Report of Medium Term Path on Financial Inclusion 2015, World Findex Report 2015, NISM Report 2015, (Only Brief Extracts relating to bank account holdings and credit taken) , Features &amp; Procedures of Pradhan Mantri Jan Dhan Yojana, and PM Mudra Yojana, Features, procedures and significance of Stand up India Scheme for Green Field</p>

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***2B. Skill Enhancement Courses (SEC)***

**Foundation Course- Contemporary Issues- IV**

***Modules at a Glance***

<b>Sr. No.</b>	<b>Modules</b>	<b>No. of Lectures</b>
1	Significant, Contemporary Rights of Citizens	12
2	Approaches to understanding Ecology	11
3	Science and Technology –II	11
4	Introduction to Competitive Exams	11
<b>Total</b>		<b>45</b>

Sr. No.	Modules / Units
1	<b>Significant, Contemporary Rights of Citizens</b>
	<p><b>A. Rights of Consumers</b>-Violations of consumer rights and important provisions of the Consumer Protection Act, 2016; Other important laws to protect consumers; Consumer courts and consumer movements. <b>(3 Lectures)</b></p> <p><b>B. Right to Information</b>- Genesis and relation with transparency and accountability; important provisions of the Right to Information Act, 2005; some success stories. <b>(3 Lectures)</b></p> <p><b>C. Protection of Citizens'/Public Interest</b>-Public Interest Litigation, need and procedure to file a PIL; some landmark cases. <b>(3 Lectures)</b></p> <p><b>D. Citizens' Charters, Public Service Guarantee Acts.</b> <b>(3 Lectures)</b></p>
2	<b>Approaches to understanding Ecology</b>
	<p><b>A. Understanding approaches to ecology</b>- Anthropocentrism, Biocentrism and Eco centrism, Ecofeminism and Deep Ecology. <b>(3 Lectures)</b></p> <p><b>B. Environmental Principles-1:</b> the sustainability principle; the polluter pays principle; the precautionary principle. <b>(4 Lectures)</b></p> <p><b>C. Environmental Principles-2:</b> the equity principle; human rights principles; the participation principle. <b>(4 Lectures)</b></p>
3	<b>Science and Technology –II</b>
	<p><b>Part A:Some Significant Modern Technologies, Features and Applications (7 Lectures)</b></p> <p>i. <b>Laser Technology</b>- Light Amplification by Stimulated Emission of Radiation; use of laser in remote sensing, GIS/GPS mapping, medical use.</p> <p>ii. <b>Satellite Technology</b>- various uses in satellite navigation systems, GPS, and imprecise climate and weather analyses.</p> <p>iii. <b>Information and Communication Technology</b>- convergence of various technologies like satellite, computer and digital in the information revolution of today's society.</p> <p>iv. <b>Biotechnology and Genetic engineering</b>- applied biology and uses in medicine, pharmaceuticals and agriculture; genetically modified plant, animal and human life.</p> <p>v. <b>Nanotechnology</b>- definition: the study, control and application of phenomena and materials at length scales below 100 nm; uses in medicine, military intelligence and consumer products.</p> <p><b>Part B:Issues of Control, Access and Misuse of Technology.</b> <b>(4 Lectures)</b></p>

Sr. No.	Modules / Units
4	Introduction to Competitive Exams
	<p><b>Part A. Basic information on Competitive Examinations- the pattern, eligibility criteria and local centres:</b></p> <ul style="list-style-type: none"> <li>i. Examinations conducted for entry into professional courses - Graduate Record Examinations (GRE), Graduate Management Admission Test (GMAT), Common Admission Test (CAT) and Scholastic Aptitude Test (SAT).</li> <li>ii. Examinations conducted for entry into jobs by Union Public Service Commission, Staff Selection Commission (SSC), State Public Service Commissions, Banking and Insurance sectors, and the National and State Eligibility Tests (NET / SET) for entry into teaching profession.</li> </ul> <p><b>Part B. Soft skills required for competitive examinations- (7 Lectures)</b></p> <ul style="list-style-type: none"> <li>i. Information on areas tested: Quantitative Ability, Data Interpretation, Verbal Ability and Logical Reasoning, Creativity and Lateral Thinking</li> <li>ii. Motivation: Concept, Theories and Types of Motivation</li> <li>iii. Goal-Setting: Types of Goals, SMART Goals, Stephen Covey's concept of human endowment</li> <li>iv. Time Management: Effective Strategies for Time Management</li> <li>v. Writing Skills: Paragraph Writing, Report Writing, Filing an application under the RTI Act, Consumer Grievance Letter.</li> </ul>

## References

1. Asthana, D. K., and Asthana, Meera, *Environmental Problems and Solutions*, S. Chand, New Delhi, 2012.
2. Bajpai, Asha, *Child Rights in India*, Oxford University Press, New Delhi, 2010.
3. Bhatnagar Mamta and Bhatnagar Nitin, *Effective Communication and Soft Skills*, Pearson India, New Delhi, 2011.
4. G Subba Rao, *Writing Skills for Civil Services Examination*, Access Publishing, New Delhi, 2014
5. Kaushal, Rachana, *Women and Human Rights in India*, Kaveri Books, New Delhi, 2000.
6. Mohapatra, Gaur Krishna Das, *Environmental Ecology*, Vikas, Noida, 2008.
7. Motilal, Shashi, and Nanda, Bijoy Lakshmi, *Human Rights: Gender and Environment*, Allied Publishers, New Delhi, 2007.
8. Murthy, D. B. N., *Disaster Management: Text and Case Studies*, Deep and Deep Publications, New Delhi, 2013.
9. Parsuraman, S., and Unnikrishnan, ed., *India Disasters Report II*, Oxford, New Delhi, 2013
10. Reza, B. K., *Disaster Management*, Global Publications, New Delhi, 2010.
11. Sathe, Satyaranjan P., *Judicial Activism in India*, Oxford University Press, New Delhi, 2003.
12. Singh, Ashok Kumar, *Science and Technology for Civil Service Examination*, Tata McGraw Hill, New Delhi, 2012.
13. Thorpe, Edgar, *General Studies Paper I Volume V*, Pearson, New Delhi, 2017.

### Projects / Assignments (for Internal Assessment)

- i. Projects/Assignments should be drawn for the component on Internal Assessment from the topics in **Module 1 to Module 4**.
- ii. Students should be given a list of possible topics - at least 3 from each Module at the beginning of the semester.
- iii. The Project/Assignment can take the form of Street-Plays / Power-Point Presentations / Poster Exhibitions and similar other modes of presentation appropriate to the topic.
- iv. Students can work in groups of not more than 8 per topic.
- v. Students must submit a hard / soft copy of the Project / Assignment before appearing for the semester end examination.

### QUESTION PAPER PATTERN (Semester III)

The Question Paper Pattern for Semester End Examination shall be as follows:

**TOTAL MARKS: 75**

**DURATION: 150 MINUTES**

QUESTION NUMBER	DESCRIPTION	MARKS ASSIGNED
<b>1</b>	<b>i.</b> Question 1 A will be asked on the meaning / definition of concepts / terms from all Modules. <b>ii.</b> Question 1 B will be asked on the topic of the Project / Assignment done by the student during the Semester <b>iii.</b> In all 8 Questions will be asked out of which 5 have to be attempted.	<b>a)</b> Total marks: 15 <b>b)</b> For 1 A, there will be 3 marks for each sub-question. <b>c)</b> For 1 B there will be 15 marks without any break-up.
<b>2</b>	Descriptive Question with internal option (A or B) on Module 1	15
<b>3</b>	Descriptive Question with internal option (A or B) on Module 2	15
<b>4</b>	Descriptive Question with internal option (A or B) on Module 3	15
<b>5</b>	Descriptive Question with internal option (A or B) on Module 4	15



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***2B. Skill Enhancement Courses (SEC)***

**Foundation Course in NSS - IV**

***Modules at a Glance***

<b>Sr. No.</b>	<b>Modules</b>	<b>No. of Lectures</b>
1	Entrepreneurship Development	10
2	Rural Resource Mobilization	10
3	Ideal village & stake of GOS and NGO	13
4	Institutional Social Responsibility and modes of Awareness	12
<b>Total</b>		<b>45</b>

Sr. No.	Modules / Units
<b>1</b>	<b>Entrepreneurship Development</b>
	<b>UNIT - I Entrepreneurship development</b> Entrepreneurship development- its meaning and schemes Government and self-employment schemes for Entrepreneurship development <b>UNIT - II - Cottage Industry</b> Cottage Industry- its meaning, its role in development process Marketing of cottage products and outlets
<b>2</b>	<b>Rural Resource Mobilization</b>
	<b>UNIT - I - Rural resource mobilization-</b> A case study of eco-village, eco-tourism, agro-tourism <b>UNIT - II - Micro financing with special reference to self-help groups</b>
<b>3</b>	<b>Ideal village &amp; stake of GOS and NGO</b>
	<b>UNIT - I - Ideal village</b> Ideal village- the concept Gandhian Concept of Ideal village Case studies on Ideal village <b>UNIT - II - Government Organisations(GOs ) and Non-Government Organisations (NGOs)</b> The concept and functioning
<b>4</b>	<b>Institutional Social Responsibility and modes of Awareness</b>
	<b>UNIT - I - Institutional Social Responsibilities</b> Concept and functioning- case study of adapted village <b>UNIT - II - Modes of awareness through fine Arts Skills</b> Basics of performing Arts as tool for social awareness, street play, creative dance, patriotic song, folk songs and folk dance. Rangoli, posters, flip charts, placards, etc.

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***2B. Skill Enhancement Courses (SEC)***

**Foundation Course in NCC - IV**

***Modules at a Glance***

<b>Sr. No.</b>	<b>Modules</b>	<b>No. of Lectures</b>
1	Disaster Management, Social Awareness and Community Development	10
2	Health and Hygiene	10
3	Drill with Arms	05
4	Weapon Training	10
5	Specialized Subject: Army Or Navy Or Air	10
<b>Total</b>		<b>45</b>

Sr. No.	Modules / Units
1	<b>Disaster Management, Social Awareness and Community Development</b> <b>Disaster Management:</b> <b>Desired outcome:</b> The student shall gain basic information about civil defence organisation / NDMA & shall provide assistance to civil administration in various types of emergencies during natural / manmade disasters <ul style="list-style-type: none"> <li>• Fire Services &amp; Fire fighting</li> <li>• Assistance during Natural / Other Calamities: Flood / Cyclone/ Earth Quake/ Accident etc.</li> </ul> <b>Social Awareness and Community Development:</b> <b>Desired outcome:</b> The student shall have an understanding about social evils and shall inculcate sense of whistle blowing against such evils and ways to eradicate such evils. <ul style="list-style-type: none"> <li>• NGOs: Role &amp; Contribution</li> <li>• Drug Abuse &amp; Trafficking</li> <li>• Corruption</li> <li>• Social Evil viz. Dowry/ Female Foeticide/Child Abuse &amp; trafficking etc.</li> <li>• Traffic Control Org. &amp; Anti drunken Driving</li> </ul>
2	<b>Health and Hygiene</b> <b>Desired outcome:</b> The student shall be fully aware about personal health and hygiene lead a healthy life style and foster habits of restraint and self awareness. <ul style="list-style-type: none"> <li>• Hygiene and Sanitation (Personal and Food Hygiene)</li> <li>• Basics of Home Nursing &amp; First-Aid in common medical emergencies</li> <li>• Wound &amp; Fractures</li> </ul>
3	<b>Drill with Arms</b> <b>Desired outcome:</b> The students will demonstrate the sense of discipline, improve bearing, smartness, and turnout, and develop the quality of immediate and implicit obedience of orders, with good reflexes. <ul style="list-style-type: none"> <li>• Getting on Parade with Rifle and Dressing at the Order</li> <li>• Dismissing and Falling Out</li> <li>• General Salute, Salami Shastra</li> <li>• Squad Drill</li> <li>• Short/Long tail from the order and vice-versa</li> <li>• Examine Arms</li> </ul>
4	<b>Weapon Training</b> <b>Desired outcome:</b> The student shall have basic knowledge of weapons and their use and handling. <ul style="list-style-type: none"> <li>• The lying position, Holding and Aiming- I</li> <li>• Trigger control and firing a shot</li> <li>• Range procedure and safety precautions</li> <li>• Theory of Group and Snap Shooting</li> <li>• Short range firing, Aiming- II -Alteration of sight</li> </ul>

Sr. No.	Modules / Units
5	<b>Specialized Subject: Army Or Navy Or Air</b>
	<p><b>Army</b>  <b>Desired outcome:</b> The training shall instill patriotism, commitment and passion to serve the nation motivating the youth to join the defence forces.  It will also acquaint, expose &amp; provide basic knowledge about armed, naval and air-force subjects</p> <p><b>A. Map reading</b></p> <ul style="list-style-type: none"> <li>• Setting a Map, finding North and own position</li> <li>• Map to ground, Ground to Map</li> <li>• Point to Point March</li> </ul> <p><b>B. Field Craft and Battle Craft</b></p> <ul style="list-style-type: none"> <li>• Observation, Camouflage and Concealment</li> <li>• Field Signals</li> <li>• Types of Knots and Lashing</li> </ul> <p><b>C. Introduction to advanced weapons and role of technology (To be covered by the guest lecturers)</b></p> <p style="text-align: center;"><b>OR</b></p> <p><b>Navy</b></p> <p><b>A. Naval Communication</b></p> <ul style="list-style-type: none"> <li>• Semaphore <ul style="list-style-type: none"> <li>▪ Phonetic Alphabets</li> <li>▪ Radio Telephony Procedure</li> <li>▪ Wearing of National Flag, Ensign and Admiral's Flag.</li> </ul> </li> </ul> <p><b>B. Seamanship</b></p> <ul style="list-style-type: none"> <li>• <b>Anchor work</b> <ul style="list-style-type: none"> <li>▪ Types of Anchor, Purpose and Holding ground</li> </ul> </li> <li>• <b>Boat work</b> <ul style="list-style-type: none"> <li>▪ Demonstrate Rigging a whaler and enterprise boat- Parts of Sail and Sailing Terms</li> <li>▪ Instructions in Enterprise Class Board including theory of Sailing, Elementary Sailing Tools</li> <li>▪ Types of Power Boats Used in the Navy and their uses, Knowledge of Anchoring, Securing and Towing a Boat</li> </ul> </li> </ul> <p><b>C. Introduction to advanced weapons and role of technology (To be covered by the guest lecturers)</b></p>

Sr. No.	Modules / Units
	<p style="text-align: center;"><i>OR</i></p> <p><b>Air</b></p> <p><b>A. Air frames</b></p> <ul style="list-style-type: none"> <li>• Fuselage</li> <li>• Main and Tail Plain</li> </ul> <p><b>B. Instruments</b></p> <ul style="list-style-type: none"> <li>• Introduction to RADAR</li> </ul> <p><b>C. Aero modelling</b></p> <ul style="list-style-type: none"> <li>• Flying/ Building of Aero models</li> </ul> <p><b>D. Introduction to advanced weapons and role of technology (To be covered by the guest lecturers)</b></p>

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***2B. Skill Enhancement Courses (SEC)***

**Foundation Course in Physical Education - III**

***Modules at a Glance***

<b>Sr. No.</b>	<b>Modules</b>	<b>No. of Lectures</b>
1	Stress Management	10
2	Awards, Scholarship & Government Schemes	10
3	Yoga Education	10
4	Exercise Scheduling/Prescription	15
<b>Total</b>		<b>45</b>

Sr. No.	Modules / Units
<b>1</b>	<b>Stress Management</b>
	<ul style="list-style-type: none"> <li>• Meaning &amp; concept of Stress</li> <li>• Causes of Stress</li> <li>• Managing Stress</li> <li>• Coping Strategies</li> </ul>
<b>2</b>	<b>Awards, Scholarship &amp; Government Schemes</b>
	<ul style="list-style-type: none"> <li>• State &amp; National level Sports Awards</li> <li>• State Sports Policy &amp; Scholarship Schemes</li> <li>• National Sports Policy &amp; Scholarship Schemes</li> <li>• Prominent Sports Personalities</li> </ul>
<b>3</b>	<b>Yoga Education</b>
	<ul style="list-style-type: none"> <li>• Differences between Yogic Exercises &amp; non- Yogic exercises</li> <li>• Contribution of Yoga to Sports</li> <li>• Principles of Asanas&amp; Bandha</li> <li>• Misconceptions about Yoga</li> </ul>
<b>4</b>	<b>Exercise Scheduling/Prescription</b>
	<ul style="list-style-type: none"> <li>• Daily Routine Prescription.</li> <li>• Understanding Activity level &amp; Calorie requirement.</li> <li>• Adherence &amp; Motivation for exercise.</li> <li>• Impact of Lifestyle on Health</li> </ul>

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***3. Core Courses (CC)***

***Security Analysis and Portfolio Management – II***

**Modules at a Glance**

<b>Sr. No.</b>	<b>Modules</b>	<b>No. of Lectures</b>
1	Fundamental Analysis	15
2	Technical Analysis	15
3	Efficient Market Theory	15
4	Capital Asset Pricing Model	15
<b>Total</b>		<b>60</b>

Sr. No.	Modules / Units
1	<b>Fundamental Analysis</b>
	<p>A) <b>Economy Analysis</b>- Introduction, Meaning, Framework of Economic Analysis, Forecasting, Barometric or Indicator Approach, Econometric Model Building and Opportunistic Model Building.</p> <p>B) <b>Industry Analysis</b>- Concept of Analysis, Industry Life Cycle, Industry Characteristics</p> <p>C) <b>Company Analysis</b>- Financial Statements, Analysis of Financial Statements and Assessment of risk (Leverages)</p>
2	<b>Technical Analysis</b>
	<p>A) Dow Theory</p> <p>B) Meaning and Principles of Technical Analysis, Price Chart, Line Chart, Bar Chart, Japanese Candlestick Chart, Trends and Trend Reversals, Chart Patterns, Support and Resistance, Reversal Patterns, Continuation Patterns and Elliot Wave Theory</p> <p>C) Mathematical Indicators – Calculation of Moving Averages ( Simple and Exponential Moving Average), Oscillators and Relative Strength Index</p> <p>D) Market Indicators</p> <p>E) Fundamental Analysis V/s Technical Analysis</p>
3	<b>Efficient Market Theory</b>
	<p>A) Random Walk Theory</p> <p>B) The Efficient Market Hypothesis</p> <p>C) Forms of Market Efficiency</p> <p>D) Competitive Market Hypothesis</p>
4	<b>Capital Asset Pricing Model</b>
	<p>A) <b>CAPM</b> – Fundamental Notions of Portfolio Theory, Assumption of CAPM, Efficient Frontier with Riskless Lending and Borrowing, Capital Market Line, Security Market Line and Pricing of Securities with CAPM.</p> <p>B) <b>Arbitrage Pricing Theory (APT)</b> – The Return Generating Model, Factors Affecting Stock Return, Expected Return on Stock, APT V/s CAPM.</p>

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***3. Core Courses (CC)***

**Business Economics II- Macroeconomics**

***Modules at a Glance***

<b>Sr. No.</b>	<b>Modules</b>	<b>No. of Lectures</b>
1	Introduction to Macroeconomic Data and Theory	15
2	Money, Inflation and Monetary Policy	15
3	Constituents of Fiscal Policy	15
4	Open Economy : Theory and Issues of International Trade	15
<b>Total</b>		<b>60</b>

Sr. No.	Modules / Units
1	<b>Introduction to Macroeconomic Data and Theory</b>
	<ul style="list-style-type: none"> <li>• <b>Macroeconomics:</b> Meaning, Scope and Importance.</li> <li>• <b>Circular flow of aggregate income and expenditure:</b> closed and open economy models</li> <li>• <b>The Measurement of national product:</b> Meaning and Importance - conventional and Green GNP and NNP concepts - Relationship between National Income and Economic Welfare.</li> <li>• <b>Short run economic fluctuations :</b> Features and Phases of Trade Cycles</li> <li>• <b>The Keynesian Principle of Effective Demand:</b> Aggregate Demand and Aggregate Supply - Consumption Function - Investment function - effects of Investment Multiplier on Changes in Income and Output</li> </ul>
2	<b>Money, Inflation and Monetary Policy</b>
	<ul style="list-style-type: none"> <li>• <b>Money Supply:</b> Determinants of Money Supply - Factors influencing Velocity of Circulation of Money</li> <li>• <b>Demand for Money :</b> Classical and Keynesian approaches and Keynes' liquidity preference theory of interest</li> <li>• <b>Money and prices :</b> Quantity theory of money - Fisher's equation of exchange - Cambridge cash balance approach</li> <li>• <b>Inflation:</b> Demand Pull Inflation and Cost Push Inflation - Effects of Inflation- Nature of inflation in a developing economy.</li> <li>• <b>Monetary policy :</b> Meaning, objectives and instruments, inflation targeting</li> </ul>
3	<b>Constituents of Fiscal Policy</b>
	<ul style="list-style-type: none"> <li>• <b>Role of a Government</b> to provide Public goods-Principles of Sound and Functional Finance</li> <li>• <b>Fiscal Policy:</b> Meaning, Objectives - Contra cyclical Fiscal Policy and Discretionary Fiscal Policy</li> <li>• <b>Instruments of Fiscal policy :</b> Canons of taxation - Factors influencing incidence of taxation - Effects of taxation Significance of Public Expenditure - Social security contributions- Low Income Support and Social Insurance Programmes - Public Debt - Types, Public Debt and Fiscal Solvency, Burden of debt finance</li> <li>• <b>Union budget</b> -Structure- Deficit concepts-Fiscal Responsibility and Budget Management Act.</li> </ul>
4	<b>Open Economy : Theory and Issues of International Trade</b>
	<ul style="list-style-type: none"> <li>• <b>The basis of international trade :</b> Ricardo's Theory of comparative cost advantage - Heckscher – Ohlin theory of factor endowments - terms of trade - meaning and types - Factors determining terms of trade - Gains from trade - Free trade versus protection</li> <li>• <b>Foreign Investment :</b> Foreign Portfolio investment- Benefits of Portfolio capital flows-Foreign Direct Investment - Merits of Foreign Direct Investment - Role of Multinational corporations</li> <li>• <b>Balance of Payments:</b> Structure - Types of Disequilibrium - Measures to correct disequilibrium in BOP.</li> </ul> <p><b>Foreign Exchange and foreign exchange market :</b> Spot and Forward rate of Exchange - Hedging, Speculation and Arbitrage -Fixed and Flexible exchange rates-Managed flexibility</p>

**Revised Syllabus of Courses of B.Com.( Investment Management)**  
**Programme at Semester III**  
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**Reference Books**

Reference Books
<b>Financial Management – I</b>
<ul style="list-style-type: none"> <li>Financial Management : I MPandey, Vikas Publishing House.</li> <li>Financial Management : M.Y.Khan, P.K.Jain, Tata McGraw Hill.</li> <li>Financial Management : Ravi M Kishore, Taxman</li> <li>Financial Management : James C Van Horne, Prentice Hall</li> <li>Financial Management : Prassana Chandra, Prentice Hall.</li> <li>Financial Management : Chandra Haribariran Iyer: IBHL Publication.</li> </ul>
<b>Cost and Management Accounting</b>
<ul style="list-style-type: none"> <li>Dr. Girish Jakhotiya- Strategic Financial Management</li> <li>Lall, B.M. and Jain, I.C. – Cost Accounting: Principles and Practice, Prentice Hall, Delhi</li> <li>Welsch, Glenn A., Ronald W. Hilton and Paul N. Gordan – Budgeting, Profit and Control, Prentice Hall, Del</li> <li>John K Shank &amp; Vijay Govindaraja, Strategic Cost Management - The new tool for Competitive Advantage, Free Press</li> <li>Cost Accounting-Principles and Practice; Arora M.N: Vikas, New Delhi.</li> <li>Cost Accounting; Jain S.P. and Narang K.L: Kalyani New Delhi.</li> </ul>
<b>Fundamentals of Capital Market</b>
<ul style="list-style-type: none"> <li>E. Gordon &amp; K. Natarajan: Capital Market in India; Himalaya Publishing House,</li> <li>Sanjeev Aggarwal : Guide to Indian Capital Market; Bharat Law House</li> <li>V.L. Iyer : SEBI Practice Manual; Taxman Allied Service (P) Ltd.,</li> <li>M.Y. Khan: Indian Financial Systems; Tata McGraw Hill</li> </ul>
<b>Financial Services</b>
<ul style="list-style-type: none"> <li>IM Pandey Financial Management, Vikas Publishing House Ltd.</li> <li>Khan M.Y , Financial Services, Mc Graw Hill Education.</li> <li>Dr.S.Gurusamy, Financial Services, Vijay Nicole Imprints.</li> </ul>
<b>Marketing of Investment Products</b>
<ul style="list-style-type: none"> <li>Marketing: Moving from Traditional to Digital – Philip Kotler, Hermawan Kartajaya, and Iwan Setiawan</li> <li>Principal of Marketing- Philip Kotler and Garg Armstrong</li> <li>Marketing – Michael Etzel and Bruce Walker</li> </ul>
<b>Information Technology in Investment Management - I</b>
<ul style="list-style-type: none"> <li>E- Commerce, By Marriappa M</li> <li>“Frontiers of Electronic Commerce”-By Kalakota Ravi and A. B. Whinston</li> <li>Management Information System-by WamanJawadekar—3rd Edition, TMH publications</li> <li>Enterprise Resource Planning - Text and Cases– by Rajesh Ray- TMH publications</li> <li></li> </ul>

- Joseph, P.T., *E-Commerce: An Indian Perspective*, Prentice Hall of India, New Delhi, 2009.
- *Connected CRM-by David Williams-Wiley Publishers*
- *Microsoft Office Professional 2013-Step by step- By Beth Melton, Mark Dodge, Echo Swinford, Andrew Couch*

### **Foundation Course – III (Overview of Investment Management)**

- *Francis J.C Investments- Analysis and Management* Mc Graw Hill New York.
- *Reilly Frank K and Keith Brown Investment Analysis and Portfolio Management*
- *Management and Organizational Behavior , Ninth Edition, by Laurie J. Mullins, Pearson publisher*
- *Risk Management : M/s Macmillan India Limited*

### **Foundation Course in NSS III**

- *National Service Scheme Manual (Revised) 2006, Government of India, Ministry of Youth Affairs and Sports, New Delhi.*
- *University of Mumbai National Service Scheme Manual 2009.*
- *Avhan Chancellor's Brigade - NSS Wing, Training camp on Disaster Preparedness Guidelines, March 2012*
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- Pate R.R. & Hohn R.C. (1994). *Health Fitness Through Physical Education*. USA : Human Kinetics.
- Pandey ,&Gangopadhyay.(1995). *Health Education for school children*. New Delhi : Friends Publication.
- Safrit, M. (1990). *Introduction to Measurement in Physical Education and Exercise Science*. St. Louis,Toronto,Bastan : Times Mirror/Mosby College Publishing.
- Sharma, O.P. (1998). *History of Physical Education*. Delhi: Khel Sahitya Kendra.Werner. W.K., Hoeger. (2007). *Fitness and Wellness*. (8th ed.). Wadsworth, Cengage Learning.

#### **Security Analysis and Portfolio Management – I**

- Blake, David 1992, *Financial Market Analysis* , Mc Graw Hill London
- Francis J.C *Investments- Analysis and Management* Mc Graw Hill New York.
- Pistolesse Clifford *Using Technical Analysis* Vision Books
- Reilly Frank K and Keith Brown *Investment Analysis and Portfolio Management*.

#### **Mutual Fund Management**

- *Future scenario of Financial services* : R.Gordan & Natarajan (Himalaya)
- *Marketing of Financial services* : V. K. Avadhani (Himalaya)
- *MF, Data, Interpretation & analysis* : K.G. Shahadevan & Thripairaju (Prentice hall of India)
- *Mutual funds in India (Modern scenario)*: Dr. Manoj Dave & Mr. Lalitkumar Chauhan, (Paradise Publishers)
- *Mutual Funds & Financial Management* : Ramesh Garg (Yking books)
- *Mutual Fund products & services* : Indian institute for Banking & Finance ( Taxmann)

**Revised Syllabus of Courses of B.Com.( Investment Management)**  
**Programme at Semester IV**  
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**Reference Books**

Reference Books
<b>Financial Management - I</b>
<ul style="list-style-type: none"> <li>Financial Management : I MPandey, Vikas Publishing House.</li> <li>Financial Management : M.Y.Khan, P.K.Jain, Tata McGraw Hill.</li> <li>Financial Management : Ravi M Kishore, Taxman</li> <li>Financial Management : James C Van Horne, Prentice Hall</li> <li>Financial Management : Prassana Chandra, Prentice Hall.</li> <li>Financial Management : Chandra Haribariran Iyer: IBHL Publication</li> </ul>
<b>Direct Taxation</b>
<ul style="list-style-type: none"> <li>Taxmann's Direct Taxes Law &amp; Practice – Dr Vinod Singhania &amp; Dr Kapil Singhania</li> <li>Direct Taxes Law &amp; Practice – Dr Girish Ahuja &amp; Dr Ravi Gupta</li> </ul>
<b>Fundamentals of Equity Market</b>
<ul style="list-style-type: none"> <li>E. Gordon &amp; K. Natarajan: Capital Market in India; Himalaya Publishing House,</li> <li>Sanjeev Aggarwal : Guide to Indian Capital Market; Bharat Law House</li> <li>V.L. Iyer : SEBI Practice Manual; Taxman Allied Service (P) Ltd.,</li> <li>M.Y. Khan: Indian Financial Systems; Tata McGraw Hill</li> </ul>
<b>Financial Derivatives</b>
<ul style="list-style-type: none"> <li>Futures, options &amp; other derivatives by John C. Hull &amp; Basu</li> <li>Derivatives market by Robert McDonald, Pearson education</li> <li>Fundamentals of futures &amp; options by John Hull</li> <li>Option trading – bull market strategies by K.Sasidharan &amp; Alex K. Mathews, McGraw Hill publication</li> </ul>
<b>Introduction to Equity Research</b>
<ul style="list-style-type: none"> <li>James Valentine - Practices for Equity Research Analysts: Essentials for Buy-Side and Sell-Side Analysts</li> <li>Gillian Elock - How to Get an Equity Research Analyst Job: A Guide to Starting a Career in Asset Management</li> <li>Denis Bouyssou and Thierry Marchant - Evaluation and Decision Models with Multiple Criteria: Stepping stones for the analyst (International Series in Operations Research &amp; Management Science)</li> <li>McKinsey &amp; Company Inc., Tim Koller - Valuation: Measuring and Managing the Value of Companies (Wiley Finance) Hardcover – 4 Sep 2015</li> </ul>
<b>Information Technology in Investment Management - II</b>
<ul style="list-style-type: none"> <li>An Overview of Cyber Crime &amp; security-Volume 1-1st Edition --By Akash Kamal Mishra</li> <li>R. G. Saha, E-Business, HPH</li> <li>Handbook of Information Security, Threats, Vulnerabilities, Prevention Volume 3---By Hossein Bidgoli</li> <li>Microsoft Office Professional 2013-Step by step --By Beth Melton, Mark Dodge, Echo Swinford, Andrew Couch</li> <li>Cyber law: the Indian perspective---By Pavan Duggal -Saakshar Law Publications</li> </ul>
<b>Foundation Course – IV (An Overview of Banking &amp; Insurance)</b>
<ul style="list-style-type: none"> <li>Banking Law and Practice – M.L Tannan</li> <li>Microfinance Perspective and Operations – IIBF, 2016.</li> <li>Rural Banking Operations – IIBF, 2017 Edition</li> <li>Towards Financial Inclusion in India – K.G Karmakar, G.D Banerjee, N.P Mohanpatra</li> </ul>

#### Foundation Course in NSS IV

- *National Service Scheme Manual (Revised) 2006, Government of India, Ministry of Youth Affairs and Sports, New Delhi.*
- *University of Mumbai National Service Scheme Manual 2009.*
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- *Case material as a Training Aid for Field Workers, Gurmeet Hans.*
- *Social service opportunities in hospitals, Kapil K. Krishnan, TISS*
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- <http://www.thebetterindia.com/140/national-service-scheme-nss/>
- <http://en.wikipedia.org/wiki/national-service-scheme> 19=<http://nss.nic.in/admininstruct>
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#### Foundation Course in NCC - IV

- *Cadet's Hand book – Common subject..all wings, BY DG NCC, New Delhi.*
- *Cadet's Hand book – Specialised Subjects, Army, Navy, Air-force, BY DG NCC, New Delhi.*
- *NCC OTA Precise, BY DG NCC, New Delhi.*
- *“AVAN” Model of Disaster Mang., Vinayak Dalvie, Proceedings of Int. Conf. on Urban Plan. and Env Strat & Challenges, Elphinstone College, Jan 2007.*
- *Humanistic Tradition of India, N.L.Gupta, Mohit Publication, New Delhi*
- *Social psychology, Baron & Byrne, Pearson Publication, 12th Edition self awareness know yourself / insight (110) Group & Individuals (374) Group discussion*
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- *India 1996- A Reference Annual Govt. of India*
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**Revised Syllabus of Courses of B.Com.( Investment Management)**  
**Programme at Semester III and IV**  
**with effect from the Academic Year 2017-2018**

**Scheme of Evaluation**

The performance of the learners will be evaluated in two Components. One component will be the Internal Assessment component carrying 25% marks and the second component will be the Semester-wise End Examination component carrying 75% marks. The allocation of marks for the Internal Assessment and Semester End Examinations will be as shown below:-

**A) Internal Assessment: 25 %**

**Question Paper Pattern**

**(Internal Assessment- Courses without Practical Courses)**

Sr. No.	Particular	Marks
1	<b>One class test (20 Marks)</b>	
	Match the Column/ Fill in the Blanks/ Multiple Choice Questions (½ Mark each)	05 Marks
	Answer in One or Two Lines (Concept based Questions) (01 Mark each)	05 Marks
	Answer in Brief (Attempt Any Two of the Three) (05 Marks each)	10 Marks
2	Active participation in routine class instructional deliveries and overall conduct as a responsible learner, mannerism and articulation and exhibit of leadership qualities in organizing related academic activities	05 Marks

**Question Paper Pattern**

**(Internal Assessment- Courses with Practical Courses)**

Sr. No.	Particular	Marks
1	<b>Semester End Practical Examination (20 Marks)</b>	
	Journal	05 Marks
	Viva	05 Marks
	Laboratory Work	10 Marks
2	Active participation in routine class instructional deliveries and overall conduct as a responsible learner, mannerism and articulation and exhibit of leadership qualities in organizing related academic activities articulation and exhibit of leadership qualities in organizing related academic activities	05 Marks

**B) Semester End Examination: 75 %**

- i) Duration: The examination shall be of 2 ½ Hours duration
- ii) Theory question paper pattern
  - There shall be five questions each of 15 marks.

- All questions shall be compulsory with internal choice within the questions.
- Question may be subdivided into sub-questions a, b, c... and the allocation of marks depends on the weightage of the topic.

**(Detail question paper pattern has been given separately)**

### **Passing Standard**

The learners to pass a course shall have to obtain a minimum of 40% marks in aggregate for each course where the course consists of Internal Assessment and Semester End Examination. The learners shall obtain minimum of 40% marks (i.e. 10 out of 25) in the Internal Assessment and 40% marks in Semester End Examination (i.e. 30 Out of 75) separately, to pass the course and minimum of Grade E to pass a particular semester A learner will be said to have passed the course if the learner passes the Internal Assessment and Semester End Examination together.

## **Question Paper Pattern (Practical Courses)**

Maximum Marks: 75

Questions to be set: 05

Duration: 2 ½ Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	Objective Questions A) Sub Questions to be asked 10 and to be answered any 08 B) Sub Questions to be asked 10 and to be answered any 07 (*Multiple choice / True or False / Match the columns/Fill in the blanks)	15 Marks
Q-2	Full Length Practical Question <b>OR</b>	15 Marks
Q-2	Full Length Practical Question	15 Marks
Q-3	Full Length Practical Question <b>OR</b>	15 Marks
Q-3	Full Length Practical Question	15 Marks
Q-4	Full Length Practical Question <b>OR</b>	15 Marks
Q-4	Full Length Practical Question	15 Marks
Q-5	A) Theory questions B) Theory questions <b>OR</b>	08 Marks 07 Marks
Q-5	Short Notes To be asked 05 To be answered 03	15 Marks

**Note:**

**Practical question of 15 marks may be divided into two sub questions of 7/8 and 10/5 Marks. If the topic demands, instead of practical questions, appropriate theory question may be asked.**

## **Question Paper Pattern (Theoretical Courses)**

Maximum Marks: 75

Questions to be set: 05

Duration: 2 ½ Hrs.

All Questions are Compulsory Carrying 15 Marks each.

Question No	Particular	Marks
Q-1	Objective Questions A) Sub Questions to be asked 10 and to be answered any 08 B) Sub Questions to be asked 10 and to be answered any 07 (*Multiple choice / True or False / Match the columns/Fill in the blanks)	15 Marks
Q-2	Full Length Question <b>OR</b>	15 Marks
Q-2	Full Length Question	15 Marks
Q-3	Full Length Question <b>OR</b>	15 Marks
Q-3	Full Length Question	15 Marks
Q-4	Full Length Question <b>OR</b>	15 Marks
Q-4	Full Length Question	15 Marks
Q-5	A) Theory questions B) Theory questions <b>OR</b>	08 Marks 07 Marks
Q-5	Short Notes To be asked 05 To be answered 03	15 Marks

**Note:**

**Theory question of 15 marks may be divided into two sub questions of 7/8 and 10/5 Marks.**